

AOS-CX 10.14.0001 Release Notes

9300 Switch Series



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This release applies to the 9300 Switch Series. The following table lists any applicable minimum software versions required for that model of switch.



If your product is not listed in the below table, no minimum software version is required.

Product number	Product name	Minimum software version
R9A29A	Aruba 9300-32D 32p 100/200/400G QSFP-DD 2p 10G SFP+ Front-to-Back 6 Fans 2 AC PSU Bundle	10.10.1000
R9A30A	Aruba 9300-32D 32p 100/200/400G QSFP-DD 2p 10G SFP+ Back-to-Front 6 Fans 2 AC PSU Bundle	10.10.1000
R8Z96A	Aruba 9300-32D 32-port 100/200/400G QSFP-DD 2-port 10G Switch	10.10.1000

Important information for 9300 Switches



Aruba switches covered by this release note use eMMC or SSD storage. This is non-volatile memory for persistent storage of config, files, databases, scripts, and so forth.

To avoid damage to your equipment, do not interrupt power to the switch during a software update.



Clear the browser cache after upgrading to this version of software before logging into the switch using a Web UI session. This will ensure the Web UI session downloads the latest changes.

For information about Short Supported Releases (SSRs) and Long Supported Releases (LSRs), see <https://www.arubanetworks.com/support-services/end-of-life/arubaos-software-release/>.

Refer to the Approved Product Lists sites for the Common Criteria, FIPS 140-2 and DoDIN APL to obtain the product certification details. Products should be used as evaluated and defined in the respective configuration guides.

- Common Criteria: <https://www.niap-ccevs.org/Product/>
- FIPS 140-2: <https://csrc.nist.gov/Projects/Cryptographic-Module-Validation-Program/Validated-Modules/Search>
- DoDIN APL: <https://aplits.disa.mil/processAPList.action>

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Version history

All released versions are fully supported by HPE Aruba Networking, unless noted in the table.

Version number	Release date	Remarks
10.14.0001	28 May 2024	Initial release.

The switch web agent supports the following web browsers:

Browser	Minimum supported versions
Edge (Windows)	41
Chrome (Ubuntu)	76 (desktop)
Firefox (Ubuntu)	113
Safari (MacOS)	12
Safari (iOS)	10 (Version 12 is not supported)



Internet Explorer is not supported.

Recommended versions of network management software for switches found in this release note:

Management software	Recommended version(s)
NetEdit	2.11.0
Aruba Central	2.5.8
Aruba Fabric Composer	7.0.2
Aruba CX Mobile App	Support for version 2.9.3 or later.



For more information, see the respective software manuals.



To upgrade software using NetEdit, make sure to upgrade to the above version of NetEdit first and then execute the switch software upgrade on devices discovered by this version of NetEdit.

Enhancements for 9300 Switches in AOS-CX 10.14.0001

This section describes the enhancements introduced in this release.

Category	Description
EVPN	EVPN routes can be matched against additional evpn-type values: <ul style="list-style-type: none"> evpn-type-2 MAC/IP Advertisement Route evpn-type-3 Inclusive Multicast Ethernet Tag Route evpn-type-5 IP Prefix route
Classifier	In previous releases, the ACL Logging text could display a value of unknown for either the sequence number or the list type. This issue could occur if an ACL is configured with the log keyword <i>and</i> the switch is are using QoS or VSX features. Starting with AOS-CX 10.14.0001, the logging message includes source and destination addresses and protocol. The unknown value no longer appears if there is no sequence number to display.
Overlay Fabric	Multicast anycast RP/MSDP for IPv4 multicast routing in the VXLAN overlay fabric design.
Overlay Fabric	Multi-fabric Route-Server for BGP peering for EVPN-AF for provisioning VXLAN tunnels between border VTEPs in a multi-fabric design.
Overlay Fabric	VXLAN L3 overlay ECMP for symmetric routing in the overlay fabric.
Overlay Fabric	EVPN route types [1 to 5] match support in a route-map.
Underlay Fabric	Increased range of the OSPF process ID from 1-63 to 1- 65535
Underlay Fabric	VRF support for non-VRF/Namespace aware container applications
Underlay Fabric	Port-mapping for container private IP reachability in a DNAT configuration
Underlay Fabric	Fix for setting multiple communities and extended communities in a route-map. Ability to set multiple and extended communities per prefix in a route-map used by BGP for both IPv4 and IPv6 address families.
Underlay Fabric	Bidirectional Forwarding Detection (BFD) support for OSPFv3
Underlay Fabric	Bidirectional Forwarding Detection (BFD) support for BGP6

