

ArubaOS 8.5.0.5



Release Notes

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Revision History

The following table provides the revision history of this document.

Table 1: *Revision History*

Revision	Change Description
Revision 03	Removed the Migrating from ArubaOS 6.x to ArubaOS 8.x section from Upgrade Procedure chapter, and removed Migration Guide from the documents listed under Related Documents section, as the Migration Tool is no longer be supported.
Revision 02	Updated the Limitations section stating no ZTP and multi-version support for 9004 controllers.
Revision 01	Initial release.

This ArubaOS release notes includes the following topics:



Throughout this document, branch controller and local controller are termed as managed device.

- [New Features and Enhancements on page 9](#)
- [Supported Platforms on page 10](#)
- [Regulatory Updates on page 13](#)
- [Resolved Issues on page 14](#)
- [Known Issues and Limitations on page 32](#)
- [Upgrade Procedure on page 46](#)

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

Important Points Before Upgrading to ArubaOS 8.5.0.0

DPI classification is not initialized after a controller is upgraded from ArubaOS 8.4.0.0, 8.4.0.1, or 8.4.0.2 to ArubaOS 8.5.0.0. The affected platforms are 7200 Series controllers.

An additional reboot of the affected platform is required to initialize DPI classification.

To check the status of DPI classification after upgrading an affected platform from ArubaOS 8.4.0.0, 8.4.0.1, or 8.4.0.2 to ArubaOS, 8.5.0.0, issue the **show firewall | include dpi** command. In the following example, DPI classification is disabled:

```
(host) #show firewall | include dpi
DPI Classification      Disabled [Cfg: enabled, PEF license: installed]
```

If DPI classification is enabled, further action is not needed. However, if DP classification is disabled, issue the **show datapath utilization** and check if the DPI classification CPUs are initialized. In the following example, the DPI classification CPUs are disabled:

```
(host) #show datapath utilization

Datapath CPU Allocation Summary
Slow Path (SP) : 1,  Slow Path Gateway (SPGW) : 1
Fast Path (FP) : 17,  Fast Path Gateway (FPGW) : 1
DPI : 0, Crypto (CRYP) : 0
Slow Path Spare (SPSPARE) : 0
```

If the DPI classification CPUs are not initialized, reboot the affected platform by:

- Issuing the **reload** command.
- Power cycling the controller.

Related Documents

The following guides are part of the complete documentation for the Aruba user-centric network:

- [ArubaOS Getting Started Guide](#)
- [ArubaOS User Guide](#)
- [ArubaOS CLI Reference Guide](#)
- [ArubaOS API Guide](#)
- [Aruba Mobility Master Licensing Guide](#)
- [Aruba Virtual Appliance Installation Guide](#)
- [Aruba AP Software Quick Start Guide](#)

Supported Browsers

The following browsers are officially supported for use with the ArubaOS WebUI:

- Microsoft Internet Explorer 11 on Windows 7 and Windows 8
- Microsoft Edge (Microsoft Edge 38.14393.0.0 and Microsoft EdgeHTML 14.14393) on Windows 10
- Mozilla Firefox 58 or later on Windows 7, Windows 8, Windows 10, and macOS
- Apple Safari 9.0 or later on macOS
- Google Chrome 67 or later on Windows 7, Windows 8, Windows 10, and macOS

Contacting Support

Table 2: *Contact Information*

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 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

This chapter describes the features and enhancements introduced in this release.

Default Value of `host-ageout-time` Parameter

The default value of the Openflow controller's `host-ageout-time` parameter is changed from 300 seconds to 3600 seconds.

Execute the following command to view the value of the `ofc host-ageout-time` parameter:

```
(host) [mynode] #show openflow-controller
```

```
Openflow-controller
-----
Parameter                Value
-----
ofc state                 Enabled
ofc host-ageout-time      3600 sec
ofc mode                  passive
ofc certificate-file      none
ofc key-file              none
ofc ca-certificate-file   none
ofc tls                   Disabled
ofc port                  6633
ofc topology-discovery    Disabled
ofc auxiliary-channel-port 6633
```

This chapter describes the platforms supported in this release.

Mobility Master Platforms

The following table displays the Mobility Master platforms that are supported in this release:

Table 3: *Supported Mobility Master Platforms in ArubaOS 8.5.0.5*

Mobility Master Family	Mobility Master Model
Hardware Mobility Master	MM-HW-1K, MM-HW-5K, MM-HW-10K
Virtual Mobility Master	MM-VA-50, MM-VA-500, MM-VA-1K, MM-VA-5K, MM-VA-10K

Mobility Controller Platforms

The following table displays the Mobility Controller platforms that are supported in this release:

Table 4: *Supported Mobility Controller Platforms in ArubaOS 8.5.0.5*

Mobility Controller Family	Mobility Controller Model
7000 Series Hardware Mobility Controllers	7005, 7008, 7010, 7024, 7030
7200 Series Hardware Mobility Controllers	7205, 7210, 7220, 7240, 7240XM, 7280
9000 Series Hardware Mobility Controllers	9004
MC-VA-xxx Virtual Mobility Controllers	MC-VA-50, MC-VA-250, MC-VA-1K

AP Platforms

The following table displays the AP platforms that are supported in this release:

Table 5: *Supported AP Platforms in ArubaOS 8.5.0.5*

AP Family	AP Model
100 Series	AP-104, AP-105
103 Series	AP-103
110 Series	AP-114, AP-115
130 Series	AP-134, AP-135
170 Series	AP-175AC, AP-175AC-F1, AP-175DC, AP-175DC-F1, AP-175P, AP-175P-F1
200 Series	AP-204, AP-205
203H Series	AP-203H
205H Series	AP-205H
207 Series	AP-207
203R Series	AP-203R, AP-203RP
210 Series	AP-214, AP-215
220 Series	AP-224, AP-225
228 Series	AP-228
270 Series	AP-274, AP-275, AP-277
300 Series	AP-304, AP-305
303 Series	AP-303
303H Series	AP-303H

Table 5: Supported AP Platforms in ArubaOS 8.5.0.5

AP Family	AP Model
310 Series	AP-314, AP-315
318 Series	AP-318
320 Series	AP-324, AP-325
330 Series	AP-334, AP-335
340 Series	AP-344, AP-345
360 Series	AP-365, AP-367
370 Series	AP-374, AP-375, AP-377
AP-387	AP-387
510 Series	AP-514, AP-515
530 Series	AP-534, AP-535
550 Series	AP-555
RAP 3 Series	RAP-3WN, RAP-3WNP
RAP 100 Series	RAP-108, RAP-109
RAP 155 Series	RAP-155, RAP-155P

Periodic regulatory changes may require modifications to the list of channels supported by an AP. For a complete list of channels supported by an AP using a specific country domain, access the controller Command Line Interface (CLI) and execute the **show ap allowed-channels country-code <country-code> ap-type <ap-model>** command.

For a complete list of countries and the regulatory domains in which the APs are certified for operation, refer to the Downloadable Regulatory Table or the DRT Release Notes at support.arubanetworks.com.

The following DRT file version is part of this release:

- DRT-1.0_73310

This chapter describes the issues resolved 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 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-125897 AOS-187598 AOS-189036 AOS-192082 AOS-192723 AOS-192731 AOS-192734 AOS-195746	151952	Symptom: When a managed device rebooted, APs and clients rebooted without IP addresses and other fields. The fix ensures that no fields are missing when clients come up after a reboot. Scenario: This issue was observed in managed devices running ArubaOS 8.0.1.0 or later versions.	Monitoring	All platforms	ArubaOS 8.0.1.0
AOS-143169 AOS-196721	174366	Symptom: When the tar crash command was executed the second time, the crash.tar file was unavailable in the AP crash folder. The fix ensures that the crash.tar file is available in the AP crash folder. Scenario: This issue was observed in 7220 controllers running ArubaOS 8.3.0.10, or later versions.	Controller-Platform	7220 controllers	ArubaOS 8.3.0.0
AOS-144684 AOS-184346	176339	Symptom: Log files of few managed devices contained incorrect or garbled ESSID and BSSID values. The fix ensures that these incorrect messages are not generated. Scenario: This issue was observed in managed devices running ArubaOS 8.2.1.0 or later versions.	Station Management	All platforms	ArubaOS 8.2.1.0

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-146598 AOS-188589 AOS-192366 AOS-193748	178949	Symptom: The Upload Sync Manager process stopped responding in a Mobility Master. The log files listed the reason for the event as PROCESS_NOT_RESPONDING_CRITICAL . The fix ensures that the Mobility Master works as expected. Scenario: This issue was observed in Mobility Masters running ArubaOS 8.2.2.0 or later versions.	Captive Portal	All platforms	ArubaOS 8.3.0.0
AOS-148529 AOS-191978	181872	Symptom: A few clients were unable to access Internet because the client traffic received incorrect Source NAT information. The fix ensures that the clients are able to access Internet seamlessly. Scenario: This issue occurred when IP NAT Inside feature was enabled on an Interface VLAN which was configured with PBR. This issue was observed in managed devices running ArubaOS 8.0.0.0 or later versions in a Mobility Master-Managed Device topology.	Controller-Datapath	All platforms	ArubaOS 8.4.0.4
AOS-151541 AOS-185425	185851	Symptom: A few users were unable to access CLI by using SSH. The fix ensures that the SSH login session becomes inactive on the managed device and the users are able to access CLI by using SSH. Scenario: This issue occurred because the idle SSH login session to a managed device did not time out. This issue was observed in managed devices running ArubaOS 8.2.0.0 or later versions.	Base OS Security	All platforms	ArubaOS 8.2.1.1
AOS-152326 AOS-187297 AOS-187406 AOS-187549	186957	Symptom: The beacon displayed the country code information intermittently for 5 GHz non-DFS channel. The fix ensures to broadcast a country code after checking the status of the 802.11h Virtual AP to determine if the country code needs to be broadcast. Scenario: This issue occurred when 802.11h was enabled in the radio profile. This issue was observed in 510 Series access points running ArubaOS 8.3.0.0 or later versions.	AP-Wireless	510 Series access points	ArubaOS 8.4.0.2

