

HPE Aruba Networking Instant Operating System 8.12.0.4 Release Notes



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Revision History

The following table provides the revision history of this document.

Table 1: *Revision History*

Revision	Change Description
Revision 01	Initial release.

This Instant AOS-8 release notes includes the following topics:

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

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

Related Documents

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

- *Aruba AP Software Quick Start Guide*
- *Instant AOS-8 User Guide*
- *Instant AOS-8 CLI Reference Guide*
- *Instant AOS-8 REST API Guide*
- *Instant AOS-8 Syslog Messages Reference Guide*
- *Aruba Instant AP Troubleshooting Guide*

Supported Browsers

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

Web Browser	Operating System
Microsoft Edge (Microsoft Edge 92.0.902.62 and Microsoft EdgeHTML 18.19041) or later	■ Windows 10 or later ■ macOS
Firefox 107.0.1 or later	■ Windows 10 or later ■ macOS
Apple Safari 15.4 (17613.1.17.1.13) or later	■ macOS
Google Chrome 108.0.5359.71 or later	■ 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, Aruba 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*

Main Site	arubanetworks.com
Support Site	networkingsupport.hpe.com
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephone	arubanetworks.com/support-services/contact-support
Software Licensing Site	lms.arubanetworks.com
End-of-life Information	arubanetworks.com/support-services/end-of-life
Security Incident Response Team	Site: arubanetworks.com/support-services/security-bulletins Email: aruba-sirt@hpe.com

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

New Features and Enhancements

Larger Tech Support Logs

Instant AOS-8.12.0.4 improves the byte length of tech support logs.

Certificate Handling Process

Instant AOS-8.12.0.4 improves the certificate handling process by searching the Subject Alternate Name (SAN) field to encode the FQDN when there is no Common Name (CN) included in the certificate.

Supported Platforms in Instant AOS-8.x

This section displays the supported platforms in Instant AOS-8.x. The **minimum version supported** column displays the minimum Instant AOS-8.x version that can be run on a platform. The **latest version supported** column displays the newest Instant AOS-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.

Access Point Platforms

Access Points			Instant AOS-8 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
	650 Series	AP-655	8.10.0.x	8.12.0.x
		AP-654	8.11.2.x	8.12.0.x
	630 Series	AP-635	8.9.0.x	8.12.0.x
		AP-634	8.11.2.x	8.12.0.x
	610 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			Instant AOS-8 Versions Supported	
AP Family	AP Series	AP Model	Minimum	Latest
5xx	580 Series	AP-584, AP-585, AP-585EX, AP-587, AP-587EX	8.10.0.x	8.12.0.x
	570 Series	AP-574, AP-575, AP-577	8.7.0.x	8.12.0.x
	560 Series	AP-565, AP-567	8.7.1.x	8.12.0.x
	550 Series	AP-555	8.5.0.x	8.12.0.x
	530 Series	AP-534, AP-535	8.5.0.x	8.12.0.x
	510 Series	AP-518	8.7.0.x	8.12.0.x
		AP-514, AP-515	8.4.0.x	8.12.0.x
	500 Series	AP-504, AP-505	8.6.0.x	8.12.0.x
		AP-505H	8.7.0.x	8.12.0.x
		AP-503H	8.7.1.x	8.12.0.x
		AP-503	8.11.1.x	8.12.0.x

Access Points			Instant AOS-8 Versions Supported	
AP Family	AP Series	AP Model	Minimum	Latest
3xx	380 Series	AP-387	8.4.0.x	8.10.0.x
	370 Series	AP-374, AP-375, AP-377, AP-375EX, AP-377EX, AP-375ATEX	8.3.0.x	8.12.0.x
	360 Series	AP-365, AP-367	8.3.0.x	8.12.0.x
	340 Series	AP-344, AP-345	8.3.0.x	8.10.0.x
	330 Series	AP-334, AP-335	8.1.0.x	8.10.0.x
	320 Series	AP-324, AP-325	8.0.0.x	8.10.0.x
	310 Series	AP-318	8.3.0.x	8.12.0.x
		AP-314, AP-315	8.1.0.x	8.12.0.x
	300 Series	AP-304, AP-305	8.1.0.x	8.12.0.x
		AP-303H, AP-303HR	8.2.0.x	8.12.0.x
		AP-303P	8.4.0.x	8.12.0.x
		AP-303	8.3.0.x	8.12.0.x
2xx	270 Series	AP-274, AP-275, AP-277	8.0.0.x	8.6.0.x
	220 Series	AP-224, AP-225, AP-228	8.0.0.x	8.6.0.x
	210 Series	AP-214, AP-215	8.0.0.x	8.6.0.x
	200 Series	AP-207	8.1.0.x	8.6.0.x
		AP-203H, AP-203R, AP-203RP	8.2.0.x	8.10.0.x

