

# AOS-W Instant 6.5.4.19



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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 AOS-W Instant release notes includes the following topics:

- [New Features on page 8](#)
- [Regulatory Updates on page 9](#)
- [Resolved Issues on page 10](#)
- [Known Issues on page 12](#)
- [Upgrading an OAW-IAP on page 17](#)

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



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For information regarding prior releases, refer to the corresponding Release Notes on <https://support.esd.alcatel-lucent.com/>.

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## Supported Browsers

The following browsers are officially supported for use with the AOS-W Instant WebUI:

- Microsoft Internet Explorer 10.x and 11 on Windows 7 and Windows 8
- Mozilla Firefox 23 or later on Windows Vista, Windows 7, and macOS
- Apple Safari 5.1.7 or later on macOS
- Google Chrome 51.0.2704.103 m (64-bit)
- Microsoft Edge 25.10586.0.0 and Microsoft Edge HTML 13.10586

## Important Updates

### DPI

Starting from AOS-W Instant 6.5.0.0-4.3.0.0 onwards, DPI is not supported on OAW-AP103, OAW-RAP108, and OAW-RAP109 due to the existing memory limitations. The last release with full feature support for these platforms is AOS-W Instant 6.4.x.x-4.2.x.x.

If you have deployed OAW-AP103, OAW-RAP108, or OAW-RAP109 and require DPI functionality, ensure that you remain on AOS-W Instant 6.4.x.x-4.2.x.x or earlier versions. However, if you are willing to disable DPI functionality, upgrade to AOS-W 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 AOS-W Instant 6.5.4.0 release version. This change in value causes a mismatch warning for OmniVista 3600 customers that use a template file for configuration. We recommend you to change the template file in OmniVista 3600 to fix this mismatch. OmniVista 3600 UI users, please upgrade your respective versions.



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

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## Contacting Support

**Table 2:** *Contact Information*

Contact Center Online	
Main Site	<a href="https://www.al-enterprise.com">https://www.al-enterprise.com</a>
Support Site	<a href="https://businessportal2.alcatel-lucent.com">https://businessportal2.alcatel-lucent.com</a>
Email	<a href="mailto:ebg_global_supportcenter@al-enterprise.com">ebg_global_supportcenter@al-enterprise.com</a>
Service & Support Contact Center Telephone	
North America	1-800-995-2696
Latin America	1-877-919-9526

## Contact Center Online

EMEA	+800 00200100 (Toll Free) or +1(650)385-2193
Asia Pacific	+65 6240 8484
Worldwide	1-818-878-4507

No new features are introduced in this release.



This chapter describes the regulatory updates in AOS-W Instant 6.5.4.19.

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

The following DRT file version is part of this release:

- DRT-1.0\_79055

For a complete list of countries certified with different AP models, refer to the DRT Release Notes at [support.esd.alcatel-lucent.com](http://support.esd.alcatel-lucent.com).



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This software release supports the channel requirements described in *ALE Support Advisory SA-N0033*, available for download from the [support.esd.alcatel-lucent.com](http://support.esd.alcatel-lucent.com) site.

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This release includes fixes for the following CVEs referenced in [ARUBA-PSA-2021-007](#):

- CVE-2019-5317
- CVE-2019-5319
- CVE-2020-24635
- CVE-2020-24636
- CVE-2021-25143
- CVE-2021-25144
- CVE-2021-25145
- CVE-2021-25146
- CVE-2021-25148
- CVE-2021-25149
- CVE-2021-25150
- CVE-2021-25155
- CVE-2021-25156
- CVE-2021-25157
- CVE-2021-25158
- CVE-2021-25159
- CVE-2021-25160
- CVE-2021-25161
- CVE-2021-25162

Additionally, the following issues are resolved in this release.

**Table 3:** Resolved Issues in AOS-W Instant 6.5.4.19

Bug ID	Description	Component	Platform	Reported Version
AOS-199744 AOS-209046	<p><b>Symptom:</b> The output of the <b>show iap table long</b> command did not display any values under the <b>BID (Subnet Name)</b> column, when the command was executed on the switch. Upgrade the switch to AOS-W 6.5.4.19 to resolve the issue. The fix ensures that the switch works as expected.</p> <p><b>Scenario:</b> This issue was observed in backup switches when an IAP branch failed over from the primary switch in an IAP-VPN deployment. This issue was observed in IAP-VPN deployments that had switches running AOS-W 6.5.4.0 or later versions.</p>	IAPMgr	All platforms	AOS-W Instant 8.3.0.13
AOS-209148	<p><b>Symptom:</b> Clients were unable to reach the splash page for captive portal authentication. The fix ensures that captive portal clients connect to the network as expected.</p> <p><b>Scenario:</b> This issue occurred when the AP failed to process DNS queries from captive portal clients. This issue was observed in AOS-W Instant 6.5.4.16 or later versions.</p>	Captive Portal	All platforms	AOS-W Instant 6.5.4.16

