AOS-W 8.10.0.11 Release Notes



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The following table lists the revision numbers and the corresponding changes that were made in this release:

Table 1: Revision History

Revision	Change Description
Revision 01	Initial release.

This AOS-W release notes includes the following topics:

- New Features and Enhancements
- Supported Platforms
- Regulatory Updates
- Resolved Issues
- Known Issues and Limitations
- Upgrade Procedure

Important

Upgrading from AOS-W 8.10.0.6 or earlier versions on OAW-41xx Series and 9200 Series switches will take longer than usual as we will be automatically upgrading the BIOS version to support additional functionality in the future. This upgrade is estimated to take up to 15 minutes and should not be interrupted for any reason. Power failures and interruptions during the upgrade may make the switch unusable. Please use caution and plan accordingly.



Cluster Rolling Upgrade is not supported when a BIOS upgrade is required. AOS-W must be manually upgraded for these controllers. In a (very rare) scenario where, post reload command, the unit does not come up in 15-20 minutes, apply power cycle only once and wait for a minimum of 15 minutes without re-applying power cycle again.

- As mandated by the Wi-Fi Alliance, AOS-W 8.10.0.0 and later versions require Hash-to-Element (H2E) for 6 GHz WPA3-SAE connections. H2E is supported on Android 12 or later versions, Linux wpa_supplicant version 2.10 or later versions, macOS Catalina or later versions, Windows 11 or later versions. Users must upgrade their clients to support successful 6 GHz WPA3-SAE connections.
- The factory-default image of APs introduced in AOS-W 8.9.0.0 or later versions use aruba-conductor as the host name instead of aruba-master to identify a target managed device or stand-alone switch during DNS discovery. However, the factory-default image of APs that were introduced prior to AOS-W 8.9.0.0 still use aruba-master during DNS discovery. The usage of aruba-conductor is to align with the Inclusive Language Initiative.

Related Documents

The following guides are part of the complete documentation for the Alcatel-Lucent user-centric network:

- AOS-W Getting Started Guide
- AOS-W User Guide
- AOS-W CLI Reference Guide
- AOS-W API Guide
- Alcatel-Lucent Mobility ConductorLicensing Guide

- Alcatel-Lucent Virtual Appliance Installation Guide
- Alcatel-Lucent AP Software Quick Start Guide

Supported Browsers

The following browsers are officially supported for use with the AOS-W WebUI:

Web Browser	Operating System
Microsoft Edge (Microsoft Edge 92.0.902.62 and Microsoft EdgeHTML 18.19041) or later	Windows 10 or latermacOS
Firefox 107.0.1 or later	Windows 10 or latermacOS
Apple Safari 15.4 (17613.17.1.13) or later	macOS
Google Chrome 108.0.5359.71 or later	Windows 10 or latermacOS

Terminology Change

As part of advancing Alcatel-Lucent Enterprise's commitment to racial justice, we are taking a muchneeded step in overhauling ALE engineering terminology to reflect our belief system of diversity and inclusion. Some legacy products and publications may continue to include terminology that seemingly evokes bias against specific groups of people. Such content is not representative of our ALE culture and moving forward, ALE will replace racially insensitive terms and instead use the following new language:

Usage	Old Language	New Language
Campus Access Points + Controllers	Master-Slave	Conductor-Member
Instant Access Points	Master-Slave	Conductor-Member
Switch Stack	Master-Slave	Conductor-Member
Wireless LAN Controller	Mobility Master	Mobility Conductor
Firewall Configuration	Blacklist, Whitelist	Denylist, Allowlist
Types of Hackers	Black Hat, White Hat	Unethical, Ethical

Contacting Support

Table 2: Contact Information

Contact Center Online	
Main Site	https://www.al-enterprise.com

Contact Center Online			
Support Site	https://myportal.al-enterprise.com		
Email	ebg_global_supportcenter@al-enterprise.com		
Service & Support Contact Center Telephone			
North America	1-800-995-2696		
Latin America	1-877-919-9526		
EMEA	+800 00200100 (Toll Free) or +1(650)385-2193		
Asia Pacific	+65 6240 8484		
Worldwide	1-818-878-4507		

This chapter describes the features, enhancements, and behavioral changes introduced in this release.

Separation of Cluster and Datapath Commands from 'tar log techsupport'

Cluster and datapath commands have been separated from **tar log tech-support**. For cluster logs, users should use: **tar logs tech-support cluster**.

Behavioral Changes

This release does not introduce any changes in AOS-W behaviors, resources, or support that would require you to modify the existing system configurations after updating to 8.10.0.11.

Supported Platforms in AOS-W 8.x

This section displays the supported platforms in AOS-W 8.x. The **minimum version supported** column displays the minimum AOS-W 8.x version that can be run on a platform. The **latest version supported** column displays the newest AOS-W 8.x version that can be run on a certain device. Patch releases do not affect platform support. For example, a device which **latest supported version** is 8.10.0.x can run on any 8.10.0.x version, such as 8.10.0.2 or 8.10.0.10.

Mobility Conductor Platforms

Mobility Conductors		AOS-W 8.x Versions Supported	
Conductor Family	Conductor Model	Minimum	Latest
Hardware Mobility Conductor	MCR-HW-1K, MCR-HW-5K, MCR-HW-10K	8.1.0.x	8.12.0.x
Virtual Mobility Conductor	MCR-VA-500, MCR-VA-1K, MCR-VA-5K, MCR-VA-10K	8.0.0.x	8.12.0.x
	MCR-VA-50	8.1.0.x	8.12.0.x

OmniAccess Mobility Controller Platforms

OmniAccess Mobility Controllers		AOS-W 8.x Versions Supported	
switch Family	switch Model	Minimum	Latest
9200 Series	9240	8.10.0.x	8.12.0.x
OAW-41xx Series	9012	8.7.0.x	8.12.0.x
	OAW-4104	8.5.0.x	8.12.0.x
OAW-4x50 Series	OAW-4850	8.3.0.x	8.12.0.x
	OAW-4450, OAW-4550, OAW-4650, OAW-4750, OAW-4750XM	8.0.0.x	8.12.0.x
OAW-40xx Series	OAW-4005, OAW-4008, OAW-4010, OAW-4024, OAW-4030	8.0.0.x	8.12.0.x

OmniAccess Mobility Controllers		AOS-W 8.x Versions Supported	
switch Family switch Model		Minimum	Latest
Virtual OmniAccess Mobility Controllers	MC-VA-50, MC-VA-250, MC-VA-1K	8.0.0.x	8.12.0.x
	MC-VA-10	8.4.0.x	8.12.0.x

Access Point Platforms

Access Points		AOS-W 8.x Versions Supported		
AP Family	AP Series	AP Model	Minimum	Latest
6xx	670 Series	AP-675, AP-675EX, AP-677, AP-677EX, AP-679, AP-679EX	8.12.0.x	8.12.0.x
	OAW- AP650	OAW-AP655	8.10.0.x	8.12.0.x
	Series	AP-654	8.11.2.x	8.12.0.x
	OAW- AP630	OAW-AP635	8.9.0.x	8.12.0.x
	Series	AP-634	8.11.2.x	8.12.0.x
	OAW- AP610 Series	AP-615	8.11.0.x	8.12.0.x
	600 Series	AP-605H	8.12.0.x	8.12.0.x

Access Points			AOS-W 8.x Versions Supported	
AP Family	AP Series	AP Model	Minimum	Latest
5xx	OAW- AP580 Series	AP-584, AP-585, AP-585EX, AP-587, AP-587EX	8.10.0.x	8.12.0.x
	OAW- AP570 Series	OAW-AP574, OAW-AP575, OAW-AP577. AP-575EX, AP- 577EX	8.7.0.x	8.12.0.x
	OAW- AP560 Series	OAW-AP565, OAW-AP567	8.7.1.x	8.12.0.x
	OAW- AP550 Series	OAW-AP555	8.5.0.x	8.12.0.x
	OAW- AP530 Series	OAW-AP534, OAW-AP535	8.5.0.x	8.12.0.x
	OAW- AP510	OAW-AP518	8.7.0.x	8.12.0.x
	Series	OAW-AP514, OAW-AP515	8.4.0.x	8.12.0.x
	OAW- AP500	OAW-AP504, OAW-AP505	8.6.0.x	8.12.0.x
	Series	OAW-AP505H, OAW- AP505HR	8.7.0.x	8.12.0.x
		OAW-AP503H, OAW- AP503HR	8.7.1.x	8.12.0.x
		AP-503	8.11.1.x	8.12.0.x

Access Points		AOS-W 8.x Versions Supported		
AP Family	AP Series	AP Model	Minimum	Latest
Зхх	380 Series	OAW-AP387	8.4.0.x	8.10.0.x
	OAW- AP370 Series	OAW-AP374, OAW-AP375, OAW-AP377, OAW-AP375EX, OAW-AP377EX, OAW- AP375ATEX	8.3.0.x	8.12.0.x
	OAW- AP360 Series	OAW-AP365, OAW-AP367	8.3.0.x	8.12.0.x
	OAW- AP340 Series	OAW-AP344, OAW-AP345	8.3.0.x	8.10.0.x
	OAW- AP330 Series	OAW-AP334, OAW-AP335	8.1.0.x	8.10.0.x
	OAW- AP320 Series	OAW-AP324, OAW-AP325	8.0.0.x	8.10.0.x
	OAW- AP310	OAW-AP318	8.3.0.x	8.12.0.x
	Series	OAW-AP314, OAW-AP315	8.1.0.x	8.12.0.x
	OAW- AP300	OAW-AP304, OAW-AP305	8.1.0.x	8.12.0.x
	Series	OAW-AP303H, OAW- AP303HR	8.2.0.x	8.12.0.x
		OAW-AP303P	8.4.0.x	8.12.0.x
		OAW-AP303	8.3.0.x	8.12.0.x

