



AOS-W Instant 8.10.0.10

Release Notes

Alcatel·Lucent 
Enterprise

Copyright Information

The Alcatel-Lucent name and logo are trademarks of Nokia used under license by ALE. To view other trademarks used by affiliated companies of ALE Holding, visit: www.al-enterprise.com/en/legal/trademarks-copyright. All other trademarks are the property of their respective owners. The information presented is subject to change without notice. Neither ALE Holding nor any of its affiliates assumes any responsibility for inaccuracies contained herein.

© Copyright 2022 ALE International, ALE USA Inc. All rights reserved in all countries.

Contents	3
Revision History	4
Release Overview	5
Related Documents	5
Supported Browsers	5
Terminology Change	6
Contacting Support	6
What's New	7
New Features and Enhancements	7
Behavioral Changes	7
Supported Hardware Platforms	8
End-of-Support	9
Regulatory Updates	10
Resolved Issues	11
Known Issues and Limitations	13
Limitations	13
Known Issues	14
Upgrading an OAW-IAP	17
Upgrading an OAW-IAP Using OmniVista 3600 Air Manager Management Platform	17
Upgrading an OAW-IAP Image Manually Using the WebUI	18
Upgrading an OAW-IAP Image Manually Using CLI	19
Upgrade from AOS-W Instant 6.4.x.x-4.2.x.x to AOS-W Instant 8.10.0.x	20

The following table provides the revision history of this document.

Table 1: *Revision History*

Revision	Change Description
Revision 01	Initial release.

This AOS-W Instant release notes includes the following topics:

- [What's New on page 7](#)
- [Supported Hardware Platforms on page 8](#)
- [Regulatory Updates on page 10](#)
- [Resolved Issues on page 11](#)
- [Known Issues and Limitations on page 13](#)
- [Upgrading an OAW-IAP on page 17](#)

For the list of terms, refer to the [Glossary](#).

Related Documents

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

- *Alcatel-Lucent AP Software Quick Start Guide*
- *AOS-W Instant User Guide*
- *AOS-W Instant CLI Reference Guide*
- *AOS-W Instant REST API Guide*
- *AOS-W Instant Syslog Messages Reference Guide*
- *Alcatel-Lucent OAW-IAP Troubleshooting Guide*

Supported Browsers

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

Web Browser	Operating System
Microsoft Edge (Microsoft Edge 92.0.902.62 and Microsoft EdgeHTML 18.19041) or later	<ul style="list-style-type: none">▪ Windows 10 or later▪ macOS
Firefox 107.0.1 or later	<ul style="list-style-type: none">▪ Windows 10 or later▪ macOS
Apple Safari 15.4 (17613.1.17.1.13) or later	<ul style="list-style-type: none">▪ macOS
Google Chrome 108.0.5359.71 or later	<ul style="list-style-type: none">▪ Windows 10 or later▪ macOS

Terminology Change

As part of advancing HPE's commitment to racial justice, we are taking a much-needed step in overhauling HPE 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 HPE culture and moving forward, Alcatel-Lucent 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
Support Site	https://businessportal.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.

New Features and Enhancements

This section describes the features and enhancements introduced in this release.

Auto Dump Collection Commands

The following commands have been introduced to support the automatic uploading of dump files for crash events:

- The **show ap debug ctb-status** command shows the upload status of crash dump files.
- The **show ap debug subscribe-event-statistics** command shows the records of the crash event.

Enhancement to debug pkt dump for Enforce DHCP Violation

Starting from AOS-W Instant 8.10.0.10, the output for **debug pkt dump** includes information regarding packets drops that occur due to enforce DHCP violations.

Enhancement to EST Profiles

Starting from AOS-W Instant 8.10.0.10, OAW-IAPs now follow RFC 7030 when attempting to re-enroll EST certificates.

Behavioral Changes

This release does not introduce any changes in AOS-W Instant behaviors, resources, or support that would require you to modify the existing system configurations after updating to 8.10.0.10.

Chapter 3

Supported Hardware Platforms

The following table displays the OAW-IAP platforms supported in AOS-W Instant 8.10.0.x release.