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 AOS-W Instant 6.5.4.19*

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-140975 AOS-175951 AOS-180447	171577 168254 189776	<b>Symptom:</b> An OAW-IAP reboots unexpectedly. The log file lists the reason for the event as: <b>Reboot caused by kernel panic: Take care of the HOST ASSERT first.</b> <b>Scenario:</b> This issue occurs when the messaging between the WLAN firmware and UMAC goes out of sync. This issue is observed in slave APs in an AOS-W Instant cluster running AOS-W Instant 6.5.1.0-4.3.1.2 or later versions.	Wi-Fi Driver	All platforms	AOS-W Instant 6.5.1.0-4.3.1.2
AOS-140296 AOS-143139 AOS-143162 AOS-143164 AOS-144977 AOS-148856 AOS-172741 AOS-172788 AOS-173084 AOS-173085 AOS-173704 AOS-174078	170643 174326 174359 174361 140296 151748 151871 152748 152749 155683 156758 157826	<b>Symptom:</b> An OAW-IAP reboots unexpectedly. The log file lists the reason for the event as: <b>Reboot caused by kernel panic: softlockup: hung tasks.</b> <b>Scenario:</b> This issue occurs when DMO is enabled. This issue is observed in APs running in AOS-W Instant 6.4.4.8-4.2.4.3 or later versions.	Datapath	All platforms	AOS-W Instant 6.4.4.8-4.2.4.3
AOS-145183 AOS-175730	167198 177034	<b>Symptom:</b> An OAW-IAP crashes unexpectedly. The log file lists the reason for the event as: <b>Kernel panic - not syncing: softlockup: hung tasks.</b> <b>Scenario:</b> This issue is observed in OAW-AP303H access points running AOS-W Instant 6.5.3.4 or later versions.	Datapath	OAW-AP303H access points	AOS-W Instant 6.5.3.4

**Table 4:** Known Issues in AOS-W Instant 6.5.4.19

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-175268 AOS-177107 AOS-177289	164251 173503 174358	<b>Symptom:</b> An OAW-IAP displays incorrect web category and web reputation values for some clients in the WebUI. <b>Scenario:</b> This issue occurs when a DPI-enabled OAW-IAP fails to establish a websocket connection with the cloud server and is unable to reach the web content classification server. This issue is observed in OAW-AP305 access points running AOS-W Instant 6.5.3.3 or later versions.	AppRF	OAW-AP305 access points	AOS-W Instant 6.5.3.3
AOS-176463	170478	<b>Symptom:</b> An OAW-IAP delays the ICMP response from the wired server to a wireless client connected to the AP on the 2.4 GHz radio. <b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.3.0 or later versions.	Wi-Fi Driver	All platforms	AOS-W Instant 6.5.3.0
AOS-176815	171948	<b>Symptom:</b> An OAW-IAP sends DLNA responses with the IP address of the DLNA server as the source IP address, causing a network outage. <b>Scenario:</b> 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 AOS-W Instant 6.5.4.3 or later versions.	AirGroup	All platforms	AOS-W Instant 6.5.4.3
AOS-176934	172460	<b>Symptom:</b> An OAW-IAP logs multiple checksum-mismatch alerts. <b>Scenario:</b> This issue occurs because of a mismatch in the authentication server configuration in the OAW-IAP. This issue is observed in APs running AOS-W Instant 6.5.4.2 or later versions.	VC Management	All platforms	AOS-W Instant 6.5.4.2
AOS-176946	172554	<b>Symptom:</b> The OAW-IAPs in a cluster are displaying huge volumes of the error message: <b>KERNEL(AWAP-AM-US-Mil-3-1-F36_Shipping@10.249.1.192): [ 8081.995439] protocol 0000 is buggy, dev br0 nh=d92120d8 d=d9212070 =d92120cb.</b> <b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.3.3 or later versions.	Platform	All platforms	AOS-W Instant 6.5.3.3