Access Points			AOS-W 8.x Versions S	upported
AP Family	AP Series	AP Model	Minimum	Latest
2xx	OAW- AP270 Series	OAW-AP274, OAW-AP275, OAW-AP277	8.0.0.x	8.10.0.x
	OAW-AP 220 Series	OAW-AP224, OAW-AP225, OAW-AP228	8.0.0.x	8.10.0.x
	OAW- AP210 Series	OAW-AP214, OAW-AP215	8.0.0.x	8.10.0.x
	OAW- AP200	OAW-AP207	8.1.0.x	8.10.0.x
	Series	OAW-AP204, OAW-AP205, OAW-AP205H	8.0.0.x	8.10.0.x
		OAW-AP203H, OAW-AP203R, OAW-AP203RP	8.2.0.x	8.10.0.x
1xx	OAW-AP 170 Series	OAW-AP175AC, OAW- AP175AC-F1, OAW-AP175DC, OAW-AP175DC-F1, OAW- AP175P, OAW-AP175P-F1	8.0.0.x	8.6.0.x
	OAW- AP130 Series	OAW-AP134, OAW-AP135	8.0.0.x	8.6.0.x
	OAW- AP110 Series	OAW-AP114, OAW-AP115	8.0.0.x	8.6.0.x
	OAW- AP100 Series	OAW-AP103, OAW-AP104, OAW-AP105	8.0.0.x	8.6.0.x
	Series	OAW-AP103H	8.0.0.x	8.3.0.x
9x	OAW- AP90 Series	OAW-AP92, OAW-AP93, AP- 93H	8.0.0.x	8.2.0.x

Chapter 5 Regulatory Updates

This chapter contains the Downloadable Regulatory Table (DRT) file version introduced in this release. Periodic regulatory changes may require modifications to the list of channels supported by an AP. For a complete list of channels supported by an AP using a specific country domain, access the switch Command Line Interface (CLI) and execute the **show ap allowed-channels country-code <country-code <countr**

For a complete list of countries and the regulatory domains in which the APs are certified for operation, refer to the Downloadable Regulatory Table or the DRT Release Notes at <u>https://myportal.al-enterprise.com</u>.

The following DRT file version is part of this release:

DRT-1.0_89428

Chapter 6 Resolved Issues in AOS-W 8.10.0.11

This chapter describes the resolved issues in this release.

Table 3:	Resolved	lecupe	in AOS-1	N 8 10	0 1 1
Table 5.	Resolveu	issues	III AUS-V	10.10	.0.11

New Bug ID	Description	Reported Version
AOS-156537	Multicast streaming failed when broadcast and multicast optimization was enabled on the user VLAN. The fix ensures multicast streaming works as expected. This issue was observed in managed devices running AOS-W 8.7.1.4 or later versions.	AOS-W 8.7.1.4
AOS-215875	The show ap arm state command displayed deprecated information such as Edge, Relevant Neighbors, Valid Neighbors, Neighbor Density, and Client Density. The fix ensures the command displays updated information. This issue was observed in OmniAccess Mobility Controllers running AOS-W 8.7.1.1 or later versions.	AOS-W 8.7.1.1
AOS-219791	The ARM profile settings mistakenly enabled aggressive scanning mode by default, which was not intended for daily production use. The fix ensures aggressive scanning is not enabled by default. This issue was observed in access points running AOS-W 8.7.1.3 or later versions.	AOS-W 8.7.1.3
AOS-222450 AOS-252037	The output of the show aaa user-delete-result command listed 0.0.0.0 IP addresses for IPv6 managed devices. The issue occurred because these devices did not get delete command requests. The fix ensures this delete command is sent to IPv6 switches and gets populated with their corresponding IPv6 addresses. This issue was observed in Mobility Conductors running AOS-W 8.7.1.4 or later versions.	AOS-W 8.7.1.4
AOS-222450 AOS-252037	When the aaa user delete command is run on an Mobility Conductor, the show aaa user-delete-result command can be used to obtain a list of results of Managed Devices. However, the command was not sent to IPv6 Managed Devices and their IPs were listed with an IP address of 0.0.0 in output of the show aaa user-delete-result command. The fix ensures this delete command is sent to IPv6 switches and populated with their corresponding IPv6 address. This issue was observed in Mobility Conductors running AOS-W 8.7.1.4 or later versions.	AOS-W 8.7.1.4
AOS-228357	Some standalone switches encountered a PSM watchdog issue with signature psmdebug 0x01ff000d phydebug 0x21 macctl 0x4160403 maccmd 0x4 . The fix ensures the APs work as expected. This issue was observed in OAW-AP515 access points running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0

New Bug ID	Description	Reported Version
AOS-232897	The wlan ht-ssid-profile CLI command overrode the radio frequencies from 80 MHz to 40 MHz, although the show ap bss- table CLI command displayed the radio frequencies as 80 MHz. The fix ensures that the wlan ht-ssid-profile CLI command does not override the radio frequencies. This issue was observed in OAW-AP515 and OAW-AP535 access points running AOS-W 8.7.1.9 or later versions.	AOS-W 8.7.1.9
AOS-237012	Random VIA usernames were incorrectly displayed in the user table and controller dashboard. The fix ensures that usernames are never truncated. This issue was observed on managed devices running AOS-W 8.10.0.2 or later versions.	AOS-W 8.10.0.2
AOS-239382	Some OAW-4750XM Mobility Conductors running AOS-W 8.7.1.9 or later versions configured in a cluster setup crashed and rebooted unexpectedly. The log files list the reason for the event as Datapath timeout (SOS Assert) . The fix ensures the Mobility Conductors work as expected.	AOS-W 8.7.1.9
AOS-239653	After disconnecting from a wireless AP using 802.1x secured SSID, some clients were not logged out of the Palo Alto firewall. If the same client tried to connect again with a different username, it caused the switch to not logout the previous username and did not ask for a login for the new username. This caused the firewall not to update host information nor associate with correct firewall policy. The fix ensures the switches work as expected. This issue was observed in switches running AOS-W 8.9.0.3 or later versions.	AOS-W 8.9.0.3
AOS-239850 AOS-249756	Some Mobility Conductors crashed unexpectedly due to a memory leak in the vmsvc process. The log files listed the reason as [vmsvc] HostinfoOSData: Error: no distro file found . The fix ensures the Mobility Conductors work as expected. This issue was observed in Mobility Conductors running AOS-W 8.6.0.9 or later versions.	AOS-W 8.6.0.9
AOS-241236 AOS-251864 AOS-252982 AOS-242339 AOS-249777	Some OAW-AP535 access points crashed and rebooted unexpectedly. The log files listed the reason for the event as Reboot caused by kernel panic: Take care of the TARGET ASSERT at ar_wal_tx_seq.c:646 Assertion !CHK_TID_FLG(ptid, WAL_TX_TID_SEND_BAR) . The fix ensures the APs work as expected. The issue was observed in access points running AOS-W 8.10.0.4 or later versions.	AOS-W 8.10.0.4
AOS-241560	Accessing controllers through the WebUI led to excessive logs regarding the show uplink cellular details command, including errors stating Command not applicable for this platform (pos: 0), which can be safely ignored. The fix ensures that such logs no longer display. This issue was observed in standalone OAW-4650 Mobility Conductors running AOS-W 8.10.0.5 or later versions.	AOS-W 8.10.0.5
AOS-242107	Some OAW-AP535 access points incorrectly detected 5 GHz interferences after upgrading to AOS-W 8.10.0.4. The fix ensures that the access points function as expected. This issue was observed in access points running AOS-W 8.10.0.4 or later versions.	AOS-W 8.10.0.4

New Bug ID	Description	Reported Version
AOS-242115 AOS-253066	Some access points displayed the error message ol_ath_send_ peer_assoc 663: Unexpected negotiated ni_phymode 30(18) for iv_cur_mode 30(16) after they were activated. The issue caused connectivity problems. The fix ensures the access points function as expected. This issue was observed in access points running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-242404	The reason and timestamp of APs in a DOWN status was not displayed in the Mobility Conductor dashboard under Infrastructure > Access Devices . The information displayed was AP is down since - because of the following reason: None , or similar. The fix ensures the correct data is displayed in the WebUI. This issue was observed in AOS-W 8.10.0.4 or later versions.	AOS-W 8.10.0.4
AOS-242962 AOS-244935 AOS-245697 AOS-246559 AOS-248871 AOS-248913	Some APs randomly went offline and did not come up on the switch. The logs displayed the error MMC init failed . The issue was related to the eMMC flash memory of the AP entering an abnormal state. The fix improves the internal timing of the flash memory to ensure that the AP does not crash. This issue was observed on OAW-AP635 and OAW-AP655 access points running AOS-W 8.10.0.4 or later versions.	AOS-W 8.10.0.4
AOS-244659	Some clients experienced unexpected issues while roaming when using the OpenFlow protocol. The fix ensures OpenFlow works as expected and causes no issues. This issue was observed in OmniAccess Mobility Controllers running AOS-W 8.6.0.9 or later versions.	AOS-W 8.6.0.9
AOS-244772	For some OAW-4104 gateways running AOS-W 8.10.0.0 or later versions, the show datapath user standby command failed to display some standby user entries. This issue occurred due to data format incompatibility. The fix ensures that the show datapath user standby command displays the correct entries.	AOS-W 8.10.0.0
AOS-244869	In some access points, the 4-way handshake process failed when WPA2 key-2 frames were re-transmitted by wireless clients. The fix ensures the 4-way handshake process works as expected. This issue was observed in access points running AOS-W 8.6.0.17 or later versions.	AOS-W 8.6.0.17
AOS-245329	The resolvwrap process continuously crashed whenever a VLAN that was set to dhcp-client failed to get an IP. The fix ensures the resolvwrap process does not crash in this scenario. This issue was observed in gateways running AOS-W 8.6.0.20 or later versions.	AOS-W 8.6.0.20
AOS-245914 AOS-251217 AOS-252911 AOS-246729 AOS-246925	Some OAW-AP535, OAW-AP635, and OAW-AP655 access points crashed and rebooted unexpectedly. The log files listed the reason for the event as Reboot caused by kernel panic: Take care of the TARGET ASSERT first first running 8.10.0.7 . The fix ensures the access points work as expected. This issue was observed in access points running AOS-W 8.10.0.7.	AOS-W 8.10.0.7