Table 3: *Supported OAW-IAP Platforms*

OAW-IAP Platform	Minimum Required AOS-W Instant Software Version
OAW-650 Series — OAW-AP655	AOS-W Instant 8.10.0.0 or later
OAW-630 Series — OAW-AP635	AOS-W Instant 8.9.0.0 or later
OAW-500H Series — OAW-AP503H OAW-560 Series — OAW-AP565 and OAW-AP567	AOS-W Instant 8.7.1.0 or later
OAW-500H Series — OAW-AP505H OAW-518 Series — OAW-AP518 OAW-AP570 Series — OAW-AP574, OAW-AP575, and OAW-AP577 OAW-570EX Series — OAW-AP575EX and OAW-AP577EX	AOS-W Instant 8.7.0.0 or later
OAW-AP500 Series — OAW-AP504 and OAW-AP505	AOS-W Instant 8.6.0.0 or later
OAW-AP530 Series — OAW-AP534 and OAW-AP535 OAW-AP550 Series — OAW-AP535	AOS-W Instant 8.5.0.0 or later
OAW-AP303 Series — OAW-AP303P OAW-AP510 Series — OAW-AP514 and OAW-AP515	AOS-W Instant 8.4.0.0 or later
OAW-AP303 Series — OAW-AP303 OAW-AP318 Series — OAW-AP318 OAW-AP340 Series — OAW-AP344 and OAW-AP345 OAW-AP370 Series — OAW-AP374, OAW-AP375, and OAW-AP377	AOS-W Instant 8.3.0.0 or later
OAW-AP203H Series — OAW-AP203H	AOS-W Instant 6.5.3.0 or later
OAW-AP203R Series — OAW-AP203R and OAW-AP203RP OAW-AP360 Series — OAW-AP365 and OAW-AP367	AOS-W Instant 6.5.2.0 or later
OAW-AP207 Series — OAW-IAP207 OAW-AP300 Series — OAW-IAP304 and OAW-IAP305	AOS-W Instant 6.5.1.0-4.3.1.0 or later
OAW-AP310 Series — OAW-IAP314 and OAW-IAP315 OAW-AP330 Series — OAW-IAP334 and OAW-IAP335	AOS-W Instant 6.5.0.0-4.3.0.0 or later
OAW-AP320 Series — OAW-IAP324 and OAW-IAP325	AOS-W Instant 6.4.4.3-4.2.2.0 or later

This chapter provides information on the Alcatel-Lucent products that are not supported for a particular release.

AOS-W Instant 8.10.x.x is the last release that supports the following AP platforms:

- OAW-AP203H Series
- OAW-AP203R Series
- OAW-AP207 Series
- OAW-AP320 Series
- OAW-AP330 Series
- OAW-AP340 Series
- OAW-AP387

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 OAW-IAP Command Line Interface (CLI) and execute the **show ap allowed-channels** command.

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 myportal.al-enterprise.com.

The following DRT file version is part of this release:

- DRT-1.0_88954

The following issues are resolved in this release.

