

AOS-S Switch 16.10.0020

Release Notes



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These release notes include the following topics:

- [Important Information](#)
- [Terminology Change](#)
- [Version History](#)
- [Security Bulletin Subscription Service](#)
- [Compatibility/Interoperability](#)

Important Information

To avoid damage to your equipment, do not interrupt power to the switch during a software update.

Terminology Change

As part of advancing HPE's commitment to racial justice, we are taking a much-needed step in overhauling HPE engineering terminology to reflect our belief system of diversity and inclusion. Some legacy products and publications may continue to include terminology that seemingly evokes bias against specific groups of people. Such content is not representative of our HPE culture and moving forward, Aruba will replace racially insensitive terms and instead use the following new language:

Usage	Old Language	New Language
Switch Security	Master	Main
Switch Routing	Master	Main Router
Smart Link	Master-Slave	Primary-Secondary
Chassis Events, IPv6 Configuration, and Troubleshooting	Master-Slave	Management-Slot
Switch Stack	Master-Slave	Conductor-Member
Switch Security, Configuration and Routing	Blacklist, Whitelist	Denylist, Allowlist
Route Type	Blackhole Route	Null Route
Type of Hackers	Black Hat, White Hat	Unethical, Ethical

Version History



All released versions are fully supported by Hewlett Packard Enterprise, unless noted in the table.

Table 1: Version History

Version number	Software	Release Date	Remarks
16.10.0020	KB, WC, YC, and YA/YB	2022-03-16	Released, fully supported, and posted on the web.
16.10.0019	KB, WC, YC, and YA/YB	2022-01-14	Released, fully supported, and posted on the web.
16.10.0018	KB, WC, YC, and YA/YB	2021-12-13	Released, fully supported, and posted on the web.
16.10.0017	KB, WC, YC, and YA/YB	2021-09-30	Released, fully supported, and posted on the web.
16.10.0016	KB, WC, YC, and YA/YB	2021-08-06	Released, fully supported, and posted on the web.
16.10.0015	KB, WC, YC, and YA/YB	2021-06-09	Released, fully supported, and posted on the web.
16.10.0014	KB and WC	2021-05-10	Released, fully supported, and posted on the web.
16.10.0013	KB, WC, YC, and YA/YB	2021-04-09	Released, fully supported, and posted on the web.
16.10.0012	KB, WC, YC, and YA/YB	2021-01-25	Released, fully supported, and posted on the web.
16.10.0011	KB, WC, YC, and YA/YB	2020-10-28	Released, fully supported, and posted on the web.
16.10.0010	All	2020-08-24	Released, fully supported, and posted on the web.
16.10.0009	All	2020-06-30	Released, fully supported, and posted on the web.
16.10.0008	All	n/a	Never released.
16.10.0007	All	2020-04-21	Released, fully supported, and posted on the web.
16.10.0006	All	n/a	Never released.
16.10.0005	All	2020-02-17	Released, fully supported, and posted on the web.
16.10.0004	All	n/a	Never released.
16.10.0003	All	2020-01-21	Released, fully supported, and posted on the web.
16.10.0002	All	2019-11-04	Released, fully supported, and posted on the web.
16.10.0001	All	2019-10-07	Initial release of the 16.10 branch. Released, fully supported, and posted on the web.

Security Bulletin Subscription Service

You can sign up at https://sirt.arubanetworks.com/mailman/listinfo/security-alerts_sirt.arubanetworks.com to initiate a subscription to receive future Aruba Security Bulletin alerts via email.

Compatibility/Interoperability

The switch web agent supports the following web browsers:

- Internet Explorer- Edge, 11
- Chrome- 53, 52
- Firefox- 49, 48
- Safari (MacOS only)- 10, 9



HPE recommends using the most recent version of each browser as of the date of this release note.

This release note covers software versions for the KB.16.10 branch of the software.

Version KB.16.10.0001 is the initial build of Major version KB.16.10 software. KB.16.10.0020 includes all enhancements and fixes in the KB.16.10.0019 software, plus the additional enhancements and fixes in the KB.16.10.0020 enhancements and fixes sections of this release note.

This release applies to the following Aruba 5400R Switch Series and Aruba 3810M Switch Series:

Table 2: Products Supported

Product number	Description
J9821A	Aruba 5406R z12 Switch
J9823A	Aruba 5406R 44G PoE+/2SFP+ (No PSU) v2 z12 Switch
J9824A	Aruba 5406R 44G PoE+/4SFP (No PSU) v2 z12 Switch
J9822A	Aruba 5412R z12 Switch
J9825A	Aruba 5412R 92G PoE+/2SFP+ (No PSU) v2 z12 Switch
J9826A	Aruba 5412R 92G PoE+/4SFP (No PSU) v2 z12 Switch
J9868A	Aruba 5406R 8XGT/8SFP+ (No PSU) v2 z12 Switch
JL001A	Aruba 5412R 92GT PoE+ / 4SFP+ (No PSU) v3 z12 Switch
JL002A	Aruba 5406R 8 port 1/2.5/5/10GBASE T PoE+ / 8 port SFP+ (No PSU) v3 z12 Switch
JL095A	Aruba 5406R 16 port SFP+ (No PSU) v3 z12 Switch
JL003A	Aruba 5406R 44GT PoE+ / 4SFP+ (No PSU) v3 z12 Switch
JL071A	Aruba 3810M 24G 1 slot Switch
JL072A	Aruba 3810M 48G 1 slot Switch
JL073A	Aruba 3810M 24G PoE+ 1 slot Switch
JL074A	Aruba 3810M 48G PoE+ 1 slot Switch
JL075A	Aruba 3810M 16SFP+ 2 slot Switch
JL076A	Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1 slot Switch

Minimum Supported Software Versions



If your switch or module is not listed in the below table, it runs on all versions of the software.

Table 3: Minimum Supported Software Versions

Product number	Product name	Minimum software version
J9986A	HPE 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module	KB.15.17.0003
J9987A	HPE 24-port 10/100/1000BASE-T MACsec v3 zl2 Module	KB.15.17.0003
J9988A	HPE 24-port 1GbE SFP MACsec v3 zl2 Module	KB.15.17.0003
J9989A	HPE 12-port 10/100/1000BASE-T PoE+ / 12-port 1GbE SFP MACsec v3 zl2 Module	KB.15.17.0003
J9990A	HPE 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec v3 zl2 Module	KB.15.17.0003
J9991A	HPE 20-port 10/100/1000BASE-T PoE+ / 4p 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	KB.15.17.0003
J9992A	HPE 20-port 10/100/1000BASE-T PoE+ MACsec / 1-port 40GbE QSFP+ v3 zl2 Module	KB.15.17.0003
J9993A	HPE 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module	KB.15.17.0003
J9995A	HPE 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	KB.15.17.0003
J9996A	HPE 2-port 40GbE QSFP+ v3 zl2 Module	KB.15.17.0003
JH231A	HPE X142 40G QSFP+ MPO SR4 Transceiver	KB.15.17.0003
JH232A	HPE X142 40G QSFP+ LC LR4 SM Transceiver	KB.15.17.0003
JH233A	HPE X142 40G QSFP+ MPO eSR4 300M XCVR	KB.15.17.0003
JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	KB.15.17.0003
JH235A	HPE X242 40G QSFP+ to QSFP+ 3m DAC Cable	KB.15.17.0003
JH236A	HPE X242 40G QSFP+ to QSFP+ 5m DAC Cable	KB.15.17.0003
JL001A	Aruba 5412R 92GT PoE+ / 4SFP+ (No PSU) v3 zl2 Switch	KB.15.17.0003
JL002A	Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch	KB.15.17.0003
JL003A	Aruba 5406R 44GT PoE+ / 4SFP+ (No PSU) v3 zl2 Switch	KB.15.17.0003
JL095A	Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch	KB.15.17.0003
JL075A	Aruba 3810M 16SFP+ 2-slot Switch	KB.16.01.0004
JL071A	Aruba 3810M 24G 1-slot Switch	KB.16.01.0004

Product number	Product name	Minimum software version
JL073A	Aruba 3810M 24G PoE+ 1-slot Switch	KB.16.01.0004
JL076A	Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch	KB.16.01.0004
JL072A	Aruba 3810M 48G 1-slot Switch	KB.16.01.0004
JL074A	Aruba 3810M 48G PoE+ 1-slot Switch	KB.16.01.0004
JL081A	Aruba 3810M/2930M 4 1/2.5/5/10 GbE HPE Smart Rate Module	KB.16.04.0008
JL308A	Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	KB.16.04.0008
JL745A	Aruba 1G SFP LC SX 500m MMF TAA XCVR	KB.16.10.0007
JL746A	Aruba 1G SFP LC LX 10km SMF TAA XCVR	KB.16.10.0007
JL747A	Aruba 1G SFP RJ45 T 100m Cat5e TAA XCVR	KB.16.10.0007
JL748A	Aruba 10G SFP+ LC SR 300m MMF TAA XCVR	KB.16.10.0007
JL749A	Aruba 10G SFP+ LC LR 10km SMF TAA XCVR	KB.16.10.0007



For information on networking application compatibility, see the Software Feature Support Matrix.

Enhancements

This section lists enhancements added to this branch of the software.

Software enhancements are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all enhancements added in earlier versions.