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-155632	191489	<p>Symptom: A stand-alone controller crashed and rebooted unexpectedly. The log file listed the reason for this event as Control Processor Kernel Panic. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue occurred when IP options caused the Datapath process to crash. This issue was observed in 7200 Series controllers running ArubaOS 8.3.0.0 or later versions.</p> <p>New Duplicates: AOS-157337, AOS-157417, AOS-158610, AOS-158360, AOS-184786, AOS-186151, AOS-187156, AOS-187576, AOS-187752, AOS-187880, AOS-189198, AOS-189439, AOS-191458, AOS-191603, AOS-192748, AOS-193261, AOS-193272, AOS-193491, AOS-193997, AOS-194310, AOS-194588, AOS-194797, AOS-194817, AOS-196391</p> <p>Old Duplicates: 193793, 193945, 195329, 195645</p>	Controller-Platform	7200 Series controllers	ArubaOS 8.3.0.0
AOS-157008	193358	<p>Symptom: The output of the show ap bss table command displayed incorrect MTU value for a Remote AP as the AP MTU report packet was single encrypted. The fix ensures that the MTU report packet is not dropped by the managed device and the output of the show ap bss table command displays the correct MTU value.</p> <p>Scenario: This issue occurred when the default value of the rap-gre-mtu parameter was changed to a new value using the ap system-profile <profile_name> command. This issue was observed in APs running ArubaOS 8.2.0.0 or later versions.</p>	AP-Platform	All platforms	ArubaOS 8.3.0.0
AOS-157011 AOS-191292	193362	<p>Symptom: The output of show datapath papi counters command displayed invalid tunnel endpoint information. The fix ensures that the show datapath papi counters command displays the correct information.</p> <p>Scenario: This issue was observed in Mobility Masters running ArubaOS 8.2.2.0 or later versions.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.3
AOS-157544 AOS-191997 AOS-192527	194144	<p>Symptom: Licenses were missing after the managed device was rebooted. The fix ensures that the licenses are not lost when a managed device is rebooted.</p> <p>Scenario: This issue occurred because of database corruption, which was caused by power outages. This issue was observed in managed devices running ArubaOS 8.3.0.7 or later versions.</p>	Database	All platforms	ArubaOS 8.3.0.7

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-182008 AOS-192128 AOS-192459 AOS-192919 AOS-194219 AOS-196128 AOS-196849 AOS-196938	—	<p>Symptom: A Mobility Master crashed and rebooted unexpectedly. The log file listed the reason for the event as Reboot Cause: Kernel Panic (Intent:cause: 86:50). The fix ensures that the Mobility Master works as expected.</p> <p>Scenario: This issue was observed in Mobility Masters running ArubaOS 8.4.0.0 or later versions.</p>	Controller-Platform	All platforms	ArubaOS 8.5.0.5
AOS-183226 AOS-197435	—	<p>Symptom: A few clients lost L3 connectivity though L2 connectivity was up. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue occurred when the client entered power saving mode and the AP queued packets. This issue was observed in 200 Series access points running ArubaOS 8.5.0.2 or later versions.</p>	AP-Wireless	200 Series access points	ArubaOS 8.5.0.2
AOS-183468 AOS-183550 AOS-183551 AOS-184610 AOS-186877 AOS-186916 AOS-194037 AOS-195185 AOS-196543	—	<p>Symptom: A few managed devices crashed and rebooted unexpectedly. The log file listed the reason for the event as datapath timeout (Fpapps Initiated) (Intent:cause:register 51:86:50:2). This issue is resolved by ensuring that the unnecessary ARP traffic is not sent from a managed device to a Mobility Master.</p> <p>Scenario: This issue occurred because OpenFlow from the managed device sent all ARP packets to the Mobility Master. This issue was observed in Mobility Masters running ArubaOS 8.2.2.0 or later versions.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.4
AOS-183883 AOS-183989 AOS-193747	—	<p>Symptom: A few APs were marked as Down and were inactive. The fix ensures that the managed devices accept the messages from the APs and the APs are able to connect to the managed devices seamlessly.</p> <p>Scenario: This issue occurred because the managed devices dropped AP-READY message from the APs. This issue was observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.0

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-184474	—	<p>Symptom: An AP crashed and rebooted unexpectedly. The log file listed the reason for this event as kernel panic: Rebooting the AP because of FW ASSERT. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue was observed in 300 Series access points running ArubaOS 8.2.2.0 or later versions.</p> <p>Duplicates: AOS-186793, AOS-186872, AOS-186971, AOS-189390, AOS-190362, AOS-192337, AOS-194239, AOS-194677, AOS-195037, AOS-195056, AOS-196028, AOS-196378, AOS-196861</p>	AP-Wireless	300 Series access points	ArubaOS 8.3.0.6
AOS-185103	—	<p>Symptom: The Outstanding Requests parameter value was incremented unexpectedly in the output of the show aaa authentication-server radius statistics command in a managed device. The fix ensures that the managed device works as expected.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.5.0.0 or later versions with EAP fragmentation enabled.</p>	802.1x	All platforms	ArubaOS 8.5.0.1
AOS-185696	—	<p>Symptom: A few APs stopped responding to data frames and could not decode BA packets from the STAs, leading to packet drop. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue was observed in 530 Series access points running ArubaOS 8.5.0.0 or later versions.</p>	AP-Wireless	530 Series access points	ArubaOS 8.5.0.0
AOS-185812	—	<p>Symptom: User traffic in tunneled node dropped when webcc was enabled. The fix ensures that the user traffic is not dropped.</p> <p>Scenario: This issue was observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions.</p>	WebCC	All platforms	ArubaOS 8.3.0.0
AOS-185920 AOS-185921	—	<p>Symptom: A managed device rebooted unexpectedly. The log file listed the reason for this event as Nanny Rebooted Machine - fpapps process died and crashed on pubsub, cfgm, syslogdwrap, aaa and nanny module. The fix ensures that the managed device works as expected.</p> <p>Scenario: This issue occurred due to a memory leak. This issue was observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p>	IPsec	All platforms	ArubaOS 8.3.0.0

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-185977 AOS-190735	—	Symptom: Heartbeats were missed randomly on a managed device in a cluster setup. The fix ensures that the managed device works as expected. Scenario: This issue was observed in managed devices running ArubaOS 8.3.0.7 or later versions.	Controller-Datapath	All platforms	ArubaOS 8.3.0.7
AOS-186179 AOS-194133	—	Symptom: A user was unable to add a custom site-to-site IPsec map to the nexthop list. The fix ensures that the user is able to add a custom site-to-site IPsec map to the nexthop list. Scenario: This issue was observed in managed devices running ArubaOS 8.5.0.0.	Controller-Datapath	All platforms	ArubaOS 8.5.0.0
AOS-186242 AOS-194035	—	Symptom: Client traffic was not routed through IPsec map as per PBR in a managed device. As a result, the device and server failed to communicate with each other. The fix ensures that the managed device works as expected. Scenario: This issue occurred when reverse PBR was not applied to packets that initiated from the server though PBR was applied to the clients. This issue was observed in managed devices running ArubaOS 8.5.0.0 or later versions.	Controller-Datapath	All platforms	ArubaOS 8.5.0.0
AOS-186303 AOS-187388 AOS-188301	—	Symptom: A few Remote APs rebooted unexpectedly. The log file listed the reason for this event as kernel panic: Fatal exception on PC is at netdev_run_todo+0x290/0x2b4 . The fix ensures that Remote APs work as expected. Scenario: This issue was observed in AP-305 access points running ArubaOS 8.4.0.2 or later versions.	Remote AP	AP-305 access points	ArubaOS 8.4.0.2
AOS-186379	—	Symptom: IPv4 session table output was missing in tech support logs. The fix ensures that the IPv4 session table outputs are available in the tech support log. Scenario: This issue was observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions.	Controller-Datapath	All platforms	ArubaOS 8.3.0.0
AOS-186400 AOS-192691 AOS-194190 AOS-194399	—	Symptom: An SNMP walk failed on MIB objects. The fix ensures that the SNMP walk works as expected. Scenario: This issue was observed in Mobility Masters running ArubaOS 8.5.0.0 or later versions.	SNMP	All platforms	ArubaOS 8.5.0.0

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-186446	—	<p>Symptom: RADIUS load balancing stopped responding because all the authentication requests were sent to only one RADIUS server. The fix ensures that load balancing between the two RADIUS authentication servers works as expected.</p> <p>Scenario: This issue was observed in stand-alone controllers running ArubaOS 8.2.0.0 or later versions.</p>	RADIUS	All platforms	ArubaOS 8.2.1.1
AOS-186558	—	<p>Symptom: A few clients were unable to connect after reboot of a managed device. The fix ensures that the clients are able to connect to the managed device.</p> <p>Scenario: This issue occurred because the GRE tunnel was not established after the managed device was rebooted. This issue was observed in managed devices running ArubaOS 8.2.0.0 or later versions.</p>	Controller-Datapath	All platforms	ArubaOS 8.2.0.0
AOS-186735 AOS-194568	—	<p>Symptom: An AP crashed and rebooted unexpectedly. The log file listed the reason for the event as kernel panic: Rebooting the AP. NSS FW crashed. The fix ensures that the AP works as expected.</p> <p>Scenario: This issue was observed in 320 Series access points running ArubaOS 8.3.0.0 or later versions.</p>	AP Datapath	320 Series access points	ArubaOS 8.5.0.5
AOS-187114	—	<p>Symptom: The Pending Changes page displayed additional changes when the user configured a new policy rule under Configuration > Roles & Policies > Policies page in the WebUI. The fix ensures that unnecessary changes are not displayed in the Pending Changes page in the WebUI.</p> <p>Scenario: This issue was observed when the user configured a new rule for an existing policy under the Policies page and clicked the Submit button. This issue was observed in Mobility Masters running ArubaOS 8.3.0.4.</p>	WebUI	All platforms	ArubaOS 8.3.0.4
AOS-187510	—	<p>Symptom: A managed device crashed and rebooted unexpectedly. The fix ensures that the managed device works as expected.</p> <p>Scenario: This issue occurred because the 802.1X processes crashed after a cluster live upgrade on the managed device. This issue was observed in managed devices running ArubaOS 8.4.0.2 or later versions.</p>	802.1X	All platforms	ArubaOS 8.4.0.2

