# **AOS-W Instant 6.4.4.8-4.2.4.2**



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Contents	3
Release Overview	5
Contents	5
Contacting Support	5
What's New in this Release	6
Regulatory Domain Updates	6
Resolved Issues in this Release	6
ALE	6
CLI	6
Datapath/Firewall	7
Platform	7
PPPoE	7
Wi-Fi Driver	7
3G/4G Management	8
Known Issues	8
AppRF	8
Features and Enhancements in Previous Releases	9
Features and Enhancements	g
Support for Telus Aircard 340U Modem	g
Support for Hotspot 2.0 on OAW-IAP325 Access Points	g
Enhancement to Routing Profile Capability	g
Enhancement for Disabling Default Auto Topology Rules	g
Enhancement to ALE Monitoring Capabilities	g
Allow Zero Touch Provisioning When NTP Server is Unreachable	10
Issues Resolved In Previous Releases	11
Issues Resolved in 6.4.4.8-4.2.4.1	11

AppRF	11
Datapath/Firewall	11
SNMP	12
STM	12
UI	12
Wi-Fi Driver	12
ssues Resolved in 6.4.4.6-4.2.4.0	13
AirGroup	13
OmniVista	13
ARM	13
Datapath/Firewall	13
Hotspot 2.0	14
L2/L3 Mobility	14
Platform	14
3G/4G Management	15
UI	15
VC Management	15
VPN	16
Wi Fi Driver	16

AOS-W Instant 6.4.4.8-4.2.4.2 is a patch release that introduces enhancements and fixes to the issues found in the previous release.

For information on upgrading OAW-IAPs to the new release version, refer to the Upgrading an OAW-IAP topic in the AOS-W Instant 6.4.4.6-4.2.4.0 User Guide.

#### **Contents**

What's New in this Release on page 6 lists the regulatory information, and fixed issues in AOS-W Instant 6.4.4.8-4.2.4.2 release.

Known Issues on page 8 lists the known issues identified in the 6.4.4.x-4.2.4.x releases.

Features and Enhancements in Previous Releases on page 9 describes the features and enhancements in previous releases.

Issues Resolved In Previous Releases on page 11 lists the issues fixed in the previous 6.4.4.x-4.2.4.x releases.

# **Contacting Support**

**Table 1:** Contact Information

Contact Center Online		
Main Site	http://enterprise.alcatel-lucent.com	
Support Site	https://service.esd.alcatel-lucent.com	
Email	esd.support@alcatel-lucent.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	

This chapter lists the regulatory information, and fixed issues in the AOS-W Instant 6.4.4.8-4.2.4.2 release.

# **Regulatory Domain Updates**

The following table lists the DRT file versions supported by Instant 6.4.4.x-4.2.4.x releases:

**Table 2:** DRT Versions

Instant Release Version	Applicable DRT Version
6.4.4.8-4.2.4.2	1.0_56050
6.4.4.8-4.2.4.1	1.0_55489
6.4.4.6-4.2.4.0	1.0_54870

For a complete list of countries certified with different AP models, see the respective DRT release notes at service.esd.alcatel-lucent.com.



This software release supports the channel issues described in ALE Support Advisory SA-N0033, available for download from the service.esd.alcatel-lucent.com site. All impacted devices are back in compliance.

## **Resolved Issues in this Release**

The following issues are fixed in the Instant 6.4.4.8-4.2.4.2 release.

#### ALE

Table 3: ALE Fixed Issue

Bug ID	Description
145729	<b>Symptom</b> : The <b>Age</b> field in the RSSI client message was not accurate. The issue is resolved by changing the calculation logic of the field. <b>Scenario</b> : This issue affected deployments in which OAW-IAPs were being used in combination with the ALE server for location-based services, resulting in inaccurate location calculations of the ALE server. This issue was observed in all the OAW-IAPs running a software version prior to Instant 6.4.4.8-4.2.4.2.