Category	Description
Containers	Multiple container infrastructure hardening features to increase overall system stability
Security	Egress interface policy support with drop and meter/drop actions
OSPF	Ability to configure a different AD for multiple OSPF process in a VRF
Infrastructure Management and Usability	Visibility into configuration history from previous sessions
Infrastructure Management and Usability	Local switch WebUI connections over IPv6
Infrastructure Management and Usability	SNMPv3 enablement without any SNMPv2 or community configured
Infrastructure Management and Usability	Ability to display all the deprecated CLI commands and new version of those commands in the CLI
Infrastructure Management and Usability	Output of the show interface command now displays how long the interface has been down
Infrastructure Management and Usability	Visibility into link diagnostics for physical L1 components
Infrastructure Management and Usability	SNMP trap filter per host
Infrastructure Management and Usability	SNMP read extended interface MIB for reporting
Transceivers	Support for the HPE 400GbE QSFP-DD MPO SR8 100m Transceiver (R8M63A)
Transceivers	845970-B21 QSFP28-SFP28 adapter support. Supported SKUs with the adapter are: <ul style="list-style-type: none"> ▪ J9150D - Aruba 10G SFP+ LC SR 300m MMF XCVR ▪ J9151E - Aruba 10G SFP+ LC LR 10km SMF XCVR ▪ J9153D - Aruba 10G SFP+ LC ER 40km SMF XCVR ▪ JL484A - Aruba 25G SFP28 LC SR 100m MMF Transceiver ▪ JL485A - Aruba 25G SFP28 LC eSR 400m MMF Transceiver ▪ JL486A - Aruba 25G SFP28 LC LR 10km SMF Transceiver
Transceivers	Support for 100G SR2 transceiver with the SKU S1C93A - Aruba 100G QSFP28 MPO SR2 100m MMF XCVR
Transceivers	Support for HPE Storage 200G transceiver products. The supported SKU is: <ul style="list-style-type: none"> ▪ 5Z83A - HPE 200Gb QSFP56 MPO SR4 100m Transceiver ▪ R5Z84A - HPE 200Gb QSFP56 LC CWDM4 FR4 Transceiver ▪ R6F27A - HPE 200Gb QSFP56 to 4x50/25Gb SFP56 2.5m Direct Attach Copper Cable ▪ R6F24A - HPE 200Gb QSFP56 to 2x100Gb QSFP56 3m Active Optical

Category	Description
	<p>Cable</p> <ul style="list-style-type: none"> ▪ R6F25A - HPE 200Gb QSFP56 to 2x100Gb QSFP56 5m Active Optical Cable ▪ R6F26A - HPE 200Gb QSFP56 to 2x100Gb QSFP56 15m Active Optical Cable ▪ R5Z80A - HPE 200Gb QSFP56 to QSFP56 5m Active Optical Cable ▪ R5Z81A - HPE 200Gb QSFP56 to QSFP56 10m Active Optical Cable ▪ R5Z82A - HPE 200Gb QSFP56 to QSFP56 15m Active Optical Cable ▪ R5Z76A - HPE 200Gb QSFP56 to QSFP56 0.5m Direct Attach Copper Cable ▪ R5Z77A - HPE 200Gb QSFP56 to QSFP56 1m Direct Attach Copper Cable ▪ R5Z78A - HPE 200Gb QSFP56 to QSFP56 2m Direct Attach Copper Cable ▪ R5Z79A - HPE 200Gb QSFP56 to QSFP56 2.5m Direct Attach Copper Cable

Resolved Issues for 9300 Switches in AOS-CX 10.14.0001

This section describes the issues resolved in this release.