Table 4: Resolved Issues in AOS-W Instant 8.10.0.10

Bug ID	Description	Reported Version
AOS-231258 AOS-249677	Some access points became unresponsive due to random spikes in port utilization, resulting in client connectivity issues. The issue was related to excessive multicast traffic being received. The fix ensures APs work as expected. This issue was observed in OAW-AP535 access points running AOS-W Instant 8.10.0.8 or later versions.	AOS-W Instant 8.10.0.8
AOS-237888	The SNMP engine boot ID value did not update when the AP rebooted. The fix ensures the SNMP process works as expected. This issue was observed in APs running AOS-W Instant 8.10.0.3 or later versions.	AOS-W Instant 8.10.0.3
AOS-245621	OAW-IAPs did not switch channels nor avoided interference, causing performance issues and network drops. The fix ensures that the APs switch channels when interference is detected in channels other than the main channel. This issue was observed in APs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-246408	The aiRadioChannel parameter of the MIB node did not include details about the 40 MHz, 80 MHz, and 160 MHz channels. The fix ensures that the information appears as expected. This issue was observed in APs running AOS-W Instant 8.6.0.2 or later versions.	AOS-W Instant 8.6.0.2
AOS-246735 AOS-246633 AOS-247461	Some access points crashed with reason BadAddr:ffffffc133b1e424 PC:memcmp+0xd0/0x1c0 Warm-reset . The fix ensures Instant APs work as expected. This issue was observed in OAW-AP515 and OAW-AP575 access points running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-247394	While running the show auth-survivability cache-info command, the username displayed random characters for strings longer than 16 characters. The fix ensures that usernames are displayed correctly. This issue was observed in OAW-IAPs running AOS-W Instant 6.5.4.0 or later versions.	AOS-W Instant 6.5.4.0
AOS-247565	OAW-AP535 access points were unable to connect to some management pages and IP addresses of cameras that were connected to it. The fix ensures the AP works as expected. This issue is observed in OAW-AP535 access points running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-247778	Some OAW-IAPs failed in the re-enrollment process with an EST-configured CCPM server running version 6.11. Re-enrolling failed even when a username and password were configured in the EST profile. The fix ensures that re-enrollment with EST CPPM servers works as expected. The issue was observed in APs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0

Table 4: Resolved Issues in AOS-W Instant 8.10.0.10

Bug ID	Description	Reported Version
AOS-248026 AOS-248088 AOS-248126	Some OAW-IAP314 and OAW-IAP315 access points appeared as unsynchronised under Devices > Access Points > Config Status in Central???. The APs did not recover from unsynchronized state by rebooting or using resync config . The fix ensures the status of the APs is displayed correctly. This issue was observed in APs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-248076	The output of XML API queries displayed truncated AP names for OAW-IAPs when the name exceeded 31 characters. The fix ensures that the output of XML API queries displays the AP names correctly. This issue was observed in APs running AOS-W Instant 8.6.0.0 or later versions.	AOS-W Instant 8.10.0.7
AOS-248170	Some OAW-IAPs were incorrectly assigned to be the virtual controllers in a cluster. The fix ensures there is no dual virtual controllers. This issue was observed in APs running AOS-W Instant 8.10.0.6 or later versions.	AOS-W Instant 8.10.0.6
AOS-248422	The output of the show est status command incorrectly displayed EST Status :Enabled when an OAW-IAP failed EST re-enrollment. The fix ensures that the output displays correct status when the AP fails re-enrollment. This issue was observed in APs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-248443	EST re-enrollment failed on some OAW-IAPs when the EST key type was set to 4096-bit RSA . This issue occurred when the 4096-bit RSA key took a long time to generate. The fix ensures that EST re-enrollment is successful when the EST key type is set to 4096-bit RSA . This issue was observed in APs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-249004	The Cellular Status and USB Modem Information tables were missing from the output of the show cellular status command. The fix ensures that the output includes the Cellular Status and USB Modem Information tables. This issue was observed in OAW-IAPs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.11.2.0

This chapter describes the known issues and limitations observed in this release.

Limitations

This section describes the limitations in AOS-W Instant 8.10.0.10.

OAW-AP635 and OAW-AP655 Access Points

OAW-AP635 and OAW-AP655 access points have the following limitations:

- All radios for OAW-AP635 and OAW-AP655 access points currently do not support spectrum analysis.
- Hotspot and Air Slice configuration is not supported on the 6 GHz radio.
- 802.11mc responder and initiator functionality is not supported on any radio.
- Users can configure only up to 4 VAPs on the 6 GHz radio, instead of 16 VAPs.
- A maximum of 512 clients can be associated on any radio instead of 1024.

Air Slice

Air Slice is partially enabled on OAW-AP500 Series and OAW-AP510 Series access points. However, WMM boost will be functional even if Air Slice high-priority queuing is disabled.

Airtime Fairness Mode

Airtime Fairness Mode is not supported in 802.11ax access points.

AP Hostname Character Limit Extension

The number of ASCII characters allowed in the OAW-IAP hostname is increased from 32 to 128 characters. The following configuration settings do not support the new limit of 128 ASCII characters in AOS-W Instant 8.8.0.0 and later versions:

- The AP Name field in Role Derivation or VLAN Derivation.
- The AP Name field in beacon and probe response frames.
- The AP Name field in the **show ap mesh link** and **ap mesh neighbor** commands.