#### CLI

Table 4: CLI Fixed Issue

Bug ID	Description
144944	<b>Symptom</b> : The VPN routing profile of an OAW-IAP accepted invalid entries during CLI configuration. The issue is resolved by running a check on the CLI parameters, so that the OAW-IAP displays an error message when the users enter invalid parameters. <b>Scenario</b> : This issue was observed when the IAP-VPN profile accepted values such as ASCII and special characters without displaying an error message in the CLI. This issue was not limited to a specific OAW-IAP model or Instant software version.

# Datapath/Firewall

**Table 5:** Datapath/Firewall Fixed Issue

Bug ID	Description
139022	<b>Symptom</b> : OAW-IAPs crashed and rebooted while receiving certain multicast packets from the SSID profile. The fix ensures that OAW-IAPs do not crash while receiving the multicast packets. <b>Scenario</b> : This issue was found in OAW-IAPs with the Dynamic Multicast Optimization (DMO) feature enabled. This issue was observed in OAW-IAP325 access points running Instant 6.4.4.3-4.2.2.0 and later releases.
146155	<b>Symptom</b> : When the SSID, WLAN access rule, and user-defined Src-NAT rule were in use, the bandwidth control did not have any effect on the clients associated to slave OAW-IAPs. The issue is resolved by changing the bandwidth control logic of the OAW-IAPs. <b>Scenario</b> : This issue was observed in all the OAW-IAPs running a software version prior to Instant 6.4.4.8-4.2.4.2.

## **Platform**

Table 6: Platform Fixed Issue

Bug ID	Description
145808	<b>Symptom</b> : OAW-IAPs in a cluster rebooted as they were running out of memory. The fix ensures that OAW-IAPs use the memory space appropriately. <b>Scenario</b> : This issue was observed in OAW-IAP205 and OAW-IAP275 access points running a software version prior to Instant 6.4.4.8-4.2.4.2.

#### **PPPoE**

Table 7: PPPoE Fixed Issue

Bug ID	Description
140549	<b>Symptom</b> : PPPoE session was not working when the uplink port of an OAW-IAP was fluctuating. The fix ensures that PPPoE works even when there are multiple fluctuations at the uplink port of the OAW-IAP. <b>Scenario</b> : This issue was observed in all the OAW-IAPs running a software version prior to Instant 6.4.4.8-4.2.4.2.

## Wi-Fi Driver

Table 8: Wi-Fi Driver Fixed Issue

Bug ID	Description
132990	<b>Symptom</b> : Wireless services were unstable when the Ethernet port of the OAW-RAP109 access point was fluctuating. The fix ensures that clients receive stable wireless services from the OAW-RAP. <b>Scenario</b> : This issue was observed in OAW-RAP109 access points running a software version prior to Instant 6.4.4.8-4.2.4.2.

## **3G/4G Management**

**Table 9:** 3G/4G Management Fixed Issue

Bug ID	Description
142944	<b>Symptom</b> : A 320U 4G modem was not working when connected to an OAW-IAP. This issue is resolved by a change in condition to match the module name of the modem. <b>Scenario</b> : This issue was observed in 320U modems connected to OAW-RAP155 access points running a software version prior to Instant 6.4.4.8-4.2.4.2.

# **Known Issues**

The following known issues are identified in the Instant 6.4.4.x-4.2.4.x releases:

# **AppRF**

Table 10: AppRF Known Issue

Bug ID	Description
120228	<b>Symptom</b> : The Skype application is not getting blocked when the App enforcement ACL is configured. <b>Scenario</b> : This issue occurs with OAW-IAPs that support the App enforcement feature, and is observed in all the OAW-IAPs running Instant 6.4.3.1-4.2.0.0 or later versions. <b>Workaround</b> : None.

This chapter describes the features and enhancements introduced in previous AOS-W Instant 6.4.4.x-4.2.4.x releases.

#### Features and Enhancements

The following features and enhancements were introduced in Instant 6.4.4.x-4.2.4.x releases.