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-187726	—	Symptom: The output of the show ap debug radio-stats command displayed incorrect value for the Rx frames counter. The fix ensures that the correct number of Rx frames are displayed in the command output. Scenario: This issue was observed in AP-325 access points running ArubaOS 8.4.0.0 or later versions.	AP-Wireless	AP-325 access points	ArubaOS 8.4.0.0
AOS-187961	—	Symptom: AirGroup profile was not forwarded from master controller to standby controller during a failover. The fix ensures that the AirGroup configurations are synchronized between master controllers and standby controllers. Scenario: This issue was observed in 7210 controllers running ArubaOS 8.2.0.0 or later versions.	AirGroup	7210 controllers	ArubaOS 8.2.2.5
AOS-188429	—	Symptom: A client was unable to login to the managed device after upgrading the ArubaOS version to ArubaOS 8.5.0.0. The fix ensures that the managed devices work as expected. Scenario: This issue was observed in managed devices running ArubaOS 8.5.0.0 or later versions.	Base OS Security	All platforms	ArubaOS 8.5.0.0
AOS-188470	—	Symptom: PPPoE did not work when a Remote AP was provisioned using ZTP and the Either ping is disabled on AP's uplink router or there are issues with AP's uplink connectivity error was displayed. The fix ensures that if the AP is a PPPoE AP, the AP does not reboot after checking for the IP address in the PPPoE server. Scenario: This issue was observed in AP-203R access points running ArubaOS 8.2.1.1 or later versions.	Remote AP	AP-203R access points	ArubaOS 8.2.1.1
AOS-188664 AOS-194339	—	Symptom: The output of the show airmatch debug static-radios command did not display AP related information. This issue is resolved by issuing the show airmatch debug reporting-radio mac <MAC address> command. Scenario: This issue was observed in Mobility Master Virtual Appliances running ArubaOS 8.5.0.0.	AirMatch	All platforms	ArubaOS 8.5.0.0

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-188943	—	<p>Symptom: A user could not set the denyall role as the initial-role in a AAA profile. This issue is resolved by adding the denyall role as a system defined role irrespective of the PEFNG license bit value.</p> <p>Scenario: This issue occurred when the PEFNG license was disabled on a Mobility Master and the denyall role was not added in the system to be used by the user in AAA profile. This issue was observed in Mobility Masters running ArubaOS 8.4.0.0 or later versions.</p>	Role	All platforms	ArubaOS 8.4.0.3
AOS-189152 AOS-191781	—	<p>Symptom: A few APs appeared with standby tunnels on the controller though redundancy was disabled in the lc-cluster profile. As a result, the show lc-cluster load distribution ap command returned incorrect AP count. The fix ensures that APs do not get a standby controller assigned when redundancy is disabled.</p> <p>Scenario: This issue was observed in APs running ArubaOS 8.2.0.0 or later versions.</p>	Cluster-Manager	All platforms	ArubaOS 8.4.0.4
AOS-189420	—	<p>Symptom: A few clients declined the IP addresses and were unable to connect to the managed device. The fix ensures that the clients are able to connect to the managed device.</p> <p>Scenario: This issue occurred because the managed device sent an ARP request to the client's MAC address. This issue was observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p>	SDN	All platforms	ArubaOS 8.3.0.0
AOS-189450 AOS-192973	—	<p>Symptom: An AP crashed and rebooted unexpectedly. The log file listed the reason for this event as kernel panic - not syncing: subsys-restart: Resetting the SoC - q6v5-wcss crashed. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue was observed in 530 Series access points running ArubaOS 8.5.0.0 or later versions.</p>	AP-Wireless	530 Series access points	ArubaOS 8.5.0.1
AOS-189471	—	<p>Symptom: A few clients were unable to connect to APs that are configured with LACP and have allowed band of 5 GHz. The fix ensures that clients connect to the APs seamlessly.</p> <p>Scenario: This issue was observed in AP-335 access points running ArubaOS 8.5.0.0.</p>	AP Datapath	AP-335 access points	ArubaOS 8.5.0.0

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-189721 AOS-197167	—	Symptom: The Datapath process crashed in a stand-alone controller. The log files listed the reason for the event as Reboot Cause: Datapath timeout (SOS Assert) (Intent:cause:register 54:86:50:4) . The fix ensures that the controller works as expected. Scenario: This issue was observed in 7210 controllers running ArubaOS 8.4.0.2 or later versions.	Controller-Datapath	7210 controllers	ArubaOS 8.4.0.2
AOS-189757	—	Symptom: The captive portal redirection did not work when the client's http GET packet contained files with .png or .gif format. The fix ensures that files with .png or .gif format are not included. Scenario: This issue was observed in managed devices running ArubaOS 8.3.0.0 or later versions.	Captive Portal	All platforms	ArubaOS 8.4.0.2
AOS-189768	—	Symptom: A few clients were unable to receive Route Advertisements from routers, which led to connectivity issues. The fix ensures that the clients are able to receive Route Advertisements. Scenario: This issue occurred when the user migrated the managed devices from ArubaOS 6.x version to ArubaOS 8.x version. This issue was observed in IPv6 clients connected to managed devices running ArubaOS 8.2.1.0 or later versions.	Controller-Datapath	All platforms	ArubaOS 8.2.1.0
AOS-190057 AOS-192234	—	Symptom: An AP used the wrong PoE status. Enhancement to the wireless driver resolved this issue. Scenario: This issue occurred when the external switch granted greater power to the AP via LLDP negotiation, and the AP detected the power as invalid. This issue was observed in 510 Series access points running ArubaOS 8.5.0.0 or later versions.	AP-Platform	510 Series access points	ArubaOS 8.5.0.0
AOS-190154 AOS-190628 AOS-192465 AOS-195358	—	Symptom: The status of an AP was displayed as DOWN in the Access Points table under Dashboard > Infrastructure > Access Devices page in the WebUI, but the status of the AP was displayed as UP when the show ap database long command was executed. The fix ensures that the AP count matches in both the WebUI and CLI. Scenario: This issue was observed in Mobility Masters and managed devices running ArubaOS 8.3.0.0 or later versions.	DDS	All platforms	ArubaOS 8.5.0.1

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-190236	—	<p>Symptom: A few clients were not redirected to the captive portal login page. The fix ensures that the clients are redirected to the captive portal login page.</p> <p>Scenario: This issue occurred when PEFNG license was not installed in the stand-alone controller and domain name was configured in the captive portal page. This issue was observed in 7210 controllers running ArubaOS 8.2.0.0 or later versions.</p>	Captive Portal	7210 controllers	ArubaOS 8.2.1.1
AOS-190458	—	<p>Symptom: The system logs of a managed device did not display warning messages when the managed device disabled both the radios of an AP due to insufficient power. The fix ensures that the warning messages are displayed in the system log of the managed device.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.5.0.0 or later versions.</p>	AP-Platform	All platforms	ArubaOS 8.5.0.0
AOS-190905	—	<p>Symptom: An AP crashed and rebooted unexpectedly. The log file listed the reason for this event as kernel panic: subsys-restart: Resetting the SoC - q6v5-wcss crashed. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue was observed in 550 Series access points running ArubaOS 8.5.0.0 or later versions.</p>	AP-Wireless	550 Series access points	ArubaOS 8.5.0.1
AOS-190930	—	<p>Symptom: Multiple APs crashed unexpectedly. The fix ensures that the APs work as expected.</p> <p>Scenario: This issue occurred when the users disabled a cluster to add a new managed device and the APs failed over to the other cluster. This issue was observed in managed devices running ArubaOS 8.4.0.4 or later versions in a Mobility Master-Managed Device topology.</p>	AP Datapath	All platforms	ArubaOS 8.4.0.4
AOS-191035	—	<p>Symptom: When the user enabled redundancy, an error message was displayed - VRRP IP or VLAN cannot be changed when cluster group-membership is enabled. Disable cluster groupmembership on all nodes and try again. The fix ensures that the error message does not appear.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.4.0.4.</p>	Cluster-Manager	All platforms	ArubaOS 8.4.0.4

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-191106	—	<p>Symptom: A few managed device sent OSPF LSA logs with error message BAD LSA TYPE in LSA checksum causing the OSPF neighbour to go down. With the fix, Aruba controllers do not send bad LSA checksums.</p> <p>Scenario: This issue occurred when the managed device established OSPF neighbour relationship with routers other than Aruba routers. This issue was observed in managed devices running ArubaOS 8.4.0.0 or later versions.</p>	OSPF	All platforms	ArubaOS 8.4.0.0
AOS-191214	—	<p>Symptom: A few managed devices crashed and rebooted unexpectedly. The log files listed the reason for the event as Reboot Cause: Datapath timeout (SOS Assert) (Intent:cause:register 54:86:50:2). The fix ensures that the managed devices work as expected.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.2.1.0 or later versions.</p>	Controller-Datapath	All platforms	ArubaOS 8.2.1.0
AOS-191261	—	<p>Symptom: A few wireless clients were unable to connect to the network due to mac-user entries leak. The fix ensures that the clients are able to connect to the network.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.3.0.5 or later versions.</p>	Base OS Security	All platforms	ArubaOS 8.3.0.5
AOS-191496 AOS-195338	—	<p>Symptom: A few clients were unable to connect to APs. This fix ensures that the clients are able to connect to the APs.</p> <p>Scenario: This issue occurred when the status of the APs was Down though the SSIDs of the APs were available. This issue was observed in 340 Series access points running ArubaOS 8.3.0.0 or later versions.</p>	AP-Platform	340 Series access points	ArubaOS 8.4.0.2
AOS-191675	—	<p>Symptom: Some clients experienced packet loss, when they attempted to reach the destination with route-cache entry marked as inactive. The fix ensures that inactive route-cache entry is not created and a bandwidth contract is used for IP packets with errors, to avoid flooding the Captive Portal.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.3.0.3 or later versions.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.3

