



# Aruba Instant 8.11.2.2

## Release Notes

**aruba**

a Hewlett Packard  
Enterprise company

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The following table provides the revision history of this document.

**Table 1:** *Revision History*

Revision	Change Description
Revision 01	Initial release.

This Aruba Instant release notes includes the following topics:

- [What's New on page 8](#)
- [Supported Hardware Platforms on page 1](#)
- [Regulatory Updates on page 11](#)
- [Resolved Issues on page 12](#)
- [Known Issues and Limitations on page 14](#)
- [Upgrading an Instant AP on page 16](#)

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

## Important Upgrade Information for Clusters that Include 320 Series, 330 Series, 340 Series, and 387 Series Access Points

Starting from Aruba Instant 8.11.0.0, 320 Series, 330 Series, 340 Series, and 387 Series access points are no longer supported. However, the 320 Series, 340 Series, and 387 Series access points use the Hercules and Draco images, which are also used by AP platforms that have not been deprecated in this release. As such, these images are available for upgrading to Aruba Instant 8.11.0.0. Attempting to install Aruba Instant 8.11.x.x firmware on the aforementioned APs may cause these APs to disconnect themselves from the current cluster and form a new cluster running the software version available in their partition. Therefore, in addition to 330 Series access points, please ensure that any 320 Series, 340 Series, and 387 Series access points are removed from the cluster before upgrading it to Aruba Instant 8.11.x.x.

## Related Documents

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

- *Aruba AP Software Quick Start Guide*
- *Aruba Instant User Guide*
- *Aruba Instant CLI Reference Guide*
- *Aruba Instant REST API Guide*
- *Aruba Instant 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	<ul style="list-style-type: none"><li>▪ Windows 10 or later</li><li>▪ macOS</li></ul>
Firefox 107.0.1 or later	<ul style="list-style-type: none"><li>▪ Windows 10 or later</li><li>▪ macOS</li></ul>
Apple Safari 15.4 (17613.1.17.1.13) or later	<ul style="list-style-type: none"><li>▪ macOS</li></ul>
Google Chrome 108.0.5359.71 or later	<ul style="list-style-type: none"><li>▪ Windows 10 or later</li><li>▪ macOS</li></ul>

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

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.

#### **Enhancement to debug pkt dump for Enforce DHCP Violation**

The output for **debug pkt dump** includes information regarding packets drops that occur due to enforce DHCP violations.

#### **Enhancement to EST Profiles**

Instant APs now follow RFC 7030 when attempting to re-enroll EST certificates.

### **Behavioral Changes**

This release does not introduce any changes in Aruba Instant behaviors, resources, or support that would require you to modify the existing system configurations after updating to 8.11.2.2.



# Chapter 3

## Supported Hardware Platforms

The following table displays the Instant AP platforms supported in Aruba Instant 8.11.2.x release.

**Table 3:** *Supported Instant AP Platforms*

Instant AP Platform	Minimum Required Instant Software Version
630 Series — AP-634 650 Series — AP-654	Instant 8.11.2.0 or later
500 Series — AP-503	Instant 8.11.1.0 or later
610 Series — AP-615	Instant 8.11.0.0 or later
580 Series — AP-584, AP-585, and AP-587 580EX Series — AP-585EX and AP-587EX 650 Series — AP-655	Instant 8.10.0.0 or later
630 Series — AP-635	Instant 8.9.0.0 or later
500H Series — AP-503H 560 Series — AP-565 and AP-567	Instant 8.7.1.0 or later
500H Series — AP-505H 518 Series — AP-518 570 Series — AP-574, AP-575, and AP-577 570EX Series — AP-575EX and AP-577EX	Instant 8.7.0.0 or later
500 Series — AP-504 and AP-505	Instant 8.6.0.0 or later
530 Series — AP-534 and AP-535 550 Series — AP-555	Instant 8.5.0.0 or later
303 Series — AP-303P 510 Series — AP-514 and AP-515	Instant 8.4.0.0 or later
303 Series — AP-303 318 Series — AP-318 370 Series — AP-374, AP-375, and AP-377 370EX Series — AP-375EX and AP-375EX	Instant 8.3.0.0 or later
303H Series — AP-303H 360 Series — AP-365 and AP-367	Instant 6.5.2.0 or later
300 Series — IAP-304 and IAP-305	Instant 6.5.1.0-4.3.1.0 or later
310 Series — IAP-314 and IAP-315	Instant 6.5.0.0-4.3.0.0 or later

### Deprecated Instant APs

The following Instant APs are no longer supported from Aruba Instant 8.11.0.0 onwards:

- 203H Series — AP-203H
- 203R Series — AP-203R and AP-203RP
- 207 Series — IAP-207
- 320 Series — IAP-324 and IAP-325
- 330 Series — IAP-334 and IAP-335
- 340 Series — AP-344 and AP-345
- 387 Series — AP-387

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](http://networkingsupport.hpe.com).

