

Aruba Instant

6.4.4.3-4.2.2.1



Release Notes

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Aruba Instant 6.4.4.3-4.2.2.1 is a software patch release that introduces new features, enhancements and fixes to the issues found in previous releases.

For information on upgrading IAPs to the new release version, refer to the *Upgrading an IAP* topic in the *Aruba Instant 6.4.4.3-4.2.2.0 User Guide*.

Contents

- [What's New in this Release on page 5](#) lists the regulatory information and fixed issues in Instant 6.4.4.3-4.2.2.1 release.

Contacting Support

Main Site	arubanetworks.com
Support Site	support.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 Telephones	http://www.arubanetworks.com/support-services/support-program/contact-support
Software Licensing Site	licensing.arubanetworks.com/login.php
End of Support Information	http://www.arubanetworks.com/support-services/end-of-life-products/end-of-life-policy/
Security Incident Response Team (SIRT)	Site: http://www.arubanetworks.com/support-services/security-bulletins/ Email: sirt@arubanetworks.com
Americas, EMEA, and APAC	support.arubanetworks.com

This chapter lists the regulatory information, fixed issues, known issues and limitations identified in the Aruba Instant 6.4.4.3-4.2.2.1 release.

Regulatory Domain Updates

The following table lists the DRT file version supported by Instant 6.4.4.x-4.2.2.x release:

Table 1: *DRT Versions*

Instant Release Version	Applicable DRT Version
6.4.4.3-4.2.2.1	1.0_53631
6.4.4.3-4.2.2.0	1.0_52858

For a complete list of countries certified with different AP models, see the respective DRT release notes at support.arubanetworks.com.

Resolved Issues in this Release

The following issue is fixed in the Instant 6.4.4.3-4.2.2.1 release.

ARM

Table 2: *ARM Fixed Issue*

Bug ID	Description
136007	<p>Symptom: The IDS table was full of reclassification entries and could not be updated because it reached the maximum entry limit. This issue is resolved by not saving the reclassification entries to the IDS table.</p> <p>Scenario: This issue was not limited to a specific IAP model or software version.</p>

Known Issues and Limitations

The following known issues and limitations are identified in the Instant 6.4.4.x-4.2.2.x releases.

Maximum Configurable Year for Absolute Time Range Profiles

When creating an absolute time-range profile, the year selected for the Start Day and End Day cannot exceed 2037.

Known Issues

The following Known Issues are identified in the Instant 6.4.4.x-4.2.2.x releases:

PPPOE

Table 3: PPPOE

Bug ID	Description
130433	Symptom: IAP with PPPoE uplink crashes. Scenario: This issue occurs when IAPs that use PPPoE as uplink with VPN enabled, crash due to an internal PPPoE device reference count. The issue is observed in IAPs running Instant 6.4.4.3-4.2.2.0 release. Workaround: None.

VC Management

Table 4: VC Management Known Issue

Bug ID	Description
128737	Symptom: When assigning a time-range profile to an SSID, the IAP UI throws a "Profile Not Found" error if the time-range profile name is configured with a special character " or a blank space. Scenario: This issue is found on IAPs running Instant 6.4.3.4-4.2.1.0 release. Workaround: Avoid configuring the time-range profile names with a special character " or blank space.

VPN

Table 5: VPN

Bug ID	Description
131554	Symptom: Clients are not able to get the IP address while connecting to a centralized L2 mode of an IAP using the GRE mode of operation. Scenario: This issue is found in IAPs with a centralized L2 SSID using the GRE mode of operation. This issue is not limited to a specific IAP model or software version. Workaround: None.

This chapter describes the features and enhancements introduced in previous Aruba Instant 6.4.4.x-4.2.2.x releases.

Features and Enhancements

This section describes the features and enhancements introduced in Instant 6.4.4.3-4.2.2.0 release.

Support for New IAP Devices

The IAP-320 Series (IAP-324 and IAP-325) wireless Instant access points support IEEE 802.11 ac standards for high-performance WLAN, and is equipped with two dual-band radios, which can provide access and monitor the network simultaneously. MU-MIMO (Multi-User Multiple-In Multiple-Output) technology allows this access point to deliver high-performance 802.11 n 2.4 GHz and 802.11 ac 5 GHz functionality, while also supporting 802.11 a/b/g wireless services.