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-191962	—	<p>Symptom: An AP that terminated on a managed device did not come up when CPsec was enabled with auto certification. The fix ensures that the AP works as expected.</p> <p>Scenario: This issue occurred when CPsec auto cert provisioning was enabled in a Virtual Mobility Controller. This issue was observed in APs running ArubaOS 8.4.0.4 or later versions.</p>	AP-Platform	All platforms	ArubaOS 8.4.0.4
AOS-192044	—	<p>Symptom: A managed device crashed and rebooted unexpectedly. The log files listed the reason for the event as Hardware Watchdog Reset (Intent:cause:register 53:86:50:8). The fix ensures that the managed device works as expected.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.5.0.0 in a Mobility Master-Managed Device topology.</p>	Controller-Datapath	All platforms	ArubaOS 8.5.0.2
AOS-192542	—	<p>Symptom: The BSSID MTU value in data zone reverted to the previous value after the AP was rebooted. The fix ensures that the BSSID MTU value is changed successfully using the ap system-profile command.</p> <p>Scenario: This issue was observed in APs running ArubaOS 8.2.2.0 or later versions.</p>	AP-Platform	All platforms	ArubaOS 8.5.0.1
AOS-192680	—	<p>Symptom: The RADIUS attributes configured using RADIUS modifier profile were not sent in the RADIUS request for clients during 802.1x authentication. The fix ensures that the attributes from RADIUS modifier profile are sent in RADIUS request for 802.1x clients.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.4.0.0 or later versions.</p>	Base OS Security	All platforms	ArubaOS 8.5.0.1
AOS-192711	—	<p>Symptom: The load balancing between two RADIUS servers failed on a managed device. The fix ensures that load balancing between the two RADIUS authentication servers works as expected.</p> <p>Scenario: This issue occurred because the authentication requests were not distributed equally between both the RADIUS servers. This issue was observed in managed devices running ArubaOS 8.4.0.0 or later versions in a Mobility Master-Managed Device topology.</p>	RADIUS	All platforms	ArubaOS 8.5.0.1

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-192745	—	<p>Symptom: The STM process crashed unexpectedly in a managed device. This issue is resolved by increasing the buffer size of the mesh AP.</p> <p>Scenario: This issue occurred because the buffer size for mesh AP was small. This issue was observed in managed devices running ArubaOS 8.4.0.0 or later versions.</p>	Station Management	All platforms	ArubaOS 8.4.0.0
AOS-192746 AOS-193755 AOS-196642	—	<p>Symptom: Multiple APs were marked as Down and were inactive during upgrade of DHCPv6 server. The fix ensures that the APs work as expected.</p> <p>Scenario: This issue occurred when a DHCPv6 server was migrated from physical to virtual machines, and the IPv6 address of the DHCPv6 server was changed during the migration. This issue was observed in APs running ArubaOS 8.3.0.0 or later versions in a Mobility Master-Managed Device topology.</p>	DHCP	All platforms	ArubaOS 8.3.0.8
AOS-193103	—	<p>Symptom: Incorrect captive portal redirect URL was observed because of corrupt apgroup field name. The fix ensures that the correct apgroup field name is used in the captive portal redirect URL.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.4.0.4 or later versions.</p>	Captive Portal	All platforms	ArubaOS 8.4.0.4
AOS-193559	—	<p>Symptom: The crypto-local ipsec-map <ipsec-map-name> <ipsec-map-number> command did not accept IP addresses of the peer gateway that ended with 0 or 255 in a Mobility Master. As a result, the output of the peer-ip <ipaddr> command displayed the Peer address cannot be a subnet or broadcast address error message. The fix ensures that the Mobility Master allows peer IP addresses that ends with 0 or 255 except the following IP addresses: 255.255.255.255, 0.0.0.0, and 127.0.0.1</p> <p>Scenario: This issue was observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions.</p>	IPsec	All platforms	ArubaOS 8.4.0.0
AOS-193660	—	<p>Symptom: Some APs did not respond to the probe request for a hidden BSSID when two SSIDs were configured. The fix ensures that the APs respond to the probe request.</p> <p>Scenario: This issue was not limited to any specific AP model or ArubaOS release version.</p>	AP-Wireless	All platforms	ArubaOS 8.3.0.8

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-193661 AOS-193696	—	<p>Symptom: The output of several AP commands displayed Module AM is busy. Please try later. or Module AP STM is busy. Please try later. messages. The fix ensures that the error messages are not displayed for the commands.</p> <p>Scenario: This issue was observed in AP-535 access points running ArubaOS 8.3.0.0 or later versions in a Mobility Master-Managed Device topology.</p>	AP Datapath	AP-535 access points	ArubaOS 8.5.0.2
AOS-193960	—	<p>Symptom: The show ap debug radio-stats command did not display the channel utilization value. The fix ensures that the command works as expected.</p> <p>Scenario: This issue was observed in Mobility Masters running ArubaOS 8.3.0.5 or later versions.</p>	AP-Wireless	All platforms	ArubaOS 8.3.0.5
AOS-194088	—	<p>Symptom: A managed device failed to add RADIUS accounting session ID in the RADIUS access-request sent by clients. The issue is resolved by adding the missing flags containing RADIUS accounting session ID.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p>	Base OS Security	All platforms	ArubaOS 8.5.0.1
AOS-194157	—	<p>Symptom: A client that failed wired Secure Jack 802.1X authentication was able to obtain an IP address on the post-auth VLAN in a managed device. The fix ensures that the managed device works as expected.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.3.0.0 or later versions in a master-local topology.</p>	Base OS Security	All platforms	ArubaOS 8.3.0.0
AOS-194396 AOS-194397	—	<p>Symptom: An AP crashed and rebooted unexpectedly. The log files listed the reason for the event as kernel panic: Fatal exception in interrupt. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue was observed in 530 Series access points running ArubaOS 8.5.0.0 or later versions in a Mobility Master-Managed Device topology.</p>	AP-Wireless	530 Series access points	ArubaOS 8.5.0.2

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-194519 AOS-196024	—	<p>Symptom: A few 802.11r clients were unable to connect to APs during 802.1X authentication that led to packet drops in client traffic. The fix ensures that the clients are able to connect to the APs seamlessly.</p> <p>Scenario: This issue occurred when the APs were connected to Mobility Controller Virtual Appliances. This issue was observed in APs running ArubaOS 8.4.0.0 or later versions.</p>	802.1X	All platforms	ArubaOS 8.5.0.0
AOS-194586 AOS-197002	—	<p>Symptom: An 802.11ax client reconnected to an AP but did not send or receive traffic. This issue is resolved by:</p> <ul style="list-style-type: none"> ■ Setting or clearing some HE capabilities from the configured values. ■ Sending some HE operation fields to AP station manager. ■ Adjusting the configured MCS rates for the current stream count. ■ Avoiding corruption of an HE capability information element when saving the MCS rates. <p>Scenario: This issue occurred when the SSID used SAE WAP3 with HE and a client reconnected to the AP. This issue was observed in 510 Series, 530 Series, and 550 Series access points running ArubaOS 8.5.0.0.</p>	Station Management	510 Series, 530 Series, and 550 Series access points	ArubaOS 8.5.0.0
AOS-194591	—	<p>Symptom: A few managed devices were unable to form clusters between cluster nodes. The fix ensures that the managed devices work as expected.</p> <p>Scenario: This issue occurred when the traffic for port numbers 9190 and 9199 was blocked, due to which the DDS process in the managed devices was unable to synchronize and form clusters. This issue was observed in managed devices running ArubaOS 8.2.0.0 or later versions.</p>	DDS	All platforms	ArubaOS 8.5.0.2
AOS-195084 AOS-195001	—	<p>Symptom: An AP crashed and rebooted unexpectedly. The log file listed the reason for the event as kernel panic: Take care of the TARGET ASSERT first. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue was observed in AP-535 and AP-555 access points running ArubaOS 8.5.0.0 or later versions.</p>	AP-Wireless	AP-535 and AP-555 access points	ArubaOS 8.5.0.1

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-195180	—	<p>Symptom: A few clients were unable to connect to a Virtual AP that had 802.11r enabled, and the clients were deauthenticated. The fix ensures that the clients are able to connect to the Virtual AP.</p> <p>Scenario: This issue occurred after a High Availability failover. This issue was observed in APs running ArubaOS 8.3.0.0 or later versions in a Mobility Master-Managed Device topology.</p>	Station Management	All platforms	ArubaOS 8.3.0.8
AOS-195266 AOS-196392	—	<p>Symptom: The dpagent process in a managed device crashed unexpectedly. The fix ensures that the managed device works as expected.</p> <p>Scenario: This issue was observed in managed devices running ArubaOS 8.5.0.0 or later versions in a Mobility Master-Managed Device topology.</p>	Controller-Datapath	All platforms	ArubaOS 8.5.0.3
AOS-195784 AOS-197083	—	<p>Symptom: A mesh point failed to establish connection with the mesh portal. The fix ensures that mesh point comes up on the Mobility Master.</p> <p>Scenario: This issue occurred when the mesh portal was assigned a new channel. This issue was observed in 210 Series, 220 Series, and 270 Series access points running ArubaOS 8.3.0.0 or later versions.</p>	Mesh	210 Series, 220 Series, and 270 Series access points	ArubaOS 8.3.0.10
AOS-196103	—	<p>Symptom: Heartbeat failures were observed between Mobility Masters and managed devices during ZTP. The fix ensures that the controller-IP address has the correct VLAN interface and the heartbeat packets from the Mobility Master are distributed across the managed devices.</p> <p>Scenario: This issue occurred when VLAN 1 was set as the controller-IP address instead of VLAN 4094. This issue was observed in managed devices running ArubaOS 8.5.0.0 or later versions.</p>	Interface	All platforms	ArubaOS 8.5.0.3

Table 6: Resolved Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-196594	—	<p>Symptom: A few 802.1X clients were deauthenticated and lost connectivity to an AP. The fix ensures that the clients are able to connect to the AP.</p> <p>Scenario: This issue occurred when the PMK ID sent by the clients was not renewed. This issue was observed in APs running ArubaOS 8.4.0.0 or later versions.</p>	802.1X	All platforms	ArubaOS 8.5.0.3
AOS-196937	—	<p>Symptom: A stand-alone controller sent Network Advertisement using destination Layer 2 MAC address. The fix ensures that the stand-alone controller sends the Network Advertisement to the MAC address available in Source Link-Layer Address option.</p> <p>Scenario: This issue was observed in 7240XM controllers running ArubaOS 8.2.0.0 or later versions.</p>	IPv6	7240XM controllers	ArubaOS 8.5.0.1
AOS-197440	—	<p>Symptom: A few clients were deauthenticated unexpectedly by an AP. Enhancements to the wireless driver resolved this issue.</p> <p>Scenario: This issue occurred when AP impersonation event was triggered based on the number of beacon frames sent by the wireless driver to Air Monitor. This issue was observed in AP-535 access points running ArubaOS 8.5.0.0 or later versions.</p>	AP-Wireless	AP-535 access points	ArubaOS 8.5.0.4

This chapter describes the known issues and limitations observed 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.