Component	Summary	Description
Central	294122	<p>Symptom: Some hpe-restd core dumps may be generated after the switch reboots. This will not interrupt the normal switch operation.</p> <p>Scenario: This can occur every time the switch reboots.</p> <p>Workaround: The hpe-restd core dumps generated after the switch is rebooted have no impact to switch operation, and can be ignored</p>
IGMP	215677	<p>Symptom: IGMP/MLD configuration changes do not take effect when the hpe-mgmdd process is flooded with IGMP/MLD control packets.</p> <p>Scenario: In a situation where IGMP or MLD control packets (Joins or Leaves) are part of a loop, or if misbehaving clients send continuous streams of IGMP/MLD control packets, the hpe-mgmdd daemon's packet queue can become continuously full.</p> <p>Workaround: Restart the MGMD daemon using the command systemctl restart hpe-mgmdd.</p>
DNS	230380	<p>Symptom: The switch experiences high CPU utilization .</p> <p>Scenario: High CPU utilization occurs when SNMP invokes DNS resolution, due to access of source IP which causes CPU overhead.</p>
BGP	285540	<p>Symptom: When both IPv4 and IPv6 neighbors are configured in BGP, an SNMP walk displays incorrect information on IPv4 peer sessions.</p> <p>Scenario: If the customer configures both IPv4 and IPv6 neighbors, the SNMP walk output will include information on non-existent IPv4 peers. The IPv6 peer information displays as expected.</p>

Component	Summary	Description
Thermal Manager	288499	<p>Symptom: A thermal shutdown is triggered by certain sensors (Front-of-MAC, Side-of-MAC, Bottom) crossing a critical temperature threshold. Additionally, A user may observe a thermal shutdown if a specific sensor (FPGA) crosses a critical temperature threshold.</p> <p>Scenario: Temperature sensors have predetermined thresholds that are used to ensure safe thermal operation, which may include a thermal shutdown of the switch. AOS-CX 10.14.0001 updates the thresholds for various sensors to extend their safe operating range, and also lowers the threshold for one sensor to ensure a safe operating range. It is not expected that users would encounter these scenarios in normal operating environments.</p> <p>Workaround: Ensure that there is sufficient cooling and airflow provided to the switch.</p>
DHCP Relay	291742	<p>Symptom: DHCP relay does not change the source IP address of the DHCP discover frame</p> <p>Scenario: This issue occurs if the DHCP client does not use 0.0.0.0 as the source IP, for example. when the DHCP packet is generated by the client with a valid private IP as source IP.</p> <p>Workaround: Use the source interface configuration.</p>
BGP	295703	<p>Symptom: When the show bgp vrf info command is run, the , vtysh session is logged out.</p> <p>Scenario: This issue occurs when VRF is configured with export RT (Route Target).</p> <p>Workaround: Use the command show running-config vrf to prevent the vtysh session from logging out.</p>
VSX-Sync	299838	<p>Symptom: An Interface VLAN configuration is not getting synced to secondary switch.</p> <p>Scenario: This issue can occur n a pair of switches in VSX configuration, when the user creates an Interface VLAN with VSX-Sync configuration in primary switch, then the user creates the same Interface VLAN on secondary, but the configuration is not synced.</p> <p>Workaround: Once VSX-Sync has been enabled on primary Interface VLAN, wait ~15 seconds before creating the Interface VLAN on the secondary interface. Another workaround is to first create the Interface VLAN on the secondary and then enable VSX-Sync on the primary Interface VLAN. (There is no need to wait in this second workaround).</p>
VSX	299851	<p>Symptom: The VSX software upgrade software version is not properly validated when upgrading using TFTP.</p> <p>Scenario: When upgrading using TFTP, it is possible to load mismatched software versions, resulting in a VSX upgrade failure and a VSX software mismatch between the primary and secondary VSX nodes.</p> <p>Workaround: Confirm that software image versions are compatible. Software upgrades using boot banks rather than TFTP will perform a proper version check before completing the upgrade.</p>
Internal srvc: Security PA infra	301734	<p>Symptom: A role assigned by CoA gets overridden by low-priority methods, such as a RADIUS assigned role.</p>