New Bug ID	Description	Reported Version
AOS-246164 AOS-249753	The profmgr process crashed unexpectedly when configuration changes were applied to an aaa server-group . The fix ensures the process does not crash in this context. This issue was observed in managed devices running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-246679 AOS-251757	Some OAW-RAPs failed to come online due to receiving duplicate inner IP addresses. This problem occurred randomly across various OAW-RAPs. A discrepancy was discovered between the allowlist entries on the OmniAccess Mobility Controller and those on the managed devices for the affected OAW-RAPs. The fix ensures the RAPs work as expected. This issue was observed on OAW-RAPs running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-246732	OAW-41xx Series switches were hanging during boot up if the RJ45 console cable was connected to the switch but not to the console server or computer (in case of USB console access). The fix ensures the switches boot up correctly. This issue was observed in switches running AOS-W 8.10.0.0.	AOS-W 8.10.0.0
AOS-246931 AOS-248213 AOS-251763 AOS-248234 AOS-249778	Some AP-635 access points unexpectedly rebooted. The logs list the reboot reason as Reboot caused by kernel panic with "hca_ HwComponentBbQca6018_reset.cpp:169 Assertion 0 failed" . The fix ensures the access points perform as expected. This issue was observed in APs running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-247147 AOS-251395	Some Mobility Conductors running AOS-W 8.10.0.7 or later versions experienced classification issues with the WLAN Management System database. The fix ensures Mobility Conductors work as expected.	AOS-W 8.10.0.7
AOS-247153	Some access points crashed and rebooted with reason wal_rc_ ul.c:218 Assertion num_rix failed . The issue was related to the AP driver image, which has been updated to prevent these crashes from happening. This issue was observed in OAW-AP635 access points running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-247796 AOS-248297 AOS-245421	Some OAW-AP535 access points crashed and rebooted due to memory corruption. The memory corruption issue was fixed by aligning the address based on availability in the pool. This issue was observed in access points running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-247952 AOS-251996	The output of the show ap bss-table ap-name and ap monitor ap-list ap-name commands showed incorrect Tx BSSID flag information. Some VAPs showed an incorrect (*+) flag next to their BSSID in the CLI output. The fix ensures the table output of the commands is accurate. This issue was observed in OAW- AP635 access points running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0

New Bug ID	Description	Reported Version
AOS-248120	In 9240 switches running AOS-W 8.10.0.7 or later versions, clients failed to authenticate through EAP when many clients connected to AP-315 access points. The issue occurred because multicast frames were sent with WMM headers. The fix ensures that multicast packets are always sent without WMM headers to support non-WMM clients.	AOS-W 8.10.0.7
AOS-248151	Some OAW-AP535 access points crashed and rebooted unexpectedly. The log file listed the reason for reboot as Ap crashed at sched_algo_txbf.c:1909 Assertion 0 failedparam0 :zero, param1 :zero, param2 :zero . The fix ensures the access points perform as expected. This issue was observed in OAW- AP535 access points running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-248267 AOS-251592	The RADIUS/RadSec server could not connect to the FQDN host after rebooting the switch, resulting in IP loopbacks. The issue occurred due to replication problems during validation. The fix ensures the switch works as expected. This issue was observed in standalone switches running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-248282	OAW-4010 switches displayed PVST+ issues where the removal of VLANs led to the incorrect transmission of PVST+ BPDUs with both PVID and 802.1Q VLAN ID set to 0 . A check was added to avoid transmission of BPDUs with PVID equal to 0 . This issue was observed on switches running AOS-W 8.6.0.10 or later versions.	AOS-W 8.6.0.10
AOS-248405 AOS-249646	The login_fcgi process crashed unexpectedly in some switches. This issue was related to the memory required for executing the process being insufficient. The fix increases the memory allocation for the process to ensure no crashes happen. This issue was observed in OAW-4750XM switches running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-248415	In some switches, the fpapps process displayed the error message fpapps_amon_uplink_update_compression_stats: Cannot retrieve compression info . This log meant that the switch failed to retrieve compression data. The fix ensures the switch can fetch such data successfully. This issue was observed in 9240 switches running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-248607	APs supporting 802.11ac randomly broadcasted in 20 MHz, despite the minimum channel bandwidth set to 40 MHz. The issue occurred because the APs changed channel after receiving a broadcasted CSA frame. This issue was observed in APs running AOS-W 8.10.0.0 or later versions. The fix ensures that the APs perform as expected.	AOS-W 8.10.0.0
AOS-248875	In the Configuration > Roles and Policies page of the WebUI, some Mobility Conductors displayed the No Changes Done error when deleting Aliases . The fix ensures the aliases can be deleted as expected. This issue was observed in Mobility Conductors running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8

New Bug ID	Description	Reported Version
AOS-248958	Some OAW-AP315 access points were detecting fake radars. The radar log files listed the radars with typeid 37 and typeid 34 . The fix ensures fake radars are filtered and minimal entries are populated in the radar log files. This issue was observed in APs running AOS-W 8.7.1.7 or later versions.	AOS-W 8.7.1.7
AOS-248961	Layer 3 interface displayed as Down on managed devices. As a result, guest users were unable to authenticate. The fix ensures guest users are able to pass the authentication process and managed devices work as expected. This issue was observed on managed devices running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-249028 AOS-251475	After upgrading from AOS-W 8.6.0.20 to AOS-W 8.10.0.7 or later versions, the HTTPD process crashed with reason Segmentation fault . The issue occurred due to an incorrect parameter sent to a log function. The fix ensures the switches perform as expected.	AOS-W 8.10.0.7
AOS-249066 AOS-250718	The auth process crashed and reloaded, causing connectivity issues when more than 37 dormant IP addresses were associated with a single MAC address. The fix ensures the auth process works as expected. This issue is observed in switches running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-249109	A ping latency while pinging the default gateway was observed on 9012 and OAW-4104 gateways running AOS-W 8.10.0.0 or later versions. This issue occurred because the response for every 15th ping packet was delayed as the system was busy gathering port statistics. The fix ensures that the ping latency for the gateways is reduced to 23 ms and 7 ms respectively.	AOS-W 8.10.0.0
AOS-249127	OAW-4104 gateways crashed and rebooted unexpectedly. This issue occurred because of a NULL pointer user entry access. The fix ensures an addition of a NULL check before accessing the user entry. This issue was observed in gateways running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-249133 AOS-249273	Some 9240 switches running AOS-W 8.10.0.4 or later versions rebooted with Reboot Cause: Nanny rebooted machine - fpapps process died (Intent:cause: 86:34) . This issue was caused by gradual memory leak within the fpapps process. The fix ensures the switches perform as expected.	AOS-W 8.10.0.4
AOS-249181	Some OAW-AP535 access points rebooted unexpectedly. The log files listed the reason as kernel panic: Take care of the TARGET ASSERT first . The issue occurred because the interprocess communication buffers were not initialized when the spectral scan was started. The fix ensures APs work as expected. This issue was observed in APs running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8

New Bug ID	Description	Reported Version
AOS-249197	Some AirGroup servers were not discovered by clients. Devices such as Mersive Solstice Pods did not appear in Apple clients' screen mirroring device list. This issue was related to AirGroup's refresh logic when using discovery packets and was seen when there were nine or more MDNS service profiles configured in the AirGroup profile. The fix ensures that servers are discovered by clients as expected. This issue was observed in managed devices running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-249260	Some Mobility Controller Virtual Appliance deployments crashed when running AOS-W 8.10.0.7 or later versions. This issue was observed whenever the CLI password was passed as NULL . The fix ensures such deployments work as expected.	AOS-W 8.10.0.7
AOS-249262 AOS-249847	Some OAW-AP535 access points rebooted unexpectedly. The logs listed the reason as kernel panic: Take care of the TARGET ASSERT first - wlan_wmi.c:653 . The fix ensures the APs perform as expected. This issue was observed in APs running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-249529	When a cluster member becomes reachable and the status of the peer changes to DISCONNECTED , there is a log entry indicating peer disconnected , like so: <errs></errs> cluster_mgr Peer x.x.x.x heartbeat missed, Disconnected . This log was not available in switches running AOS-W 8.10.0.7 or later versions. This issue occurred due to modifications in the cluster heartbeat mechanism. The fix ensures the log is available.	AOS-W 8.10.0.7
AOS-249749	Neighbor AP information was incomplete in the output of the show ap arm state command. The fix ensures the information is correctly displayed. This issue was observed in APs running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-249815	Tunnel performance with MTU 1500 was poor. This issue was caused due to the AP's internal Traffic Allocation Framework (TAF). The fix includes an update to the AP driver, which resolves the tunnel performance problem. This issue was observed in switches running AOS-W 8.11.2.0 or later versions.	AOS-W 8.11.2.0
AOS-249961	Handy terminals were unable to associate to some 300 Series access points running AOS-W 8.10.0.7 or later versions. The issue was related to a conflict with the DoS prevention feature of AOS- W, which, when enabled, prevented the AP driver from getting crucial data for device association. The fix ensures that terminals are correctly associated with access points.	AOS-W 8.10.0.7
AOS-249976	The show ap debug radio-stats , show ap debug bss-stats commands and MIB (wlanAPRxDataBytes64) were showing Rx data byte values lower than the actual received values at 5 GHz. The fix ensures the values are accurate. This issue was observed in switches running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9