Table 4: *Enhancements*

Version	Software	Description	Category
16.10.0020	KB	<p>OSPF Route Filtering feature provides an option to filter the intra-area routes from installing into local FIB table.</p> <p>By using this, operator can create <code>distribute-list</code> with one or more network addresses which will be used to filter the intra area routes in OSPFv2/OSPFv3.</p> <p>Syntax:</p> <p>OSPFv2: <code>distribute-list <IP-ADDR>/<Prefix-Len></code></p> <p>OSPFv3: <code>distribute-list <IPV6-ADDR>/<Prefix-Len></code></p>	OSPF/OSPFv3

Version	Software	Description	Category
		Refer to the <i>Aruba 3810/5400R Multicasting and Routing Guide for AOS-S Switch 16.11</i> and <i>Aruba 3810/5400R IPv6 Configuration Guide for AOS-S Switch 16.11</i> for more information.	
16.10.0020	KB	<p>Added support in Device fingerprinting (DFP) module to send protocol data to Aruba Central for telemetry.</p> <p>Added <code>options-list</code> parameter to device-fingerprinting CLI. Switch software is enhanced to collect DHCP options list and up to three instances of HTTP user agent headers.</p> <p>Syntax: <code>device-fingerprinting [policy]<PROFILE_NAME> dhcp [option-num <NUM> options-list]</code>.</p> <p>Refer to the <i>Aruba 3810/5400R Access Security Guide for AOS-S Switch 16.11</i> for more information.</p>	Device Finger Printing
16.10.0019	KB	No enhancements were included in version 16.10.0019.	NA
16.10.0018	KB	<p>The Enrollment over Secured Transport (EST) client feature is updated to download and renew the CA certificates from an EST server independent of application certificate enrollment.</p> <p>A new command <code>est-server <profile-name> cacerts-download</code> is added to enable independent CA certificate download from the EST server. This enhancement initiates automatic CA certificate download and renewal when the existing TA profile is about to expire. The switch will use the existing <code>est-server <profile-name> re-enrollment-prior-expiry</code> command to determine how many days in advance the renewal is to be done. A MIB has also been added to enable automatic download and renewal of the CA certificates from the EST server.</p> <p>Refer to the <i>Aruba 3810/5400R Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	EST
16.10.0017	KB	<p>TCP timestamps are an extension to the original TCP stack, that was introduced to identify and reject old duplicate packets (PAWS) and to improve round-trip-time measurement. Using a scanner or other tool, an attacker can observe the TCP timestamp and determine the system uptime to gain information about the operational state of the system.</p> <p>To avoid such risks, a new command <code>ip tcp randomize-timestamp</code> has been introduced to randomize the TCP timestamp offsets per connection. Once the command is issued, all the newly established TCP sessions will use a random offset along with the timestamp.</p> <p>A MIB has also been added to enable or disable the randomization of TCP timestamp offsets.</p> <p>Refer to the <i>Aruba 3810/5400R Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	Security

Version	Software	Description	Category
16.10.0017	KB	<p>This is an enhancement to an existing User-Based Tunneling <code>vlan-extend-enable</code> (VLAN-aware) mode. Silent devices like Programmable Logic Controller (PLC) devices do not initiate any traffic until they receive a message from the uplink server. Thus, such devices cannot leverage the benefits of colorless ports, which include being authenticated through a RADIUS server and being dynamically placed in a VLAN or being tunneled to a controller.</p> <p>To support such silent devices, a new command <code>tunneled-node-server ubt-wol-enable vlan <VLAN-ID-LIST></code> has been introduced. This command configures the silent client so that the controller allows the first packet from the silent server to reach the silent client without a user tunnel. This will initiate user authentication and tunnel formation.</p> <p>A MIB has also been added to enable User-Based Tunneling Wake-on-LAN (WoL) on the specified VLANs. Refer to the <i>Aruba 3810/5400R Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	Support for Silent Device
16.10.0016	KB	<p>Added support for the new SSH data integrity algorithm <code>hmac-sha2-256</code>, which is defined in RFC 6668. Refer to the <i>Aruba 3810/5400R Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba 3810/5400R IPv6 Configuration Guide for AOS-S Switch 16.10</i> for more information.</p>	SSH
16.10.0016	KB	<p>Added support to configure the size of the EAP-TLS fragments sent from the switch to the RADIUS server. Configuring EAP-TLS fragment size based on the MTU of the network avoids IP fragmentation in the network, and thus, the fragmented packets will not be dropped by the firewall or gateways.</p> <p>Added a MIB to indicate the maximum size of the EAP-TLS fragment sent to the RADIUS server. Refer to the <i>Aruba 3810/5400R Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	EAP-TLS Fragmentation
16.10.0015	KB	No enhancements were included in version 16.10.0015.	NA
16.10.0014	KB	No enhancements were included in version 16.10.0014.	NA
16.10.0013	KB	<p>Added support to user roles to establish user-based tunneling to tunnel voice and data traffic selectively and authenticate critical-role user in the event of RADIUS server unavailability. Refer to the <i>Aruba 3810/5400R Access Security Guide for AOS-S Switch 16.10</i> and the <i>Aruba 3810/5400R Management and Configuration Guide for AOS-S Switch 16.10</i> for more information.</p>	Enhancement in traffic tunneling and critical-role authentication

Version	Software	Description	Category
16.10.0013	KB	Added MIBs to display the count of total and operational members in a VSF and BPS stack. Refer to the <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.	Back Plane Stacking (BPS) and Virtual Switch Framework (VSF)
16.10.0012	KB	Added <code>concise</code> parameter to display port-access and spanning-tree attributes in a consolidated format, when executing <code>show config</code> and <code>show running-config</code> commands.	Enhancement for <code>show config</code> and <code>show running-config</code> commands
16.10.0012	KB	Added support to enable SNMP traps for a specified event. This helps to filter out particular traps from all SNMP trap messages. Syntax: <code>snmp-server enable traps event-list <EVENT-LIST-STR></code>	Customization for SNMP Traps
16.10.0012	KB	Added <code>recv-disable</code> parameter to configure loop-protect from blocking the receiving port when a loop is detected. Syntax: <code>no loop-protect <PORT-LIST> receiver-action [recv-disable]</code>	Configuration for loop-protect receiver-action
16.10.0012	KB	Added support to maintain the current role of the User Based Tunneling client in the switch instead of de-authenticating the client during controller maintenance. The client traffic flow is resumed at the switch ingress port when the controller is reachable. NOTE: The client is de-authenticated when the controller is not available even after the configured maintenance period.	Enhancement for <code>tunneled-node-server</code> command
16.10.0011	KB	Improved performance when executing <code>show config</code> command.	Performance improvements for <code>show config</code> command
16.10.0011	KB	Added support to format MAC address in upper case for the Called and Calling Station IDs. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	KB	Added support to include the Port VLAN information in RADIUS access request for all authentication types. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	KB	Added support to enable AES 256-bit encryption for SNMP. Refer to the <i>Management and Configuration Guide</i> for more information.	AES 256-bit encryption for SNMP

Version	Software	Description	Category
16.10.0011	KB	<p>Added support to configure a prefix string along with the switch IP address or hostname in the logs sent to the Syslog servers. This helps to classify and group log entries based on the string value.</p> <p>Syntax: <code>logging prefix <ASCII-STR></code></p> <p>Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Syslog Enhancement
16.10.0011	KB	<p>Added support to schedule a stack or chassis reboot.</p> <p>Syntax: <code>reload <after at> [system]</code></p> <p>Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Stacking Enhancement
16.10.0010	KB	<p>Added support to provide the option to specify the source interface or VLAN for Central connectivity. The existing IP source-interface command is enhanced to override current configuration check for provisioning using Aruba Activate. Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Source interface option for Central connectivity
16.10.0010	KB	<p>Added support to allow more PoE devices to be connected to the switch by using <code>poe-alloc-by-usage</code>, when using Device Profiles. This can be based on either Usage or Class. Default allocation will be based on Class. Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Device Profile Enhancement
16.10.0010	KB	<p>Added support for FQDN (only IPv4) while configuring TACACS server along with the existing support of IP address. Refer to the <i>Access Security Guide</i> for more information.</p>	TACACS Option
16.10.0010	KB	<p>Added support to work with the default setting in OpenSSH 8.2 by choosing an inherently more secure algorithm as the default on the switch for SSH communication. Refer to the <i>Access Security Guide</i> for more information.</p> <p>The list of new Host-Key algorithms are as follows:</p> <ul style="list-style-type: none"> ■ <code>rsa-sha2-512</code> ■ <code>rsa-sha2-256</code> <p>The list of new SSH KEX algorithms are as follows:</p> <ul style="list-style-type: none"> ■ <code>ecdh-sha2-nistp521</code> ■ <code>ecdh-sha2-nistp381</code> ■ <code>ecdh-sha2-nistp256</code> ■ <code>diffie-hellman-group-exchange-sha256</code> 	Support for OpenSSH 8.2
16.10.0010	KB	<p>Improved performance when displaying large configurations.</p>	Performance improvements for <code>show running-config</code> command

Version	Software	Description	Category
16.10.0010	KB	Added RMON logging for the failure events in SSH, Web UI, Syslog over TLS sessions, and x509 certificate processing. Refer to the <i>Event Log Message Reference Guide</i> for more information.	RMON logging
16.10.0009	KB	Added support for the manager password enforcement to ensure that the switch prompts the user to configure the manager password on the switch before configuring any other features. If the manager password is not configured, then the user will have read-only access to the switch. This is applicable only to switches with factory default configuration. Refer to the <i>Access Security Guide</i> for more information.	Manager Password Enforcement
16.10.0009	KB	Added support to enhance the payload size for the REST API interfaces. The increased payload size for 3810M and 54xxR platforms is 1024K. Refer to the <i>REST API Guide</i> for more information.	REST API Payload Enhancement
16.10.0009	KB	Added support for Server Name Indication (SNI), which is a TLS extension defined in RFC 6066. This feature is enabled by default to include the SNI extension in the Client Hello sent from the switch to all the TLS client applications. Refer to the <i>Access Security Guide</i> for more information.	Server Name Indication for TLS
16.10.0008	KB	Version 16.10.0008 was never released.	NA
16.10.0007	KB	<ul style="list-style-type: none"> ■ Added additional support for pipe " " option to grep for pattern match the output of CLI commands, such as: <ul style="list-style-type: none"> ○ Case-insensitive option to allow a case insensitive pattern match ○ Up to four consecutive pattern matches in one CLI command ■ Added support for a per-session based command to wrap column display in the CLI output using session wrap-text option when its length is exceeding the column width. Refer to the Management and Configuration Guide for more information. 	CLI
16.10.0007	KB	<p>Added the following REST enhancements:</p> <ul style="list-style-type: none"> ■ Support for ARP table data. ■ Support for downloadable user-roles configuration. ■ Support for primary VLAN. ■ Support for reserved-vlan and clearpass options to configure dynamic segmentation. ■ REST API schema moved under device-rest-api/services/server.html. Refer to the <i>REST API Guide</i> for more information. 	REST
16.10.0007	KB	Added support for the following 1G and 10G TAA transceivers:	Transceivers