Component	Summary	Description
		<p>Scenario: This issue occurs on a switch with the default auth-priority on port if you configure both mac-auth and dot1x and assign a role from RADIUS on successful mac-auth authentication and concurrent onboarding. While dot1x is in authenticating state, if you assign a different role RADIUS using CoA, you can observe that role assigned by CoA gets overridden by the RADIUS-assigned role (during mac-auth success)</p> <p>Workaround: Remove concurrent onboarding.</p>
SNMP	303650	<p>Symptom: The snmpd process crashes and SNMP polling stops for a few seconds.</p> <p>Scenario: This issue can occur when polling by SNMP (snmpwalk), and simultaneously performing a snmpget/snmpbulkget on a non-existent OID. The SNMP process will recover itself after the crash.</p>
CX-Licensing	TMA-4234	<p>Symptom: The switch advanced feature pack shows as expired.</p> <p>Scenario: This issue occurs if the switch is configured with non-UTC time. After installing a feature pack to enable the advanced features on the switch, the feature pack expiration date is incorrectly flagged as expired</p> <p>Workaround: Set the switch to UTC time to activate the feature pack.</p>

Feature Caveats

The following are feature caveats that should be taken into consideration when using this version of the software.

Feature	Description
Central	When a switch is able to connect to Aruba Central but is not registered in the Aruba Central inventory or does not have a proper license, the switch will get disconnected. This connect/disconnect process will continue until the switch is properly registered in Aruba Central. To avoid this unnecessary reconnection cycle, best practices is to disable Aruba Central until the switch is registered in Aruba Central, or a license is obtained for that device.
Hot Patch	When a hot-patch file download is triggered using the switch WebUI, log messages can incorrectly state that the file is added to the database with a missing status. This is a temporary state, and will correctly change to Not applied once the download is completed.
PIM-SM	Pim Active-Active is not supported on overlay VXLAN SVIs.
SNMP	When SNMP is enabled via the switch CLI, it can take between 1-2 minutes for the SNMP daemon to be ready to respond to requests. If a local or external SNMP MIB walk is performed in the interval between when SNMP is first enabled and the SNMP daemon is ready, the MIB walk action will return an error.
Certificates	When a switch uses a certificate with a legacy certificate name that is not

Feature	Description
	supported in 10.12 because it contains disallowed characters, the information will migrate properly in the upgrade, but that certificate can no longer be edited. For new certificate names, only alphanumeric characters, dots, dashes, and underscores are allowed.
Classifiers	For Classifier policy modifications to be secure, Aruba strongly encourages modifications be done as a three-step process: Bring down the port, modify, and bring the port back up.
Classifiers	Policies containing both MAC and IPv6 classes are not allowed.
CMF	No other checkpoint besides "startup-configuration" gets migrated during the upgrade process.
DHCP Server, DHCP Relay, and DHCP Snooping	DHCP Relay and DHCP Snooping can co-exist on the same switch. DHCP Snooping and DHCP Server cannot co-exist on the same switch. DHCP Snooping, DHCP Relay, and DHCP Server together cannot co-exist on the same switch.
IP-SLA	Reserved ports or ports used by other applications/services with in the system are not recommended to be used for other services. When two services use the same port there is chance of unexpected behaviors from these services. Best practices is to use unique port for each service across system.
IGMP/PIM on 6-in-6, Loopback and GRE interfaces	IGMP cannot be enabled on either Loopback or GRE interfaces. IGMP and PIM is not supported on a 6-in-6 Tunnel.
Multicast and VXLAN	<ul style="list-style-type: none"> ▪ VXLAN must be configured prior to configuring VSX. ▪ IPv6 multicast is not supported for VXLAN overlay. ▪ Multicast support for static VXLAN in the overlay has limited support. Contact Aruba Support for details.
PFC	Priority-based flow control (PFC) is not supported on a split port.
REST	REST supports the 'admin' and 'operator' roles but does not work with TACACS+ command authorization.
Traceroute	Issuing the traceroute command with the ip-option loosesourceroute parameter fails in an overlay EVPN-VxLAN deployment.
Traceroute	Traceroute v4/v6 over VXLAN fails to find intermediate next-hop IP information from a source VTEP in Virtual Active Gateway environment (the SVI is the same as theActive Gateway IP).