New Bug ID	Description	Reported Version
AOS-250031 AOS-251210	After upgrading to AOS-W 8.10.0.9, some managed devices could not retrieve user-table information via API calls when using the show user-table command. The fix ensures API calls work as expected. This issue was observed in managed devices running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-250070	Some APs were unable to upgrade from AOS-W 8.x to AOS-W 10.x. The issue was related to APs getting stuck at the pre-validation stage. The fix ensures that APs can be upgraded successfully. This issue was observed in OAW-AP615 access points running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-250144	OAW-AP635 access points could not establish IPSec tunnels whenever EST certificates were used. Instead, the devices renewed their certificate repeatedly, causing the deletion of the tunnel by the switch. The issue was due to the APs being unable to read EST-related temporary data from their flash memory. The fix ensures APs can access that data and establish a tunnel connection through EST certificates successfully. This issue was observed in OAW-AP635 access points running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-250346	Some OAW-AP345 access points rebooted unexpectedly. The logs listed the reason as AP Reboot reason: BadPtr:00000000 PC:0x0 Warm-reset . The fix ensures the APs work as expected. This issue was observed in OAW-AP345 access points running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-250349 AOS-241587	After upgrading to AOS-W 8.11.2.1, some AirGroup printers were no longer discoverable, preventing users from connecting. The issue occurred because few of the AirGroup server records were being dropped while responding to user queries. The fix ensures all the available servers can be discovered by users. This issue was observed in switches running AOS-W 8.11.2.1 or later versions.	AOS-W 8.11.2.1
AOS-250350	The Resolve Wrap process repeatedly crashed and restarted on some OAW-4104-LTE gateways running AOS-W 8.10.0.0 or later versions. This issue occurred when the dnsmasq configuration file contained unsupported characters and multiple domain names. The fix ensures that the Resolve Wrap process works as expected.	AOS-W 8.10.0.0
AOS-250453	Some OAW-AP535 access points running AOS-W 8.10.0.8 or later versions aged out clients sooner than expected, in spite of the timer being set to allow for longer inactivity. The issue was related to the AP driver, which has been updated to prevent station ageout timer problems. The fix ensures APs work as expected.	AOS-W 8.10.0.8
AOS-250608	Users experienced S2S VPN connection issues after changing the IP address on one of the VPNC ends. The issue occurred when the VLAN IP address was modified, which changed the source network IP address. The fix ensures switches work as expected. This issue was observed in OAW-4030 switches running AOS-W 8.7.0.0 or later versions.	AOS-W 8.7.0.0

New Bug ID	Description	Reported Version
AOS-250722	Customers experienced poor quality voice calls on Ascom VoIP phones connected to OAW-AP655 access points. The issue occurred due to a U-APSD power save issue. The fix ensures VoIP calls can be performed as expected. This issue was observed in APs running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-250875 AOS-251543	The RULES COUNT column under the Configuration > Roles & Policies > role > Policies section of the WebUI displayed a 0 for all roles. The fix ensures the WebUI displays an accurate rule count. This issue was observed in switches running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-250924	Users experienced video lag issues on M2 and M3 MacBooks connected to OAW-AP325 access points. The issue occurred when the AP returned an incorrect AMSDU flag in ADDBA response frames for non-open, non-PMF, and non-jumbo tunnel modes, which eventually hit the switch and dropped the frames. The fix ensures M2 and M3 MacBooks work as expected when connected to APs. This issue was observed in APs running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-251011	Some OAW-AP535 access points crashed and rebooted unexpectedly. This issue occurred because TXBF was enabled for 11a association. The issue was fixed by disabling TXBF for 11a mode association. This issue was observed on access points running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-251055	Some APs were unable to use SCP for dump server collection on IPv6. The fix ensures the AP works as expected. This issue was observed in APs running AOS-W 8.10.0.6 or later versions.	AOS-W 8.10.0.6
AOS-251090	The image upgrade history was not displayed for upgrades done through the WebUI when using the show boot upgrade-history command. The fix ensures the command output is displayed as expected. This issue was observed in switches running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-251130	The OID sysExtFanStatus on the 9240 switches previously reported the status of the external fans as 2 (inactive) inaccurately. The fix improves the monitoring of fan status by utilizing ALARM signals and will now update the sysExtFanStatus value to 1 (active) when there is no ALARM, and to 2 when there is a MAJOR ALARM (indicative of 0 RPM or fan failure) for the fan. This issue was observed in switches running AOS-W 8.10.0.6 or later versions.	AOS-W 8.10.0.6
AOS-251173	Some APs did not send the correct DHCP decline package type whenever there was an IP address conflict. The fix ensures the message type is sent in alignment with RFC-2131, which resolves the issue. This issue was observed in OAW-AP315 access points running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7

New Bug ID	Description	Reported Version
AOS-251213 AOS-251545 AOS-251648 AOS-251894 AOS-252417 AOS-252427	Some APs rebooted unexpectedly at random intervals. The log files listed the reason as Reboot caused by kernel panic: Fatal exception in interrupt . The fix ensures the APs work as expected. This issue was observed in APs running AOS-W 8.0.0.0 or later versions.	AOS-W 8.10.0.8
AOS-251612	The PIM module unexpectedly crashed, which caused a memory leak on OAW-4750XM gateways. The fix ensures the PIM module works as expected. This issue was observed on OAW-4750XM gateways running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-251905	Some Mobility Conductors did not display the OS type of managed devices in the WebUI dashboard. The fix ensures the OS type is displayed in the WebUI. This issue was observed in Mobility Conductors running AOS-W 8.10.0.6 or later versions.	AOS-W 8.10.0.6
AOS-251934	switches under island node hierarchy, having a partial match in the node path and island index, were displayed in the show airgroup switches command output despite the AirGroup function being disabled. The fix ensures the command output is displayed as expected. This issue was observed in switches running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-252017	Some OAW-AP535 access points were sending the error message wlan: [0:F:OBJMGR] wlan_objmgr_iterate_log_del_obj_handler: #peer in L-state, MAC to the syslog servers. Although this condition did not cause immediate connectivity issues, it required the user to reboot the AP to stop the error messages. The fix ensures the APs perform as expected. This issue was observed in APs running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-252038	Some access points with HW-offload function unexpectedly deleted ARP table entries, which caused packets to be dropped. The fix ensures the AP works as expected. This issue was observed in OAW-AP635, OAW-AP655, OAW-AP555, OAW-AP535 access points running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-252186 AOS-251237	In the Configuration > System > CPsec page of the WebUI, the option Only accept APs from specified ranges did not display the table to add the ranges. The fix ensures the table is displayed as expected. This issue was observed in managed devices running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-252349	The Rx and Tx timestamps were inaccurate when running the show ap debug client-table command. The fix ensures the command displays the correct output. This issue was observed in APs running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-252424 AOS-253282 AOS-253299	The AP image conversion failed in switches. The output of the show ap convert-status command shows Pre Validate Failed as the failure reason. This issue occurred when Central??? used an IPv6 address. The fix ensures switches work as expected. This issue was observed in switches running AOS-W 8.7.1.9 or later versions.	AOS-W 8.7.1.9

This chapter describes the known issues observed in this release.

Known Issues

Following are the known issues observed in this release.