The IAP-320 Series wireless access points provide the following capabilities:

- Dual wireless transceiver
- IEEE 802.11 a/b/g/n/ac operation as a wireless access point
- IEEE 802.11 a/b/g/n/ac operation as a wireless air monitor
- Compatibility with IEEE 802.3at and 802.3af PoE
- Integrated Bluetooth Low Energy (BLE) radio

Support for MU-MIMO Steering

The 802.11 ac Wave 2 access points such as IAP-324/325 support the Multi-User Multiple-In Multiple-Output (MU-MIMO) feature. The MU-MIMO feature enables IAPs to use the enhanced beamforming technique to maximize transmission in the desired client direction, while simultaneously minimizing transmission in the direction of undesired clients through null steering. With MU-MIMO enabled, IAPs can support up to four simultaneous full-rate Wi-Fi connections, and provide more data and dedicated full-bandwidth channel to each of their associated clients. MU-MIMO is enabled by default on WLAN SSIDs. To disable MU-MIMO, use the **no vht-mu-txbf-disable** parameter in the **wlan ssid-profile** command. For more information, see *Multi-User-MIMO Steering* in *Aruba Instant 6.4.4.3-4.2.2.0 User Guide*.

RTS Threshold Configuration

Along with MU-MIMO, the 802.11 ac Wave 2 access points such as IAP-324/325 support the configuration of the RTS threshold. The (Request to Send) RTS / (Clear to Send) CTS mechanism allows the devices to reserve the RF medium and minimize the frame collisions introduced by hidden stations. When RTS is enabled, a higher number of retransmissions occurring on the WLAN trigger the RTS/CTS handshake and the transmitter station sends an RTS frame to the receiver station. The receiver station responds with a CTS frame. The RTS/CTS frames are sent when the packet size exceeds the RTS threshold.

By default, the RTS threshold is set to 2333 octets. Using the **rts-threshold** parameter in the **wlan ssid-profile** command, you can configure a threshold value within the range of 0–2347 octets. For more information, see *Multi-User-MIMO Steering* in *Aruba Instant 6.4.4.3-4.2.2.0 User Guide*.

Static Domain Name Configuration for PAN Firewall

Starting from Instant 6.4.4.3-4.2.2.0, IAP will check the domain information in client user IDs (used for authentication) for all login and logout requests sent to the PAN firewall. If the user id already has a domain prefix, the request is forwarded to the PAN firewall. Otherwise, the static client domain configured in the PAN firewall profile will be prefixed to the user ID and then sent to the PAN firewall.

For more information, see:

- *Integrating anIAP with Palo Alto Networks Firewall in Aruba Instant 6.4.4.3-4.2.2.0 User Guide.*
- **firewall-external-enforcement** command in *Aruba Instant 6.4.4.3-4.2.2.0 CLI Reference Guide.*

This chapter describes the issues fixed in previous Aruba Instant 6.4.4.x-4.2.2.x releases.

Issues Resolved in 6.4.4.3-4.2.2.0

Datapath/Firewall

Table 6: *Datapath/Firewall Fixed Issue*

Bug ID	Description
129304 127348 128118 130490	<p>Symptom: Client devices running the Android 6.0+ or Windows 10 software were unable to connect to the 802.1x SSID of the IAP. The fix ensures that the client devices are able to connect to the 802.1x SSID.</p> <p>Scenario: This issue occurred when 802.1x termination was enabled on the IAP and was observed in all IAPs running Instant 6.4.3.4-4.2.1.0 release.</p>

VPN

Table 7: *VPN Fixed Issue*

Bug ID	Description
125698	<p>Symptom: MTU size was not displayed in the output for the CLI commands used for configuring primary and secondary VPN tunnels. The fix ensures that the MTU size is displayed in the output of the CLI commands.</p> <p>Scenario: This issue was observed in all IAPs running Instant 6.4.3.1-4.2.0.0 and later releases.</p>