The following DRT file version is part of this release:

- DRT-1.0\_89073

The following issues are resolved in this release.

**Table 4:** Resolved Issues in Instant 8.11.2.2

Bug ID	Description	Reported Version
AOS-225670 AOS-247530	Instant APs displayed incorrect <b>Role</b> information in the output of the <b>show clients</b> command. This issue occurred when the MPSK local key role was changed through the Central UI. The fix ensures the correct information is displayed in the command output. This issue was observed in Central-managed APs running Aruba Instant 8.6.0.0 or later versions.	Aruba Instant 8.10.0.0
AOS-234042	Some Instant APs in a cluster crash and reboot unexpectedly. The log file listed the reason for reboot as <b>Reboot Time and Cause: AP Reboot reason: Some Crash Warm-reset</b> . This issue is observed in AP-345 access points running ArubaOS 8.6.0.16 or later versions.	ArubaOS 8.6.0.16
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 Aruba Instant 8.10.0.3 or later versions.	Aruba Instant 8.10.0.3
AOS-240727	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 the DHCP server starts with the correct interface. This issue was observed in APs running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.11.0.1
AOS-244068	The containment feature did not function effectively for clients connected across various channels. The fix ensures the feature works as expected. This issue was observed in IAP-505 access points running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.10.0.0
AOS-247565	Wired clients connected to AP-535 access points were unable to access the management WebUI page of IP the camera that is wired to same AP. The fix ensures that PPE is disable for offload on APs to work as expected. This issue was observed in AP-535 access points running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.10.0.0
AOS-248026 AOS-248088 AOS-248126	Some IAP-314 and IAP-315 access points appeared as <b>unsynchronized</b> under the <b>Devices &gt; Access Points &gt; Config Status</b> page in Central UI. The APs did not recover from the <b>unsynchronized</b> state by rebooting or using the <b>resync config</b> command. The fix ensures the status of the APs is displayed correctly. This issue was observed in Central-managed APs running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.10.0.0
AOS-248170	Some Instant APs 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 Aruba Instant 8.10.0.6 or later versions.	Aruba Instant 8.10.0.6

**Table 4: Resolved Issues in Instant 8.11.2.2**

Bug ID	Description	Reported Version
AOS-248443	EST re-enrollment failed on some Instant APs when the EST key type was set to <b>4096-bit RSA</b> . This issue occurred when the <b>4096-bit RSA</b> key took a long time to generate. The fix ensures that EST re-enrollment is successful when the EST key type is set to <b>4096-bit RSA</b> . This issue was observed in APs running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.10.0.0
AOS-249004	The <b>Cellular Status</b> and <b>USB Modem Information</b> tables were missing from the output of the <b>show cellular status</b> command. The fix ensures that the output includes the <b>Cellular Status</b> and <b>USB Modem Information</b> tables. This issue was observed in Instant APs running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.11.2.0
AOS-249553	Instant APs sent CoA-NAK message with the following error code: <b>Session-Context-Not-Found(503)</b> . This issue occurred when the AVP username length was 32. The fix ensures that the APs function as expected. This issue was observed in Central-managed APs running Aruba Instant 8.6.0.0 or later versions.	Aruba Instant 8.10.0.0
AOS-249817	The AP BLE antenna was not able to scan. The issue occurred when the AP was broadcasting the SSID on Wi-Fi channel 11 or Wi-Fi channel 1. The fix ensures the AP works as expected. This issue was observed in AP-635 access points running Aruba Instant 8.11.2.0 or later versions.	Aruba Instant 8.11.2.0
AOS-250160 AOS-250315	The <b>Non-DTLS Members</b> parameter changed to <b>Deny</b> on the <b>Configuration &gt; System</b> page when the WebUI was refreshed. However, the output of the <b>show cluster-security</b> command indicated that the Non-DTLS Members parameter was set to <b>Allow</b> . The fix ensures the values match correctly. This issue was observed in APs running Aruba Instant 8.10.0.1 or later versions.	Aruba Instant 8.10.0.1
AOS-250362	Some Instant AP members failed to join the cluster after upgrading the software version. This issue occurred when the DRT download failed. The fix ensures the Instant AP works as expected. This issue was observed in Central-managed APs running Aruba Instant 8.10.0.0 or later versions.	Aruba Instant 8.10.0.0

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

## Limitations

This section describes the limitations in Aruba Instant 8.11.2.1.