### Support for Telus Aircard 340U Modem

Starting from Instant 6.4.4.8-4.2.4.1, the Telus Aircard 340U modem is supported.

#### Support for Hotspot 2.0 on OAW-IAP325 Access Points

Starting from Instant 6.4.4.6-4.2.4.0, the Hotspot 2.0 (Passpoint Release 1) feature is supported on OAW-IAP325 access points. For more information, see:

Hotspot Profiles in AOS-W Instant 6.4.4.6-4.2.4.0 User Guide.

### **Enhancement to Routing Profile Capability**

A new field called **metric** has been added as part of the routing profile configuration. When two or more routes with the same destination are available for data transfer, the route with the lowest metric value takes precedence. For more information, see:

- Configuring Routing Profiles in AOS-W Instant 6.4.4.6-4.2.4.0 User Guide.
- routing-profile command in AOS-W Instant 6.4.4.6-4.2.4.0 CLI Reference Guide.

# **Enhancement for Disabling Default Auto Topology Rules**

Starting from Instant 6.4.4.6-4.2.4.0, the auto topology rules can be disabled using the Instant UI and CLI. For more information, see:

- Configuring Firewall Settings to Disable Auto Topology Rules in AOS-W Instant 6.4.4.6-4.2.4.0 User Guide.
- **Firewall** command in AOS-W Instant 6.4.4.6-4.2.4.0 CLI Reference Guide.
- show Firewall command in AOS-W Instant 6.4.4.6-4.2.4.0 CLI Reference Guide.

# **Enhancement to ALE Monitoring Capabilities**

Starting from Instant 6.4.4.6-4.2.4.0, ALE monitoring capabilities have been enhanced to receive notifications on the Wireless Backup Unit (WBU) stats and status of LTE 3G/4G modems. ALE is now notified with the following monitoring statistics:

- A LTE 3G/4G modem is plugged in or unplugged from the OAW-IAP USB port.
- The modem is incorrectly plugged in to the USB port of the slave OAW-IAP instead of the master OAW-IAP.
- The current status of the SIM card used in the modem.
- The current status of the uplink in use when the modem is connected to the master OAW-IAP.
- The WBU Rx or Tx bytes from the modem traffic when there is an uplink connectivity between the modem. and the master OAW-IAP.

Additionally, the Master OAW-IAP will now notify ALE through hearbeat messages indicating the status (UP or DOWN) of the slave OAW-IAPs.

# Allow Zero Touch Provisioning When NTP Server is Unreachable

Starting from Instant 6.4.4.6-4.2.4.0, zero-touch provisoning is allowed even when the NTP server is unavailable.

This chapter describes the issues fixed in previous AOS-W Instant 6.4.4.x-4.2.4.x releases.

## Issues Resolved in 6.4.4.8-4.2.4.1

OmniVista

Table 11: OmniVista Fixed Issue

Bug ID	Description
140313	<b>Symptom</b> : OmniVista managing OAW-IAPs did not display some of the interfering OAW-IAPs. The fix ensures that the interfering OAW-IAPs are displayed on OmniVista. <b>Scenario</b> : This issue occurred when a large number of interfering OAW-IAPs were present in the same physical area of the WLAN network. This issue was not limited to a specific OAW-IAP model or Instant software version.

## **AppRF**

#### **Table 12:** AppRF Fixed Issue

Bug ID	Description
143257	<b>Symptom</b> : DPIMGR trace logging spiked memory usage on the OAW-IAP. This issue is resolved by moving the syslog message from error log to debug level. <b>Scenario</b> : This issue occurred when the brightcloud DNS resolve process started before trace logging of DPIMGR, which triggered default trace logging to grow and caused memory spike in OAW-IAPs running Instant 6.4.4.4-4.2.3.0 and later versions.

