

Aruba Instant 6.5.4.27



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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 Aruba Instant release notes includes the following topics:

- [What's New on page 8](#)
- [Regulatory Updates on page 9](#)
- [Resolved Issues on page 10](#)
- [Known Issues on page 12](#)
- [Upgrading an Instant AP on page 17](#)

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



For information regarding prior releases, refer to the corresponding Release Notes on asp.arubanetworks.com.

Supported Browsers

The following browsers are officially supported for use with the Aruba 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

Important Updates

DPI

Starting from Instant 6.5.0.0-4.3.0.0 onwards, DPI is not supported on IAP-103, RAP-108, and RAP-109 due to the existing memory limitations. The last release with full feature support for these platforms is Instant 6.4.x.x-4.2.x.x.

If you have deployed IAP-103, RAP-108, or RAP-109 and require DPI functionality, ensure that you remain on Instant 6.4.x.x-4.2.x.x or earlier versions. However, if you are willing to disable DPI functionality, upgrade to Instant 6.5.0.0-4.3.0.0 or later releases.

IP-Mode

The IP-mode default value changes to **v4 only** in the Instant 6.5.4.0 release version. This change in value causes a mismatch warning for AirWave and Central customers that use a template file for configuration. We recommend you to change the template file in AirWave and Central to fix this mismatch. AirWave and Central UI users, please upgrade your respective versions.



The mismatch occurs only if the release versions used before the upgrade are from Instant 6.5.2.0 to Instant 6.5.3.1. There will be no mismatch if the release version used before the upgrade is earlier than Instant 6.5.2.0 or later than Instant 6.5.3.1.

Contacting Support

Table 2: *Contact Information*

Main Site	arubanetworks.com
Support Site	https://asp.arubanetworks.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

New Features and Enhancements

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

This chapter describes the regulatory updates in Aruba Instant 6.5.x.



Contact your local Aruba sales representative about device availability and support for your country.

Periodic regulatory changes may require modifications to the list of channels supported by an Instant AP. For a complete list of channels supported by an Instant AP using a specific country domain, access the Instant AP CLI and execute the **show ap allowed-channels** command.

The following DRT file version is part of this release:

- DRT-1.0_88140

For a complete list of countries certified with different AP models, refer to the DRT Release Notes at asp.arubanetworks.com.



The FCC has changed the rules for operation in all of the 5 GHz bands. For more information, refer to the *FCC DFS Regulatory Change Impact and Resolution Plan - Support Advisory* available in asp.arubanetworks.com.

The following issues are resolved in this release.

Table 3: Resolved Issues in Instant 6.5.4.27

Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-240398	—	<p>Symptom: Wireless users did not receive IP addresses from the DHCP server when the software version of Aruba Instant APs was upgraded to Aruba Instant 8.6.0.19 or later versions. The fix ensures that users receive IP addresses from the server when the AP boots up.</p> <p>Scenario: This issue was observed in APs running Aruba Instant 6.5.4.24 or later versions.</p>	AppRF	All platforms	Aruba Instant 6.5.4.24
AOS-241313	115685	<p>Symptom: Zebra TC21 barcode scanners were unable to maintain a connection, and send traffic when connected to Instant APs with 802.11r Fast BSS Transition enabled. The fix ensures TC21 barcode scanners can successfully connect to Instant APs and pass traffic as intended.</p> <p>Scenario: This issue was observed in APs running Aruba Instant 6.5.4.0 or later versions.</p>	Station Management	All platforms	Aruba Instant 6.5.4.0
AOS-242841	—	<p>Symptom: In some cases, AppRF displayed unreliable aggregated statistics after a long period of time. The fix ensures the AppRF aggregated statistics are accurate.</p> <p>Scenario: This issue was observed in APs running Aruba Instant 6.5.4.0 or later versions.</p>	IAP AppRF	All platforms	Aruba Instant 6.5.4.0