Chapter 4

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 Instant AP 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 networkingsupport.hpe.com.

The following DRT file version is part of this release:

- DRT-1.0_91651

Chapter 5

Resolved Issues

The following issues are resolved in this release.

Table 3: *Resolved Issues in Instant 8.12.0.4*

Bug ID	Description	Reported Version
AOS-247307 AOS-261131 AOS-251985	Some AP-635 access points running Instant AOS-8.0.0.0 or later versions crashed unexpectedly. The log files listed the reason for the event as Reboot caused by kernel panic: Take care of the TARGET ASSERT . The fix ensures that the APs work as expected.	Instant AOS-8.0.0.0
AOS-256517 AOS-259387 AOS-259496 AOS-259507	Some access points crashed and rebooted unexpectedly. The log files listed the reason for the event as BUGSoftLockup: CPU#3 stuck for 23s! [kworker/3:1:224] PC: fp_arp_rcv+0x88/0x1228 [asap_mod] Warm-reset . The fix ensures that the access points work as expected. This issue was observed in AP-515 access points running Instant AOS-8.12.0.1 or later versions.	Instant AOS-8.12.0.1
AOS-256659	Some APs displayed an incorrect hostname when clients had IPv6 enabled, which in turn displayed incorrect information on Central. The fix ensures that the correct hostname is displayed. This issue was observed in APs running Instant AOS-8.0.0.0 or later versions.	Instant AOS-8.0.0.0
AOS-257056	Disabling the mesh portal caused mesh point ESSIDs to be unavailable. The fix ensures the mesh points work as expected. This issue was observed in APs running Instant AOS-8.10.0.13 or later versions.	Instant AOS-8.10.0.13
AOS-257698	Some access points crashed and rebooted unexpectedly. The log files listed the reason for the event as BUGSoftLockup: CPU#3 stuck for 23s! [kworker/3:2:17328] PC: ip_mcast_set_conv+0xb4/0x1e0 [asap_mod] Warm-reset . The fix ensures that the access points work as expected. This issue was observed in AP-515 access points running Instant AOS-8.12.0.1 or late versions.	Instant AOS-8.12.0.1
AOS-257872	Upgrading DRT via HTTPS failed due to DRT stuck download , which caused some APs to appear offline in the Central UI. The fix ensures APs will not be stuck in DRT downloading, maintaining AP connectivity and visibility in the Central UI. This issue was observed in APs running Instant AOS-8.10.0.12 or later versions.	Instant AOS-8.10.0.12
AOS-258287	Multiple false alerts were observed on access points after enabling IDS. The fix ensures that the alerts are genuine. This issue was observed in AP-635 access points running Instant AOS-8.10.0.0 or later versions.	Instant AOS-8.10.0.0
AOS-258365	Some AP-567 and AP-635 access points went offline unexpectedly. This issue occurred because the WiFi uplink configuration caused slow IP acquisition, which affected the swarm network with wired uplink. The fix ensures that the APs remain online as expected. This issue was observed on APs running Instant AOS-8.12.0.1 or later versions.	Instant AOS-8.12.0.1