 Table 4: Known Issues in AOS-W 8.10.0.11

New Bug ID	Description	Reported Version
AOS-205650 AOS-231536	DHCP traffic from relay agent is not forwarded through the next- hop list configured in Layer 3 GRE tunnel. This issue is observed in managed devices running AOS-W 8.6.0.15 or later versions.	AOS-W 8.6.0.15
AOS-209580	The output of the show ap database command does not display the o or i flags, which indicate whether an AP is an outdoor AP or an indoor AP. This issue occurs when the AP installation type is not set to default. This issue is observed in Mobility Conductors running AOS-W 8.3.0.13 or later versions.	AOS-W 8.3.0.13
AOS-217948	Some APs experience issues with Wi-Fi uplink 802.1X authentication due to a conflict in certificate validity period verification. This issue is observed in APs running AOS-W 8.7.1.1 or later versions.	AOS-W 8.7.1.1
AOS-219150	Mobility Conductor fails to push the SRC NAT pool configuration to managed devices. This issue occurs when the ESI redirect ACL is configured using the WebUI. This issue is observed in Mobility Conductors running AOS-W 8.7.1.1 or later versions.	AOS-W 8.7.1.1
AOS-221308	The execute-cli command does not work as expected for a few show commands. This issue is observed in Mobility Conductors running AOS-W 8.7.1.4 or later versions.	AOS-W 8.7.1.4
AOS-229024	Some OAW-AP505 access points running AOS-W 8.7.1.5 or later versions crash and reboot unexpectedly. The log files list the reason for the event as PC is at wlc_mbo_parse_ie+0x15c/0x2b0 [wl_v6] .	AOS-W 8.7.1.5
AOS-229770	switches may not display information on 802.1X connection statuses if 802.1X connection fails. This issue is observed in switches running AOS-W 8.7.1.8 or later versions.	AOS-W 8.7.1.8
AOS-231283	The log files of few Wi-Fi 6E APs (OAW-AP630 Series and OAW-AP650 Series access points) running AOS-W 8.10.0.0 or later versions incorrectly display the 6G radio 2 disabled due to mfg configuration message during reboot of the APs, even though the 6 GHz radio is not disabled when the APs boot up.	AOS-W 8.10.0.0

New Bug ID	Description	Reported Version
AOS-232092	Some OAW-AP305 and OAW-AP505 access points are not discoverable by Zigbee devices. The southbound traffic is giving the error in as AP not found . This issue is observed on devices running AOS-W8.8.0.1 or later versions.	AOS-W 8.8.0.1
AOS-232208 AOS-241285	The Maintenance > Software Management > Upload AOS image for controller page of the WebUI does not allow for image upgrades in OEM builds, yet the WebUI displays it as an option. This issue is observed in OmniAccess Mobility Controllers running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-232233	Some OAW-4104-LTE switches cache the LAN side MAC address during boot up. Thus, the gateway does not get an IP address from the modem. This issue is observed in switches running AOS- W 8.7.0.0 later versions.	AOS-W 8.7.1.4
AOS-232875 AOS-239469	The mon_serv process crashes in certain high-load scenarios, particularly with a large number of APs and users with high roaming rates. The issue occurs in OmniAccess Mobility Controllers running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-233809	Users are unable to add GRE tunnels to a tunnel group and an incorrect error message Error: Tunnel is already part of a different tunnel-group is displayed. This issue is observed in managed devices running AOS-W 8.6.0.8 or later versions.	AOS-W 8.6.0.8
AOS-233988 AOS-242222 AOS-252252	Wired clients are unable to ping each other on the same VLAN when the ACL is set to user any any permit policy. This issue occurs because SIP is used as the user for both forward and reverse session creation during session ACL lookup. This issue is observed in managed devices running AOS-W 8.6.0.20 or later versions.	AOS-W 8.6.0.20
AOS-236171	Some OAW-AP635 access points running AOS-W 8.10.0.5 or later versions crash due to a PoE power supply change from AF to AT.	AOS-W 8.10.0.5
AOS-236200	Some OAW-AP374 access points configured as mesh crash with reason: kernel panic: Fatal exception . This issue is observed in switches running AOS-W 8.7.1.9 or later versions.	AOS-W 8.7.1.9
AOS-236471	Alcatel-Lucent OAW-4740 controllers running AOS-W 8.10.0.1 or later versions do not show the configured banner information in GUI login page.	AOS-W 8.10.0.1
AOS-236852	The error ofa: ofa ofa_gsm_ event_user_process: port not found:19, tnm50c4ddb3b194 end point is not configured or is down is displayed when a client connects to an IAP-VPN tunnel. This issue is observed in Mobility Conductors running AOS-W 8.10.0.2 or later versions.	AOS-W 8.10.0.2
AOS-237174	Some 9240 switches record informational logs, even though the system log level is configured as warning . This issue is observed in switches running AOS-W 8.10.0.2 or later versions.	AOS-W 8.10.0.2

New Bug ID	Description	Reported Version
AOS-238407 AOS-236630 AOS-240428 AOS-241047	AppRF application or application category ACL is not blocking YouTube on devices connected to APs running AOS-W 8.6.0.16 or later versions.	AOS-W 8.6.0.16
AOS-238846	The error message Exceeds the max supported vlans 128 displays when creating Layer 2 VLANs at folder level. This issue is observed in Mobility Conductors running AOS-W 8.6.0.15 or later versions.	AOS-W 8.6.0.15
AOS-239521	Users are unable to add a tunnel to a tunnel group and an error message Error: All tunnels must have same vlan membership is displayed. This issue occurs when the VLANs are configured in a different order when compared to the order configured for other tunnels in the same group. This issue is observed in managed devices running AOS-W 8.6.0.15 or later versions.	AOS-W 8.6.0.15
AOS-239724 AOS-239529	Some APs unexpectedly increase the response time when using DHCP configuration. This issue is observed in APs running AOS-W 8.10.0.2 or later versions.	AOS-W 8.10.0.2
AOS-239814 AOS-239815	In some switches running AOS-W 8.6.0.11 or later versions, IPv4 and IPv6 accounting messages are using the same session ID with Passpoint. This causes multiple accounting messages to be sent repeatedly.	AOS-W 8.6.0.11
AOS-241212 AOS-241537	Some OAW-4650 switches running AOS-W 8.10.0.4 or later versions crash and reboot unexpectedly. The log files list the reason for the event as Nanny rebooted machine - low on free memory .	AOS-W 8.10.0.4
AOS-242532	Some OAW-AP535 access points are not available on OAW-4550 switches post power outage. This issue occurs when a USB converter and console cable are used, which interrupts the boot up process and results in the AP not showing up on the switch. The issue is observed in switches running AOS-W 8.6.0.9 or later versions.	AOS-W 8.6.0.9
AOS-243266	APs upgraded through TFTP get stuck in Upgrading status due to an incorrect automatic change of UDP ports. This issue is observed in OmniAccess Mobility Controllers running AOS-W 8.6.0.20 or later versions.	AOS-W 8.6.0.20
AOS-243536	Some OmniAccess Mobility Controllers running AOS-W 8.0.0.0 or later versions display incorrect values in Discovery State and Transport State for AirGroup services, after running the show airgroup switches command. This issue occurs due to a race condition. Therefore, users connected to the affected APs are unable to use AirGroup services.	AOS-W 8.10.0.6
AOS-244193	Some OAW-AP655 access points are frequently bootstrapping. The issue occurs due to a interoperability issue of the APs firmware with certain third-party-switches. The issue is observed in access points running AOS-W 8.10.0.6 or later versions.	AOS-W 8.10.0.6

New Bug ID	Description	Reported Version
AOS-244210	Users are unable to configure a negative value for the transmit power setting in the Overview > Profiles > IoT Profile > BLE Transmit Power page of the WebUI. This issue is observed in OmniAccess Mobility Controllers running AOS-W 8.10.0.6 or later versions.	AOS-W 8.10.0.6
AOS-244965	An unnecessary debugging log appears as Received ICMP (DEST_UNREACH, PROT_UNREACH) from X.X.X.X for heartbeat tunnel . This issue is observed in switches running AOS-W 8.10.0.5 or later versions.	AOS-W 8.10.0.5
AOS-245367	In standalone switches, it is not possible to configure application speed limit under the Dashboard > Traffic Analysis > Applications tab. This feature works if the switch is in Master role, but this error is not reported properly. This issue is observed in switches running AOS-W 8.10.0.5 or later versions.	AOS-W 8.10.0.5
AOS-245414	SNMP queries to switches return valid traffic data for GigE interfaces but might show all zeroes for GRE tunnel interfaces. This issue is observed on OmniAccess Mobility Controllers running AOS-W 8.0.0.0 or later versions.	AOS-W 8.6.0.17
AOS-245777	In the switch Dashboard > Overview > Clients page of the WebUI, applying the Grouped by signal quality filter does not correctly organize the client data or display the graph based on signal quality. This issue is observed in managed devices running AOS-W 8.6.0.0 or later versions.	AOS-W 8.6.0.0
AOS-246103 AOS-247433 AOS-240688 AOS-250837	Some OAW-AP635 and OAW-AP535 access points reboot randomly with reboot reason - kernel panic: Take care of the TARGET ASSERT at ar_wal_tx_send.c:11778 first . This occurs due to issues with M3 controllers recovery, to which the APs are connected. This issue is observed in APs running AOS-W 8.10.0.5 or later versions.	AOS-W 8.10.0.5
AOS-246606	The NVDA reader calls out only parameters that are not configured under the Services > Firewall page of the WebUI. This issue is observed in switches running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-246960	OmniAccess Mobility Controller upgrades trigger license changes which cause the unintended loss of configured user roles and ACLs in managed devices. This issue is observed in OAW-4010 switches running AOS-W 8.6.0.21 or later versions. Workaround: Reload the managed device or restart the profmgr process to fix the issue.	AOS-W 8.6.0.21
AOS-247721	Mobility Conductor in a standby setup fails over and crashes unexpectedly. The log files list the reason as Datapath Exception . This issue is observed in Mobility Conductor running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7