### AP-615, AP-635, and AP-655 Access Points

The AP-615, AP-635, and AP-655 access points have the following limitations:

- All radios for these APs currently do not support spectrum analysis.
- 802.11mc responder and initiator functionality, Hotspot configuration, and Air Slice configuration are not supported on the 6 GHz radio.
- Users can configure only up to 4 VAPs on the 6 GHz radio, instead of 16 VAPs.

### AP-654 and AP-634 Access Points

For the current release of Aruba Instant, AP-654 and AP-634 access points do not support 6 GHz band operation. Support for 6 GHz will be enabled in a future software release, and will depend on the local regulatory status reflected in the DRT file.

### Air Slice

Air Slice is partially enabled on 500 Series and 510 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 Instant AP hostname is increased from 32 to 128 characters. The following configuration settings do not support the new limit of 128 ASCII characters in Instant 8.11.1.0:

- 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

Aruba 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 Instant AP 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 Instant 8.11.2.2*

Bug ID	Description	Reported Version
AOS-237965 AOS-237699	View-only users are unable to perform debug operations. This issue occurs when the user is able to log in while the Instant AP is in a degraded state. This issue is observed in APs running Aruba Instant 8.10.0.2 or later versions.	Aruba Instant 8.10.0.2
AOS-238369	The <b>Devices &gt; Access Points &gt; Overview &gt; RF</b> tab of Central UI displays 100% error for multiple Instant AP due to incorrect statistics. This issue is observed in Central-managed APs running Aruba Instant 8.6.0.17 or later versions.	Aruba Instant 8.6.0.17
AOS-242779	In some APs running Aruba Instant 8.10.0.6 or later versions, a <b>Check sum mismatch</b> error is displayed. The issue occurs when the MPSK key name includes a space.	Aruba Instant 8.10.0.6

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



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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.

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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 8.11.0.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.



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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.

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### 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 username 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 Aruba Instant 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 Aruba Instant 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.



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

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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-615	ArubaInstant_Leo_8.11.0.x_xxxx
AP-635 and AP-655	ArubaInstant_Norma_8.11.0.x_xxxx
AP-514, AP-515, AP-518, AP-574, AP-575, AP-575EX, AP-577, and AP-577EX	ArubaInstant_Draco_8.11.0.x_xxxx
AP-503H, AP-504, AP-505, AP-505H, AP-565, and AP-567.	ArubaInstant_Gemini_8.11.0.x_xxxx
IAP-314, IAP-315, AP-374, AP-375, AP-377, and AP-318.	ArubaInstant_Hercules_8.11.0.x_xxxx
AP-534, AP-535, AP-555, AP-584, AP-585, AP-585EX, AP-587, and AP-587EX	ArubaInstant_Scorpio_8.11.0.x_xxxx
AP-303, AP-303H, 303P Series, IAP-304, IAP-305, AP-365, and AP-367	ArubaInstant_Ursa_8.11.0.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\_8.11.0.x\_xxxx
    - TFTP - tftp://<IP-address>/<image-file>. For example, tftp://<IP-address>/Aruba Instant\_Hercules\_8.11.0.x\_xxxx
    - FTP - ftp://<IP-address>/<image-file>. For example, ftp://<IP-address>/Aruba Instant\_Hercules\_8.11.0.x\_xxxx
    - FTP - ftp://<user name:password>@<IP-address>/<image-file>. For example, ftp://<aruba :123456>@<IP-address>/ArubaInstant\_Hercules\_8.11.0.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_8.11.0.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_8.11.0.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 8.11.0.x

Before you upgrade an Instant AP running Instant 6.5.4.0 or earlier versions to Instant 8.11.0.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](http://asp.arubanetworks.com).
3. Verify the affected serial numbers of the Instant AP units.