

AOS-W Instant 8.10.0.2

Release Notes

Alcatel·Lucent 
Enterprise

Copyright Information

Alcatel-Lucent and the Alcatel-Lucent Enterprise logo are trademarks of Alcatel-Lucent. To view other trademarks used by affiliated companies of ALE Holding, visit:

<https://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. (2022)

Open Source Code

This product includes code licensed under the GNU General Public License, the GNU Lesser General Public License, and/or certain other open source licenses.

Contents	3
Revision History	4
Release Overview	5
Related Documents	5
Supported Browsers	5
Terminology Change	6
Contacting Support	6
What's New	7
Supported Hardware Platforms	8
End-of-Support	9
Regulatory Updates	10
Resolved Issues	11
Known Issues and Limitations	13
Limitations	13
Known Issues	13
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](#)
- [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:

- Microsoft Internet Explorer 11 on Windows 7 and Windows 8
- Microsoft Edge (Microsoft Edge 38.14393.0.0 and Microsoft EdgeHTML 14.14393) on Windows 10
- Mozilla Firefox 48 or later on Windows 7, Windows 8, Windows 10, and macOS
- Apple Safari 8.0 or later on macOS
- Google Chrome 67 or later on Windows 7, Windows 8, Windows 10, and macOS

Terminology Change

As part of advancing Alcatel-Lucent's commitment to racial justice, we are taking a much-needed step in overhauling Alcatel-Lucent 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 Alcatel-Lucent 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://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

There are no new features or enhancements introduced in this release.

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 Switch Command Line Interface (CLI) and execute the **show ap allowed-channels country-code <country-code> ap-type <ap-model>** 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_84233

The following issues are resolved in this release.

Table 4: Resolved Issues in AOS-W Instant 8.10.0.2

Bug ID	Description	Reported Version
AOS-227814 AOS-232336	Certain Windows clients and mobile devices were unable to connect to WPA3 SSID. This issue occurred due a handshake error. The fix ensures that the devices can connect to the WPA3 SSID as expected. This issue was observed in APs running AOS-W Instant 8.8.0.3 or later versions.	AOS-W Instant 8.8.0.3
AOS-231801	An OAW-IAP incorrectly returned a success message when an invalid custom beacon was configured using the ap ble-configure command. The fix ensures that the AP returns appropriate error messages when invalid custom beacons are configured. 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-231845	The IP address of a mesh point was incorrectly displayed as DHCP when the OAW-IAP was configured with a Static IP address. The fix ensures that the IP address is displayed correctly as Static or DHCP based on the actual configuration. This issue was observed in APs running AOS-W Instant 8.6.0.16 or later versions.	AOS-W Instant 8.6.0.16
AOS-232112	An OAW-IAP returned the following message: 503 Service Unavailable when using REST API. When this occurred, the client was unable to use REST API to retrieve information from the AP. The fix ensures that the REST API functions as expected. This issue was observed in APs running AOS-W Instant 8.6.0.6 or later versions.	AOS-W Instant 8.6.0.6
AOS-232501	The client was unable to discover Airtame servers. The server was dropped from the response to the user query because: <ul style="list-style-type: none"> ▪ The user role was missing. ▪ The role based CPPM policy was not present. The fix ensures that available Airtame servers are visible. This issue was observed in APs running AOS-W Instant 8.6.0.16 or later versions.	AOS-W Instant 8.6.0.16
AOS-232510	The client was unable to access OAW-AP505 access points through the webUI. This issue occurred when: <ul style="list-style-type: none"> ▪ The OAW-IAP was configured with a static IP address. ▪ Wi-Fi uplink was enabled. The fix ensures that the APs can be accessed. This issue was observed in APs running AOS-W Instant 8.9.0.2 or later versions.	AOS-W Instant 8.9.0.2
AOS-232757	A BLE southbound API connection was terminated when the characteristic discovery was interrupted. The fix ensures that the BLE southbound API connection is not interrupted. This 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 8.10.0.2

Bug ID	Description	Reported Version
AOS-232892	The apb_mac field was not available in the northbound action result messages. The fix ensures that the apb_mac field is available in the northbound action result messages. 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-233264	The configured bandwidth contract of an OAW-IAP did not function as expected. This issue occurred when: <ul style="list-style-type: none">▪ The upstream per-user rule or not-per-user rule was configured under a user role.▪ The user role was routed into a VPN tunnel. The fix ensures that the bandwidth contract functions as configured. This issue was observed in APs running AOS-W Instant 8.6.0.16 or later versions.	AOS-W Instant 8.6.0.16
AOS-233372	Without an active Ethernet uplink at boot time, the DHCP server failed to start with the correct interface. The server also did not issue IPv4 or IPv6 addresses in the guest or DHCP scope defined VLANs. The fix ensures that: <ul style="list-style-type: none">▪ The server process starts correctly regardless of the Ethernet uplink status.▪ The server issues IPv4 and IPv6 addresses properly according to configuration. This issue was observed in APs running AOS-W Instant 8.8.0.0 or later versions.	AOS-W Instant 8.10.0.0
AOS-233773	Solium USB dongles failed to load with OAW-AP635 access points running AOS-W Instant 8.10.0.0 or later versions. Enhancements to the wireless driver resolved the issue.	AOS-W Instant 8.10.0.0

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

Limitations

This section describes the limitations in AOS-W Instant 8.10.0.2.

OAW-AP635 and OAW-AP655 Access Points

OAW-AP635 and OAW-AP655 access points do not support Wi-Fi uplink on the 6 GHz radio channel.

