

AOS-W Instant

6.4.4.6-4.2.4.0

Alcatel·Lucent 
Enterprise

Release Notes

Copyright

© 2016 Alcatel-Lucent. All rights reserved.

Specifications in this manual are subject to change without notice.

Originated in the USA.

AOS-W, Alcatel 4302, Alcatel 4304, Alcatel 4306, Alcatel 4308, Alcatel 4324, Alcatel 4504, Alcatel 4604, Alcatel 4704, Alcatel 6000, OAW-AP41, OAW-AP68, OAW-AP60/61/65, OAW-AP70, OAW-AP80, OAW-AP92/93, OAW-AP105, OAW-AP120/121, OAW-AP124/125, OAW-AP175, OAW-IAP92/93/105, OAW-RAP2, OAW-RAP5, and Omnivista 3600 Air Manager are trademarks of Alcatel-Lucent in the United States and certain other countries.

Any other trademarks appearing in this manual are the property of their respective companies. Includes software from Litech Systems Design. The IF-MAP client library copyright 2011 Infoblox, Inc. All rights reserved. This product includes software developed by Lars Fenneberg et al.

Legal Notice

The use of Alcatel-Lucent switching platforms and software, by all individuals or corporations, to terminate Cisco or Nortel VPN client devices constitutes complete acceptance of liability by that individual or corporation for this action and indemnifies, in full, Alcatel-Lucent from any and all legal actions that might be taken against it with respect to infringement of copyright on behalf of Cisco Systems or Nortel Networks.

Contents	3
Release Overview	5
Contents	5
Contacting Support	5
What's New in this Release	6
Regulatory Domain Updates	6
New Features and Enhancements	6
Support for Hotspot 2.0 on OAW-IAP325 Access Points	6
Enhancement to Routing Profile Capability	6
Enhancement for Disabling Default Auto Topology Rules	6
Enhancement to ALE Monitoring Capabilities	7
Allow Zero Touch Provisioning When NTP Server is Unreachable	7
Resolved Issues in this Release	7
AirGroup	7
OmniVista	7
ARM	8
Authentication	8
Datapath/Firewall	8
Hotspot 2.0	8
L2/L3 Mobility	9
Platform	9
3G/4G Management	9
UI	10
VC Management	10
VPN	10
Wi-Fi Driver	11

Known Issues	12
AppRF	12

AOS-W Instant 6.4.4.6-4.2.4.0 is a major software release that introduces new features and enhancements. 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, new features and enhancements, and fixed issues in AOS-W Instant 6.4.4.6-4.2.4.0 release.

Contacting Support

Table 1: Contact Information

Contact Center Online	
• Main Site	http://www.alcatel-lucent.com/enterprise
• 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, features, enhancements, fixed issues, known issues and limitations in the AOS-W Instant 6.4.4.6-4.2.4.0 release.

Regulatory Domain Updates

The following table lists the DRT file versions supported by Instant 6.4.4.6-4.2.4.0 release:

Table 2: *DRT Versions*

Instant Release Version	Applicable DRT Version
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.



New Features and Enhancements

The following new features and enhancements are introduced in this release:

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 heartbeat 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 provisioning is allowed even when the NTP server is unavailable.

Resolved Issues in this Release

The following issues are fixed in the Instant 6.4.4.6-4.2.4.0 release.

AirGroup

Table 3: *AirGroup Fixed Issue*

Bug ID	Description
139943	Symptom: 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. Scenario: 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 4: *OmniVista Fixed Issue*

Bug ID	Description
136986	Symptom: 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. Scenario: 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 5: *ARM Fixed Issue*

Bug ID	Description
139165	Symptom: 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. Scenario: This issue was observed in OAW-IAP205 devices running a software version prior to Instant 6.4.4.6-4.2.4.0.