Known Issues

There are no known issue in this release.

Upgrade information



Each VSX switch in a pair must run the same version of AOS-CX. If a primary VSX switch is upgraded to 10.10.xxxx, the secondary VSX switch must be immediately upgraded to that same version. If the ISL link is disabled and enabled on VSX switches that are running different versions of AOS-CX, a VSX secondary switch running an older version of AOS-CX may be unable to synch information from the VSX primary, which can cause the port state to become blocked and lead to traffic loss.



Do not interrupt power to the switch during this important update.

Manual configuration restore for software downgrade

To restore a previous configuration when downgrading to a previous version of software, follow these steps:

1. Use the **show checkpoint** command to see the saved checkpoints and ensure that you have a checkpoint that is an exact match of the target software version (see the **Image Version** column in the output of the command, for example, CL.10.xx.yyyy).

This checkpoint can be the startup-config-backup automatically created during the initial upgrade or any other manually created checkpoint for the target software version.
2. Copy the backup checkpoint into the startup-config.
3. Boot the switch to the target version (lower version), making sure to select `no` when prompted to save the current configuration.

Performing the software upgrade

For additional upgrade and downgrade scenarios, including limitations of automatic upgrade and downgrade scenarios provided by the Configuration Migration Framework (CMF), refer to the [AOS-CX 10.14 Fundamentals Guide](#).



This version may contain a change of BootROM from the current running version. A BootROM update is a non-failsafe update. Do not interrupt power to the switch during the update process or the update could permanently damage the device.

1. Copy the new image into the non-current boot bank on the switch using your preferred method.
2. Depending on the version being updated, there may be device component updates needed. Preview any devices updates needed using the `boot system <BOOT-BANK>` command and entering `n` when asked to continue.

For example, if you copied the new image to the secondary boot bank and no device component updates are needed, you will see this:

```
switch# boot system secondary
Default boot image set to secondary.
Checking if the configuration needs to be saved...

Checking for updates needed to programmable devices...
```

```
Done checking for updates.
```

```
This will reboot the entire switch and render it unavailable  
until the process is complete.  
Continue (y/n)? n
```

In this example, three device updates will be made upon reboot, one of which is a non-failsafe device:

```
switch# boot system secondary  
Default boot image set to secondary.  
Checking if the configuration needs to be saved...  
  
Checking for updates needed to programmable devices...  
Done checking for updates.  
  
2 device(s) need to be updated during the boot process.  
The estimated update time is between 2 and 3 minute(s).  
There may be multiple reboots during the update process.  
  
1 non-failsafe device(s) also need to be updated.  
Please run the 'allow-unsafe-updates' command to enable these updates.  
  
This will reboot the entire switch and render it unavailable  
until the process is complete.  
Continue (y/n)? n
```

3. When ready to update the system, if a non-failsafe device update is needed, make sure the system will not have any power interruption during the process. Invoke the `allow unsafe updates` command to allow updates to proceed after a switch reboot. Proceed to step 4 within the configured time.

```
switch# config  
switch(config)# allow-unsafe-updates 30  
  
This command will enable non-failsafe updates of programmable devices for  
the next 30 minutes. You will first need to wait for all line and fabric  
modules to reach the ready state, and then reboot the switch to begin  
applying any needed updates. Ensure that the switch will not lose power,  
be rebooted again, or have any modules removed until all updates have  
finished and all line and fabric modules have returned to the ready state.  
  
WARNING: Interrupting these updates may make the product unusable!  
  
Continue (y/n)? y  
  
Unsafe updates : allowed (less than 30 minute(s) remaining)
```

4. Use the `boot system <BOOT-BANK>` command to initiate the upgrade. On the switch console port an output similar to the following will be displayed as various components are being updated:

```
switch# boot system secondary  
Default boot image set to secondary.  
Checking if the configuration needs to be saved...
```

Checking for updates needed to programmable devices...
Done checking for updates.