New Bug ID	Description	Reported Version
AOS-247793	Some OAW-AP535 access points crash and reboot unexpectedly. The log file lists the reason for reboot as AP crashed at ar_wal_ vdev.c:3320 Assertion vdev_handle->type == WAL_VDEV_TYPE_ STA . This issue is observed in access points running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.0
AOS-248466	The switch discovery preference field disappears when changing it from ADP to Static, under Dashboard > Configuration > Access Point > Provision page of the WebUI. This issue is observed in switches running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-248899	The syslog server of some wireless switches is flooded with error messages related to OpenFlow. Logs such as ofa: <238503> <5843> ofa sdn ERRS ofml_openflow_mac_bridge_add_ ap:322 AP client(mac-address) not found are repeatedly displayed on switches with varying MAC addresses. These errors are related to roaming when connected to a OAW-RAP, and can be safely ignored. This issue is observed in switches running AOS-W 8.10.0.7 or later versions.	AOS-W 8.10.0.7
AOS-248905	 Clients are assigned the wrong role when reconnecting to WPA3 Enterprise (GCM) SSIDs, in both CNSA and non-CNSA mode. The issue is related to PMK caching as part of dot1x authentication. This issue is observed in switches running AOS-W 8.10.0.0 or later versions. Workaround: Since this is a PMK caching issue, clearing the cache by using the aaa authentication dot1x key-cache clear <unk>station-mac> command solves the problem.</unk> 	AOS-W 8.10.0.0
AOS-249361 AOS-247054 AOS-252702 AOS-253220 AOS-247632	A few boot arguments are missing for OAW-41xx Series and OAW-4104-LTE gateways. This issue occurs after the gateways were upgraded to AOS-W 8.10.0.7. This issue is observed in gateways running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.7
AOS-249568	Rules added from the Configuration > Roles & Policies > Roles > role > Rules of this Role only section of the WebUI are not displayed after being added. This issue is observed in switches running AOS-W 8.0.0.0 or later versions.	AOS-W 8.10.0.7
AOS-250148	AirGroup's Transport State gets stuck on initializing status. The issue is related to the current handling of OpenFlow flows in AOS SDN controllers. This issue is observed in managed devices running AOS-W 8.0.0.0 or later versions.	AOS-W 8.0.0.0
AOS-250612	Some discrepancies in license usage reporting are noted between global and lower-level pools in setups with Mobility Conductors, managed devices, and OAW-APs. This issue is observed in managed devices running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.9

New Bug ID	Description	Reported Version
AOS-250773	OmniVista 3600 Air Manager is seeing delayed or missing SNMP responses from some switches, causing SNMP timeouts. As a result, OmniVista 3600 Air Manager incorrectly marks a switch as down, prompting the switch to send an error message stating WARN> snmp Processing of GET(next) request failed . This issue is observed in OAW-4550 switches running AOS-W 8.10.0.6 or later versions.	AOS-W 8.10.0.6
AOS-250876	The J8177D, a 1G SFP RJ45 T 100m Cat5e, transceiver manufactured in Taiwan does not work on OAW-4x50 switches, whereas the J8177D manufactured in the United States works fine. This issue is observed in switches running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9
AOS-250883	When a logging server type was deleted, it causes the removal of all other logging types from the show running-config and show logging server commands' output. This issue is observed in switches running AOS-W 8.0.0.0 or later versions.	AOS-W 8.10.0.5
AOS-251605 AOS-241347	Wired AirGroup servers might disappear from the AirGroup server table when GE/PC ports are deactivated. This issue was observed on OmniAccess Mobility Controllers running AOS-W 8.10.0.0 or later versions.	AOS-W 8.10.0.9
AOS-251742 AOS-252082	Users experience increased latency in applications with short, bursty traffic patterns when connected to APs. This issue is observed in OAW-AP515 and OAW-AP505 access points running AOS-W 8.10.0.8 or later versions.	AOS-W 8.10.0.8
AOS-252656	Some switches do not report client count through SNMP OID in 6 GHz connections. This issue is observed in switches running AOS- W 8.9.0.0 or later versions.	AOS-W 8.10.0.8
AOS-252798	The OFA process crashes on switches running AOS-W 8.10.0.10 or later versions after a RAP deployment. The issue occurs due to a segmentation fault while deleting a client object from the OFML library.	AOS-W 8.10.0.10
AOS-252888	In some switches, a list index out of range exception error is seen when a netdestination alias is configured. This issue is observed in switches running AOS-W 8.10.0.9 or later versions.	AOS-W 8.10.0.9

Chapter 8 Limitations in AOS-W 8.10.x

This section includes the known limitations in 8.10.x.x releases.

Title	Description
Port- Channel Limitation in OAW- 4850 switches	 The OAW-4850 hardware architecture consists of two Network Acceleration Engines (NAEs). The Ethernet ports are split between the NAEs according to this mapping: NAE 0: Ports 0/0/4 to 0/0/7 and 0/0/12 to 0/0/15 NAE 1: Ports 0/0/0 to 0/0/3 and 0/0/8 to 0/0/11 When configuring a port-channel, it is recommended that member ports are distributed between the two different NAEs, for example 0/0/0 and 0/0/4. This is to ensure hitless operation if one of the member ports are on the same NAE, a link flap will be observed for less than a second. It is not recommended to form a 10 Gbe based port-channel larger than 2x 10 Gbe due to this hardware limitation.
No Support for Airtime Fairness Mode	Airtime Fairness Mode is not supported in 802.11ax access points.
6 GHz Channel Information in Regulatory Domain Profile	AOS-W does not display the 6 GHz channel information in the existing regulatory domain profile of Wi-Fi 6E APs by default. To include 6 GHz channel information, ensure that you change the country code to a different country code, apply the change, and then revert it to the original country code. Another option is to create a new regulatory domain profile that includes the 6 GHz channel information by default, or copy the existing regulatory domain profile into a new regulatory domain profile to save the configuration. The following example configures a regulatory domain profile and specifies a valid 6 GHz band.
	<pre>(host) [mynode](config) #ap regulatory-domain-profile reg-635 (host) [mynode] (Regulatory Domain profile "reg-635") #country-code US (host) [mynode] (Regulatory Domain profile "reg-635") #valid-6ghz- channel 165</pre>
Limitations in OAW- AP650 Series and OAW-AP630 Series Access Points	 No spectrum analysis on any radio No Zero-Wait DFS No Hotspot and Air Slice support on the 6 GHz radio No 802.11mc responder and initiator functionality on any radio Only 4 VAPs on the 6 GHz radio instead of 16 Maximum of 512 associated clients on any radio, instead of 1024

Title	Description
Air Slice is partially enabled on some OAW- AP500 Series APs	Air Slice is partially enabled on OAW-AP500 Series access points and OAW-AP510 Series access points. However, WMM boost will be functional even if Air Slice high-priority queuing is disabled.
cpboot command in OAW-40xx Series and OAW-4x50 Series switches	The cpboot command does not upgrade the AOS-W software version of OAW-40xx Series and OAW-4x50 Series controllers.

This chapter details software upgrade procedures. It is recommended that you schedule a maintenance window for the upgrade.



Read all the information in this chapter before upgrading your Mobility Conductor, managed device, or standalone switch.

Important Points to Remember

To upgrade your managed device or Mobility Conductor:

- Schedule the upgrade during a maintenance window and notify your community of the planned upgrade. This prevents users from being surprised by a brief wireless network outage during the upgrade.
- Avoid making any changes to your network, such as configuration changes, hardware upgrades, or changes to the rest of the network during the upgrade. This simplifies troubleshooting.
- Know your network and verify the state of the network by answering the following questions:
 - How many APs are assigned to each managed device? Verify this information by navigating to the Dashboard > Access Points page in the WebUI, or by executing the show ap active or show ap database commands.
 - How are those APs discovering the managed device (DNS, DHCP Option, Broadcast)?
 - What version of AOS-W runs on your managed device?
 - Are all managed devices running the same version of AOS-W?
 - What services are used on your managed device (employee wireless, guest access, OAW-RAP, wireless voice)?
- Resolve any existing issues (consistent or intermittent) before you upgrade.
- If possible, use FTP to load AOS-W images to the managed device. FTP is faster than TFTP and offers more resilience over slow links. If you must use TFTP, ensure the TFTP server can send over 30 MB of data.
- Always upgrade the non-boot partition first. If you encounter any issue during the upgrade, you can
 restore the flash, and switch back to the boot partition. Upgrading the non-boot partition gives you a
 smoother downgrade path, if required.
- Before you upgrade to this version of AOS-W, assess your software license requirements and load any new or expanded licenses that you might require. For a detailed description of these new license modules, refer the *Alcatel-Lucent Mobility Conductor Licensing Guide*.
- With the introduction of the Long Supported Release (LSR) and Short Supported Release (SSR) terminology in AOS-W 8.10.0.0, a Mobility Conductor running an LSR release supports managed devices running the same release and the three preceding releases. This is considered as N-3 support. This allows a customer to run the latest LSR, the previous SSRs and the previous LSR simultaneously. A Mobility Conductor running an SSR release supports managed devices running the same release and the two preceding releases. This would be considered N-2 support and is the same behavior as the pre-AOS-W 8.10.0.0 MultiVersion support.

Only for the AOS-W 8.10.0.0 LSR release, AOS-W 8.6.0.0 is treated as an LSR despite being beyond N-3. As such a Mobility Conductor running AOS-W 8.10.0.0 supports managed devices running AOS-W 8.10.0.0, AOS-W 8.9.0.0, AOS-W 8.8.0.0, AOS-W 8.7.0.0 and AOS-W 8.6.0.0.