Table 3: Resolved Issues in Instant 6.5.4.27

Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-244068	—	<p>Symptom: The containment feature was not effectively functioning for clients connected across various channels. The fix ensures the feature works as expected.</p> <p>Scenario: This issue was observed in IAP-505 access points running Aruba Instant 6.5.0.0 or later versions.</p>	IDS	All platforms	Aruba Instant 6.5.0.0
AOS-246617	—	<p>Symptom: After upgrading to Aruba Instant 8.10.0.7, some APs crashed and rebooted unexpectedly, disconnecting every 2-3 hours due to IPv6 packet synchronization problems. The crash logs listed the reason for the error as Panic:Ktrace core monitor: cpu3 hung for 45 seconds, hung cpu count: 1 Warm-reset. The fix ensures that the APs work as expected.</p> <p>Scenario: This issue was observed in IAP-515 access points running Aruba Instant 6.5.4.0 or later versions.</p>	Datapath	IAP-515 access points	Aruba Instant 8.10.0.7
AOS-247151	—	<p>Symptom: The output of the show backup-config command did not include configuration details for IAP-635 access points. The fix ensures that the output of the show backup-config command includes the configuration details.</p> <p>Scenario: This issue was observed in IAP-635 access points running Aruba Instant 6.5.4.0 or later versions.</p>	CLI	IAP-635 access points	Aruba Instant 8.11.1.0

This chapter describes the known and outstanding issues identified in this release.



We have migrated to a new defect tracking tool. Some bugs are listed with the new bug ID, which is prefixed by AOS.

Table 4: *Known Issues in Instant 6.5.4.27*

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-175467 AOS-174756 AOS-175463	161239 165458 165474	Symptom: An Instant AP is unable to reach the Central server. Scenario: This issue occurs when the software is downgraded from Instant 6.5.3.0 to Instant 6.5.1.0-4.3.1.3 because of the default value of the ip-mode parameter. This issue is observed in APs running Aruba Instant 6.5.1.0-4.3.1.3 or later versions.	IPv6	All platforms	Aruba Instant 6.5.1.0-4.3.1.3
AOS-175951 AOS-140975 AOS-180447	171577 168254 189776	Symptom: An Instant AP reboots unexpectedly. The log file lists the reason for the event as: Reboot caused by kernel panic: Take care of the HOST ASSERT first. Scenario: This issue occurs when the messaging between the WLAN firmware and UMAC goes out of sync. This issue is observed in member APs in an Instant cluster running Aruba Instant 6.5.1.0-4.3.1.2 or later versions.	Wi-Fi Driver	All platforms	Aruba Instant 6.5.1.0-4.3.1.2
AOS-176463	170478	Symptom: An Instant AP delays the ICMP response from the wired server to a wireless client connected to the AP on the 2.4 GHz radio. Scenario: This issue is observed in APs running Aruba Instant 6.5.3.0 or later versions.	Wi-Fi Driver	All platforms	Aruba Instant 6.5.3.0

Table 4: *Known Issues in Instant 6.5.4.27*

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-176815	171948	<p>Symptom: An Instant AP sends DLNA responses with the IP address of the DLNA server as the source IP address, causing a network outage.</p> <p>Scenario: This issue occurs when the DLNA response packets reach the DLNA server with its IP address as the source IP address and the DLNA server falsely detects a network loop. This issue is observed in APs running Aruba Instant 6.5.4.3 or later versions.</p>	AirGroup	All platforms	Aruba Instant 6.5.4.3
AOS-176934	172460	<p>Symptom: An Instant AP logs multiple checksum-mismatch alerts.</p> <p>Scenario: This issue occurs because of a mismatch in the authentication server configuration in the Instant AP. This issue is observed in APs running Aruba Instant 6.5.4.2 or later versions.</p>	VC Management	All platforms	Aruba Instant 6.5.4.2
AOS-176946	172554	<p>Symptom: Instant APs in a cluster a redisplaying large volumes of the error message: KERNEL(AWAP-AM-USMil-3-1-F36_Shipping@10.249.1.192):[8081.995439] protocol0000isbuggy,devbr0nh=d92120d8 d=d9212070=d92120cb.</p> <p>Scenario: This issue is observed in IAP-315 AND IAP-325 access points running Aruba Instant 6.5.3.3 or later versions.</p>	IAP Platform	IAP-315 and IAP-325 access points	Aruba Instant 6.5.3.3
AOS-177272	174298	<p>Symptom: The syslog-level command can be configured to parameters beyond Warn, but it cannot be used for configuring master APs.</p> <p>Scenario: This issue is observed in master APs running Aruba Instant 6.5.1.0-4.3.1.0 or later versions.</p>	Platform	All platforms	Aruba Instant 6.5.1.0-4.3.1.0
AOS-177621	175913	<p>Symptom: An Instant AP crashes and reboots unexpectedly. The log file lists the reason for the event as: Reboot Time and Cause: Reboot caused by kernel panic: Fatal exception in interrupt and Reboot caused by kernel panic: softlockup: hung task.</p> <p>Scenario: This issue is observed in IAP-315 access points running Aruba Instant 6.5.4.3 or later versions.</p>	Wi-Fi Driver	IAP-315 access points	Aruba Instant 6.5.4.3