Table 3: Resolved Issues in Instant 8.12.0.4

Bug ID	Description	Reported Version
AOS-258406	Wireless clients connected to APs were randomly assigned default_wired_port_profile role. This happened because different roles had the same index in the STM process. The fix ensures that the index values are unique for each role. This issue was observed in AP-515 access points running Instant AOS-8.10.0.0 or later versions.	Instant AOS-8.10.0.0
AOS-258740	Interworking and Access Network Query Protocol (ANQP) information elements were appended to all active 2.4 GHz and 5 GHz VAPs when a 6 GHz VAP was active. The fix ensures each radio band has its independent configurations. This issue was observed in APs running Instant AOS-8.9.0.0 or later versions.	Instant AOS-8.9.0.0
AOS-258943	Webcc-URL-Prefix-record was not being updated nor reported to Central. This issue occurred because the datapath was not handling fragmented TLS Client Hello packets correctly. The fix ensures that the Webcc-URL-Prefix-record is updated successfully. This issue was observed in APs running Instant AOS-8.10.0.0 or later versions.	Instant AOS-8.10.0.0
AOS-259401 AOS-260943 AOS-260631 AOS-262043	Some access points crashed and rebooted unexpectedly. The log files listed the reason for the event as Reboot caused by kernel panic: Fatal exception in interrupt . The issue occurred because of a crash in the AP datapath. The fix ensures access points work as expected. This issue was observed in 500 Series and 600 Series APs running Instant AOS-8.10.0.14 or later versions.	Instant AOS-8.10.0.14
AOS-259522 AOS-259506	Some access point crashed and rebooted unexpectedly. The log files listed the reason for the event as PC is at asap_users_in_vlan+0x130/0x818 [asap_mod] . The fix ensures access points work as expected. This issue was observed in AP-555 access points running Instant AOS-8.12.0.1 or later versions.	Instant AOS-8.12.0.1
AOS-259527	Some APs experienced Power Save DoS Attack alerts, which were suspected to be false. The fix ensures that the APs function as expected. This issue was observed in AP-635 access points running Instant AOS-8.12.0.0 or later versions.	Instant AOS-8.12.0.0
AOS-259710 AOS-260134	Several UCM crashes were observed on APs with UCC due to memory corruption issues. The fix ensures APs with UCC work as expected. This issue was observed in APs running Instant AOS-8.10.0.0 or later versions.	Instant AOS-8.10.0.0
AOS-260393	Some AirWave-managed APs did not display show command outputs. The command execution resulted in a No output for this command message. The fix ensures that APs display show command outputs even when managed by AirWave. This issue was observed in APs running Instant AOS-8.10.0.14 or later versions.	Instant AOS-8.10.0.14
AOS-260487	AP debug information about the LLDP displayed incorrect neighbor VLAN details. This issue was caused by APs being tagged to incorrect VLANs. The fix ensures that the AP debug information about LLDP displays correct information. This issue was observed on APs running Instant AOS-8.12.0.0 or later versions.	Instant AOS-8.12.0.0

Table 3: *Resolved Issues in Instant 8.12.0.4*

Bug ID	Description	Reported Version
AOS-260884 AOS-261200	Some virtual controllers generated core files frequently. This issue occurred because the dnsmasq process was crashing. The fix ensures that the virtual controllers work as expected. The issue was observed in APs running Instant AOS-8.10.0.14 or later versions.	Instant AOS-8.10.0.14
AOS-261284	Downloaded roles were not propagated from conductor APs to member APs in some scenarios, such as when member APs reloaded. The fix ensures that the download roles are propagated correctly to the member AP. This issue was observed on APs running Instant AOS-8.10.0.15 or later versions.	Instant AOS-8.10.0.15

Chapter 6

Known Issues and Limitations

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 Instant 8.12.0.4*

Bug ID	Description	Reported Version
AOS-249946 AOS-247154	Some APs crash and reboot unexpectedly due to a UCM segmentation issue, which affected different VoIP applications. This issue is observed in access points running Instant AOS-8.10.0.2 or later versions.	Instant AOS-8.10.0.2
AOS-250574 AOS-252921	A few AP-655 access points crash and reboot with an alert as Critical . The log file listed the reason for the reboot as Reboot after internal watchdog dump saved . This issue is observed in APs running Instant AOS-8.10.0.0 or later versions.	Instant AOS-8.10.0.7
AOS-260232 AOS-258711	In the show ap monitor rogue-ap <mac> command output, some APs fail to display a value for Match MAC , even though Match Eth MAC displays a value. The issue occurs because when dealing with the rogue classification of similar BSSID detection, a null value is assigned to Match Mac . This issue is observed in APs running Instant AOS-8.10.0.0 or later versions.	Instant AOS-8.10.0.0

Chapter 7

Upgrading an Instant AP

This chapter describes the Instant software upgrade procedures and the different methods for upgrading the image on the Instant AP.