Memory Requirements

All Alcatel-Lucent managed devices store critical configuration data on an onboard compact flash memory module. Ensure that there is always free flash space on the managed device. Loading multiple large files such as JPEG images for RF Plan can consume flash space quickly. Following are best practices for memory management:

- Do not proceed with an upgrade unless 100 MB of free memory is available. Execute the **show** memory command to identify the available free memory. To recover memory, reboot the managed device. After the managed device comes up, upgrade immediately.
- Do not proceed with an upgrade unless the minimum flash space is available. Execute the **show** storage command to identify the available flash space. If the output of the **show storage** command indicates that there is insufficient flash memory, free some used memory. Copy any log files, crash data, or flash backups from your managed device to a desired location. Delete the following files from the managed device to free some memory:
 - **Crash data:** Execute the **tar crash** command to compress crash files to a file named **crash.tar**. Use the procedures described in <u>Backing up Critical Data on page 37</u> to copy the **crash.tar** file to an external server. Execute the **tar clean crash** command to delete the file from the managed device.
 - **Flash backups:** Use the procedures described in <u>Backing up Critical Data on page 37</u> to back up the flash directory to a file named **flash.tar.gz**. Execute the **tar clean flash** command to delete the file from the managed device.
 - Log files: Execute the tar logs command to compress log files to a file named logs.tar. Use the procedures described in <u>Backing up Critical Data on page 37</u> to copy the logs.tar file to an external server. Execute the tar clean logs command to delete the file from the managed device.



In certain situations, a reboot or a shutdown could cause the managed device to lose the information stored in its flash memory. To avoid such issues, it is recommended that you execute the **halt** command before power cycling.

Deleting a File

You can delete a file using the WebUI or CLI.

In the WebUI

From the Mobility Conductor, navigate to **Diagnostic > Technical Support > Delete Files** and remove any aging log files or redundant backups.

In the CLI

(host) #delete filename <filename>

Low Free Flash Memory

Sometimes, after extended use, the flash memory might get used up for logs and other files. The AOS-W image has increased in size and this may cause issues while upgrading to newer AOS-W images without cleaning up the flash memory.

Prerequisites

Before you proceed with the freeing up the flash memory:

- Ensure to always backup the configuration and flash memory. Issue the **backup configuration** and **backup flash** commands to backup the configuration and flash.
- Copy the flashbackup.tar.gz and configbackup.tar.gz files out of the switch. Then delete the flashbackup.tar.gz and configbackup.tar.gz files from the flash memory of the switch.
- Use only one partition for the upgrade activity and keep the other partition unchanged.

If you use the WebUI to perform an upgrade, a banner on the **Maintenance** page provides the following reminder to have sufficient free flash memory before initiating an upgrade.

For a healthy and stable system it requires free space of 360 MB for AOS v8.3 and 8.5, 570 MB for AOS 8.6 and 8.7 and 450 MB for AOS 8.8 and higher version in the /flash directory. Please make sure minimum required memory is available in /flash before upgrading to newer version.

Freeing up Flash Memory

The following steps describe how to free up the flash memory before upgrading:

1. Check if the available memory in **/flash** is greater than the limits listed in <u>Table 5</u> for all supported switch models:

Upgrading from	Upgrading to	Minimum Required Free Flash Memory Before Initiating an Upgrade
8.3.x	8.10.x	360 MB
8.5.x	8.10.x	360 MB
8.6.x	8.10.x	570 MB
8.7.x	8.10.x	570 MB
8.8.x	8.10.x	450 MB
8.9.x	8.10.x	450 MB
8.10.x	8.10.x	450 MB

Table 5: Flash Memory Requirements

To check the available free flash memory, issue the **show storage** command. Following is the sample output from a switch with low free flash memory:

(host) [mynode] #	show storage		-		
Filesystem	Size	Available	Use	00	Mounted on
/dev/usb/flash3	1.4G	1014.2M	386.7M	72%	/flash

- 2. If the available free flash memory is less than the limits listed in <u>Table 5</u>, issue the following commands to free up more memory.
 - tar crash
 - tar clean crash

- tar clean logs
- tar clean traces
- 3. Issue the **show storage** command again to check if the available space in **/flash** is more than the minimum space required for AOS-W upgrade as listed in <u>Table 5</u>
- 4. If you are unable to free up sufficient flash memory, contact Technical Support. Do not reboot the switch.
- 5. If sufficient flash memory is available, proceed with the standard AOS-W upgrade. See <u>Upgrading</u> <u>AOS-W</u>.
- 6. If a reboot was performed, you may see some of the following errors. Follow the directions below:
 - Upgrade using standard procedure. You may see some of the following errors:

Error upgrading image: Ancillary unpack failed with tar error (tar: Short header). Please clean up the /flash and try upgrade again.

Error upgrading image: Ancillary unpack failed with tar error (tar: Invalid tar magic). Please clean up the /flash and try upgrade again.

Error upgrading image: Need atleast XXX MB space in /flash for image upgrade, please clean up the /flash and try upgrade again.

Failed updating: [upgradeImageNew.c] extractAncTar (dev: /dev/usb/flash1 imgLoc: /flash/config/ArubaOS_70xx_8.8.0.0-mm-dev_78066

 If any of the above errors occur, issue the show image version command to check for the default boot partition. The partition which was upgraded should become the default partition.
 Following is the sample output of the show image version command:

(host) [mynode] #show image version

Partition	: 0:0 (/dev/usb/flash1) **Default boot**
Software Version Build)	: AOS-W 8.9.0.0 (Digitally Signed SHA1/SHA256 - Production
Durra)	
Build number	: 81046
Label	: 81046
Built on	: Thu Aug 5 22:54:49 PDT 2021
Partition	: 0:1 (/dev/usb/flash2)
Partition Software Version	: 0:1 (/dev/usb/flash2) : AOS-W 8.7.0.0-2.3.1.0 (Digitally Signed SHA1/SHA256 -
	: AOS-W 8.7.0.0-2.3.1.0 (Digitally Signed SHA1/SHA256 -
Software Version	: AOS-W 8.7.0.0-2.3.1.0 (Digitally Signed SHA1/SHA256 -
Software Version Developer/Internal Build	: AOS-W 8.7.0.0-2.3.1.0 (Digitally Signed SHA1/SHA256 -
Software Version Developer/Internal Build Build number	: AOS-W 8.7.0.0-2.3.1.0 (Digitally Signed SHA1/SHA256 - d) : 0000

- If the default boot partition is not the same as the one where you performed the upgrade, change the default boot partition. Issue the **boot system partition <part_number>** command to change the default boot partition. Enter **0** or **1** for **part_number** representing partition 0:0 or partition 0:1, respectively.
- Reload the switch. If any of the errors listed in step 4 were observed, the following errors might occur while booting AOS-W 8.9.0.0.

```
Sample error:
[03:17:17]:Installing ancillary FS [ OK ]
Performing integrity check on ancillary partition 1 [ FAIL : Validating new
ancillary partition 1...Image Integrity check failed for file
/flash/img1/mswitch/sap/arm32.ari. Digest Mismatch]
Extracting Webui files..tar: Short read
chown: /mswitch/webui/*: No such file or directory
```

chmod: /mswitch/webui/wms/wms.cgi: No such file or directory

- After the switch reboots, the login prompt displays the following banner:
- * WARNING: An additional image upgrade is required to complete the *
- * installation of the AP and WebUI files. Please upgrade the boot
- * partition again and reload the controller.
- Repeat steps 1 through 5. If sufficient free flash memory is available, proceed with the standard AOS-W upgrade procedure. See <u>Upgrading AOS-W</u>.
- If sufficient free flash memory is not available, issue the **dir** and **dir flash** commands to identify large files occupying the flash memory.



Exercise caution while deleting files. Contact Technical Support if you are not sure which large files in the **/flash** directory could be safely deleted to free up the required space.

Issue the **delete filename <filename>** command to delete large files to free more flash memory.

- Check if sufficient flash memory is free as listed in <u>Table 5</u>.
- Proceed with the standard AOS-W upgrade procedure in the same partition. See <u>Upgrading</u> AOS-W.

Backing up Critical Data

It is important to frequently back up all critical configuration data and files on the flash memory to an external server or mass storage device. You should include the following files in these frequent backups:

- Configuration data
- WMS database
- Local user database
- Licensing database
- Custom captive portal pages
- x.509 certificates
- Log files
- Flash backup

Backing up and Restoring Flash Memory

You can backup and restore the flash memory using the WebUI or CLI.

In the WebUI

The following steps describe how to back up and restore the flash memory:

1. In the Mobility Conductor node hierarchy, navigate to the **Maintenance > Configuration Management > Backup** page.

- 2. Click **Create Backup** to backup the contents of the flash memory to the **flashbackup.tar.gz** file.
- 3. Click **Copy Backup** to copy the file to an external server.

You can copy the backup file from the external server to the flash memory using the file utility in the **Diagnostics > Technical Support > Copy Files** page.

4. To restore the backup file to the flash memory, navigate to the **Maintenance > Configuration Management > Restore** page and click **Restore**.

In the CLI

The following steps describe how to back up and restore the flash memory:

1. Execute the following command in the **enable** mode:

(host) #write memory

2. Execute the following command to back up the contents of the flash memory to the

flashbackup.tar.gz file.

(host) #backup flash
Please wait while we take the flash backup.....
File flashbackup.tar.gz created successfully on flash.
Please copy it out of the controller and delete it when done.