Dynamic Multicast Optimization Unsupported with VLAN Derivation

AOS-W Instant does not support Dynamic Multicast Optimization when the SSID is configured with VLAN derivation.

Inbound Firewall

The **apip-all** configuration is not supported by the **inbound-firewall** command in OAW-IAP cluster deployments. It is only supported in standalone or single-AP modes of deployment.

Unified Communications Manager

UCM does not prioritize NAT traffic.

Known Issues

Following are the known issues observed in this release.

Table 5: *Known Issues in AOS-W Instant 8.10.0.10*

Bug ID	Description	Reported Version
AOS-195769	<p>In some OAW-IAPs set up with dynamic VLAN assignment, ARP or GARP traffic is unexpectedly sent to wireless clients, even if they are connected to a different VLAN and VAP. This issue is observed in the following scenarios:</p> <ul style="list-style-type: none">▪ When the broadcast packets from VLAN 1 and all of the clients on the SSID are on VLAN 2, the packets are sent to all VAPs belonging to the same SSID.▪ When the SSID has two VAPs that belong to the same VLAN, but only one VAP has clients on that VLAN, the traffic is forwarded to both VAPs.▪ When all of the VAPs of a given SSID have clients on different VLANs, the packets are broadcasted to all VLANs. <p>This issue is observed in OAW-IAPs running AOS-W Instant 8.6.0.0 or later versions.</p>	AOS-W Instant 8.6.0.0
AOS-220890	<p>MPSK-Local SSID is broadcasted as Open SSID in OAW-IAPs running AOS-W Instant versions lower than 8.7.0.0. This issue is observed in APs running AOS-W Instant 8.6.0.8 or later versions.</p>	AOS-W Instant 8.6.0.8
AOS-225601 AOS-224170	<p>Some member APs in a cluster appear as down in the OmniVista 3600 Air Manager UI. This issue is observed in OmniVista 3600 Air Manager-managed APs running AOS-W Instant 8.6.0.0 or later versions.</p>	AOS-W Instant 8.6.0.0
AOS-228967	<p>The SSID is unable to configure the Station Ageout Time to a value over 3600 seconds. This issue is observed in APs running AOS-W Instant 8.7.1.4 or later versions.</p>	AOS-W Instant 8.6.0.8
AOS-231019 AOS-230843 AOS-240061 AOS-232063	<p>Some APs fail to reconnect after an LTE outage. Also, the output of the show cell status command is missing information. This issue is observed in OAW-AP505H access points running AOS-W Instant 8.7.1.7 or later versions.</p>	AOS-W Instant 8.7.1.7
AOS-231129	<p>AOS-W Instant APs do not send the cold and warm SNMP traps when expected. This issue is observed in APs running AOS-W Instant 8.0.0.0 or later versions.</p>	AOS-W Instant 8.6.0.8
AOS-232833	<p>Member APs ignore the proxy configuration when trying to download firmware with the image URL provided by the virtual controller. This issue is observed in APs running AOS-W Instant 8.9.0.0 or later versions.</p>	AOS-W Instant 8.9.0.0