While upgrading an Instant AP, you can use the image check feature to allow the Instant AP to find new software image versions available on a cloud-based image server hosted and maintained by Aruba. 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 Instant software.

Topics in this chapter include:

- [Upgrading an Instant AP and Image Server on page 16](#)
- [Upgrading an Instant AP Using the Automatic Image Check on page 18](#)
- [Upgrading to a New Version Manually Using the WebUI on page 18](#)
- [Upgrading an Instant AP Image Using CLI on page 20](#)
- [Upgrade from Instant 6.4.x.x-4.2.x.x to Instant 8.10.0.x on page 20](#)

Upgrading an Instant AP and Image Server

Instant supports mixed Instant AP class Instant deployment with all Instant APs as part of the same virtual controller cluster.

Image Management Using AirWave

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



The virtual controller communicates with the AirWave server if AirWave is configured. If AirWave is not configured on the Instant AP, the image is requested from the Image server.

Image Management Using Cloud Server

If the multi-class Instant AP network is not managed by AirWave, image upgrades can be done through the Cloud-Based Image Check feature. If a new Instant AP joining the network needs to synchronize its software version with the version on the virtual controller and if the new Instant AP belongs to a different class, the image file for the new Instant AP is provided by the cloud server.

Configuring HTTP Proxy on an Instant AP

If your network requires a proxy server for Internet access, ensure that you configure the HTTP proxy on the Instant AP to download the image from the cloud server. The **Username** and **Password**

configuration is supported only for cloud services. After setting up the HTTP proxy settings, the Instant AP connects to the Activate server, AMP, Central, OpenDNS, or web content classification server through a secure HTTP connection. The proxy server can also be configured and used for cloud services. You can also exempt certain applications from using the HTTP proxy (configured on an Instant AP) by providing their host name or IP address under exceptions.

The following procedure describes how to configure the HTTP proxy settings using the webUI:

1. Navigate to **Configuration > System > Proxy**.
2. Enter the HTTP proxy server IP address in the **Auth Server** text box.
3. Enter the port number in the **Port** text box.
4. If you want to set an authentication username and password for the proxy server, enable the **Proxy requires authentication** toggle switch.
5. Enter a username in the **Username** text box.
6. Enter a password in the **Password** text box.
7. If you do not want the HTTP proxy to be applied for a particular host, click **+** to enter that IP address or domain name of that host in the **Exceptions** section.
8. Click **Save**.

The following procedure describes how to configure the HTTP proxy settings using the CLI:

```
(Instant AP) (config)# proxy server 192.0.2.1 8080 example1 user123
(Instant AP) (config)# proxy exception 192.0.2.2
(Instant AP) (config)# end
(Instant AP)# commit apply
```

HTTP Proxy Support through Zero Touch Provisioning

Instant APs experience issues when connecting to AirWave, Central, 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 Instant AP through a DHCP server.

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

In order for the factory default Instant AP to automatically discover the proxy server, you need to configure the HTTP proxy information in the DHCP server option. The Instant AP 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 Instant APs with AirWave

Starting from Instant AOS-8.4.0.0, Rolling Upgrade for Instant APs in standalone mode is supported with AirWave. The upgrade is orchestrated through NMS and allows the Instant APs 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 *AirWave 8.2.8.2 Instant Deployment Guide* and *AirWave 8.2.8.2 Release Notes*.

Upgrading an Instant AP Using the Automatic Image Check

You can upgrade an Instant AP by using the Automatic Image Check feature. The automatic image checks are performed once, as soon as the Instant AP boots up and every week thereafter.

If the image check locates a new version of the Instant software on the image server, the New version available link is displayed on the Instant main window.



If AirWave is configured, the automatic image check is disabled.