**Table 4:** Known Issues in AOS-W Instant 6.5.4.19

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-177621	175913	<p><b>Symptom:</b> An OAW-IAP crashes and reboots unexpectedly. The log file lists the reason for the event as: <b>Reboot Time and Cause: Reboot caused by kernel panic: Fatal exception in interrupt and Reboot caused by kernel panic: softlockup: hung task.</b></p> <p><b>Scenario:</b> This issue is observed in OAW-AP315 access points running AOS-W Instant 6.5.4.3 or later versions.</p>	Wi-Fi Driver	OAW-AP315 access points	AOS-W Instant 6.5.4.3
AOS-177624	175958	<p><b>Symptom:</b> An OAW-IAP does not receive an IP address when the uplink fails over to LTE.</p> <p><b>Scenario:</b> This issue occurs when the datapath route cache entry is set to 3G/4G fails. This issue is observed in APs running AOS-W Instant 6.5.3.3 or later versions.</p>	3G/4G Management	All platforms	AOS-W Instant 6.5.3.3
AOS-177963	177761	<p><b>Symptom:</b> Users are unable to delete the clients that are dynamically blacklisted after an authentication failure.</p> <p><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.0 or later versions.</p>	Authentication	All platforms	AOS-W Instant 6.5.4.0
AOS-178111	178761	<p><b>Symptom:</b> An OAW-IAP displays an error message: <b>domain name has reach the max number</b> when a user tries to add a new rule.</p> <p><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.6 or later versions.</p>	Datapath	All platforms	AOS-W Instant 6.5.4.6
AOS-178134	178915	<p><b>Symptom:</b> DNS and HTTP traffic are not categorized by the OAW-IAP.</p> <p><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.3 or later versions.</p>	AppRF	All platforms	AOS-W Instant 6.5.4.3
AOS-178688	180846	<p><b>Symptom:</b> An OAW-IAP 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><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.7 or later versions.</p>	AppRF	All platforms	AOS-W Instant 6.5.4.7

**Table 4:** Known Issues in AOS-W Instant 6.5.4.19

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-179683	185975	<p><b>Symptom:</b> Some characters in the running configuration are missing when the entire running configuration is copied and pasted into the CLI access.</p> <p><b>Scenario:</b> This issue occurs only when the AP console is used and not SSH. This issue is observed in APs running AOS-W Instant 6.5.4.5 or later versions.</p>	Configuration	All platforms	AOS-W Instant 6.5.4.5
AOS-180288	188738	<p><b>Symptom:</b> An OAW-IAP crashes and reboots unexpectedly. The log file lists the reason for the event as: <b>Reboot caused by kernel panic: Fatal exception in interrupt.</b></p> <p><b>Scenario:</b> This issue is observed in OAW-AP315 and OAW-AP325 access points running AOS-W Instant 6.5.4.7 or later versions.</p>	Platform	OAW-AP315 and OAW-AP325 access points	AOS-W Instant 6.5.4.7
AOS-180904	191443	<p><b>Symptom:</b> Users are unable to hear audio in a VoIP call after 10 minutes.</p> <p><b>Scenario:</b> This issue occurs if the SIP server is outside the client's network and the OAW-IAP performs NAT on the SIP control session packets. This issue is observed in APs running AOS-W Instant 6.5.4.7 or later versions.</p> <p><b>Workaround:</b> 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	AOS-W Instant 6.5.4.7
AOS-181453	193816	<p><b>Symptom:</b> An OAW-IAP reboots unexpectedly. The log file lists the reason as: <b>Reboot caused by kernel panic: Fatal exception.</b></p> <p><b>Scenario:</b> This issue occurs due to a memory access issue in the OAW-IAP. This issue is observed in APs running AOS-W Instant 6.5.4.9 or later versions.</p>	Datapath	All platforms	AOS-W Instant 6.5.4.9
AOS-181829	195194	<p><b>Symptom:</b> 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><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.9 or later versions.</p>	Datapath	All platforms	AOS-W Instant 6.5.4.9