Limitation

Zero Touch Provisioning and multi-version support for 9004 controllers are currently not supported.



It is recommended to have the Mobility Master and managed device running the same ArubaOS version.

Known Issues

Following are the known issues observed in this release.

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-131325 AOS-146748	159222 179137	<p>Symptom: The number of clients displayed in the active-standby IP field under Wireless Clients table on the Dashboard > Overview > Clients page in the WebUI is incorrect.</p> <p>Scenario: This issue occurs due to a cluster failover causing race condition. This issue is observed in Mobility Masters running ArubaOS 8.1.0.0 or later versions.</p> <p>Workaround: None.</p>	Base OS Security	All platforms	ArubaOS 8.1.0.0
AOS-145410 AOS-146962	177352 179430	<p>Symptom: A managed device crashes and reboots with the following error message: Atleast 2000 MB free flash is recommended to keep system stable. Please clean up your flash file.</p> <p>Scenario: This issue occurs when a managed device receives IP packets larger than one segment. This issue is observed in managed devices running ArubaOS 8.2.0.2 or later versions.</p> <p>Workaround: None.</p>	Controller-Platform	All platforms	ArubaOS 8.2.0.2
AOS-145566	177559	<p>Symptom: A Mobility Master is unable to forward the traffic that is sourced from an IP interface in the gateway.</p> <p>Scenario: This issue occurs when netdestinations are used in the routing ACL rule. This issue is observed in Mobility Masters running ArubaOS 8.0.1.0 or later versions.</p> <p>Workaround: None.</p>	Policy-Based Routing	All platforms	ArubaOS 8.0.1.0
AOS-151022 AOS-188417	185176	<p>Symptom: The output of the show datapath uplink command displays incorrect session count.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.1.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.1.0.0
AOS-151355	185602	<p>Symptom: A few managed devices are unable to pass traffic to the nexthop VPN concentrator (VPNC) using policy-based routing.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.0.1.0 or later versions.</p> <p>Workaround: None.</p>	Policy-Based Routing	All platforms	ArubaOS 8.0.1.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-153185	188148	<p>Symptom: The Dashboard > Security > Active rogue > Locate option does not function in the WebUI.</p> <p>Scenario: This issue is observed in Mobility Masters running ArubaOS 8.3.0.1 or later versions.</p> <p>Workaround: None.</p>	WebUI	All platforms	ArubaOS 8.3.0.1
AOS-155037	190571	<p>Symptom: A Remote AP fails to boot up.</p> <p>Scenario: This issue occurs in a Remote AP with EST key type X9.62/SECG curve. This issue is observed in AP-303H access points running ArubaOS 8.3.0.3 or later versions.</p> <p>Workaround: None.</p>	CPsec	AP-303H access points	ArubaOS 8.3.0.3
AOS-155801	191726	<p>Symptom: The SNMP walk performed from AirWave does not produce correct results.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.3.</p> <p>Workaround: None.</p>	SNMP	All platforms	ArubaOS 8.3.0.3
AOS-156085 AOS-157704	192119 194393	<p>Symptom: A few managed devices are unable to obtain the Controller-IP address during boot up after an upgrade.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.1.0.0 or later versions.</p> <p>Workaround: None.</p>	Configuration	All platforms	ArubaOS 8.1.0.0
AOS-156742 AOS-156977	193031 193319	<p>Symptom: A user is unable to make any change to IP Probe configuration, after forwarding a complete configuration by using API.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.0.1.0.</p> <p>Workaround: None.</p>	Configuration	All platforms	ArubaOS 8.0.1.0
AOS-157492	194064	<p>Symptom: VRRP authentication fails in a managed device.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.2.1.0.</p> <p>Workaround: None.</p>	VRRP	All platforms	ArubaOS 8.2.1.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-157795	194516	<p>Symptom: A few managed devices are unable to process two APN usb-init string using the uplink cellular apn command with Huawei E3372 modem.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Platform	All platforms	ArubaOS 8.3.0.6
AOS-182073 AOS-183743	—	<p>Symptom: An AP crashes and reboots unexpectedly. The log files lists the reason for the event as Reboot caused by kernel panic: Rebooting the AP because of FW ASSERT.</p> <p>Scenario: This issue is observed in AP-315 access points running ArubaOS 8.3.0.5.</p> <p>Workaround: None.</p>	IPsec	AP-315 access points	ArubaOS 8.3.0.5
AOS-183669 AOS-190457 AOS-192089 AOS-194012	—	<p>Symptom: The system LED blinks with a green light after a Remote AP connects to the managed device and boots up.</p> <p>Scenario: : This issue is observed in Remote APs running ArubaOS 8.5.0.0 or later versions.</p> <p>Workaround: None.</p>	Air Management - IDS	All platforms	ArubaOS 8.4.0.0
AOS-183998 AOS-183999	—	<p>Symptom: A few users are unable to configure the PPPoE password when they provision a Remote AP in the Configuration > Access Points > Remote APs page of the WebUI.</p> <p>Scenario: This issue occurs because the Retype password field for PPPoE is missing from the Uplink option in the provisioning page of the WebUI. This issue is observed in Remote APs running ArubaOS 8.2.2.0 or later versions.</p> <p>Workaround: None.</p>	WebUI	All platforms	ArubaOS 8.3.0.6
AOS-184135	—	<p>Symptom: A few users are unable to download applications from Google Play Store.</p> <p>Scenario: This issue occurs when the YouTube application is blocked. This issue is observed in stand-alone controllers running ArubaOS 8.4.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.4.0.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-184801	—	<p>Symptom: A few managed devices crash and reboot unexpectedly. The log files list the reason for the event as Datapath exception.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.4.0.0.</p> <p>Workaround: None.</p>	Controller - Datapath	All platforms	ArubaOS 8.4.0.0
AOS-184977 AOS-188242 AOS-188378	—	<p>Symptom: The output of basic commands such as show version, show clock, and show image version are unable to display any information and the default gateway details are missing in a managed device.</p> <p>Scenario: This issue occurs when the /tmp directory runs out of memory because of too many logs from the Policy Manager. This issue is observed in managed devices running ArubaOS 8.4.0.0 or later versions.</p> <p>Workaround: None.</p>	Routing	All platforms	ArubaOS 8.4.0.0
AOS-186133	—	<p>Symptom: A few managed devices display abnormally high multicast traffic in Performance Summary > All Radios monitoring page.</p> <p>Scenario: This issue is observed in 320 Series access points running ArubaOS 8.3.0.6.</p> <p>Workaround: None.</p>	AP-Wireless	320 Series access points	ArubaOS 8.3.0.6
AOS-186411	—	<p>Symptom: A few users are unable to remove a VLAN from port channel trunk.</p> <p>Scenario: This issue is observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: Execute the switchport trunk allowed vlan 1-4094 command to add the allowed VLAN range (1-4094). Then, execute the switchport trunk allowed vlan remove 259 command to remove the VLAN from the port channel trunk.</p>	Interface	All platforms	ArubaOS 8.3.0.0
AOS-186774	—	<p>Symptom: When the show memory cfm command is executed, a large memory allocation is displayed in the output of the command.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	Configuration	All platforms	ArubaOS 8.3.0.6

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-186860	—	Symptom: RADIUS authentication requests are sent in IP address of the managed device though they are configured to go through the loopback IP. Scenario: This issue is observed in managed devices running ArubaOS 8.4.0.0 or later versions. Workaround: None.	IPsec	All platforms	ArubaOS 8.4.0.1
AOS-187268 AOS-196356	—	Symptom: A few APs crash and reboot unexpectedly. The log files list the reason for the event as Reboot caused by kernel panic: Fatal exception . Scenario: This issue occurs when 802.11w standard is enabled in the APs. This issue is observed in APs running ArubaOS 8.3.0.0 or later versions. Workaround: None.	AP-Wireless	All platforms	ArubaOS 8.3.0.0
AOS-187422 AOS-189258	—	Symptom: The output of show log all and show audit-trail commands displays the unencrypted password entered for non-profile commands such as aaa test-server command. Scenario: This issue is observed in a Mobility Master Virtual Appliance running ArubaOS 8.3.0.5. Workaround: None.	Configuration	All platforms	ArubaOS 8.3.0.5
AOS-187479 AOS-188428	—	Symptom: The authentication server configuration details are not forwarded from the primary Mobility Master to the secondary Mobility Master in Layer-3 redundancy configuration. Scenario: This issue is observed in a Mobility Master Virtual Appliance running ArubaOS 8.4.0.0 or later versions. Workaround: None.	Configuration	All platforms	ArubaOS 8.4.0.2
AOS-187820	—	Symptom: The output of the show cpuload per-cpu command displays the same CPU load statistics for each processor. Scenario: This issue occurs after reboot of the controller. This issue is observed in managed devices running ArubaOS 8.4.0.0 or later versions. Workaround: None.	Controller-Platform	All platforms	ArubaOS 8.4.0.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-187834	—	<p>Symptom: A few APs do not send Port VLAN IDs in an LLDP packet although the native-vlan-id parameter is set using the ap system-profile command.</p> <p>Scenario: This issue is observed in APs running ArubaOS 8.2.2.0 or later versions.</p> <p>Workaround: None.</p>	AP-Platform	All platforms	ArubaOS 8.2.2.5
AOS-187911	—	<p>Symptom: The Wireless Clients section of the Dashboard > Overview page in the WebUI displays incorrect client usage values.</p> <p>Scenario: This issue is observed in Mobility Masters running ArubaOS 8.4.0.0 or later versions.</p> <p>Workaround: Add a tooltip over the usage tab to mention that the current client usage value accounts for the last 15 min.</p>	WebUI	All platforms	ArubaOS 8.4.0.0
AOS-188002 AOS-195453	—	<p>Symptom: The OFA process crashes in a managed device unexpectedly.</p> <p>Scenario: This issue occurs due to a memory leak. This issue is observed in managed devices running ArubaOS 8.2.2.0 or later versions.</p> <p>Workaround: None.</p>	SDN	All platforms	ArubaOS 8.4.0.3
AOS-188285	—	<p>Symptom: A mesh portal reboots continuously because the wpa_hex_key value exceeds more than 132 bytes string in the ap mesh-recovery-profile cluster <cluster_id> wpa-hexkey <wpa_hex_key> command. The log files list the reason for the event as AP rebooted Tue Jun 11 10:40:01 CDT 2019; Critical process /aruba/bin/meshd [pid 2450] DIED, process marked as RESTART.</p> <p>Scenario: This issue is observed in APs running ArubaOS 8.3.0.7 as a mesh portal.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Modify mesh-recovery-profile by using mesh-recovery-generate command. ■ Reboot the mesh portal and issue the setenv mesh_role 0 command on apboot in the console port of the AP . ■ Reprovision the AP to mesh portal. 	Mesh	All platforms	ArubaOS 8.3.0.7
AOS-188467	—	<p>Symptom: The AMON messages from a peer cluster display wrong value for cl_cluster_incompatible_reason.</p> <p>Scenario: This issue occurs when the incompatible reason is not reset after an incompatibility with a peer cluster member is resolved and the cluster is re-formed. This issue is observed in managed devices running ArubaOS 8.3.0.6 in a cluster topology.</p> <p>Workaround: None.</p>	Cluster-Manager	All platforms	ArubaOS 8.3.0.6