Table 4: *Known Issues in Instant 6.5.4.27*

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-177624	175958	<p>Symptom: An Instant AP does not receive an IP address when the uplink fails over to LTE.</p> <p>Scenario: This issue occurs when the datapath route cache entry set to 3G/4G fails. This issue is observed in APs running Aruba Instant 6.5.3.3 or later versions.</p>	3G/4G Management	All platforms	Aruba Instant 6.5.3.3
AOS-177963	177761	<p>Symptom: Users are unable to delete clients that are dynamically denylisted after an authentication failure.</p> <p>Scenario: This issue is observed in APs running Aruba Instant 6.5.4.0 or later versions.</p>	Authentication	All platforms	Aruba Instant 6.5.2.0
AOS-178134	178915	<p>Symptom: DNS and HTTP traffic are not categorized by the Instant AP.</p> <p>Scenario: This issue is observed in APs running Aruba Instant 6.5.4.3 or later versions.</p>	AppRF	All platforms	Aruba Instant 6.5.4.3
AOS-178233	179493	<p>Symptom: A member Instant AP stops communicating to Central, continues to communicate with the conductor Instant AP, and switches to local management.</p> <p>Scenario: This issue occurs when PAPI fails between a member Instant AP and the conductor Instant AP. This issue is observed in APs running Aruba Instant 6.5.4.4 or later versions.</p>	Central	All platforms	Aruba Instant 6.5.4.4
AOS-178688	180846	<p>Symptom: An Instant AP performs source NATing of traffic with its inner IP address and a client is assigned an IP address from the distributed L3 scope.</p> <p>Scenario: This issue is observed in APs running Aruba Instant 6.5.4.7 or later versions.</p>	AppRF	All platforms	Aruba Instant 6.5.4.7
AOS-179683	185975	<p>Symptom: Some characters in the running configuration are missing when the entire running configuration is copied and pasted into the CLI access.</p> <p>Scenario: This issue occurs only when the AP console is used and not SSH. This issue is observed in APs running Aruba Instant 6.5.4.5 or later versions.</p>	Configuration	All platforms	Aruba Instant 6.5.4.5

Table 4: *Known Issues in Instant 6.5.4.27*

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-180288	188738	<p>Symptom: An Instant AP crashes and reboots unexpectedly. The log file lists the reason for the event as: Reboot caused by kernel panic: Fatal exception in interrupt.</p> <p>Scenario: This issue is observed in IAP-315 and IAP-325 access points running Aruba Instant 6.5.4.7 or later versions.</p>	Platform	IAP-315 and IAP-325 access points	Aruba Instant 6.5.4.7
AOS-180904	191443	<p>Symptom: Users are unable to hear audio in a VoIP call after 10 minutes.</p> <p>Scenario: This issue occurs if the SIP server is outside the client's network and the Instant AP performs NAT on the SIP control session packets. This issue is observed in APs running Aruba Instant 6.5.4.7 or later versions.</p> <p>Workaround: Place the SIP server in the same network as the SIP clients. This ensures that NAT is not performed on the SIP control session packets.</p>	VC Management	All platforms	Aruba Instant 6.5.4.7
AOS-181453	193816	<p>Symptom: An Instant AP reboots unexpectedly. The log file lists the reason as: Reboot caused by kernel panic: Fatal exception.</p> <p>Scenario: This issue occurs due to a memory access issue in the Instant AP. This issue is observed in APs running Aruba Instant 6.5.4.9 or later versions.</p>	Datapath	All platforms	Aruba Instant 6.5.4.9
AOS-181829	195194	<p>Symptom: Downstream traffic for a wireless client from the old VLAN is still sent to the old VLAN after the client changes over to a different VLAN and SSID on the same AP.</p> <p>Scenario: This issue is observed in APs running Aruba Instant 6.5.4.9 or later versions.</p>	Datapath	All platforms	Aruba Instant 6.5.4.9