Table 5: Known Issues in AOS-W Instant 8.10.0.10

Bug ID	Description	Reported Version
AOS-233215	If the TACACS server name contains a space, the OAW-IAP does not save the TACACS server configuration after assigning the TACACS server as the management authentication server. The AP automatically removes the configuration when the client attempts to save the information. This issue is observed in APs running AOS-W Instant 8.9.0.3 or later versions.	AOS-W Instant 8.9.0.3
AOS-233784	When a user connects to the Captive Portal SSID in one accounting session, the RADIUS Acct-Multi-Session-Id changes. This issue is observed in APs running AOS-W Instant 8.9.0.2 or later versions.	AOS-W Instant 8.9.0.2
AOS-234828	An OAW-IAP in a cluster reboots automatically. The log file lists the reason for reboot as: Critical process /aruba/bin/stm [pid 26061] DIED, process marked as RESTART . This issue is observed in APs running AOS-W Instant 8.9.0.3 or later versions.	AOS-W Instant 8.9.0.3
AOS-235164 AOS-233149	The AOS-W Instant AP log generates multiple xhci-hcd xhci-hcd.0.auto: Ring expansion failed: ep_state 3; ring_type 2; trbs 1, free 1; id 0 messages when connected to USB LTE modems. This issue is observed in APs running AOS-W Instant 8.7.1.9 or later versions.	AOS-W Instant 8.7.1.9
AOS-235428	AOS-W Instant APs in a cluster intermittently disconnect from the VPN and Central???. The output of the show ap debug cloud-server command returns the error message: Master failover , despite the conductor being stable. This issue is observed in APs running AOS-W Instant 8.6.0.17 or later versions.	AOS-W Instant 8.6.0.17
AOS-237822	VLAN pooling does not function as expected when configured on a user role. This issue is observed in Central???-managed AOS-W Instant APs running AOS-W Instant 8.9.0.3 or later versions.	AOS-W Instant 8.9.0.3
AOS-238137	The traceroute command returns the following error message: Can't find tsgw src ip . This issue occurs when the AOS-W Instant AP has multiple routing entries in the routing profile. This issue is observed in APs running AOS-W Instant 8.10.0.3 or later versions.	AOS-W Instant 8.10.0.3
AOS-239368	OAW-IAPs in a cluster do not retain the configured CPPM username and password. This issue occurs when the APs are rebooted while the password exceeds 23 characters. This issue is observed in APs running AOS-W Instant 8.9.0.2 or later versions.	AOS-W Instant 8.9.0.2
AOS-239411	OAW-IAPs do not accept the serial number of the device as the default password after a factory reset. This issue occurs when the AP is reset using the factory reset command in AP boot mode. This issue is observed in APs running AOS-W Instant 8.9.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-239419 AOS-238100	The eth0 link of an OAW-IAP appears offline in the OmniVista 3600 Air Manager UI. This issue is observed in OmniVista 3600 Air Manager-managed APs running AOS-W Instant 8.6.0.18 or later versions.	AOS-W Instant 8.6.0.18
AOS-241316	The output of the show ap debug lldp command displays incorrect information when executed. This issue is observed in APs running AOS-W Instant 8.6.0.0 or later versions.	AOS-W Instant 8.6.0.20

Table 5: *Known Issues in AOS-W Instant 8.10.0.10*

Bug ID	Description	Reported Version
AOS-249437 AOS-250853	Mesh point OAW-IAPs fail to update the channel bandwidth to the configured value. This issue occurs when no 80mhz-support is configured under the ARM profile. This issue is observed in APs running AOS-W Instant 8.10.0.0 or later versions.	AOS-W Instant 8.11.2.1
AOS-250160 AOS-250315	The Non-DTLS Members parameter changes to Deny on the Configuration > System page when the WebUI is refreshed. However, the output of the show cluster-security command indicates that the Non-DTLS Members parameter is set to Allow . This issue is observed in APs running AOS-W Instant 8.10.0.1 or later versions.	AOS-W Instant 8.10.0.4

This chapter describes the AOS-W Instant software upgrade procedures and the different methods for upgrading the image on the OAW-IAP.



While upgrading an OAW-IAP, you can use the image check feature to allow the OAW-IAP to find new software image versions available on a cloud-based image server hosted and maintained by Alcatel-Lucent. The location of the image server is fixed and cannot be changed by the user. The image server is loaded with the latest versions of the AOS-W Instant software.

Topics in this chapter include:

- [Upgrading an OAW-IAP Using OmniVista 3600 Air Manager Management Platform on page 17](#)
- [Upgrading an OAW-IAP Image Manually Using the WebUI on page 18](#)
- [Upgrading an OAW-IAP Image Manually Using CLI on page 19](#)
- [Upgrade from AOS-W Instant 6.4.x.x-4.2.x.x to AOS-W Instant 8.10.0.x on page 20](#)

Upgrading an OAW-IAP Using OmniVista 3600 Air Manager Management Platform

If the multi-class OAW-IAP network is managed by OmniVista 3600 Air Manager, image upgrades can only be done through the OmniVista 3600 Air Manager WebUI. The OAW-IAP images for different classes must be uploaded on the AMP server. If new OAW-IAPs joining the network need to synchronize their software with the version running on the virtual Switch, and if the new OAW-IAP belongs to a different class, the image file for the new OAW-IAP is provided by OmniVista 3600 Air Manager. If OmniVista 3600 Air Manager does not have the appropriate image file, the new OAW-IAP will not be able to join the network.