Version	Software	Description	Category
		<ul style="list-style-type: none"> ■ JL745A - Aruba 1G SFP LC SX 500m MMF TAA XCVR ■ JL746A - Aruba 1G SFP LC LX 10km SMF TAA XCVR ■ JL747A - Aruba 1G SFP RJ45 T 100m Cat5e TAA XCVR ■ JL748A - Aruba 10G SFP+ LC SR 300m MMF TAA XCVR ■ JL749A - Aruba 10G SFP+ LC LR 10km SMF TAA XCVR 	
16.10.0007	KB	<p>Added support for the new activate endpoint devices-v2.arubanetworks.com which has the following two major differences compared to the old endpoint device.arubanetworks.com:</p> <ul style="list-style-type: none"> ■ It works on the standard TLS handshake mechanism and uses mutual authentication. ■ It uses certificates issued by HP CA for establishing TLS connections. <p>Zero Touch Provisioning (ZTP) improvements were made to deal with situations such as unresponsive DNS servers. Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Zero Touch Provisioning
16.10.0006	KB	Version 16.10.0006 was never released.	NA
16.10.0005	KB	No enhancements were included in version 16.10.0005.	NA
16.10.0004	KB	Version 16.10.0004 was never released.	NA
16.10.0003	KB	<p>New command <code>aaa accounting session-id include-switch-identity</code> was added. When this command is invoked, an accounting session ID is generated with Switch Base MAC, Client MAC, and Timestamp for network accounting type. The other accounting types (<code>exec</code>, <code>system</code>, <code>commands</code>) do not include Client MAC and hence the session ID is generated with Switch Base MAC, Track ID, and Timestamp.</p> <p>If the same client is accessing the network from multiple switches, then the accounting session ID can be duplicated. This caused issues in Clearpass where client insertion in the database failed with an error similar to Integrity Error: <code>acct_id, calling_station_id</code> violates check constraint. This new command alleviates that problem.</p>	AAA
16.10.0003	KB	Extended the device identify capability by just matching based on the attribute MAC OUI to the Sys name and Sys description attributes.	Device profile

Version	Software	Description	Category
16.10.0003	KB	This enhancement will only be in effect if the CoA/Disconnect request has a message authenticator attribute in request packet. The message authenticator attribute is used to verify the integrity (HMAC-MD5) of the RADIUS packet. This is an optional attribute in the Access/CoA/Disconnect packet. If the received packet has this attribute in the RADIUS packet, the receiver will validate the integrity value and discard it if the value is incorrect.	RADIUS
16.10.0002	KB	No enhancements were included in version 16.10.0002.	NA
16.10.0001	KB	No enhancements were included in version 16.10.0001.	NA

Fixes

This section lists released builds that include fixes found in this branch of the software. Software fixes are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all fixes added in earlier versions.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue for customers who decide not to update to this version of software.

The number that precedes the fix description is used for tracking purposes.

Table 5: Fixed Issues

Version	Bug ID	Software	Description	Category
16.10.0020	256274	KB	Symptom/Scenario: VSF Stack Member crashed with a message similar to the following: <code>Software exception at lava_chassis_slot_sm.c:3626 - in 'eChassMgr', task ID = 0x37b07bc0.</code>	VSF
16.10.0020	256257	KB	Symptom/Scenario: Certain transceivers had link issues in unsupported transceiver mode.	Transceivers
16.10.0020	256234	KB	Symptom: The <code>show rmon statistics <port no></code> command returns the wrong counter values. Scenario: This issue occurred when the <code>clear statistics global</code> or <code>clear statistics <port no></code> was executed first and then <code>show rmon statistics <port no></code> .	CLI
16.10.0020	256233	KB	Symptom: Client ports may encounter packet drops when multicast sources stream video over 500 Mbps.	IGMP-NG

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue can occur when multiple clients from different ports subscribed to the same group, which streams using HD channels requiring high bandwidth. TX drops can occur when several clients change channels simultaneously.</p> <p>Workaround: Lower the bandwidth of the video streams to below 500 Mbps in order to avoid over-subscription of ports.</p>	
16.10.0020	256220	KB	<p>Symptom: Missing OSPF routes.</p> <p>Scenario: This issue occurred when both userbased tunneling and OSPF are configured and either of the uplinks to the controller is down.</p> <p>NOTE: <code>source-interface</code> to be configured for tunneled node when the switch has more than one vlan to the reach the controller.</p>	OSPFv2
16.10.0020	256205	KB	<p>Symptom: A configuration template push from Aruba Central fails.</p> <p>Scenario: This issue occurred when the end devices are connected to ports that are configured with <code>port-security learn-mode static</code>.</p>	Central Integration
16.10.0020	256140	KB	<p>Symptom: The switch crashes with an error message: <code>NMI event</code>.</p> <p>Scenario: This issue occurred when the HP MSM 775 wireless controller was connected to the switch and <code>snmpwalk</code> was executed.</p>	SNMPV2
16.10.0020	256167	KB	<p>Symptom: Ports with per-port tunneled node (PPTN) configured might be disabled after a switch reboot.</p> <p>Scenario: This issue occurred when a device profile was configured with <code>tunneled-node</code>.</p> <p>Workaround: Disable and enable the problematic PPTN enabled port manually.</p>	Tunneled Node
16.10.0020	255916	KB	<p>Symptom/Scenario: Slot crashes with signatures <code>OMFP LPTR Err Status = 0x00000310 (DEC_ERR_CNT)</code> and <code>FR Error = 0x18000020 (ALLOC_CHIP_PORT_UNDERFLOW)</code>.</p>	Basic Layer2
16.10.0019	256115	KB	<p>Symptom: Although the switch does not react to pings or SSH commands, it continues to transit traffic. The event log contains a crash message.</p> <p>Scenario: This issue occurred when device fingerprinting was configured with DHCP protocol.</p>	CPPM
16.10.0019	256200	KB	<p>Symptom: Per-port tunneled node (PPTN) disables the port for one second as part of tunnel deletion.</p>	Tunneled Node

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the device-profile application with tunneled-node was disabled on a PPTN enabled port.</p> <p>Workaround: Disable and enable the problematic PPTN enabled port manually.</p>	
16.10.0019	256121	KB	<p>Symptom: Web authentication fails when the switch is managed by Aruba Central (<code>aruba-central support-mode disable</code>).</p> <p>Scenario: This issue occurred when the switch was connected to Aruba Central and <code>aruba-central support-mode</code> was disabled.</p> <p>Workaround: Execute <code>aruba-central support-mode enable</code> command so the switch is longer managed by Aruba Central.</p>	Web Authentication
16.10.0019	256144	KB	<p>Symptom: Switch is unable to connect to Activate.</p> <p>Scenario: This issue occurred during the initial onboarding of the switch, however it can also occur after the switch is visible on Aruba Central.</p>	Activate
16.10.0018	256037	KB	<p>Symptom: Clients are not authenticated on a switch port.</p> <p>Scenario: This issue occurred when multiple clients were connected to a single port (for example, a Personal Computer (PC) was connected to a phone), both MAC authentication and 802.1X authentication methods were attempted at the same time on the PC, and both the authentication methods used the same user role attribute.</p> <p>Workaround: Configure the <code>auth-order</code> parameter first with <code>authenticator</code>, and then with <code>mac-based</code>.</p>	802.1X
16.10.0018	255928	KB	<p>Symptom/Scenario: A switch is unable to connect to Aruba Central.</p>	Aruba Central
16.10.0018	255940	KB	<p>Symptom: A switch crashes with a message similar to the following:</p> <pre>Software exception at svc_misc.c:1088 - in 'mDHCPClient'</pre> <p>-> Failed to malloc 9202 bytes.</p> <p>Scenario: This issue occurred when the switch attempted to reconnect to Aruba Central.</p>	Aruba Central
16.10.0018	255978	KB	<p>Symptom: A switch crashes with a message similar to the following:</p> <pre>Software exception in ISR at pvDmaVlRx.c</pre> <p>-> ASSERT: No resources available!.</p>	Authentication

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when 802.1X and MAC authentication were enabled on the same port with auth-order, and the client was initially authenticated through MAC authentication with a user role having the <code>port mode</code> attribute.</p>	
16.10.0018	255995	KB	<p>Symptom: A switch crashes when the <code>show port-access clients</code> command is issued or when an <code>SNMP GET</code> operation is performed to get the MIB object <code>hpicfUsrAuthMacAuthSessionStatsEntry</code>.</p> <p>Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.</p>	Authentication
16.10.0018	255896	KB	<p>Symptom: A stack member loses connection to the stack and gets stuck in a boot loop.</p> <p>Scenario: This issue occurred when the stacking links were configured as a full mesh, and two links went down leaving the stacking links in a chain configuration.</p>	Back Plan Stacking
16.10.0018	254566	KB	<p>Symptom: Traffic fails to pass through an IEEE 802.1ad tunnel.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ol style="list-style-type: none"> 1. A Small Form-factor Pluggable+ (SFP+) port was configured as an uplink. 2. IEEE 802.1ad was configured on the same port. 3. The switch was rebooted without a transceiver in the slot. 4. A 1G SFP transceiver was inserted during the runtime. <p>Workaround: Insert the 1G SFP transceiver, and then reboot the switch.</p>	IEEE 802.1ad
16.10.0018	256123	KB	<p>Symptom: Received packet drops are observed on a port.</p> <p>Scenario: This issue occurred when the TCP traffic, with the push flag set, consumed 100% bandwidth on a 1G port of a V3 module.</p>	Interfaces
16.10.0018	256016	KB	<p>Symptom: When a private VLAN is configured on a switch, the traffic from the secondary VLAN does not reach the primary VLAN.</p> <p>Scenario: This issue occurred when the switch was rebooted, and the secondary VLAN contained a tagged trunk or Link Aggregation Control Protocol (LACP) port.</p>	Private VLAN

Version	Bug ID	Software	Description	Category
			Workaround: Remove and add the tagged trunk or LACP configuration to the secondary VLAN.	
16.10.0018	256034	KB	Symptom: SNMP MIB files are not reachable, and the MIB file returns some errors. Scenario: This issue occurred when the customer used an SNMP monitoring tool to read or parse the MIB files.	SNMP
16.10.0018	256050	KB	Symptom: A switch crashes when the WebUI Security > Clientspage is accessed. Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.	Web UI
16.10.0017	255888	KB	Symptom/Scenario: When a proxy server is configured on the switch, the switch does not onboard into Aruba Central or Activate.	Aruba Central
16.10.0017	255762	KB	Symptom/Scenario: A switch crashes with the following message: OMFP LPTR Err Status = 0x00000310 (DEC_ERR_CNT) .	Chassis
16.10.0017	255799	KB	Symptom: The user is unable to copy a configuration file to the switch using Secure File Transfer Protocol (SFTP) and the following error message is displayed. Invalid input: grep usage error Scenario: This issue occurred when the pipe character () was used as a part of the command input for some configuration commands, such as the <code>banner motd</code> and <code>snmpv3 user</code> commands. Workaround: Do not use the pipe character () in the command input for the configuration commands.	Configuration
16.10.0017	255908	KB	Symptom/Scenario: A new multicast stream is initially broadcast on a VLAN even when no IGMP join is sent.	IGMP
16.10.0017	255195	KB	Symptom: The switch memory utilization spikes and might reach to 100%. Scenario: This issue occurred when many ports were monitored and mirrored to one port. Workaround: Disable mirroring on the ports.	Mirroring