3 device(s) need to be updated during the boot process.
The estimated update time is between 2 and 3 minute(s).
There may be multiple reboots during the update process.

This will reboot the entire switch and render it unavailable
until the process is complete.

Continue (y/n)? **y**

The system is going down for reboot.

Looking for SVOS.

Primary SVOS: Checking...Loading...Finding...Verifying...Booting...

ServiceOS Information:

Version: <serviceOS_number>
Build Date: yyyy-mm-dd hh:mm:ss PDT
Build ID: ServiceOS:<serviceOS_number>:6303a2a501ba:202006171659
SHA: 6303a2a501bad91100d9e71780813c59f19c12fe

Boot Profiles:

- 0. Service OS Console
- 1. Primary Software Image [xx.10.13.1000]
- 2. Secondary Software Image [xx.10.14.0001]

Select profile(secondary):

ISP configuration:

Auto updates : enabled
Version comparisons : match (upgrade or downgrade)
Unsafe updates : allowed (less than 29 minute(s) remaining)

Advanced:

Config path : /fs/nos/isp/config [DEFAULT]
Log-file path : /fs/logs/isp [DEFAULT]
Write-protection : disabled [DEFAULT]
Package selection : 0 [DEFAULT]

3 device(s) need to be updated by the ServiceOS during the boot process.
The estimated update time by the ServiceOS is 2 minute(s).
There may be multiple reboots during the update process.

MODULE 'mc' DEVICE 'svos_primary' :

Current version : '<serviceOS_number>'
Write-protected : NO
Packaged version : '<version>'
Package name : '<svos_package_name>'
Image filename : '<filename>.svos'
Image timestamp : 'Day Mon dd hh:mm:ss yyyy'
Image size : 22248723
Version upgrade needed

Starting update...

```
Writing... Done.
Erasing... Done.
Reading... Done.
Verifying... Done.
Reading... Done.
Verifying... Done.

Update successful (0.5 seconds).

reboot: Restarting system
```

Multiple components may be updated and several reboots will be triggered during these updates. When all component updates are completed, the switch console port will arrive at the login prompt with a display similar to following:

```
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                RESTRICTED RIGHTS LEGEND
Confidential computer software. Valid license from Hewlett Packard Enterprise
Development LP required for possession, use or copying. Consistent with FAR
12.211 and 12.212, Commercial Computer Software, Computer Software
Documentation, and Technical Data for Commercial Items are licensed to the
U.S. Government under vendor's standard commercial license.

We'd like to keep you up to date about:
* Software feature updates
* New product announcements
* Special events
Please register your products now at: https://asp.arubanetworks.com

switch login:
```



Aruba recommends waiting until all upgrades have completed before making any configuration changes.

Aruba is committed to ensuring you have the resources you need to be successful. Check out these learning and documentation resources:

- AOS-CX switch software documentation portal: https://www.arubanetworks.com/techdocs/AOS-CX/help_portal/Content/home.htm
- AOS-CX technical training videos on YouTube: https://www.youtube.com/playlist?list=PLsYGHuNuBZcbWPEjjHuVMqP-Q_UL3CskS

A Security Bulletin is the first published notification of security vulnerabilities and is the only communication vehicle for security vulnerabilities.

- Fixes for security vulnerabilities are not documented in manuals, release notes, or other forms of product documentation.
- A Security Bulletin is released when all vulnerable products still in support life have publicly available images that contain the fix for the security vulnerability.

The Aruba security policy can be found at <https://www.arubanetworks.com/en-au/support-services/sirt/>. Security bulletins can be found at <https://www.arubanetworks.com/en-au/support-services/security-bulletins/>. You can sign up at https://sirt.arubanetworks.com/mailman/listinfo/security-alerts_sirt.arubanetworks.com to initiate a subscription to receive future Aruba Security Bulletin alerts via email.