The virtual Switch communicates with the OmniVista 3600 Air Manager server if OmniVista 3600 Air Manager is configured. If OmniVista 3600 Air Manager is not configured on the OAW-IAP, the image is requested from the Image server.

HTTP Proxy Support through Zero Touch Provisioning

OAW-IAPs experience issues when connecting to OmniVista 3600 Air Manager, or Activate through the HTTP proxy server which requires a user name and password. The ideal way to provide seamless connectivity for these cloud platforms is to supply the proxy information to the OAW-IAP through a DHCP server.

Starting with AOS-W Instant 8.4.0.0, besides being able to authenticate to the HTTP proxy server, the factory default OAW-IAPs can also communicate with the server through a HTTP proxy server DHCP which does not require authentication.

In order for the factory default OAW-IAP to automatically discover the proxy server, you need to configure the HTTP proxy information in the DHCP server option. The OAW-IAP will receive the proxy information and store it in a temporary file.

To retrieve the port and the proxy server information, you need to first configure the DHCP **option 60** to **ArubaInstantAP** as shown below:

```
(Instant AP) (config)# ip dhcp <profile_name>
(Instant AP) ("IP DHCP profile-name")# option 60 ArubaInstantAP
```

Secondly, use the following command to configure the proxy server:

```
(Instant AP) (config)# proxy server <host> <port> [<username> <password>]
```

Use the text string **option 148 text server=host_ip,port=PORT,username=USERNAME,password=PASSWORD** to retrieve the details of the proxy server.

Rolling Upgrade on OAW-IAPs with OmniVista 3600 Air Manager

Starting from AOS-W Instant 8.4.0.0, Rolling Upgrade for OAW-IAPs in standalone mode is supported with OmniVista 3600 Air Manager. The upgrade is orchestrated through NMS and allows the OAW-IAPs deployed in standalone mode to be sequentially upgraded such that the APs upgrade and reboot one at a time. With Rolling Upgrade, the impact of upgrading a site is reduced to a single AP at any given point in time. This enhances the overall availability of the wireless network. For more information, see *OmniVista 3600 Air Manager 8.2.8.2 AOS-W Instant Deployment Guide* and *OmniVista 3600 Air Manager 8.2.8.2 Release Notes*.

Upgrading an OAW-IAP Image Manually Using the WebUI

You can manually obtain an image file from a local file system or from a remote server accessed using a TFTP, FTP or HTTP URL.

The following procedure describes how to manually check for a new firmware image version and obtain an image file using the webUI:

1. Navigate to **Maintenance > Firmware**.
2. Expand **Manual** section.
3. The firmware can be upgraded using a downloaded image file or a URL of an image file.
 - a. To update firmware using a downloaded image file:
 - i. Select the **Image file** option. This method is only available for single-class OAW-IAPs.
 - ii. Click on **Browse** and select the image file from your local system. The following table describes the supported image file format for different OAW-IAP models:

Access Points	Image File Format
OAW-AP344, OAW-AP345, OAW-AP514, OAW-AP515, OAW-AP518, OAW-AP574, OAW-AP575, OAW-AP575EX, OAW-AP577, and OAW-AP577EX	Alcatel Instant_Draco_8.10.0.x_xxxx
OAW-AP503H, OAW-AP504, OAW-AP505,	Alcatel Instant_Gemini_8.10.0.x_xxxx