Table 4: Known Issues in Instant 6.5.4.27

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-182578	—	<p>Symptom: Certificates with an encrypted private key fail to upload and return the following error message: rsa_key_validation_error.</p> <p>Scenario: This issue occurs when the encryption type is aes-128-cbc, aes-192-cbc, or aes-256-cbc. This issue is observed in APs running Aruba Instant 6.5.4.8 or later versions.</p> <p>Workaround: Upload the certificate using a decrypted private key.</p>	Captive Portal	All platforms	Aruba Instant 6.5.4.8
AOS-187350	—	<p>Symptom: An Instant AP does not update the client's username received from the ClearPass server.</p> <p>Scenario: This issue occurs when captive portal authentication is used. This issue is observed in APs running Aruba Instant 6.5.4.0 or later versions.</p>	Authentication	All platforms	Aruba Instant 6.5.4.0
AOS-209870	—	<p>Symptom: An IAP-205 access point fails to add new client entries to the Analytics and Location Engine. This issue occurs when the potential station list of the AP reaches the maximum threshold.</p> <p>Scenario: This issue is observed in IAP-205 access points running Aruba Instant 6.5.4.17 or later versions.</p>	IAP IDS	IAP-205 access point	Aruba Instant 6.5.4.17
AOS-218235	—	<p>Symptom: The controller logs random IP and MAC pairing information in its user table in an IAP-VPN deployment. This issue occurs when clients roam to a different AP in the cluster before completing the DNS process with the source Instant AP.</p> <p>Scenario: This issue is observed in access points running Aruba Instant 6.5.4.18 or later versions.</p>	IAPMgr	All platforms	Aruba Instant 6.5.4.18
AOS-240459	—	<p>Symptom: Static IP addresses of locally managed Instant APs are changed to DHCP IP addresses if the configured default gateway is unreachable.</p> <p>Scenario: This issue is observed in APs running Aruba Instant 6.5.0.0 or later versions.</p>	Central	All platforms	Aruba Instant 6.5.4.20

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



NOTE

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, a Hewlett Packard Enterprise company. 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 17](#)
- [Upgrading an Instant AP Using Automatic Image Check on page 19](#)
- [Upgrading an Instant AP Image Using CLI 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 multiclass Instant AP network is managed by AirWave, image upgrades can only be done through the AirWave UI. The Instant AP images for different classes must be uploaded on the AMP server. When 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.



NOTE

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 multiclass Instant AP network is not managed by AirWave, image upgrades can be done through the Cloud-Based Image Check feature. When a new Instant AP joining the network needs to synchronize its software version with the version on the VC 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

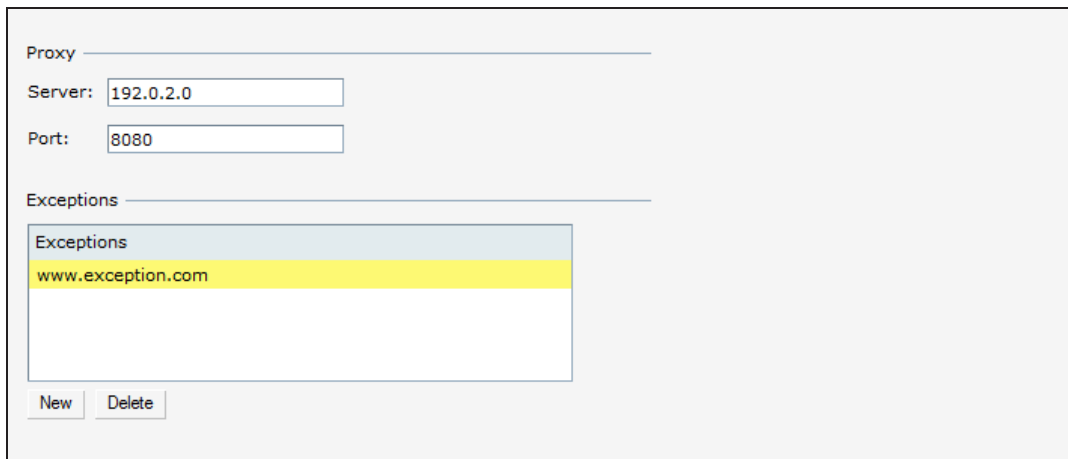
If your network requires a proxy server for Internet access, ensure that you configure the HTTP proxy on the Instant AP to download the image from the cloud server. After setting up the HTTP proxy settings, the Instant AP connects to the Activate server, AMP, Central, or OpenDNS server through a secure HTTP connection. 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.