Authentication

Table 6: *Authentication Fixed Issue*

Bug ID	Description
140091	Symptom: Clients were unable to connect to SSIDs that use certain special WPA2 passphrases. A change in the condition used by the OAW-IAP to validate the pre-shared key has resolved this issue. Scenario: This issue occurred as the OAW-IAP did not recognize the pre-shared key set for the SSID and was observed in all OAW-IAPs running Instant 6.4.3.1-4.2.0.0 and later versions.

Datapath/Firewall

Table 7: *Datapath/Firewall Fixed Issues*

Bug ID	Description
138095	Symptom: 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 network without delay. Scenario: This issue occurred as there was a delay in receiving 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	Symptom: Some clients were getting a higher bandwidth than the allocated limit. The fix ensures that the bandwidth does not exceed the allocated limit. Scenario: 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 8: *Hotspot 2.0 Fixed Issues*

Bug ID	Description
139116	Symptom: 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. Scenario: This issue was observed in OAW-IAP205H access points running Instant 6.4.4.4-4.2.3.0 and later versions.
138670	Symptom: 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. Scenario: 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 9: L2/L3 Mobility Fixed Issue

Bug ID	Description
137726	<p>Symptom: 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.</p> <p>Scenario: 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.</p>

Platform

Table 10: Platform Fixed Issues

Bug ID	Description
140867	<p>Symptom: When clients upgraded an OAW-IAP, the RTLS server displayed an error message. This issue is resolved by enabling the server compatibility settings of the RTLS server.</p> <p>Scenario: This issue was observed in OAW-IAP103 access points running a software version prior to Instant 6.4.4.6-4.2.4.0.</p>
142400	<p>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.</p> <p>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.</p>
135787	<p>Symptom: 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.</p> <p>Scenario: 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.</p>
137637	<p>Symptom: 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.</p> <p>Scenario: 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.</p>

3G/4G Management

Table 11: 3G/4G Management Fixed Issue

Bug ID	Description
137180	<p>Symptom: 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.</p> <p>Scenario: This issue was observed in all OAW-IAPs running Instant 6.4.3.1-4.2.0.0 and later versions.</p>

UI

Table 12: *UI Fixed Issues*

Bug ID	Description
140506	<p>Symptom: The following error was displayed when the user tried to create a periodic time-based service profile using a certain condition: End day must be later than start day. This issue is resolved by changing the code for validating when a time-based service profile is created.</p> <p>Scenario: This issue was observed in all OAW-IAPs running Instant 6.4.4.4-4.2.3.1 and later versions.</p>
141593	<p>Symptom: The column under the RF Dashboard 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.</p> <p>Scenario: This issue was observed in all OAW-IAPs running Instant 6.4.4.4-4.2.3.0.</p>
141757	<p>Symptom: 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.</p> <p>Scenario: 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.</p>

VC Management

Table 13: *VC Management Fixed Issue*

Bug ID	Description
138089	<p>Symptom: 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.</p> <p>Scenario: 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.</p>

VPN

Table 14: *VPN Fixed Issues*

Bug ID	Description
132490	<p>Symptom: 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.</p> <p>Scenario: 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.</p>
138468	<p>Symptom: 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.</p> <p>Scenario: The issue was observed in all OAW-IAPs running Instant 6.4.3.4-4.2.1.0 and later versions.</p>

Wi-Fi Driver

Table 15: *Wi-Fi Driver Fixed Issue*

Bug ID	Description
138582	<p>Symptom: 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.</p> <p>Scenario: This issue was observed in all OAW-IAPs running running a software version prior to Instant 6.4.4.6-4.2.4.0.</p>

Known Issues

The following known issue is identified in the Instant 6.4.4.6-4.2.4.0 release:

AppRF

Table 16: *AppRF Known Issue*

Bug ID	Description
120228	<p>Symptom: The Skype application is not getting blocked when the App enforcement ACL is configured.</p> <p>Scenario: 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.</p> <p>Workaround: None.</p>