Access Points	Image File Format
OAW-AP505H, OAW-AP565, and OAW-AP567.	
OAW-IAP314, OAW-IAP315, OAW-IAP324, OAW-IAP325, OAW-AP374, OAW-AP375, OAW-AP377, OAW-AP318, and OAW-AP387	Alcatel Instant_Hercules_8.10.0.x_xxxx
OAW-IAP334 and OAW-IAP335	Alcatel Instant_Lupus_8.10.0.x_xxxx
OAW-AP534, OAW-AP535, OAW-AP535, OAW-AP-584, OAW-AP585, OAW-AP585EX, OAW-AP587, OAW-AP587EX	Alcatel Instant_Scorpio_8.10.0.x_xxxx
OAW-AP303, OAW-AP303H, 303P Series, OAW-IAP304, OAW-IAP305, OAW-AP365, and OAW-AP367	Alcatel Instant_Ursa_8.10.0.x_xxxx
OAW-AP203H, OAW-AP203R, OAW-AP203RP, and OAW-IAP207	Alcatel Instant_Vela_8.10.0.x_xxxx

- b. To upgrade firmware using the URL of an image file:
 - i. Select the **Image URL** option to obtain an image file from a HTTP, TFTP, or FTP URL.
 - ii. Enter the image URL in the **URL** text field. The syntax to enter the URL is as follows:
 - HTTP - http://<IP-address>/<image-file>. For example, http://<IP-address>/Alcatel Instant_Hercules_8.10.0.x_xxxx
 - TFTP - tftp://<IP-address>/<image-file>. For example, tftp://<IP-address>/Alcatel Instant_Hercules_8.10.0.x_xxxx
 - FTP - ftp://<IP-address>/<image-file>. For example, ftp://<IP-address>/Alcatel Instant_Hercules_8.10.0.x_xxxx
 - FTP - ftp://<user name:password>@<IP-address>/<image-file>. For example, ftp://alcatel:123456@<IP-address>/AlcatelInstant_Hercules_8.10.0.x_xxxx



The FTP server supports both **anonymous** and **username:password** login methods.

Multiclass OAW-IAPs can be upgraded only in the URL format, not in the local image file format.

4. Disable the **Reboot all APs after upgrade** toggle switch if required. This option is enabled by default to allow the OAW-IAPs to reboot automatically after a successful upgrade. To reboot the OAW-IAP at a later time, clear the **Reboot all APs after upgrade** check box.
5. Click **Upgrade Now** to upgrade the OAW-IAP to the newer version.
6. Click **Save**.

Upgrading an OAW-IAP Image Manually Using CLI

The following procedure describes how to upgrade an image using a HTTP, TFTP, or FTP URL:

```
(Instant AP) # upgrade-image <ftp/tftp/http-URL>
```

The following is an example to upgrade an image by using the FTP URL :

```
(Instant AP)# upgrade-image ftp://192.0.2.7/AlcatelInstant_Hercules_8.10.0.x_xxxx
```

The following procedure describes how to upgrade an image without rebooting the OAW-IAP:

```
(Instant AP)# upgrade-image2-no-reboot <ftp/tftp/http-URL>
```

The following is an example to upgrade an image without rebooting the OAW-IAP:

```
(Instant AP)# upgrade-image2-no-reboot ftp://192.0.2.7/Alcatel Instant_Hercules_8.10.0.x_xxxx
```

The following command describes how to view the upgrade information:

```
(Instant AP)# show upgrade info
Image Upgrade Progress
-----
Mac IP Address AP Class Status Image Info Error Detail
-----
d8:c7:c8:c4:42:98 10.17.101.1 Hercules image-ok imagefile none
Auto reboot :enable
Use external URL :disable
```

Upgrade from AOS-W Instant 6.4.x.x-4.2.x.x to AOS-W Instant 8.10.0.x

Before you upgrade an OAW-IAP running AOS-W Instant 6.5.4.0 or earlier versions to AOS-W Instant 8.10.0.x, follow the procedures mentioned below:

1. Upgrade from AOS-W Instant 6.4.x.x-4.2.x.x or any version prior to AOS-W Instant 6.5.4.0 to AOS-W Instant 6.5.4.0.
2. Refer to the *Field Bulletin AP1804-1* at myportal.al-enterprise.com.
3. Verify the affected serial numbers of the OAW-IAP units.