In the WebUI

To configure the HTTP proxy settings:

1. Navigate to **System > Proxy**. The Proxy configuration window is displayed.

Figure 1 Proxy Configuration Window



The screenshot shows the Proxy Configuration Window. It has a 'Proxy' section with a 'Server' text box containing '192.0.2.0' and a 'Port' text box containing '8080'. Below this is an 'Exceptions' section with a list box containing 'www.exception.com'. At the bottom of the exceptions list are 'New' and 'Delete' buttons.

2. Enter the HTTP proxy server IP address in the **Server** text box.
3. Enter the port number in the **Port** text box.
4. If you do not want the HTTP proxy to be applied for a particular host, click **New** to enter that IP address or domain name of that host in the **Exceptions** section.

In the CLI

To configure the HTTP proxy settings:

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

Upgrading an Instant AP Using 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.

To check for a new version on the image server in the cloud:

1. Go to **Maintenance > Automatic > 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.
2. If a new version is found, the Upgrade Now button becomes available and the version number is displayed.
3. 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

If the Automatic Image Check feature is disabled, you can manually obtain an image file from a local file system or from a TFTP or HTTP URL.

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

1. Navigate to **Maintenance > Firmware**.
2. Under Manual section, perform the following steps:
 - Select the Image file option. This method is only available for single-class Instant APs.
 - The following examples describe the image file format for different Instant AP models:
 - For AP-203H—ArubaInstant_Vela_6.5.4.x_xxxx

- For IAP-334/335—ArubaInstant_Lupus_6.5.4.x_xxxx
 - For IAP-314/315 and IAP-324/325—ArubaInstant_Hercules_6.5.4.x_xxxx
 - For IAP-224/225, IAP-228, IAP-214/215, IAP-274/275, IAP-277—ArubaInstant_Centaurus_6.5.4.x_xxxx
 - For IAP-204/205 and IAP-205H—ArubaInstant_Taurus_6.5.4.x_xxxx
 - For RAP-155/155P—ArubaInstant_Aries_6.5.4.x_xxxx
 - For RAP-108/109, IAP-103, and IAP-114/115—ArubaInstant_Pegasus_6.5.4.x_xxxx
- Select the **Image URL** option. Select this option to obtain an image file from a HTTP, TFTP, or FTP URL.
 - HTTP - http://<IP-address>/<image-file>. For example, http://<IP-address>/ArubaInstant_Hercules_6.5.4.x_xxxx
 - TFTP - tftp://<IP-address>/<image-file>. For example, tftp://<IP-address>/ArubaInstant_Hercules_6.5.4.x_xxxx
 - FTP - ftp://<IP-address>/<image-file>. For example, ftp://<IP-address>/ArubaInstant_Hercules_6.5.4.x_xxxx
 - FTP - ftp://<user name:password>@<IP-address>/<image-file>. For example, ftp://<aruba:123456>@<IP-address>/ArubaInstant_Hercules_6.5.4.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.

3. Clear the **Reboot all APs after upgrade** check box if required. The **Reboot all APs after upgrade** check box is selected 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 Instant APs after upgrade** check box.
4. Click **Upgrade Now** to upgrade the Instant AP to the newer version.

Upgrading an Instant AP Image Using CLI

To upgrade an image using a HTTP, TFTP, or FTP URL:

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

To upgrade an image by using the username and password in the FTP URL :

```
(Instant AP)# upgrade-image ftp://Aruba:123456@192.0.2.7/ArubaInstant_Hercules_6.5.4.x_xxxx
```

To upgrade an image without rebooting the Instant AP:

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

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
```