## Datapath/Firewall

**Table 13:** Datapath/Firewall Fixed Issues

Bug ID	Description
138649	Symptom: OAW-IAP225 access points crashed and rebooted with the reason: Reboot caused by kernel panic: Fatal exception in interrupt. This issue is resolved by preventing the watchdog timer from getting triggered when the bridge entries are deleted.  Scenario: The watchdog timer was triggered when the bridge entries were deleted. This issue was observed in OAW-IAP225 access points running a software version prior to Instant 6.4.4.8-4.2.4.1.
143390	<b>Symptom</b> : Clients connecting to OAW-RAP109 using a 3G or 4G uplink were unable to get an IP address from all Ethernet ports with enet0-bridging enabled. This issue is resolved by bringing up the br0 port when enet0-bridging is enabled. <b>Scenario</b> : The br0 port is down when enet0-bridging is enabled. This issue was observed in OAW-RAP109 access points running a software version prior to Instant 6.4.4.8-4.2.4.1.
144543	<b>Symptom</b> : Apple devices connected to the slave OAW-IAPs via the guest VLAN were intermittently losing connectivity to the network. The fix ensures that the Apple devices are able to connect to the network without intermittency issues. <b>Scenario</b> : This issue was observed in all OAW-IAPs running Instant 6.4.4.4-4.2.3.0 and later versions.

#### **SNMP**

Table 14: SNMP Fixed Issue

Bug ID	Description
140180	<b>Symptom</b> : The Object aiRadioStatus value was always 1 irrespective of the radio status. The fix ensures that the Object aiRadioStatus is 0 when the radio is disabled and 1 when the radio is enabled. However, when mesh is enabled on the OAW-IAP, the object aiRadioStatus will be 1 even when the radio is disabled. <b>Scenario</b> : This issue was not limited to a specific OAW-IAP model or Instant software version.

#### STM

Table 15: STM Fixed Issue

Bug ID	Description
136795	<b>Symptom</b> : STM core files were found in several OAW-IAPs as a result of the memory being cleared twice. This issue is resolved by preventing the memory from being cleared twice when the auth-server ip address is changed. <b>Scenario</b> : This issue occurred when multiple OAW-IAPs were used and DRP was enabled on the SSID profile. This issue was not limited to a specific OAW-IAP model or Instant software version.

#### UI

Table 16: UI Fixed Issues

Bug ID	Description
137227	<b>Symptom</b> : Users were getting an error message when they tried logging in to the OAW-IAP UI using Internet Explorer 11. The warning message has been removed to resolve this issue. <b>Scenario</b> : This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.8-4.2.4.1.
140803	<b>Symptom</b> : One of the ACL parameters was incorrectly displaying as <b>scanning activieren</b> instead of <b>scanning deaktivieren</b> in the German version of the OAW-IAP UI. <b>Scenario</b> : This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.8-4.2.4.1.

## Wi-Fi Driver

Table 17: Wi-Fi Driver Fixed Issue

Bug ID	Description
129829	<b>Symptom</b> : External wi-fi devices were intermittently not displayed in the IDS table after they were reclassified as valid. The fix ensures that the external wi-fi devices are displayed in the IDS table until the device entry expires. <b>Scenario</b> : This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.8-4.2.4.1.

# Issues Resolved in 6.4.4.6-4.2.4.0

# **AirGroup**

Table 18: AirGroup Fixed Issue

Bug ID	Description
139943	<b>Symptom</b> : AirPrint information was not getting displayed on the AirGroup server list of the OAW-IAP. This issue is resolved by a change in code that records the response sent to the OAW-IAP query. <b>Scenario</b> : This issue was observed in OAW-IAP205 devices running a software version prior to Instant 6.4.4.6-4.2.4.0.

## **OmniVista**

Table 19: OmniVista Fixed Issue

Bug ID	Description
136986	<b>Symptom</b> : OAW-IAPs were sending the tx power and channel information to OmniVista ven when the 2.4 GHz and 5 GHz radios were disabled. The fix ensures the OAW-IAP does not report the tx power, radio channel, noise floor, and channel busy values to OmniVista when the radios are disabled. <b>Scenario</b> : This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.6-4.2.4.0.