Version	Bug ID	Software	Description	Category
16.10.0017	255825	KB	Symptom/Scenario: When a switch is rebooted through an SSH session, the <code>show boot-history</code> , <code>show logging</code> , and <code>boot</code> command outputs include the <code>Operator cold reboot</code> from TELNET session message instead of the <code>Operator cold reboot from SSH session</code> message.	SSH
16.10.0017	255827	KB	Symptom/Scenario: A switch crashes with the following message: <pre>Health Monitor: Invalid Instr Misaligned Mem AccessTask='InetServer'.</pre>	System
16.10.0017	255760	KB	Symptom/Scenario: A switch crashes with the following message: <pre>Software exception at bsp_ interrupts.c:90 - in 'fault_handler'.</pre>	Tunneled Node
16.10.0016	255682	KB	Symptom: The RADIUS accounting packets sent from the switch to the RADIUS server do not contain the correct client IP address. Scenario: This issue occurred when both user authentication and MAC authentication were configured.	802.1X
16.10.0016	255400	KB	Symptom: The switch is unable to connect to Activate or Aruba Central. Scenario: This issue occurred when the <code>show crypto pki ta-profile</code> command displayed <code>Pending Root Certificate In...</code> for the <code>GEOTRUST_CA</code> profile, and the following event was recorded in the event log: <pre>05222 activate: ST1-CMDR: Error connecting to the Activate server: Activate TLS connection error.</pre>	Activate
16.10.0016	255653	KB	Symptom: The switch crashes with a Non-Maskable Interrupt (NMI) event. Scenario: The switch crashed because of the following reasons: <ol style="list-style-type: none"> 1. The switch was configured to receive a DHCP address. 2. The <code>activate provision force</code> command was configured on the switch. 3. The <code>no activate software-update</code> 	Activate

Version	Bug ID	Software	Description	Category
			check command was executed.	
16.10.0016	255554	KB	Symptom/Scenario: When the switch is powered on for the first time and ZTP is initiated, the switch does not come online in Aruba Central. Workaround: Reboot the switch or execute the <code>reset saved-configuration</code> command.	Central
16.10.0016	255672	KB	Symptom/Scenario: A configuration push from Aruba Central fails when the configuration contains the <code>crypto pki enroll-est-certificate</code> command. Workaround: Add a valid value for <code>Enter Country (C)</code> field in the <code>subject</code> fields of the <code>crypto pki enroll-est-certificate</code> command.	Central
16.10.0016	255697	KB	Symptom: The switch crashes with the following message: <code>Software exception in ISR at btmDmaApi.c:650 -> ASSERT: No resources available!.</code> Scenario: This issue occurred when there was a repeated hardware fault in one of the power supplies.	Chassis Manager
16.10.0016	255570	KB	Symptom/Scenario: The <code>Rx Errors</code> counter in the <code>show interfaces</code> command output is not cleared when the <code>clear statistics global</code> command is executed.	CLI
16.10.0016	255719	KB	Symptom: The IP address of the next server is not present in the DHCP response packet. Scenario: This issue occurred when the DHCP server with option 66 and option 150 was configured in the server pool.	DHCP Server
16.10.0016	255417	KB	Symptom: The switch crashes with an NMI event. Scenario: This issue occurred when the DHCP snooping traffic was sent continuously to the switch with DHCP option 82, and the DHCP clients rebooted frequently.	DHCP Snooping
16.10.0016	255552	KB	Symptom/Scenario: Mirrored egress packets are tagged even though the <code>no-tag-added</code> option is configured. Workaround: Reapply the existing monitor configuration after removing the configuration using the <code>no monitor all both mirror 1</code> command.	Port Mirroring

Version	Bug ID	Software	Description	Category
16.10.0016	255593	KB	<p>Symptom: The switch crashes when the <code>qos trust dscp</code> configuration is applied.</p> <p>Scenario: This issue occurred when the <code>qos trust dscp</code> command was configured on an admin disabled port of a v2 module.</p> <p>Workaround: Enable the port before configuring the <code>qos trust dscp</code> command.</p>	QoS
16.10.0016	255638	KB	<p>Symptom: Some PBT clients experience traffic loss.</p> <p>Scenario: This issue occurred when both VRRP and PBT were configured on the switch, and a VRRP failover event was recorded.</p> <p>Workaround: Disable and enable PBT on the switch.</p>	Tunneled Node
16.10.0016	255586	KB	<p>Symptom: Running configuration does not display the local user roles.</p> <p>Scenario: The issue occurred when the switch was configured to use both downloadable and local user roles.</p> <p>Workaround: Reboot the switch.</p>	User Roles
16.10.0016	255619	KB	<p>Symptom: The Ports table on the Web UI does not display all the interfaces of the switch.</p> <p>Scenario: This issue occurred when the Name and Id sent through LLDP contained a trailing backslash (\), and the same was configured on the port.</p> <p>Workaround: Disable LLDP on the switch using the <code>no lldp run</code> command.</p>	Web UI
16.10.0015	255511	KB	<p>Symptom: Border Gateway Protocol (BGP) route updates do not contain the community value.</p> <p>Scenario: This issue occurred when an unused route map was deleted.</p>	BGP
16.10.0015	255500	KB	<p>Symptom: BGP route updates are not sent with the community value.</p> <p>Scenario: This issue occurred when a new route map was applied to a neighbor with the matching community rule.</p>	BGP
16.10.0015	255124	KB	<p>Symptom: Captive portal redirection does not work.</p> <p>Scenario: This issue occurred when the <code>ip client-tracker</code> command was enabled, and the VLAN where the client onboarded had the <code>disable layer3</code> command configured.</p> <p>Workaround: Remove <code>ip client-tracker</code> or <code>disable layer3</code> configuration from the client VLAN.</p>	Captive Portal

Version	Bug ID	Software	Description	Category
16.10.0015	255259	KB	Symptom/Scenario: Executing the <code>show tech all</code> command resets the port counters in all sessions.	CLI
16.10.0015	255134	KB	Symptom: Switch crashes regularly with the following message: Active/Commander system went down: eSoftware exception at msgSys.c:641 - - in 'mNSR', -> Can't get message buffer for msgSys_recv. The event log indicates continuous removal and application of the device-profile. Scenario: This issue occurred with a device profile for an AP enabled, with both interfaces of the AP connected to the switch through a trunk, and when the switch was rebooted. Workaround: Disable and enable the device profile.	Device Profile
16.10.0015	255158	KB	Symptom: Multicast traffic with the source IP address 0.0.0.0 floods to all ports, even with IGMP snooping enabled. Scenario: This issue occurred when the multicast traffic was sent with a NULL IP source from a device connected to a non-querier device.	IGMP
16.10.0015	255408	KB	Symptom: Unauthorized clients can connect and access the switch using the loopback address. Scenario: This issue occurred when the <code>ip authorized-managers</code> command was configured and an unauthorized client attempted to connect to the loopback address.	IP Authorized Manager
16.10.0015	255105	KB	Symptom: Module reboots with the following message: Ports A subsystem went down Software exception at mrtm_ shadow.c:500 -- in 'mAsicUpd' -> MRT parity error. Module crashes when the multicast traffic hits Port-Based Forwarding (PBF) rule. Scenario: This issue occurred when the PBF rule is configured with the destination IP of <code>any</code> , a trunk interface is the next hop, and multicast traffic hits the PDF rule.	PBF
16.10.0015	255464	KB	Symptom/Scenario: A Quality of Service (QoS) policy, which has a space character in the name, cannot be removed from an interface or VLAN.	Policy Map

Version	Bug ID	Software	Description	Category
16.10.0015	255430	KB	<p>Symptom: When the <code>show radius</code> command is executed, the output shows the RadSec server as a Dead server.</p> <p>Scenario: This issue occurred because of the following reason:</p> <ol style="list-style-type: none"> 1. When the <code>radius-server dead-time, aaa authentication</code> and <code>aaa accounting</code> commands were configured. 2. Accounting was disabled on the RADIUS server and a RadSec connection was established. 3. When an SSH session was established and commands were executed from that session. 	RADIUS
16.10.0015	255342	KB	<p>Symptom: When an initial role is applied, clients do not attempt to reauthenticate.</p> <p>Scenario: This issue occurred when the <code>server-timeout</code> value was less than the RADIUS request timeout.</p> <p>Workaround: Configure a greater <code>server-timeout</code> value than the RADIUS request timeout.</p>	RADIUS
16.10.0015	255171	KB	<p>Symptom: The switch CPU spikes and the ClearPass RADIUS server shuts down.</p> <p>Scenario: This issue occurred when MAC authentication used the <code>peap-mschapv2</code> authentication method. As a result, Access-Request and Access-challenge messages were exchanged in a loop.</p>	RADIUS
16.10.0015	255067	KB	<p>Symptom: Switch does not respond to Simple Network Management Protocol version 3 (SNMPv3) queries.</p> <p>Scenario: This issue occurred when there was a wrong value in the boot counter.</p>	SNMPv3
16.10.0015	255072	KB	<p>Symptom/Scenario: The following issues may be seen with a switch module:</p> <ul style="list-style-type: none"> ■ When the <code>no module</code> command is executed for a module that is present in a VSF standby switch, the module reboots instead of staying in a powered down state. ■ When the <code>no module</code> command is executed for a module that is in a failed state in a VSF standby switch, the switch returns the following error: <pre>Module unconfiguration is in progress.</pre> <p>Workaround: Remove the module physically, and execute the <code>no module</code> command.</p>	VSF