**Table 4:** *Known Issues in AOS-W Instant 6.5.4.19*

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-182578	—	<p><b>Symptom:</b> Certificates with an encrypted private key fail to upload and return the following error message: <b>rsa_key_validation_error</b>.</p> <p><b>Scenario:</b> This issue occurs when the encryption type is <b>aes-128-cbc, aes-192-cbc, or aes-256-cbc</b>. This issue is observed in APs running AOS-W Instant 6.5.4.8 or later versions.</p> <p><b>Workaround:</b> Upload the certificate using a decrypted private key.</p>	Captive Portal	All platforms	AOS-W Instant 6.5.4.8
AOS-187350	—	<p><b>Symptom:</b> An OAW-IAP does not update the client's username received from the ClearPass server.</p> <p><b>Scenario:</b> This issue occurs when captive portal authentication is used. This issue is observed in APs running AOS-W Instant 6.5.4.0 or later versions.</p>	Authentication	All platforms	AOS-W Instant 6.5.4.0
AOS-209199	—	<p><b>Symptom:</b> An OAW-IAP crashes and reboots unexpectedly. The log lists the reason for reboot as: <b>Reboot caused by kernel panic: Fatal exception</b>.</p> <p><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.15 or later versions.</p>	Datapath	All platforms	AOS-W Instant 6.5.4.15
AOS-209889 AOS-209944	—	<p><b>Symptom:</b> An OAW-IAP fails to establish SSL connection with BrightCloud server and clients are able to access websites blocked using WebCC.</p> <p><b>Scenario:</b> This issue is observed in APs running AOS-W Instant 6.5.4.15 or later versions.</p>	AppRF	All platforms	AOS-W Instant 6.5.4.15



This chapter describes the AOS-W Instant software upgrade procedures and the different methods for upgrading the image on the OAW-IAP.

Topics in this chapter include:

- [Upgrading an OAW-IAP Using OmniVista 3600 Management Platform on page 17](#)
- [Upgrading an OAW-IAP Image Manually Using WebUI on page 17](#)
- [Upgrading an OAW-IAP Image Manually Using CLI on page 18](#)

### Upgrading an OAW-IAP Using OmniVista 3600 Management Platform

If the multiclass OAW-IAP network is managed by OmniVista 3600, image upgrades can only be done through the OmniVista 3600 UI. The OAW-IAP images for different classes must be uploaded on the AMP server. When new OAW-IAPs joining the network need to synchronize their software with the version running on the virtual switch, and if the new OAW-IAP belongs to a different class, the image file for the new OAW-IAP is provided by OmniVista 3600. If OmniVista 3600 does not have the appropriate image file, the new OAW-IAP will not be able to join the network.

### Upgrading an OAW-IAP Image Manually Using WebUI

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 OAW-IAPs.

The following examples describe the image file format for different OAW-IAP models:

    - For OAW-AP203H—AlcatelInstant\_Vela\_6.5.4.x\_xxxx
    - For OAW-AP334/335—AlcatelInstant\_Lupus\_6.5.4.x\_xxxx
    - For OAW-AP314/315 and OAW-AP324/325—AlcatelInstant\_Hercules\_6.5.4.x\_xxxx
    - For OAW-AP224/225, OAW-AP228, OAW-AP214/215, OAW-AP274/275, OAW-AP277—AlcatelInstant\_Centaurus\_6.5.4.x\_xxxx
    - For OAW-AP204/205 and OAW-AP205H—AlcatelInstant\_Taurus\_6.5.4.x\_xxxx
    - For OAW-RAP155/155P—AlcatelInstant\_Aries\_6.5.4.x\_xxxx

- For OAW-RAP108/109, OAW-AP103, and OAW-AP114/115—AlcatelInstant\_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>/AlcatelInstant\_Hercules\_6.5.4.x\_xxxx
  - TFTP - tftp://<IP-address>/<image-file>. For example, tftp://<IP-address>/AlcatelInstant\_Hercules\_6.5.4.x\_xxxx
  - FTP - ftp://<IP-address>/<image-file>. For example, ftp://<IP-address>/AlcatelInstant\_Hercules\_6.5.4.x\_xxxx
  - FTP - ftp://<user name:password>@<IP-address>/<image-file>. For example, ftp://<alcatel:123456>@<IP-address>/AlcatelInstant\_Hercules\_6.5.4.x\_xxxx



The FTP server supports both **anonymous** and **username:password** login methods.

Multiclass OAW-IAPs 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 OAW-IAPs to reboot automatically after a successful upgrade. To reboot the OAW-IAP at a later time, clear the **Reboot all OAW-IAPs after upgrade** check box.
4. Click **Upgrade Now** to upgrade the OAW-IAP to the newer version.

## Upgrading an OAW-IAP Image Manually 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://Alcatel:123456@192.0.2.7/AlcatelInstant_Hercules_6.5.4.x_xxxx
```

To upgrade an image without rebooting the OAW-IAP:

```
(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
```