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-188478	—	<p>Symptom: The Remote AP whitelist file does not contain the first MAC address entry.</p> <p>Scenario: This issue occurs when the user executes the show whitelist-db rap export-css <filename> command to export the Remote AP whitelist file to the controller directory. This issue is observed in stand-alone controllers running ArubaOS 8.3.0.5 or later versions.</p> <p>Workaround: None.</p>	Local Database	All platforms	ArubaOS 8.3.0.5
AOS-188485 AOS-193638	—	<p>Symptom: The <ofald 237504> <ERRS> AP 32438@172.16.4.151 ofald sdn ERRS ofald_datapath_msg_rcv_cb:274 Invalid message type 126 error message is displayed every second in APs.</p> <p>Scenario: This issue is observed in APs running ArubaOS 8.4.0.0-FIPS in a Mobility Master-Managed Device topology.</p> <p>Workaround: None.</p>	SDN	All platforms	ArubaOS 8.4.0.0
AOS-188490 AOS-189847 AOS-192747 AOS-197045	—	<p>Symptom: A Mobility Master crashes and reboots unexpectedly. The log file lists the reason for the event as Datapath timeout (SOS Assert) (Intent:cause:register 54:86:0:20).</p> <p>Scenario: This issue is observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.0
AOS-188897	—	<p>Symptom: An AP crashes unexpectedly. The log files list the reason for the event as Internal error: Oops: 96000004 [#1] SMP.</p> <p>Scenario: This issue is observed in APs running ArubaOS 8.3.0.6 or later versions.</p> <p>Workaround: None.</p>	AP-Wireless	All platforms	ArubaOS 8.3.0.6
AOS-189194	—	<p>Symptom: The 5 GHz and 2.4 GHz antenna values are swapped after AP provisioning rules configuration is committed in the Configuration > Access Points > Provisioning Rules page of the WebUI.</p> <p>Scenario: This issue occurs when the user selects the Set Antenna Gain for Dual Band mode option from the Actions drop-down list in the Configuration > Access Points > Provisioning Rules page, and enters the 5 GHz and 2.4 GHz field values in the WebUI. This issue is observed in Mobility Master Virtual Appliances running ArubaOS 8.4.0.3 or later versions.</p> <p>Workaround: None.</p>	WebUI	All platforms	ArubaOS 8.5.0.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-189913 AOS-193777	—	<p>Symptom: A stand-alone controller fails to establish communication with the Activate server during ZTP.</p> <p>Scenario: This issue occurs when the database synchronization fails between the stand-alone controllers in L2 redundancy. As a result, the output of the show database synchronize command displays the Standby switch did not acknowledge the WMS database restore request message. This issue is observed in 7280 controllers running ArubaOS 8.5.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Platform	7280 controllers	ArubaOS 8.5.0.2
AOS-189977	—	<p>Symptom: A managed device crashes and reboots unexpectedly. The log file lists the reason for the event as Reboot Cause: Datapath timeout (Fpapps Initiated) (Intent:cause:register 51:86:50:2).</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.7
AOS-190071 AOS-190372	—	<p>Symptom: A few users are unable to access the websites when WebCC is enabled on the user role.</p> <p>Scenario: This issue occurs in a Per User Tunnel Node (PUTN) setup when the VLAN of user role is in trunk mode. This issue is observed in 7005 controllers running ArubaOS 8.4.0.0.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Remove web category from the ACL rules and apply any any any permit policy. ■ Disable WebCC on the user role. ■ Change the VLAN of user role from trunk mode to access mode. 	WebCC	7005 controllers	ArubaOS 8.4.0.0
AOS-190230 AOS-194760	—	<p>Symptom: A few Remote APs fail to come up on the managed device after reboot of the APs, and get the same inner IP address which has already been assigned to other Remote APs.</p> <p>Scenario: This issue occurs because most of the Remote AP whitelist database entries are removed from the Mobility Master. This issue is observed in APs running ArubaOS 8.4.0.0 or later versions.</p> <p>Workaround: Purge the Remote AP whitelist database entries on the Mobility Master and managed device, and add them again.</p>	CPsec	All platforms	ArubaOS 8.4.0.0
AOS-190240 AOS-192168	—	<p>Symptom: The SNMP OIDs provide incorrect result in a cluster setup.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	SNMP	All platforms	ArubaOS 8.3.0.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-190380 AOS-196361	—	<p>Symptom: A few users are unable to connect to VIA server from the guest account.</p> <p>Scenario: This issue occurs because PBR is not applied to data packets from UDP 4500 port. As a result, the client traffic is not forwarded correctly. This issue is observed in managed devices running ArubaOS 8.0.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.0.1.0
AOS-190836	—	<p>Symptom: The output of the show interface gigabitethernet 0/0/0 transceiver command displays the Error reading Transceiver ID Prom on 0/0/0 message when the Small Form-factor Pluggable transceiver (SFP module) is connected to the Mobility Master.</p> <p>Scenario: This issue is observed in Mobility Masters running ArubaOS 8.5.0.0 or later versions.</p> <p>Workaround: None.</p>	Controller-Platform	All platforms	ArubaOS 8.5.0.1
AOS-191539	—	<p>Symptom: The configuration synchronization fails and the status of the synchronization displays as CONFIG Failure in a managed device. The log files list the Error: Tunnel is an L2 GRE Tunnel, Delete the Vlans, before changing the mode." executing "tunnel mode gre 2048 error message.</p> <p>Scenario: This issue occurs when tunnel number 2048 is set for the interface tunnel. This issue is observed in managed devices running ArubaOS 8.4.0.0 or later versions in a Mobility Master-Managed Device topology.</p> <p>Workaround: None.</p>	Interface	All platforms	ArubaOS 8.4.0.1
AOS-191565	—	<p>Symptom: A Mobility Master Virtual Appliance displays high memory utilization.</p> <p>Scenario: This issue is observed in Mobility Master Virtual Appliances running ArubaOS 8.4.0.0 or later versions.</p> <p>Workaround: None.</p>	Firewall Visibility	All platforms	ArubaOS 8.4.0.0
AOS-191579 AOS-195733	—	<p>Symptom: A few users are unable to connect to the wireless network.</p> <p>Scenario: This issue occurs when the authentication process crashes unexpectedly in a managed device. This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	Base OS Security	All platforms	ArubaOS 8.3.0.0

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-191820	—	Symptom: The output of the show datapath dns-cache counter command does not display any information. Scenario: This issue is observed in managed devices running ArubaOS 8.5.0.1 or later versions. Workaround: None.	Controller-Datapath	All platforms	ArubaOS 8.5.0.1
AOS-192568 AOS-192736	—	Symptom: A few clients are unable to connect to APs even though High Efficiency was disabled on all the SSID profiles of the APs. Scenario: This issue is observed in AP-515 access points running ArubaOS 8.5.0.0 or later versions. Workaround: None.	DDS	AP-515 access points	ArubaOS 8.5.0.1
AOS-192841	—	Symptom: The STM process crashes on a managed device and the APs are unable to communicate with the managed device. Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.1 or later versions. Workaround: None.	AP-Platform	All platforms	ArubaOS 8.0.0.0
AOS-193083	—	Symptom: The cluster upgrade fails on a 2 node cluster because the AP platform capacity of the managed device is only 4 and the hash table size is calculated as zero. Scenario: This issue is observed in Mobility Controller Virtual Appliances running ArubaOS 8.5.0.0 or later versions. Workaround: None.	Cluster-Manager	All platforms	ArubaOS 8.5.0.0
AOS-193188	—	Symptom: The Reclassify Detected Radios pop-up window displays action commands for a specific SSID in the Dashboard > Security > Detected Radios page of the WebUI. Scenario: This issue occurs when apostrophe and quotation are added to the ESSID of a stand-alone controller. This issue is observed in 7210 controllers running ArubaOS 8.4.0.0 or later versions. Workaround: None.	WebUI	7210 controllers	ArubaOS 8.5.0.1
AOS-193775 AOS-194581	—	Symptom: A mismatch of AP count and client count is observed between the Mobility Master and the managed device. Scenario: This issue is observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions. Workaround: None.	Monitoring	All platforms	ArubaOS 8.5.0.2