Version	Bug ID	Software	Description	Category
16.10.0014	255376	KB	Symptom/Scenario: Traffic loss is observed in Port-Based Tunneling (PBT) and controller Virtual Router Redundancy Protocol (VRRP) topology. Workaround: Disable and enable PBT on the switch.	Tunneled Node
16.10.0013	255031	KB	Symptom: Switch loses connectivity to Aruba Central after a template is pushed. Scenario: This issue occurred when a template with netdestination commands were pushed to the switch. Workaround: Add <code>aruba-central url</code> to the template that is applied.	Central
16.10.0013	254985	KB	Symptom: End devices (example, printer) become unreachable when they do not send or receive much traffic. Scenario: This issue occurred when the switch stack was not rebooted after a new member was added to the stack. Workaround: <ul style="list-style-type: none"> ■ Reboot the stack after adding a new member. ■ Bounce the port connecting to the end device. ■ Configure the MAC age time to match the ARP ageout time of the router. 	ARP
16.10.0013	254974	KB	Symptom/Scenario: When the OOBM port is a DHCP client, The DHCP server receives an incorrect MAC address from the switch.	OOBM
16.10.0013	254868	KB	Symptom: When connection to the neighbor is lost, an incorrect OSPF route is removed from the routing table. Scenario: This issue occurred when more than one point-to-point OSPF interface was configured with the same router. Workaround: Configure broadcast OSPF interface instead of point-to-point OSPF interface.	OSPFv2
16.10.0013	255135	KB	Symptom: A MACsec connection is not established on the last fixed or last flex port of the switch. Scenario: This issue occurred because of the following reasons: <ul style="list-style-type: none"> ■ MACsec was enabled on the last fixed or last flex port of the switch. ■ There was an intermediate device that filtered packets with null MAC address. Workaround: Connect the MACsec peer switches without any devices in between.	MACsec
16.10.0013	255125	KB	Symptom: Clients authenticated by Aruba Central are not placed in the proper VLAN. Scenario: This issue occurred because of the following reasons:	Central

Version	Bug ID	Software	Description	Category
			<ul style="list-style-type: none"> Both MAC authentication and 802.1X are configured on the same port. There are two clients on the port, which had a tagged membership for a VLAN, and the user role for a client had an untagged membership for the same VLAN. 	
16.10.0013	255123	KB	<p>Symptom: The following event did not identify the affected module correctly: 00907 IpAddrMgr: ST3-CMDR: Module p BMP TCAM parity recovery.</p> <p>Scenario: The following event was recorded in the event log when there was a hardware issue: 00907 IpAddrMgr: ST3-CMDR: Module p BMP TCAM parity recovery.</p>	RMON Logging
16.10.0013	255115	KB	<p>Symptom: Some VoIP phones did not receive an IP address from the Dynamic Host Configuration Protocol (DHCP) server.</p> <p>Scenario: This issue occurred when user-based tunneling was configured on the port and DHCP snooping was enabled.</p> <p>Workaround: Disable DHCP snooping.</p>	DHCP Snooping
16.10.0013	255062	KB	<p>Symptom: User-based tunnel (802.1X) is not established when MAC authentication is also configured on the port with a different VLAN assignment.</p> <p>Scenario: This issue occurred when both MAC authentication and 802.1X were configured on a port, and the 802.1X authentication contained a VLAN change.</p>	MAC Authentication
16.10.0013	255058	KB	<p>Symptom: After a new template is applied to the switch, the switch is unable to connect to Aruba Central.</p> <p>Scenario: This issue occurred because the primary VLAN on the switch was changed when the new template was applied.</p> <p>Workaround: Reboot the switch.</p>	Central
16.10.0013	254976	KB	<p>Symptom/Scenario: The SSH, telnet, and console connections cannot be established with the switch, and the following event is recorded in the event log: maximum user session limit reached.</p>	Switch Access
16.10.0013	254966	KB	<p>Symptom: Applying a template from Aruba Central to a switch fails with the following reasons:</p> <ul style="list-style-type: none"> Failure Reason: Add and Remove commands have been failed Reason: Invalid netdestination 	Central

Version	Bug ID	Software	Description	Category
			<p>entry.</p> <p>Scenario: This issue occurred when the template contained changes to the host configurations of the netdestination entries, which are used in an ACL.</p>	
16.10.0013	254958	KB	<p>Symptom: After the transition of 802.1X machine authentication to user authentication with User-Based Tunnel, the client username in the show command in the controller is not updated.</p> <p>Scenario: This issue occurred when 802.1X with User-Based Tunneling was established and then the transition of machine authentication to user authentication was done.</p>	Tunneled Node
16.10.0013	254893	KB	<p>Symptom/Scenario: The switch crashes due to an MSTP NMI event.</p>	Spanning Tree
16.10.0013	254797	KB	<p>Symptom: The following event is recorded in the event file: Lease table is full, DHCP lease was not added.</p> <p>Scenario: This issue occurred when DHCP snooping was configured.</p>	DHCP Snooping
16.10.0013	254786	KB	<p>Symptom: SSH fails to connect to the switch.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ul style="list-style-type: none"> ■ More than one RADIUS server was configured. ■ <code>aaa authentication ssh enable</code> was configured to use the other RADIUS server, instead of using the first one in the configuration. 	AAA Authentication
16.10.0013	254780	KB	<p>Symptom: When more number of MAC authentication clients (auth method: peap-mschapv2) get authenticated or reauthenticated, the following event is recorded multiple times in the event log: PEAP SSL socket connection limit reached.</p> <p>Scenario: This issue occurred when more than 20 clients were authenticated or reauthenticated at the same time.</p> <p>Workaround: Authenticate or reauthenticate less than 20 clients at the same time.</p>	MAC Authentication
16.10.0013	254481	KB	<p>Symptom: The switch CPU utilization increases to 80% or more, and CDP packet looping is observed across VLANs.</p> <p>Scenario: This issue occurred when CDP pass-through was configured on two switches, which had more than one connection between them.</p> <p>Workaround: Use <code>no cdp run</code> command to disable CDP globally, instead of configuring CDP mode pass-through.</p>	CDP

Version	Bug ID	Software	Description	Category
16.10.0012	254360	KB	<p>Symptom: A configuration push using the <code>cfg-restore</code> command from Aruba Central fails.</p> <p>Scenario: This issue occurred when a switch configuration, containing <code>radius server host</code> commands, was pushed to Aruba Central or when the <code>cfg-restore</code> command was executed with the same <code>radius server host</code> configuration.</p> <p>Workaround: Use the <code>copy tftp config</code> command to copy a configuration to the switch from Aruba Central, instead of the <code>cfg-restore</code> command for pushing a configuration.</p>	Central
16.10.0012	254519	KB	<p>Symptom: Aruba Central captures traffic only for one direction when a packet captured is performed.</p> <p>Scenario: This issue occurred when traffic from a client in one subnet was sent to a client in another subnet, where the switch was acting as the gateway.</p>	Central
16.10.0012	254198	KB	<p>Symptom: A switch or management module crashes with the following message:</p> <pre>Active/Commander system went down: ... Health Monitor: Invalid Instr Misaligned Mem Access.</pre> <p>Scenario: This issue occurred when the <code>copy command-output show tech all tftp <ip-address> <filename></code> command was executed.</p> <p>Workaround: Do not execute the <code>copy command-output show tech all tftp <ip-address> <filename></code> command.</p>	Chassis
16.10.0012	254508	KB	<p>Symptom: Line card crashes due to <code>LOST_COMM_HEARTBEAT</code>.</p> <p>Scenario: This issue occurred when there was a failover following a non-hitless failover.</p>	Chassis
16.10.0012	254096	KB	<p>Symptom: The <code>Rx Drop Bytes</code> parameter in the command output for <code>show interface queues <port></code> displays very high values for the last few ports, even though these ports were down.</p> <p>Scenario: This issue occurred when the <code>show interface queues <port></code> command was issued.</p>	CLI

Version	Bug ID	Software	Description	Category
16.10.0012	254278	KB	<p>Symptom: The switch crashes when the <code>show crypto client-public-key</code> command is issued.</p> <p>Scenario: This issue was observed when the <code>show crypto client-public-key</code> was issued when the <code>\t</code>: symbol was present in the client pub key file.</p> <p>Workaround: Remove <code>\t</code>: symbol from the client public key file content.</p>	Crypto
16.10.0012	254380	KB	<p>Symptom: The switch crashes with the following message: <code>Health Monitor: Read Error Restr Mem Access Task='mdevMntr'</code>.</p> <p>Scenario: This issue occurred when device-fingerprinting (DFP) was configured and DFP clients moved between ports.</p>	Device Finger Printing
16.10.0012	254354	KB	<p>Symptom: Although the packet is received before the MAC-age timeout interval expires, the MAC address of a peer is not available in the MAC table.</p> <p>Scenario: This issue occurred when a packet of same source MAC address was sent on both the distributed trunk links alternatively at an interval close to the MAC-age timeout interval.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Increase the MAC-age timeout interval to a higher value. ■ Configure the MAC address statically. 	Distribute Trunking
16.10.0012	254768	KB	<p>Symptom: The switch crashes due to message buffer exhaustion.</p> <p>Scenario: This issue occurred when the switch was configured with distributed trunking and VRRP.</p>	Distribute Trunking
16.10.0012	254760	KB	<p>Symptom: Removal of OSPF routes from the link-state database is delayed.</p> <p>Scenario: This issue occurred when the switch received a Link-State Advertisement (LSA) that advertised routes with max age configured to remove the routes from the database.</p>	OSPFv2
16.10.0012	254395	KB	<p>Symptom: The switch does not send the configured NAS-ID while sending a request to the RADIUS server.</p> <p>Scenario: This issue occurred for both login and enable when the switch was configured with a non-default <code>server-group nas-id</code> and <code>ssh</code> was configured with <code>peap-mschapv2</code>.</p>	Radius
16.10.0012	254403	KB	<p>Symptom: The HTTP GET for <code>/system/status/power/supply</code> returns an internal server error.</p>	REST

Version	Bug ID	Software	Description	Category
			Scenario: This issue occurred when GET of /system/status/power/supply was executed when a stack member was down.	
16.10.0012	254665	KB	Symptom: REST connection fails when a Windows client makes an HTTP request. Scenario: This issue occurred when a Windows client sent a REST HTTP request using PowerShell.	REST
16.10.0012	254525	KB	Symptom: The smartlink port stops forwarding VLAN traffic. Scenario: This issue occurred when the: <ul style="list-style-type: none"> ■ The VLAN membership of a port was changed by removing it or adding it to any of the protected VLANs of the smartlink group. ■ STP was enabled and a non-default MSTP instance was created. Workaround: Disable/enable the port.	Smartlinks
16.10.0012	253623	KB	Symptom/Scenario: When there is a change in backplane stacking, VSF topology, or removal of a power supply, no SNMP trap is sent.	SNMP
16.10.0012	254722	KB	Symptom/Scenario: When a user fails to login to the switch using SSH, no SNMP trap is sent.	SNMPv2
16.10.0012	254580	KB	Symptom/Scenario: A switch no longer accepts SSH connections. Workaround: Reboot the switch.	SSH
16.10.0012	254393	KB	Symptom: Event messages are sent to a Syslog server. Scenario: This issue occurred when a syslog server was configured with the TCP option, logging <IP-ADDR> tcp and ip source-interface syslog was configured. Workaround: Remove ip source-interface syslog . . . from the config or reboot the switch after configuring syslog over TCP.	Syslog
16.10.0012	254311	KB	Symptom: Gradual memory depletion on a switch is observed. Scenario: This issue occurred when the telnet sessions were closed abruptly. Workaround: Disable the telnet server on the switch.	Telnet
16.10.0011	253563	KB	Symptom: The switch crashes with the following message: Health Monitor: Misaligned Mem Access.	802.1X