3. Execute either of the following command to transfer the flash backup file to an external server or storage device.

(host) #copy flash: flashbackup.tar.gz ftp: <ftphost> <ftpusername> <ftpuserpassword>
<remote directory>

(host) #copy flash: flashbackup.tar.gz usb: partition <partition-number>

You can transfer the flash backup file from the external server or storage device to the flash memory by executing either of the following command:

(host) #copy tftp: <tftphost> <filename> flash: flashbackup.tar.gz

(host) #copy usb: partition <partition-number> <filename> flash: flashbackup.tar.gz

4. Execute the following command to untar and extract the **flashbackup.tar.gz** file to the flash memory.

(host) #restore flash
Please wait while we restore the flash backup.....
Flash restored successfully.
Please reload (reboot) the controller for the new files to take effect.

Upgrading AOS-W

Upgrade AOS-W using the WebUI or CLI.



Ensure that there is enough free memory and flash space on your Mobility Conductor or managed device. For details, see <u>Memory Requirements on page 34</u>.

NOTE

When you navigate to the **Configuration** tab in the WebUI, the managed device might display the **Error getting information: command is not supported on this platform** message. This message is displayed ccurs when you upgrade using the WebUI and navigate to the **Configuration** tab after the managed device reboots. This message disappears after clearing the Web browser cache.

In the WebUI

The following steps describe how to upgrade AOS-W from a TFTP server, FTP server, or local file.

- 1. Download the AOS-W image from the customer support site.
- 2. Upload the AOS-W image to a PC or workstation on your network.
- 3. Validate the SHA hash for the AOS-W image:

a. Download the Alcatel.sha256 file from the download directory.

b. Load the AOS-W image to a Linux system and execute the **sha256sum <filename>** command. Alternatively, use a suitable tool for your operating system that can generate a **SHA256** hash of a file.

c. Verify that the output produced by this command matches the hash value found on the customer support site.



The AOS-W image file is digitally signed and is verified using RSA2048 certificates preloaded at the factory. The Mobility Conductor or managed device will not load a corrupted AOS-W image.

- 4. Log in to the AOS-W WebUI from the Mobility Conductor.
- 5. Navigate to the Maintenance > Software Management > Upgrade page.
 - a. Select the Local File option from the Upgrade using drop-down list.

b. Click **Browse** from the **Image file name** to navigate to the saved image file on your PC or workstation.

- 6. Select the downloaded image file.
- 7. Choose the partition from the **Partition to Upgrade** option.

8. Enable the **Reboot Controller After Upgrade** toggle switch to automatically reboot after upgrading. If you do not want to reboot immediately, disable this option.



The upgrade does not take effect until reboot. If you chose to reboot after upgrade, the Mobility Conductor or managed device reboots automatically.

9. Select Save Current Configuration.

10. Click Upgrade.

11. Click **OK**, when the **Changes were written to flash successfully** message is displayed.

In the CLI

The following steps describe how to upgrade AOS-W from a TFTP server, FTP server, or local file.

- 1. Download the AOS-W image from the customer support site.
- 2. Open an SSH session to your Mobility Conductor.

3. Execute the **ping** command to verify the network connection between the Mobility Conductor and the SCP server, FTP server, or TFTP server.

```
(host) # ping <ftphost>
```

or

(host) # ping <tftphost>

or

(host) # ping <scphost>

4. Execute the **show image version** command to check if the AOS-W image is loaded on the flash partition. The partition number appears in the **Partition** row; **0:0** is partition 0, and **0:1** is partition 1. The active boot partition is marked as **Default boot**.

(host) #show image version

5. Execute the **copy** command to load the new image to the non-boot partition.

```
(host)# copy ftp: <ftphost> <ftpusername> <image filename> system: partition <0|1>
or
(host)# copy tftp: <tftphost> <image filename> system: partition <0|1>
or
(host)# copy scp: <scphost> <scpusername> <image filename> system: partition <0|1>
or
(host)# copy usb: partition <partition-number> <image filename> system: partition <0|1>
```

6. Execute the **show image version** command to verify that the new image is loaded.

(host) # show image version

7. Reboot the Mobility Conductor.

(host) #reload

8. Execute the **show version** command to verify that the upgrade is complete.

(host) #show version

Verifying the AOS-W Upgrade

Verify the AOS-W upgrade in the WebUI or CLI.

In the WebUI

The following steps describe how to verify that the Mobility Conductor is functioning as expected:

1. Log in to the WebUI and navigate to the **Dashboard > WLANs** page to verify the AOS-W image version.

2. Verify if all the managed devices are up after the reboot.

3. Navigate to the **Dashboard > Access Points** page to determine if your APs are up and ready to accept clients.

4. Verify that the number of APs and clients are as expected.

5. Test a different type of client in different locations, for each access method used.

6. Complete a backup of all critical configuration data and files on the flash memory to an external server or mass storage facility. See <u>Backing up Critical Data on page 37</u> for information on creating a backup.

In the CLI

The following steps describe how to verify that the Mobility Conductor is functioning as expected:

- 1. Log in to the CLI to verify that all your managed devices are up after the reboot.
- 2. Execute the **show version** command to verify the AOS-W image version.

3. Execute the **show ap active** command to determine if your APs are up and ready to accept clients.

4. Execute the **show ap database** command to verify that the number of APs and clients are as expected.

5. Test a different type of client in different locations, for each access method used.

6. Complete a backup of all critical configuration data and files on the flash memory to an external server or mass storage facility. See <u>Backing up Critical Data on page 37</u> for information on creating a backup.

Downgrading AOS-W

A Mobility Conductor or managed device has two partitions, 0 and 1. If the upgrade fails on one of the partitions, you can reboot the Mobility Conductor or managed device from the other partition.

Pre-requisites

Before you reboot the Mobility Conductor or managed device with the pre-upgrade AOS-W version, perform the following steps:

1. Back up your Mobility Conductor or managed device. For details, see <u>Backing up Critical Data on</u> page <u>37</u>.

2. Verify that the control plane security is disabled.

3. Set the Mobility Conductor or managed device to boot with the previously saved configuration file.

4. Set the Mobility Conductor or managed device to boot from the partition that contains the preupgrade AOS-W version.

When you specify a boot partition or copy an image file to a system partition, Mobility Conductor or managed device checks if the AOS-W version is compatible with the configuration file. An error message is displayed if the boot parameters are incompatible with the AOS-W version and configuration files.

5. After switching the boot partition, perform the following steps:

- Restore the pre-upgrade flash backup from the file stored on the Mobility Conductor or managed device. Do not restore the AOS-W flash backup file.
- Do not import the WMS database.
- If the RF plan is unchanged, do not import it. If the RF plan was changed before switching the boot partition, the changed RF plan does not appear in the downgraded AOS-W version.
- If any new certificates were added in the upgraded AOS-W version, reinstall these certificates in the downgraded AOS-W version.

Downgrade AOS-W version using the WebUI or CLI.

In the WebUI

The following steps describe how to downgrade the AOS-W version:

1. If the saved pre-upgrade configuration file is on an external FTP or TFTP server, copy the file to the Mobility Conductor or managed device by navigating to the **Diagnostics > Technical Support > Copy Files** page.

a. From **Select source file** drop-down list, select FTP or TFTP server, and enter the IP address of the FTP or TFTP server and the name of the pre-upgrade configuration file.

b. From **Select destination file** drop-down list, select **Flash file system**, and enter a file name (other than default.cfg).

c. Click Copy.

2. Determine the partition on which your pre-upgrade AOS-W version is stored by navigating to the **Maintenance > Software Management > Upgrade** page. If a pre-upgrade AOS-W version is not stored on your system partition, load it into the backup system partition by performing the following steps:



You cannot load a new image into the active system partition.

- a. Enter the FTP or TFTP server address and image file name.
- b. Select the backup system partition.
- c. Enable **Reboot Controller after upgrade**.
- d. Click Upgrade.

3. Navigate to the **Maintenance > Software Management > Reboot** page, select **Save configuration before reboot**, and click **Reboot**.

The Mobility Conductor or managed device reboots after the countdown period.

4. When the boot process is complete, verify that the Mobility Conductor or managed device is using the correct AOS-W version by navigating to the **Maintenance > Software Management > About** page.

In the CLI

The following steps describe how to downgrade the AOS-W version:

1. If the saved pre-upgrade configuration file is on an external FTP or TFTP server, use the following command to copy it to the Mobility Conductor or managed device:

```
(host) # copy ftp: <ftphost> <ftpusername> <image filename> system: partition 1
or
```

(host) # copy tftp: <tftphost> <image filename> system: partition 1

2. Set the Mobility Conductor or managed device to boot with your pre-upgrade configuration file. (host) # boot config-file <backup configuration filename>

3. Execute the **show image version** command to view the partition on which your pre-upgrade AOS-W version is stored.

(host) #show image version



You cannot load a new image into the active system partition.

4. Set the backup system partition as the new boot partition.

```
(host) # boot system partition 1
```

5. Reboot the Mobility Conductor or managed device.

```
(host) # reload
```

6. When the boot process is complete, verify that the Mobility Conductor or managed device is using the correct AOS-W version.

(host) # show image version

Before Calling Technical Support

Provide the following information when you call the Technical Support:

- The status of installation (new or existing) and recent changes to network, device, or AP configuration. If there was a configuration change, list the exact configuration steps and commands used.
- A detailed network topology including all the devices in the network with IP addresses and interface numbers.
- The make and model number of the wireless device and NIC, driver date, version, and configuration of the NIC, and the OS version including any service packs or patches.
- The logs and output of the **show tech-support** command.
- The syslog file at the time of the problem.
- The date and time when the problem first occurred. If the problem is reproducible, list the exact steps taken to re-create the problem.
- Any wired or wireless sniffer traces taken during the time of the problem.
- The device site access information.