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-194052	—	<p>Symptom: A few clients are unable to obtain IP addresses.</p> <p>Scenario: This issue occurs when High Efficiency is enabled on the WPA2-PSK SSID profile of the APs. This issue is observed in Mobility Controller Virtual Appliances running ArubaOS 8.5.0.0 or later versions.</p> <p>Workaround: Disable High Efficiency on the WPA2-PSK SSID profile of the APs.</p>	Controller-Platform	All platforms	ArubaOS 8.5.0.2
AOS-194146	—	<p>Symptom: A managed device does not display any warning message when the cluster profile name contains more than 32 characters.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.5.0.2 or later versions in a cluster setup.</p> <p>Workaround: None.</p>	Cluster-Manager	All platforms	ArubaOS 8.5.0.2
AOS-194325 AOS-194579	—	<p>Symptom: The datapath process in a managed device crashes multiple times.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions in a Mobility Master-Managed Device topology.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.3.0.7
AOS-194370	—	<p>Symptom: High memory utilization is observed in the cluster manager process of managed devices.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.4.0.2 or later versions in a cluster setup.</p> <p>Workaround: None.</p>	Cluster-Manager	All platforms	ArubaOS 8.4.0.2
AOS-194390	—	<p>Symptom: The SAPD process crashes in a managed device unexpectedly. The log files lists the reason for this event as RF Client failed: No such file or directory Message Code 1005 Sequence Num is 18119 Aug 29 10:35:21 sapd[2905]: RF Client failed: No such file or directory Message Code 1003 Sequence Num is 18112.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	AP-Platform	All platforms	ArubaOS 8.3.0.8

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-194706	—	<p>Symptom: A managed device crashes and reboots unexpectedly. The log files list the reason for the event as Reboot Cause: Datapath timeout (SOS Assert) (Intent:cause:register 54:86:50:4).</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.7 or later versions in a Mobility Master-Managed Device topology.</p> <p>Workaround: None.</p>	Controller-Datapath	All platforms	ArubaOS 8.5.0.2
AOS-194727	—	<p>Symptom: An AP sends RTS requests continuously to one client only and this results in delay or packet drop to other clients.</p> <p>Scenario: This issue is observed in 340 Series access points running ArubaOS 8.3.0.7 or later versions.</p> <p>Workaround: None.</p>	AP-Wireless	340 Series access points	ArubaOS 8.3.0.7
AOS-194925 AOS-195413	—	<p>Symptom: A Branch office managed device is unable to failover to a secondary VPNC managed device.</p> <p>Scenario: This issue occurs because the secondary VPNC's MAC address is not updated on the running configuration of the managed device. This issue is observed in Mobility Master Virtual Appliances and Branch office managed devices running ArubaOS 8.5.0.2 or later versions.</p> <p>Workaround: None.</p>	Configuration	All platforms	ArubaOS 8.5.0.2
AOS-194964	—	<p>Symptom: A few users are unable to clone the configuration from an existing group to a new group in a Mobility Master.</p> <p>Scenario: This issue is observed in Mobility Masters running ArubaOS 8.4.0.1 or later versions.</p> <p>Workaround: Change the operating mode of the AP from am-mode to ap-mode.</p>	Configuration	All platforms	ArubaOS 8.5.0.2
AOS-195000	—	<p>Symptom: A few APs crash unexpectedly. The log files list the reason for the event as Kernel panic: softlockup - hung tasks.</p> <p>Scenario: This issue is observed in AP-515 access points running ArubaOS 8.5.0.1 or later versions.</p> <p>Workaround: None.</p>	AP-Wireless	AP-515 access points	ArubaOS 8.5.0.1
AOS-195036	—	<p>Symptom: The authentication process in a managed device crashes unexpectedly.</p> <p>Scenario: This issue is observed in managed devices running ArubaOS 8.3.0.0 or later versions.</p> <p>Workaround: None.</p>	802.1X	All platforms	ArubaOS 8.3.0.6

Table 7: Known Issues in ArubaOS 8.5.0.5

New Bug ID	Old Bug ID	Description	Component	Platform	Reported Version
AOS-195162	—	Symptom: The WebUI is unresponsive and the licenses are not visible in the Mobility Master > Configuration > Licenses page in the WebUI. Scenario: This issue occurs when 29 non-default pools are configured and enabled. This issue is observed in Mobility Masters running ArubaOS 8.5.0.1 or later versions. Workaround: None.	Licensing	All platforms	ArubaOS 8.5.0.1
AOS-195228	—	Symptom: The device status is always displayed as inactive when SNMP walk is performed. Scenario: This issue is observed in stand-alone controllers running ArubaOS 8.5.0.2 or later versions. Workaround: None.	SNMP	All platforms	ArubaOS 8.5.0.2
AOS-195265	—	Symptom: A managed device crashes and reboots unexpectedly. The log files list the reason for the event as Datapath timeout (SOS Assert) (Intent:cause:register 54:86:50:2) . Scenario: This issue occurs due to ACL corruption. This issue is observed in managed devices running ArubaOS 8.5.0.0 or later versions. Workaround: None.	SDN	All platforms	ArubaOS 8.5.0.3
AOS-195434	—	Symptom: An AP crashes and reboots unexpectedly. The log files list the reason for the event as Reboot caused by kernel panic: Fatal exception . Scenario: This issue is observed in APs running ArubaOS 8.5.0.0 or later versions in a Mobility Master-Managed Device topology. Workaround: None.	AP-Wireless	All platforms	ArubaOS 8.5.0.2
AOS-195677 AOS-196311	—	Symptom: The airmatch_rcv process crashes unexpectedly in a Mobility Master. Scenario: This issue is observed in Mobility Masters running ArubaOS 8.3.0.0 or later versions in a Mobility Master-Managed Device topology. Workaround: None.	AirMatch	All platforms	ArubaOS 8.3.0.7
AOS-196729	—	Symptom: An AP crashes and reboots unexpectedly. The log files list the reason for the event as Unable to set up IPsec tunnel, Error:RC_ERROR_IKEV2_TIMEOUT . Scenario: This issue is observed in 340 Series access points running ArubaOS 8.5.0.3 or later versions. Workaround: None.	AP-Wireless	340 Series access points	ArubaOS 8.5.0.3

This chapter details software upgrade procedures. It is recommend that you schedule a maintenance window for the upgrade.



CAUTION

Read all the information in this chapter before upgrading your Mobility Master, managed device, master controller, or stand-alone controller.

Topics in this chapter include:

- [Important Points to Remember and Best Practices on page 46](#)
- [Memory Requirements on page 47](#)
- [Backing up Critical Data on page 48](#)
- [Upgrading ArubaOS on page 49](#)
- [Downgrading ArubaOS on page 52](#)
- [Before Calling Technical Support on page 54](#)

Important Points to Remember and Best Practices

To upgrade your managed device or Mobility Master:

- Schedule the upgrade during a maintenance window and notify your community of the planned upgrade. This prevents users from being surprised by a brief wireless network outage during the upgrade.
- Avoid making any changes to your network, such as configuration changes, hardware upgrades, or changes to the rest of the network during the upgrade. This simplifies troubleshooting.
- Know your network and verify the state of the network by answering the following questions:
 - How many APs are assigned to each managed device? Verify this information by navigating to the **Dashboard > Access Points** section of the WebUI, or by executing the **show ap active** or **show ap database** commands.
 - How are those APs discovering the managed device (DNS, DHCP Option, Broadcast)?
 - What version of ArubaOS runs on your managed device?
 - Are all managed devices running the same version of ArubaOS?
 - What services are used on the your managed device (employee wireless, guest access, Remote AP, wireless voice)?
- Resolve any existing issues (consistent or intermittent) before you upgrade.

- If possible, use FTP to load ArubaOS images to the managed device. FTP is faster than TFTP and offers more resilience over slow links. If you must use TFTP, ensure the TFTP server can send over 30 MB of data.
- Always upgrade the non-boot partition first. If you encounter any issue during the upgrade, you can restore the flash, and switch back to the boot partition. Upgrading the non-boot partition gives you a smoother downgrade path, if required.
- Before you upgrade to this version of ArubaOS, assess your software license requirements and load any new or expanded licenses that you might require. For a detailed description of these new license modules, refer *Aruba Mobility Master Licensing Guide*.

Memory Requirements

All Aruba managed devices store critical configuration data on an onboard compact flash memory module. Ensure that there is always free flash space on the managed device. Loading multiple large files such as JPEG images for RF Plan can consume flash space quickly. Following are the best practices for memory requirement:

- Do not proceed with an upgrade unless 100 MB of free memory is available. Execute the **show memory** command to identify the available free memory. To recover memory, reboot the managed device. After the managed device comes up, upgrade immediately.
- Do not proceed with an upgrade unless 150 MB of flash space is available. Execute the **show storage** command to identify the available flash space. If the output of the **show storage** command indicates that there is insufficient flash memory, free some used memory. Copy any log files, crash data, or flash backups from your managed device to a desired location. Delete the following files from the managed device to free some memory:
 - **Crash data:** Execute the **tar crash** command to compress crash files to a file named **crash.tar**. Use the procedures described in [Backing up Critical Data on page 48](#) to copy the **crash.tar** file to an external server. Execute the **tar clean crash** command to delete the file from the managed device.
 - **Flash backups:** Use the procedures described in [Backing up Critical Data on page 48](#) to back up the flash directory to a file named **flash.tar.gz**. Execute the **tar clean flash** command to delete the file from the managed device.
 - **Log file:** Execute the **tar logs** command to compress log files to a file named **logs.tar**. Use the procedures described in [Backing up Critical Data on page 48](#) to copy the **logs.tar** files to an external server. Execute the **tar clean logs** command to delete the file from the managed device.



In certain situations, a reboot or a shutdown could cause the managed device to lose the information stored in its flash memory. To avoid such issues, it is recommended that you execute the **halt** command before power cycling.

Deleting a File

You can delete a file using the WebUI or the CLI.

In the WebUI

From the Mobility Master, navigate to **Diagnostic > Technical Support > Delete Files** and remove any aging log files or redundant backups.

In the CLI

```
(host) #delete filename <filename>
```

Backing up Critical Data

It is important to frequently back up all critical configuration data and files on the flash memory to an external server or mass storage device. You should include the following files in these frequent backups:

- Configuration data
- WMS database
- Local user database
- Licensing database
- Custom captive portal pages
- x.509 certificates
- Logs
- Flashbackup

Backing up and Restoring Flash Memory

You can backup and restore flash using the WebUI or the CLI.

In the WebUI

The following steps describe how to back up and restore the flash memory:

1. In the Mobility Master node hierarchy, navigate to the **Maintenance > Configuration Management > Backup** page.
2. Click **Create Backup** to backup the contents of the flash memory to the **flashbackup.tar.gz** file.
3. Click **Copy Backup** to copy the file to an external server.
You can copy the backup file from the external server to the flash memory using the file utility in the **Diagnostics > Technical Support > Copy Files** page.
4. To restore the backup file to the Compact Flash file system, navigate to the **Maintenance > Configuration Management > Restore** page and click **Restore**.