Version	Bug ID	Software	Description	Category
			Scenario: This issue occurred when any of the 802.1X clients' MAC address had a NULL value due to corruption, and the authenticator configuration on a switch port was disabled.	
16.10.0011	254333, 254339	KB	Symptom: Switch crashes with a message similar to the following: <code>Software exception at trlock.c -- in 'InetServer'</code> . Scenario: This issue occurred when the <code>show tech all</code> command was executed from Aruba Central. Workaround: Execute the <code>show tech all</code> command through the switch CLI.	Central
16.10.0011	254255	KB	Symptom: Switch crashes with a message similar to the following: <code>Software exception at multMgmtUtil.c -- in 'mOobmCtrl'</code> . Scenario: This issue occurred when continuous or frequent <code>cfg-restore</code> operations (with password or aaa authentication related configurations) were executed, and in parallel, the switch was accessed through local-authentication. Workaround: Do not access the switch using local-authentication when <code>cfg-restore</code> operation is in progress.	Chassis
16.10.0011	253472	KB	Symptom/Scenario: The following event is recorded in the event log multiple times where <code>xx%</code> is an increasing value: <code>03008 system: Ports A,B packet buffer allocation has reached xx%</code> . Workaround: Reboot the switch.	Chassis
16.10.0011	253803	KB	Symptom: SSH connection (Remote Console) cannot be established from Aruba Central to the switch. Scenario: This issue occurred when <code>ip authorized-managers</code> was configured on the switch and a Remote Console connection was attempted from Aruba Central. Workaround: Add the following configuration to the switch: <code>ip authorized-managers 127.0.0.1 255.255.255.254 access manager</code>	Console
16.10.0011	254196	KB	Symptom: Multicast traffic stops after a redundancy switchover.	IGMP

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the IGMP <code>query-max-response-time</code> was configured to be 128 seconds and a redundancy switchover was performed.</p> <p>Workaround: Remove IGMP from the VLAN and reconfigure the <code>query-max-response-time</code> to the default value of 10 seconds.</p>	
16.10.0011	253853	KB	<p>Symptom: Continuous RADIUS access request packets are sent from the switch to the RADIUS server.</p> <p>Scenario: This issue occurred when a MAC address limit was configured and a device was attempted to be authenticated beyond the configured limit.</p>	MAC Authentication
16.10.0011	253844	KB	<p>Symptom: Removal of OSPF link state prefix from the link state database is delayed.</p> <p>Scenario: This issue occurred when the switch received an OSPF Link-State Advertisement (LSA) with <code>MaxAge</code> configured to 3600 from a neighbor, and there were multiple OSPF sessions to the same router.</p>	OSPFv2
16.10.0011	253965	KB	<p>Symptom: The switch closes the REST connection when the request is made from a Windows client.</p> <p>Scenario: This issue occurred when a REST request was sent from PowerShell on a Windows client.</p>	REST
16.10.0011	253921	KB	<p>Symptom: MAC addresses are not learned on some ports and spanning tree shows the port in a <code>BLOCKED LISTEN</code> state.</p> <p>Scenario: This issue occurred when the switch was configured to use RPVST.</p> <p>Workaround: Reboot the switch.</p>	Spanning Tree Protocol
16.10.0011	252721	KB	<p>Symptom: Attempts to SSH or telnet to the switch fail and the following message is displayed: <code>Sorry, the maximum number of telnet sessions are active. Try again later.</code></p> <p>Scenario: This issue occurred when a vulnerability scan was run against the switch multiple times.</p> <p>Workaround: Disable Telnet server.</p>	Switch Access
16.10.0011	254174	KB	<p>Symptom: The CPU utilization is elevated and the switch crashes with a <code>No msg buffer</code> message.</p> <p>Scenario: This issue occurred when the switch was configured to use user-based tunnels (tunneled-node server).</p>	Tunneling

Version	Bug ID	Software	Description	Category
16.10.0011	253970	KB	<p>Symptom: Ports can be added to a trunk using the web interface even if those ports are configured with IGMP fastlearn.</p> <p>Scenario: This issue occurred when IGMP fastlearn was configured on a few ports of the switch, and the switch was accessed through the web interface to add the IGMP fastlearn enabled ports to the trunk.</p> <p>Workaround: Use the CLI to add ports to a trunk.</p>	Web Interface
16.10.0010	253775	KB	<p>Symptom/Scenario: Switch does not get provisioned to Activate.</p>	Activate
16.10.0010	253807	KB	<p>Symptom: Unsupported values are accepted as ACL numbers for both standard and extended ACLs when configuring ACLs from the REST interface (for example, Aruba Central). Once configured, these ACLs cannot be deleted using REST or the CLI.</p> <p>Scenario: This issue occurred when the REST interface was used to configure an ACL with an unsupported value.</p>	ACLs
16.10.0010	253425	KB	<p>Symptom: The username sent for a successful MAC-authenticated client is the MAC address, rather than the username.</p> <p>Scenario: This issue occurred when a client was authenticated using MAC authentication.</p>	Authentication
16.10.0010	250901	KB	<p>Symptom: Switch randomly loses connectivity to Activate and Aruba Central.</p> <p>Scenario: This issue occurred when configuring the switch to connect to Aruba Central.</p>	Central
16.10.0010	253659 253925	KB	<p>Symptom: Switch fails to connect to Aruba Central.</p> <p>Scenario: This issue occurred when the switch was configured to connect to Aruba Central.</p>	Central
16.10.0010	252143	KB	<p>Symptom: One of the following symptoms are seen:</p> <ul style="list-style-type: none"> ■ When the command <code>show system power-supply</code> is executed, the output displays one or more power supplies with a state of Not Powered even though all modules are powered and PoE is functioning normally. ■ One or more port modules is stuck in a booting or failed state. <p>Scenario: This issue occurred when all power supplies in the switch lost and regained power at the same time. This scenario was most commonly experienced with very brief power loss or brownout events.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Distribute PSU power sources to different power circuits to prevent simultaneous power 	Chassis

Version	Bug ID	Software	Description	Category
			<p>down/power up.</p> <ul style="list-style-type: none"> Reboot switch, remove and insert power cords, or remove and insert power supplies that are in a Not powered state. Modules may recover after an undetermined period of time. Otherwise, resetting the affected slots, resetting the affected modules, or rebooting the switch may be required to recover. 	
16.10.0010	253422	KB	<p>Symptom: The following error message is displayed: <code>Invalid Input : grep usage error when executing show command.</code></p> <p>Scenario: This issue occurred when a <code>show</code> command was executed with <code>include <anyword> <anyword></code>.</p> <p>Workaround: Execute the <code>show</code> command without <code>include <anyword> <anyword></code>.</p>	CLI
16.10.0010	253485	KB	<p>Symptom: When more than 3000 VLANs are configured, executing the <code>show run</code> command takes one or two minutes to begin displaying output.</p> <p>Scenario: This issue occurred when <code>show run</code> command was executed after configuring a minimum of 3000 VLANs.</p>	CLI
16.10.0010	252317	KB	<p>Symptom: Connectivity to end devices may be lost due to MAC learn inconsistencies between the InterSwitch-Connect (ISC) link and a trunk member link.</p> <p>Scenario: This issue occurred when the distributed trunking was configured and one of the DT member switches was upgraded.</p> <p>Workaround: Clear the incorrect MAC entries in both of the DT switches using the <code>clear mac-address</code> command.</p>	Distributed Trunking
16.10.0010	253303	KB	<p>Symptom: Peer device does not get an IP address when the port it is connected to is configured using a device-profile.</p> <p>Scenario: This issue occurred when a port is configured using device profile and a peer device is connected to it.</p> <p>Workaround: Disable device-profile and manually configure the port.</p>	Device Profile
16.10.0010	253507	KB	<p>Symptom: Devices connected to the switch are unable to send or receive packets.</p> <p>Scenario: This issue occurred when a multicast listener query was received with an unspecified source IP address.</p>	Multicast

Version	Bug ID	Software	Description	Category
			Workaround: Stop sending malformed multicast listener query packets to the switch.	
16.10.0010	252993	KB	Symptom: Some RADIUS accounting packets sent to the RADIUS server have a very large size. Scenario: This issue occurred when a downloadable user role was configured with a user policy, network accounting was enabled, and a client was authenticated.	RADIUS
16.10.0010	253736	KB	Symptom: Disconnect Change of Authorization (CoA) request is not honored. Scenario: This issue occurred when the radius-server group was configured, a client was authenticated, and a disconnect CoA request with the default nas-id was sent. Workaround: Configure <code>aaa server-group radius <Group name> nas-id <NAS-ID></code> where the NAS-ID matches the NAS Identifier value shown in the output of the <code>show radius authentication</code> command.	RADIUS
16.10.0010	253557	KB	Symptom: Using REST to retrieve the resource identifier <code>/lldp/remote-device</code> fails to display the IPv4 address of the neighbor. Scenario: This issue occurred when the REST resource operation GET was used to retrieve the data associated with <code>/lldp/remote-device</code> .	REST
16.10.0010	253789	KB	Symptom: Switch serial number contains an extra space at the end when it is read using SNMP. Scenario: This issue occurred when the switch serial number was read using SNMP. Example: MIB OID: 1.3.6.1.2.1.47.1.1.1.1.11.1 MIB File: ENTITY-MIB	SNMP
16.10.0010	253342	KB	Symptom: SSH/Telnet/Console connections to the switch fail with an error message: <code>Maximum session limit is reached</code> . Scenario: This issue occurred when multiple users logged in and out and RADIUS was configured as the primary authentication method. Workaround: Reboot the switch.	Switch Access
16.10.0010	253407	KB	Symptom: Unable to log in to the switch using TACACS credentials. Scenario: This issue occurred when a source interface for TACACS was configured using the <code>ip source-interface tacacs</code> command and the switch was upgraded to 16.10.0009.	TACACS