#### **ARM**

Table 20: ARM Fixed Issue

Bug ID	Description
139165	<b>Symptom</b> : The 2.4 GHz channels were disabled in OAW-IAPs that support the Nigerian country code. The issue is resolved by removing the code that is used to validate DRT content of the OAW-IAP. <b>Scenario</b> : This issue was observed in OAW-IAP205 devices running a software version prior to Instant 6.4.4.6-4.2.4.0.

# Datapath/Firewall

**Table 21:** Datapath/Firewall Fixed Issues

Bug ID	Description
138095	<b>Symptom</b> : After upgrading the software version from Instant 6.4.2.6-4.1.1.6 to 6.4.3.4-4.2.1.0, MAC users were experiencing delays in connecting to the network. The fix ensures that the users are able to connect to the newtork without delay. <b>Scenario</b> : This issue occurred as there was a delay in receving the DHCP IP address from the server and was observed in all OAW-IAPs running Instant 6.4.3.4-4.2.1.0 and later versions.
136169	<b>Symptom</b> : Some clients were getting a higher bandwidth than the allocated limit. The fix ensures that the bandwidth does not exceed the allocated limit. <b>Scenario</b> : This issue occurred as the bandwidth contract for some of the OAW-IAPs in the cluster was not taking effect correctly. This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.6-4.2.4.0.

# Hotspot 2.0

**Table 22:** Hotspot 2.0 Fixed Issues

Bug ID	Description
139116	<b>Symptom</b> : OAW-IAPs failed to send 3GPP-PLMN values in the ANQP response frame. The fix ensures that correct values for the 3GPP-PLMN element are sent by the OAW-IAP. <b>Scenario</b> : This issue was observed in OAW-IAP205H access points running Instant 6.4.4.4-4.2.3.0 and later versions.
138670	<b>Symptom</b> : Clients failed to automatically connect to OAW-IAPs even after the hotspot feature was configured in the OAW-IAPs. The fix ensures that an automatic connection between the hotspot clients and OAW-IAPs is successful. <b>Scenario</b> : This issue occurred as the OAW-IAPs were not adding hotspot information elements into the beacon This issue was observed in OAW-IAPs running Instant 6.4.3.4-4.2.1.0 and later versions.

# L2/L3 Mobility

Table 23: L2/L3 Mobility Fixed Issue

Bug ID	Description
137726	<b>Symptom</b> : Clients were unable to pass traffic after successfully roaming from one OAW-IAP to another in the cluster. This issue is resolved by making a change in the code to use the client information in the user path when programming the user entry for the home OAW-IAP. <b>Scenario</b> : This issue occurred as the user entry was cleared from the home OAW-IAP when the client roamed from one OAW-IAP to another in the network and was not limited to a specific OAW-IAP model or software version.

## **Platform**

Table 24: Platform Fixed Issues

Bug ID	Description
140867	<b>Symptom</b> : When clients upgraded anOAW-IAP, the RTLS server displayed an error message. This issue is resolved by enabling the server compatibility settings of the RTLS server. <b>Scenario</b> : This issue was observed in OAW-IAP103 access points running a software version prior to Instant 6.4.4.6-4.2.4.0.
142400	Symptom: OAW-IAPs were continuously crashing every 2 to 3 minutes, causing productivity issues with the clients. This issue is resolved by introducing a mechanism to lock the bridge entry of the OAW-IAP.  Scenario: This issue occurred due to a kernel panic in the OAW-IAP code, resulting in continuous rebooting of the OAW-IAPs. This issue was observed in OAW-IAP325 access points running Instant 6.4.4.4-4.2.3.0 and later versions.
135787	<b>Symptom</b> : When a multicast server tried to send a file to the client through an OAW-IAP, the client failed to receive the entire file. This issue is resolved by applying a condition to verify the DHCP/DNS packets. <b>Scenario</b> : This issue occurred when the OAW-IAPs dropped a section of the fragmented packets during file transfer. This issue was observed in OAW-IAPs running a software version prior to Instant 6.4.4.6-4.2.4.0.
137637	<b>Symptom</b> : OAW-IAP225 devices crashed and rebooted with a response: Reboot caused by Kernel panic: asset. This issue is resolved by removing the L3 mobility tunnel creation for the CL2 VLAN. <b>Scenario</b> : This issue occurred as the memory space was low and was observed in all OAW-IAP running a software version prior to Instant 6.4.4.6-4.2.4.0.