In the CLI

The following steps describe how to back up and restore the flash memory:

1. Execute the following command in the **enable** mode:

```
(host) #write memory
```
2. Execute the following command to back up the contents of the flash memory to the **flashbackup.tar.gz** file.


```
(host) #backup flash
Please wait while we take the flash backup.....
File flashback.tar.gz created successfully on flash.
Please copy it out of the controller and delete it when done.
```

3. Execute the following command to transfer the flash backup file to an external server or storage device.

```
(host) #copy flash: flashback.tar.gz ftp: <ftphost> <ftpusername> <ftpuserpassword> <remote directory>
```

```
(host) #copy flash: flashback.tar.gz usb: partition <partition-number>
```

You can transfer the backup flash file from the external server or storage device to the compact flash file system by executing either of the following command:

```
(host) #copy tftp: <tftphost> <filename> flash: flashback.tar.gz
```

```
(host) #copy usb: partition <partition-number> <filename> flash: flashback.tar.gz
```

4. Execute the following command to untar and extract the **flashbackup.tar.gz** file to the compact flash file system.

```
(host) #restore flash
```

Please wait while we restore the flash backup.....

Flash restored successfully.

Please reload (reboot) the controller for the new files to take effect.

Upgrading ArubaOS

Upgrade ArubaOS using the WebUI or CLI.



CAUTION

Ensure that there is enough free memory and flash space on your Mobility Master or managed device. For details, see [Memory Requirements on page 47](#).



NOTE

When you navigate to the **Configuration** tab in the WebUI, the managed device might display the **Error getting information: command is not supported on this platform** message. This message occurs when you upgrade using the WebUI and navigate to the **Configuration** tab after the managed device reboots.

This message disappears after clearing the Web browser cache.

In the WebUI

The following steps describe how to upgrade ArubaOS from a TFTP server, FTP server, or local file:

1. Download the ArubaOS image from the customer support site.
2. Upload the new software image to a PC or workstation on your network.
3. Validate the SHA hash for the ArubaOS image:
 - a. Download the **Aruba.sha256** file from the download directory.

- b. Load the ArubaOS image to a Linux system and execute the **sha256sum <filename>** command. Alternatively, use a suitable tool for your operating system that can generate a **SHA256** hash of a file.
- c. Verify that the output produced by this command matches the hash value found on the customer support site.



The ArubaOS image file is digitally signed, and is verified using RSA2048 certificates preloaded at the factory. The Mobility Master or managed device will not load a corrupted ArubaOS image.

4. Log in to the ArubaOS WebUI from the Mobility Master.
5. Navigate to the **Maintenance > Software Management > Upgrade** page.
 - a. Select the **Local File** from the **Upgrade using** drop-down list.
 - b. Click **Browse** from **Image file name** to navigate to the saved image file on your PC or workstation.
6. Select the downloaded image file.
7. Choose the partition from the **Partition to Upgrade** option.
8. Enable the **Reboot Controller After Upgrade** toggle switch to automatically reboot after upgrading. If you do not want to reboot immediately, disable this option.



The upgrade does not take effect until reboot. If you chose to reboot after upgrade, the Mobility Master or managed device reboots automatically.

9. Select **Save Current Configuration**.
10. Click **Upgrade**.
11. Click **OK** when the **Changes were written to flash successfully** message is displayed.

In the CLI

The following steps describe how to upgrade ArubaOS from a TFTP server, FTP server, or local file:

1. Download ArubaOS image from the customer support site.
2. Open an SSH session to your Mobility Master.
3. Execute the **ping** command to verify the network connection between the Mobility Master and the SCP server, FTP server, or TFTP server.

```
(host)# ping <ftphost>
```

or

```
(host)# ping <tftphost>
```

or

```
(host)# ping <scphost>
```
4. Execute the **show image version** command to check if the ArubaOS image is loaded on the flash partitions. The partition number appears in the **Partition** row; **0:0** is partition 0, and **0:1** is partition 1. The active boot partition is marked as **Default boot**.

```
(host) #show image version
```

5. Execute the **copy** command to load the new image to the non-boot partition.

```
(host)# copy ftp: <ftphost> <ftpusername> <image filename> system: partition <0|1>
```

or

```
(host)# copy tftp: <tftphost> <image filename> system: partition <0|1>
```

or

```
(host)# copy scp: <scphost> <scpusername> <image filename> system: partition <0|1>
```

or

```
(host)# copy usb: partition <partition-number> <image filename> system: partition <0|1>
```

6. Execute the **show image version** command to verify that the new image is loaded.

```
(host)# show image version
```

7. Reboot the Mobility Master.

```
(host)# reload
```

Verifying the ArubaOS Upgrade

Verify the upgrade using the WebUI or CLI.

In the WebUI

Log in to the WebUI and navigate to the **Dashboard > WLANs** page to verify the ArubaOS image version.

The following steps describe how to verify that the Mobility Master is functioning as expected:

1. Log in to the WebUI to verify if all the managed devices are up after the reboot.
2. Navigate to the **Dashboard > Access Points** page to determine if your APs are up and ready to accept clients.
3. Verify that the number of access points and clients are as expected.
4. Test a different type of client in different locations, for each access method used.
5. Complete a backup of all critical configuration data and files on the flash memory to an external server or mass storage facility. See [Memory Requirements on page 47](#) for information on creating a backup.

In the CLI

Execute the **show version** command to verify the ArubaOS image version. The following steps describe how to verify that the Mobility Master is functioning as expected:

1. Log in to the CLI to verify that all your managed devices are up after the reboot.
2. Execute the **show ap active** command to determine if your APs are up and ready to accept clients.
3. Execute the **show ap database** command to verify that the number of APs and clients are as expected.

4. Test a different type of client in different locations, for each access method used.
5. Complete a backup of all critical configuration data and files on the flash memory to an external server or mass storage facility. See [Backing up Critical Data on page 48](#) for information on creating a backup.

Downgrading ArubaOS

The Mobility Master or managed device has two partitions: 0 and 1. If the upgrade fails on one of the partitions, you can reboot the Mobility Master or managed device from the other partition.

Pre-requisites

Before you reboot the Mobility Master or the managed device with the pre-upgrade ArubaOS version, perform the following steps:

1. Back up your Mobility Master or managed device. For details, see [Backing up Critical Data on page 48](#).
2. Verify that the control plane security is disabled.
3. Set the Mobility Master or managed device to boot with the previously saved ArubaOS configuration file.
4. Set the Mobility Master or managed device to boot from the system partition that contains the pre-upgrade ArubaOS version.
When you specify a boot partition or copy an image file to a system partition, Mobility Master or managed device checks if the ArubaOS version is compatible with the configuration file. An error message is displayed if the boot parameters are incompatible with the ArubaOS version and configuration files.
5. After switching the boot partition, perform the following steps:
 - Restore pre-upgrade flash backup from the file stored on the Mobility Master or managed device. Do not restore the ArubaOS flash backup file.
 - Do not import the WMS database.
 - If the RF plan was changed before switching the boot partition, the changed RF plan does not appear in the downgraded ArubaOS version.
 - If any new certificates were added in the upgraded ArubaOS version, reinstall these certificates in the downgraded ArubaOS version.

Downgrade ArubaOS version using the WebUI or CLI.

In the WebUI

The following steps describe how to downgrade the ArubaOS version:

1. If the saved pre-upgrade configuration file is on an external FTP or TFTP server, copy the file to the Mobility Master or managed device by navigating to the **Diagnostics > Technical Support > Copy Files** page.
 - a. From the **Select source file** drop-down list, select FTP or TFTP server, and enter the IP address of the FTP or TFTP server and the name of the pre-upgrade configuration file.
 - b. From the **Select destination file** drop-down list, enter a file name (other than default.cfg).
 - c. Click **Copy**.

- Determine the partition on which your pre-upgrade ArubaOS version is stored by navigating to the **Maintenance > Software Management > Upgrade** page. If a pre-upgrade ArubaOS version is not stored on your system partition, load it into the backup system partition by performing the following steps:



You cannot load a new image into the active system partition.

- Enter the FTP or TFTP server address and image file name.
 - Select the backup system partition.
 - Enable **Reboot controller after upgrade**.
 - Click **Upgrade**.
- Navigate to the **Maintenance > Software Management > Reboot** page. Select **Save configuration before reboot** option and click **Reboot**. The Mobility Master or managed device reboots after the countdown period.
 - When the boot process is complete, verify that the Mobility Master or managed device is using the correct ArubaOS version by navigating to the **Maintenance > Software Management > About** page.

In the CLI

The following section describes how to downgrade the ArubaOS version.

- If the saved pre-upgrade configuration file is on an external FTP/TFTP server, use the following command to copy it to the controller:

```
(host) # copy ftp: <ftphost> <ftpusername> <image filename> system: partition 1
```

or

```
(host) # copy tftp: <tftphost> <image filename> system: partition 1
```

- Set the controller to boot with your pre-upgrade configuration file.
- Execute the **show image version** command to view the partition on which your pre-upgrade ArubaOS version is stored. You cannot load a new image into the active system partition (the default boot).

```
#show image version
```

- Set the backup system partition as the new boot partition.

```
(host) # boot system partition 1
```

- Reboot the Mobility Master or managed device.

```
(host) # reload
```

- When the boot process is complete, verify that the Mobility Master or managed device is using the correct ArubaOS version.

```
(host) # show image version
```

Before Calling Technical Support

Provide the following information when you call Technical Support:

- The status of installation (new or existing), and any recent network changes to network, device, or AP configuration. If there was a configuration change, list the exact configuration steps and commands used.
- A detailed network topology including all the devices in the network with IP addresses and Interface numbers.
- The make and model number of the wireless device and NIC, driver date, version, and configuration of the NIC, and the OS version including any service packs or patches.
- The logs and output of the **show tech-support** command.
- The syslog file at the time of the problem.
- The date and time when the problem occurred. If the problem is reproducible, list the exact steps taken to re-create the problem.
- Any wired or wireless sniffer traces taken during the time of the problem.
- The device site access information.