The following procedure describes how to check for a new version on the image server in the cloud using the webUI:

1. Go to **Maintenance > Firmware**.
2. In the **Automatic** section, click **Check for New Version**. After the image check is completed, one of the following messages is displayed:
 - No new version available—If there is no new version available.
 - Image server timed out—Connection or session between the image server and the Instant AP is timed out.
 - Image server failure—If the image server does not respond.
 - A new image version found—If a new image version is found.
3. If a new version is found, the **Upgrade Now** button becomes available and the version number is displayed.
4. Click **Upgrade Now**.

The Instant AP downloads the image from the server, saves it to flash, and reboots. Depending on the progress and success of the upgrade, one of the following messages is displayed:

- Upgrading—While image upgrading is in progress.
- Upgrade successful—When the upgrade is successful.
- Upgrade failed—When the upgrade fails.

If the upgrade fails and an error message is displayed, retry upgrading the Instant AP.

Upgrading to a New Version Manually Using the WebUI

If the Automatic Image Check feature is disabled, 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 Instant APs.
 - ii. Click on **Browse** and select the image file from your local system. The following table describes the supported image file format for different Instant AP models:

Access Points	Image File Format
AP-635 and AP-655	Aruba Instant_Norma_8.10.0.x_xxxx
AP-344, AP-345, AP-514, AP-515, AP-518, AP-574, AP-575, AP-575EX, AP-577, and AP-577EX	Aruba Instant_Draco_8.10.0.x_xxxx
AP-503H, AP-504, AP-505, AP-505H, AP-565, and AP-567.	Aruba Instant_Gemini_8.10.0.x_xxxx
IAP-314, IAP-315, IAP-324, IAP-325, AP-374, AP-375, AP-377, AP-318, and AP-387	Aruba Instant_Hercules_8.10.0.x_xxxx
IAP-334 and IAP-335	Aruba Instant_Lupus_8.10.0.x_xxxx
AP-534, AP-535, AP-555, AP-584, AP-585, AP-585EX, AP-587, AP-587EX	Aruba Instant_Scorpio_8.10.0.x_xxxx
AP-303, AP-303H, 303P Series, IAP-304, IAP-305, AP-365, and AP-367	Aruba Instant_Ursa_8.10.0.x_xxxx
AP-203H, AP-203R, AP-203RP, and IAP-207	Aruba 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>/ArubaInstant_Hercules_8.10.0.x_xxxx
 - TFTP - tftp://<IP-address>/<image-file>. For example, tftp://<IP-address>/Aruba Instant_Hercules_8.10.0.x_xxxx
 - FTP - ftp://<IP-address>/<image-file>. For example, ftp://<IP-address>/Aruba Instant_Hercules_8.10.0.x_xxxx
 - FTP - ftp://<user name:password>@<IP-address>/<image-file>. For example, ftp://<aruba :123456>@<IP-address>/ArubaInstant_Hercules_8.10.0.x_xxxx



The FTP server supports both **anonymous** and **username:password** login methods. Multiclass Instant APs 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 Instant APs to reboot automatically after a successful upgrade. To reboot the Instant AP at a later time, clear the **Reboot all APs after upgrade** check box.
5. Click **Upgrade Now** to upgrade the Instant AP to the newer version.
6. Click **Save**.

Upgrading an Instant AP Image 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/ArubaInstant_Hercules_8.10.0.x_xxxx
```

The following procedure describes how to upgrade an image without rebooting the Instant AP:

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

The following is an example to upgrade an image without rebooting the Instant AP:

```
(Instant AP)# upgrade-image2-no-reboot ftp://192.0.2.7/Aruba 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 image file none
Auto reboot :enable
Use external URL :disable
```

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

Before you upgrade an Instant AP running Instant 6.5.4.0 or earlier versions to Instant 8.10.0.x, follow the procedures mentioned below:

1. Upgrade from Instant 6.4.x.x-4.2.x.x or any version prior to Instant 6.5.4.0 to Instant 6.5.4.0.
2. Refer to the *Field Bulletin AP1804-1* at asp.arubanetworks.com.
3. Verify the affected serial numbers of the Instant AP units.