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:

- 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 8.10.0.2

Bug ID	Description	Reported Version
AOS-204171	<p>Clients intermittently experience high latency when the AP is connected to the backup Switch after a failover event. This issue occurs in the following scenarios:</p> <ul style="list-style-type: none"> ▪ The AP attempts to re-connect to the primary Switch. ▪ Fast failover is enabled on the AP. <p>This issue is observed in OAW-AP203R Series access points running AOS-W Instant 8.3.0.0 or later versions.</p>	AOS-W Instant 8.3.0.0
AOS-214836 AOS-223454	<p>Clients authenticating using a RADIUS server experience delay in the authentication process and sometimes require multiple retries before a successful authentication. This issue occurs when a proxy server is between the AP and the CPPM server. This issue is observed in APs running AOS-W Instant 8.6.0.5 or later versions.</p>	AOS-W Instant 8.6.0.5
AOS-215807	<p>Some OAW-IAPs and Intel Centrino N-6235 clients are unable to connect to the network. This issue occurs because 802.11h radio configuration is advertised though it is not configured on the OAW-IAP. This issue is observed in OAW-AP515 access points running AOS-W Instant 8.5.0.0 or later versions.</p>	AOS-W Instant 8.7.1.0
AOS-218704 AOS-220857	<p>Some VoIP calls are not sent to the server to be recorded. This issue occurs when:</p> <ul style="list-style-type: none"> ▪ The server recording the calls is behind the Switch. ▪ Some APs in the cluster are rebooted. <p>This issue is observed in APs running AOS-W Instant 8.6.0.4 or later versions.</p>	AOS-W Instant 8.6.0.4
AOS-219784	<p>An OAW-IAP randomly transmits beacons in the wrong channel. 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-220079 AOS-220311	<p>Clients are not redirected to the Captive Portal page when the network is configured with role based Captive Portal. Instead they are redirected to a page that displays the error message: Err_too_many_re-directs. This issue is observed in APs running AOS-W Instant 8.8.0.0.</p>	AOS-W Instant 8.8.0.0
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-224170 AOS-225601	<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-226584	<p>Wi-Fi 6 clients connected to a OAW-AP500 Series access point experience slow download speeds. This issue occurs when 802.11r option is enabled on the SSID. This issue is observed in OAW-AP500 Series APs running AOS-W Instant 8.6.0.9 or later versions.</p>	AOS-W Instant 8.6.0.9
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 8.7.1.4

Table 5: Known Issues in AOS-W Instant 8.10.0.2

Bug ID	Description	Reported Version
AOS-230232	An OAW-IAP is unable to capture data frames from HE clients on non-DFS channels when using the pcap start command. This issue is observed in OAW-AP535 access points running 8.9.0.1 or later versions.	AOS-W Instant 8.9.0.1
AOS-230900 AOS-231081 AOS-231941	OAW-IAPs operating as the Virtual Switch crash and reboot unexpectedly. The log file lists the reason for reboot as: Reboot caused by kernel panic: Take care of the TARGET ASSERT first. This issue is observed in OAW-AP530 Series and OAW-AP550 Series access points running AOS-W Instant 8.6.0.0 or later versions.	AOS-W Instant 8.7.1.7
AOS-231569	The VPN Switch is missing from the Topology page, despite the OAW-IAP forming a VPN connection with the Switch. This issue is observed in APs running AOS-W Instant 8.9.0.0 or later versions.	AOS-W Instant 8.9.0.0
AOS-232748	Some OAW-IAPs in a cluster crash unexpectedly. The log file lists the reason for reboot as: Kernel panic - not syncing: MemLeak: mem low for 60 seconds, under 6% 597 times, MB free 6 (1%), total 465. 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-232833	Member APs ignore the proxy configuration when trying to download firmware with the image URL provided by the Virtual Switch. This issue is observed in APs running AOS-W Instant 8.9.0.0 or later versions.	AOS-W Instant 8.9.0.0
AOS-232843	An OAW-IAP fails to translate the source IP address of its clients for outgoing traffic. This issue occurs: <ul style="list-style-type: none"> ▪ with clients connected to the conductor AP. ▪ when the Client IP assignment is set to Virtual Switch managed. ▪ when the conductor OAW-IAP is configured with a static IP address. 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-233057	Cisco phones encounter a one way audio issue. This issue occurs when: <ul style="list-style-type: none"> ▪ An OAW-IAP is upgraded to AOS-W Instant 8.9.0.2. ▪ The VPN tunnel is terminated to a Switch. 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-233215	If the TACACS server name contains space, the OAW-IAP does not save the TACACS server configuration after assigning the TACACS server as the management auth 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-233426	Although internal Captive Portal is configured on the SSID, clients are unable to open to the Captive Portal page. This issue occurs when the OAW-IAP does not spoof DNS requests and responds to the user query. This issue occurs only in Centralized, L2 DHCP mode and when VRRP or HSRP is deployed in the client gateway in datacenter. This issue is observed in APs running AOS-W Instant 8.6.0.14 or later versions.	AOS-W Instant 8.6.0.14

Table 5: *Known Issues in AOS-W Instant 8.10.0.2*

Bug ID	Description	Reported Version
AOS-234448	An OAW-IAP sends DNS queries to the DHCP-learned DNS server IP address instead of the configured VC DNS IP address. This issue is observed in APs running AOS-W Instant 8.8.0.0 or later versions.	AOS-W Instant 8.8.0.2
AOS-234556	Multiple OAW-IAPs crash unexpectedly due to an SPU memory issue. The log file lists the reason for reboot as: Kernel panic - not syncing: Fatal exception . This issue is observed in APs running AOS-W Instant 8.8.0.0 or later versions.	AOS-W Instant 8.10.0.0

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.