Version	Bug ID	Software	Description	Category
16.10.0010	253001	KB	<p>Symptom: When there are continuous link flaps on the link-to-monitor ports within a fraction of a second, some link-to-disable ports may not come up once the link-to-monitor port stabilizes.</p> <p>Scenario: This issue occurred when the link-to-monitor port used a transceiver connected by fibre and flapped continuously at a high rate.</p> <p>Workaround: Use Fault-Finder to disable the link-to-monitor if it is flapping too often. The link-to-disable port can be disabled and re-enabled to bring it back up.</p>	UFD
16.10.0010	253290	KB	<p>Symptom: Switch crashes when it is accessed through the web interface.</p> <p>Scenario: This issue occurred when the switch was accessed using the web interface and RADIUS authentication was configured for web access.</p> <p>Workaround: Disable RADIUS authentication for web access.</p>	Web UI
16.10.0010	253577	KB	<p>Symptom: When the VLAN edit option is clicked in the web interface, the screen is greyed out, and no pop-up menu is displayed.</p> <p>Scenario: This issue occurred when the switch is configured to use meshing and the web interface is accessed to select the Edit option on the Interface > VLAN page.</p> <p>Workaround: Configure VLANs using the CLI or the traditional web interface.</p>	Web UI
16.10.0010	253877	KB	<p>Symptom: The WebUI Security > Clients page displays incorrect MAC addresses, which results in the user role, IP address, and status columns to be empty.</p> <p>Scenario: This issue occurred when a few workstations with higher value MAC addresses (for example, 9c:dc:71:fb:77:fe) are connected to the last ports of a 2930 stack or the last module of a 5400R.</p>	Web UI
16.10.0009	252885	KB	<p>Symptom: Switch appears down in Aruba Central.</p> <p>Scenario: This issue occurred because the system time was set to the year 2036, though NTP sync was successful, and the switch was connected to Aruba Central.</p> <p>Workaround: Configure an NTP server in the switch.</p>	Activate
16.10.0009	252226	KB	<p>Symptom: Switch does not respond during the ZTP process.</p> <p>Scenario: This issue occurred when connecting to the switch using SSH, while Airwave was transferring the configuration to the switch.</p>	AirWave
16.10.0009	252825	KB	<p>Symptom: A switch crashes and displays the following message:</p>	BGP

Version	Bug ID	Software	Description	Category
			<p>Software exception at bgp_med.c: 629 -- in 'eRouteCtrl' ... Routing Stack: Assert Failed.</p> <p>Scenario: This issue occurred when the maximum prefix for BGP was configured to limit the number of routes BGP learns, in an environment with many route flaps.</p> <p>Workaround: Eliminate the frequent BGP route flaps.</p>	
16.10.0009	253081	KB	<p>Symptom: Switch reports self test failure or unsupported module in the event log.</p> <p>Scenario: This issue occurred when the module is booted with a JL308A <code>xcvr</code>.</p>	Boot
16.10.0009	251418	KB	<p>Symptom: Pushing a switch configuration template from Aruba Central fails and a 500 error code is returned.</p> <p>Scenario: This issue occurred when a configuration template that had no untagged ports in VLAN 1 was pushed from Aruba Central.</p> <p>Workaround: In the configuration template, add at least one untagged port in VLAN 1.</p>	Central
16.10.0009	253174	KB	<p>Symptom/Scenario: The switch experienced an NMI crash with the following message: Task='ewsCloudRcv'.</p>	Central
16.10.0009	250966	KB	<p>Symptom: The switch fails to display the power supply details.</p> <p>Scenario: In a stack or VSF configuration, the switch failed to display the power supply details for all stack member switches when using the show system power-supply detailed command.</p>	CLI
16.10.0009	253276	KB	<p>Symptom: Unable to copy crash-files, core-dump, and the show tech all command output from the switch.</p> <p>Scenario: This issue occurred when executing the copy command with an invalid IP address, file name, hostname, or when parallelly executing the copy command in other sessions.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Copy the core file from the web interface. ■ Copy the show tech all command output from the console interface. 	CLI
16.10.0009	252430	KB	<p>Symptom: Invalid MAC address entries are seen in the DHCP snooping binding table.</p> <p>Scenario: This issue occurred when switch received malformed DHCP or BOOTP packets.</p> <p>Workaround: Configure a DHCP authorized server so that requests only from authorized servers are processed.</p>	DHCP Snooping

Version	Bug ID	Software	Description	Category
16.10.0009	252265	KB	<p>Symptom: The switch does not forward DHCP packets.</p> <p>Scenario: This issue occurred when both DHCP snooping and IP client tracker trusted were configured, and the client was authenticated.</p>	IP Client Tracker
16.10.0009	252701	KB	<p>Symptom/Scenario: User tunnel is lost when a controller fail-over is performed in a two node controller cluster.</p> <p>Workaround: Re-establish the tunnel with a port flap and re-authentication.</p>	Jumbo Frames
16.10.0009	252833	KB	<p>Symptom: MSTP does not work as expected and does not block ports when it should.</p> <p>Scenario: This issue occurred when two ports in a loop were in a forwarding state with MSTP and port-security non-default learn mode enabled.</p> <p>Workaround: Disable port-security.</p>	Spanning Tree
16.10.0009	252338	KB	<p>Symptom: Incorrect message Rejected because maximum session limit is reached is printed when attempting to establish an SSH connection to the VSF standby OOBM IP address.</p> <p>Scenario: This issue occurred when establishing an SSH connection to the standby OOBM IP address.</p>	SSH
16.10.0009	252613	KB	<p>Symptom: Unable to connect to the switch using SSH.</p> <p>Scenario: This issue occurred when the switch is configured to use TACACS and a malformed TACACS packet is received by the switch.</p> <p>Workaround: Reboot the switch.</p>	SSH
16.10.0009	251966	KB	<p>Symptom: The switch sends logging events with a "Z" at the end of the timestamp when the it is not configured to use UTC.</p> <p>Scenario: This issue occurred when the switch sent syslog messages over TLS.</p>	Syslog
16.10.0009	252410	KB	<p>Symptom: The switch either reboots or fails over from the active to standby management module and records a Watchdog Reset entry in the event log.</p> <p>Scenario: This issue occurred when IP directed-broadcast was configured in the switch and Wake On LAN traffic was sent to a directly connected subnet.</p> <p>Workaround: Disable IP directed-broadcast.</p>	VSF
16.10.0009	252762	KB	<p>Symptom: Although the VXLAN tunnel name was configured, it was not displayed.</p> <p>Scenario: This issue occurred when the VXLAN tunnel name was configured before configuring the source and destination IP addresses for the tunnel.</p>	VXLAN

Version	Bug ID	Software	Description	Category
16.10.0009	252443	KB	Symptom/Scenario: The Reboot button is displayed for a few seconds in the Web UI. Clicking it allowed an operator to reboot the switch.	Web UI
16.10.0008	-	KB	Version 16.10.0008 was never released.	-
16.10.0007	252007	KB	Symptom: The switch sends an incorrect CLASS attribute value in the RADIUS accounting packet. Scenario: When the CLASS attribute is updated during re-authentication of a MAC-authenticated client session, the switch fails to send the new CLASS attribute value in the RADIUS accounting packet. Workaround: Force a new client authentication session by disabling/enabling the port after the CLASS attribute value changes.	Accounting
16.10.0007	251765	KB	Symptom: The <code>show runnig-config</code> output does not display some access list entries (ACEs). Scenario: When the switch is configured with extended ACLs and connect-rate-filter, some ACEs are not displayed in the output of the <code>show runnig-config</code> command. Workaround: Use the <code>show access-list config</code> command to get the complete extended ACL configuration.	ACLs
16.10.0007	251273	KB	Symptom: The switch incorrectly places clients in the configured authorized VLAN (auth-vid). Scenario: When using chap-radius authorized option, if the route to the RADIUS server is not resolved during the switch boot up, clients are incorrectly placed in the configured authorized VLAN (auth-vid) rather than the guest VLAN (unauth-vid) or initial-role. Workaround: Reauthenticate the affected clients.	Authentication
16.10.0007	251659	KB	Symptom: Switch fails to move the client MAC address from one port to another. Scenario: When <code>addr-move</code> is configured to enable roaming for authenticated clients from one port to another, with Private VLAN enabled, the switch fails to move the client MAC address. Workaround: Disable and re-enable the switch interface where the affected client moved to.	Authentication
16.10.0007	252183	KB	Symptom: The switch experiences traffic loss after an indirect nexthop peer failure. Scenario: If an older ECMP route is removed due to an indirect nexthop peer failure, the switch fails to correctly update the IP route description table with the newer nexthop route.	BGP
16.10.0007	251927	KB	Symptom: The switch fails to remove CDP configuration for a port.	CDP

Version	Bug ID	Software	Description	Category
			<p>Scenario: When a port is added to a trunk interface, the switch fails to remove the previous non-default CDP configuration for that port (example: no cdp enable <PORT-NUM>).</p> <p>Workaround: Remove the non-default CDP configuration from the individual port before adding it to trunk interface.</p>	
16.10.0007	252053	KB	<p>Symptom/Scenario: The switch crashes with an error message similar to: Software exception in ISR at pvDmaVlRx.c <...></p> <pre>ASSERT: No resources available!</pre>	Central
16.10.0007	252267	KB	<p>Symptom: The switch experiences high CPU utilization.</p> <p>Scenario: In conditions of low network bandwidth or network congestion that cause frequent disconnections from the Aruba Central Portal, the switch experiences high CPU utilization while attempting to reconnect to Aruba Central and while being managed by other NMS applications such as Solarwinds at the same time.</p> <p>Workaround: Use only one NMS application to manage the switch if network bandwidth capacity or congestion cannot be improved.</p>	Central
16.10.0007	252066	KB	<p>Symptom/Scenario: The switch crashes with a message similar to: Health Monitor: Restr Mem Access ...</p> <pre>Task='mdevMntr'.</pre>	Device finger printing
16.10.0007	251876	KB	<p>Symptom: The switch may fail to apply the correct VLAN to dynamic trunks.</p> <p>Scenario: After a reboot of a switch configured for dynamic trunks with device profile enabled on ports, the switch may fail to apply the correct VLAN configured in the device-profile, after the port is joined to the dynamic trunk.</p> <p>Workaround: Disable and enable device-profile.</p>	Dynamic Trunks
16.10.0007	251579	KB	<p>Symptom: The switch port LEDs light amber (self-test failure).</p> <p>Scenario: In rare conditions, random ports may fail self-test after a switch reboot causing the port LED to be lit amber and triggering a warning event message similar to: 00371 chassis: Port <PORT-NAME> self test failure ERR: 10191800</p> <p>Workaround: Reboot the switch.</p>	Interfaces
16.10.0007	252187	KB	<p>Symptom: PoE LED is incorrectly lit green on the management module.</p>	LEDs