## **3G/4G Management**

**Table 25:** 3G/4G Management Fixed Issue

Bug ID	Description
137180	<b>Symptom</b> : Clients using Windows laptops and mobile devices were unable to access certain websites while being connected to an OAW-IAP. The issue is resolved by checking and updating the MSS value of the TCP packets that are received from the OAW-IAP. <b>Scenario</b> : This issue was observed in all OAW-IAPs running Instant 6.4.3.1-4.2.0.0 and later versions.

#### UI

#### Table 26: UI Fixed Issues

Bug ID	Description
140506	<b>Symptom</b> : The following error was displayed when the user tried to create a periodic time-based service profile using a certain condition: <b>End day must be later than start day</b> . This issue is resolved by changing the code for validating when a time-based service profile is created. <b>Scenario</b> : This issue was observed in all OAW-IAPs running Instant 6.4.4.4-4.2.3.1 and later versions.
141593	<b>Symptom</b> : The column under the <b>RF Dashboard</b> that displays the signal strength of the OAW-IAP clients was missing in the Instant UI. The fix ensures that the signal strength of the clients is displayed in the UI. <b>Scenario</b> : This issue was observed in all OAW-IAPs running Instant 6.4.4.4-4.2.3.0.
141757	<b>Symptom</b> : OAW-IAP clients were still active even after they were manually disconnected using the Instant UI. The fix ensures that the manual disconnect of clients using the UI is successful. <b>Scenario</b> : This issue occurred as the information and the status of the client was not erased when the disconnect operation was performed using the UI. This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.6-4.2.4.0.

## **VC Management**

**Table 27:** VC Management Fixed Issue

Bug ID	Description
138089	<b>Symptom</b> : OAW-IAPs were experiencing a delay in establishing a connection with the SSH server when the reverse dns lookup failed. This issue is resolved by preventing the SSH server from performing a reverse dns lookup, to avoid the delay prior to establishing a connection with the OAW-IAP. <b>Scenario</b> : The issue occurred due to multiple retry attempts by the SSH server to perform a reverse dns lookup before establishing a connection with the OAW-IAP. This issue was observed in all OAW-IAPs running a software version prior to Instant 6.4.4.6-4.2.4.0.

## **VPN**

Table 28: VPN Fixed Issues

Bug ID	Description
132490	<b>Symptom</b> : In a Distributed L3 network, windows clients were unable to open a few sites when connected to the wired network of the OAW-IAP. This issue is resolved by enabling MSS clamping in the upstream direction. <b>Scenario</b> : The issue occurred as the MSS clamping was enabled only in the downstream direction for the Distributed L3 clients. This issue was not limited to a specific OAW-IAP model or software version.
138468	<b>Symptom</b> : OAW-IAP clients were unable to connect to the corporate network. This issue is resolved by ensuring that the master OAW-IAPs receive the correct DHCP IP subnets from the VPN tunnel in the corporate network. <b>Scenario</b> : The issue was observed in all OAW-IAPs running Instant 6.4.3.4-4.2.1.0 and later versions.

## Wi-Fi Driver

Table 29: Wi-Fi Driver Fixed Issue

Bug ID	Description
138582	<b>Symptom</b> : Clients were unable to connect to the 5 GHZ radio channel and the error logs revealed there were TX Radio and Antenna probe failures. The fix enures the clients are now able to connect to the 5 GHz radio channel without errors. <b>Scenario</b> : This issue was observed in all OAW-IAPs running running a software version prior to Instant 6.4.4.6-4.2.4.0.