Version	Bug ID	Software	Description	Category
			Scenario: In a VSF stack, when the respective switch member does not have any PoE capable line modules installed.	
16.10.0007	251972	KB	Symptom: Some clients using the PEAP authentication mechanism are not successfully authenticated. Scenario: When concurrent authentication requests are sent to the switch using peap-mschapv2, some clients may not be successfully authenticated, even though ACCESS ACCEPT is sent from the RADIUS server.	MAC Authentication
16.10.0007	252170	KB	Symptom: Some multicast traffic is incorrectly flooded on all ports belonging to a VLAN. Scenario: Multicast packets received with a TTL <= 1 are indefinitely flooded to all ports of a PIM enabled VLAN.	Multicast
16.10.0007	249716	KB	Symptom: The switch fails to pass traffic through a promiscuous port. Scenario: After a reboot event, the switch fails to pass traffic through a promiscuous port in the primary VLAN. Workaround: Remove and re-add the affected promiscuous port from/to the primary VLAN.	Private VLAN
16.10.0007	251339	KB	Symptom: The switch or the switch module may crash with an error message similar to: Read Error Restr Mem Access <...> Task='mAdMUpCtrl'. Scenario: When qos trust dscp on a 40G port is enabled, the switch or switch module may crash with an error message similar to: Read Error Restr Mem Access <...> Task='mAdMUpCtrl.	QoS
16.10.0007	252090	KB	Symptom: Switch fails to flag the unreachable RADIUS servers. Scenario: When RADIUS server tracking is enabled, the switch fails to flag those RADIUS servers configured using the fully qualified domain name (FQDN) when they are unreachable with an asterisk (*) in the output of the show radius command. Workaround: Use IP address for RADIUS server configuration when RADIUS server tracking is enabled.	RADIUS
16.10.0007	252131	KB	Symptom: REST API calls may experience some slight delay in execution response. Scenario: When multiple REST API commands are executed over the same HTTPS session, they may experience a slight delay in execution response.	REST

Version	Bug ID	Software	Description	Category
			Workaround: Use a new HTTPS session for each REST API call.	
16.10.0007	251899	KB	Symptom: Switch fails to return the serial number of the power supply. Scenario: When configured in a stack, the switch does not return the serial number of power supplies for the stack member switches when polling the entPhysicalSerialNum SNMP object. Workaround: The power supply serial number can be found in the show system power-supply output.	SNMP
16.10.0007	252377	KB	Symptom: The switch fails to send traffic over some switch interfaces. Scenario: After a redundancy switchover to the standby VSF switch while spanning tree is enabled in PVST mode, the switch fails to forward traffic over the switch ports transitioned from Blocking to Forwarding state. Workaround: Disable and re-enable the affected switch ports.	Spanning Tree
16.10.0007	250797	KB	Symptom: The switch sends an incorrect checksum when forwarding certain UDP frames. Scenario: If a received UDP frame has no checksum or the checksum value of zero (0), the switch incorrectly calculates the checksum when forwarding it.	UDP
16.10.0007	252409	KB	Symptom: The switch fails to override the initial-role. Scenario: When an existing per-port initial-role is modified, the switch fails to re-apply the new initial-role to ports with clients already authenticated in the previous initial-role. Workaround: Remove the existing per-port initial-role config and configure the new initial-role on the port.	User Roles
16.10.0007	251475	KB	Symptom: The switch experiences high CPU utilization and possible console connectivity issues. Scenario: When configuring or modifying aggregated interfaces (trunks) with more than 3 member ports on a switch where there is a very high number of configured VLANs, the switch experiences high CPU utilization and possible console connectivity issues while applying the configuration.	VLAN
16.10.0007	251505	KB	Symptom: The WebUI contains an XSS vulnerability. Scenario: Configure the editable parameters in the WebUI with values that can cause an XSS attack.	Web UI
16.10.0007	251524	KB	Symptom: The switch fails to display some ports on the Ports page of the WebUI.	Web UI

Version	Bug ID	Software	Description	Category
			<p>Scenario: When aSysName with trailing zeroes is received in the LLDP packet from a neighboring device, the switch fails to list some ports in the Ports page when using the WebUI.</p> <p>Workaround: To get the information for all ports use one of the following options:</p> <ul style="list-style-type: none"> ■ Disable LLDP on the port where the device with <code>invalidSysName</code> is connected. ■ Use the traditional web UI to get the information for the affected/missing ports. ■ Use switch CLI commands to get the information for the affected/missing ports. 	
16.10.0006	-	KB	Version 16.10.0006 was never released.	-
16.10.0005	251473	KB	<p>Symptom: End devices periodically lose access to the network.</p> <p>Scenario: When ports are configured with user-based tunneling in addition to 802.1X and MAC authentication, end devices connected to those parts periodically lose access to the network.</p>	Tunneling
16.10.0004	-	KB	Version 16.10.0004 was never released.	-
16.10.0003	251317		<p>Symptom: A Windows client that joins a domain other than the one defined in Cisco ISE fails to authenticate. The client will also wait more than 5 minutes before attempting MAC address authentication.</p> <p>Scenario: This issue is observed when MAC and 802.1X authentication are enabled on the port and the configured auth-order is 802.1X-MAC and an initial role.</p>	802.1X
16.10.0003	251464	KB	<p>Symptom: VSF stack members crash intermittently during 802.1X client reauthentication and the following message is displayed: <code>Software exception in ISR at pvDmaV1Rx.c: -> ASSERT: No resources available!</code></p> <p>Scenario: This issue is observed when ports with LLDP traffic are configured with 802.1X and MAC authentication, and the RADIUS VSA HP-Port-Client-Limit-MA value is zero.</p>	802.1X
16.10.0003	251498	KB	<p>Symptom: A client is unable to pass traffic.</p> <p>Scenario: This issue is observed when the <code>clear mac-address vlan 1 mac</code> command is issued to clear the switch's base MAC address from VLAN 1.</p>	Basic Layer 2
16.10.0003	251280	KB	<p>Symptom: Deploying a switch template through Airwave/Aruba Central fails.</p>	Central

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue is observed when the IP address from VLAN1 is removed from a new configuration template and is pushed to the switch with the "ntpserver-name <server name>".</p> <p>Workaround: Do not remove the IP address from VLAN 1 in the new template.</p>	
16.10.0003	249172	KB	<p>Symptom: The Event log lists fan failure events and the amber LED is displayed on the front panel of the switch.</p> <p>Scenario: The switch operates normally with no change in the environmental temperature.</p>	Chassis Manager
16.10.0003	251393	KB	<p>Symptom: A switch crashes with the following message <code>Software exception in ISR at pvDmaVlRx.c -> ASSERT: No resources available.</code></p> <p>Scenario: This issue is observed when a switch is configured with an initial role with a captive-portal-profile and a client is placed in this initial role because the RADIUS server is unreachable.</p>	Classifier
16.10.0003	250816	KB	<p>Symptom: Authenticated users are disconnected from the switch.</p> <p>Scenario: This issue is observed when users disable and enable the interface which connects to the dhcp-relay switch, after configuring the DHCP server, DHCP relay, and DHCP snooping with ip-source lockdown.</p> <p>Workaround: Disable ip-source lockdown.</p>	DIPLD
16.10.0003	251662	KB	<p>Symptom: Unable to configure a /31 subnet address as source/destination address for tunnel interfaces.</p> <p>Scenario: This issue is observed when users attempt to configure a /31 subnet address as source/ destination address for a tunnel interface.</p> <p>Workaround: Configure a /30 subnet address.</p>	L3 Addressing
16.10.0003	249465	KB	<p>Symptom: A switch crashes and displays the following message: <code>Software exception at ospf2.c -- in 'eRouteCtrl' -> Routing Stack: Assert Failed.</code></p> <p>Scenario: This issue is observed when a switch is configured with OSPF and one of the OSPF neighbors is disconnected.</p>	OSPF
16.10.0003	251615	KB	<p>Symptom: An attacker is able to obtain sensitive data without providing valid login credentials after a successful REST query.</p> <p>Scenario: This issue is observed when web management is enabled on the switch.</p>	REST

Version	Bug ID	Software	Description	Category
16.10.0003	251340	KB	<p>Symptom: Tunneled clients lose network connectivity.</p> <p>Scenario: This issue is observed when user tunnels are configured in addition to ip client-tracker trusted and ip client-tracker probe-delay.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Remove ip client-tracker probe-delay from the configuration. 2. Disable the port. 3. Clear ARP. 4. Re-enable the port. 	Tunneled Node
16.10.0003	251893	KB	<p>Symptom: A switch port is in the Disabled state.</p> <p>Scenario: This issue is observed when spanning tree is enabled and Per-Port Tunneled Node (PPTN) is configured on two ports that are connected.</p> <p>Workaround: Do not connect two PPTN ports.</p>	Tunneled Node
16.10.0003	251325	KB	<p>Symptom: Users are unable to modify the vlan-id-tagged list of a user role.</p> <p>Scenario: This issue is observed when the user applies a template that adds VLANs to the vlan-id-tagged list of a user role.</p> <p>Workaround: Use a template that does not extend the list of VLANs in vlan-id-tagged.</p>	User Roles
16.10.0003	251030	KB	<p>Symptom: The output of the show interface command differs for a VSF and a non-VSF interface.</p> <p>Scenario: This issue is observed when a switch is configured for VSF.</p> <p>Workaround: Execute the clear statistics global command and output of show interface command will be the same for both VSF and non-VSF interfaces.</p>	VSF
16.10.0003	251506	KB	<p>Symptom: The switch manager password is altered to an attack-controlled value.</p> <p>Scenario: This issue is observed when the user clicks a malicious hyperlink.</p>	Web UI
16.10.0003	251314	KB	<p>Symptom: Switches appear offline in Aruba Central.</p> <p>Scenario: This issue is observed after the switch software is upgraded from 16.04 to 16.08.</p> <p>Workaround: Reboot the switch.</p>	ZTP
16.10.0002	250366	KB	<p>Symptom: An Apple MacOS device (desktop or laptop) is unable to maintain authentication with APs.</p>	802.1X

Version	Bug ID	Software	Description	Category
			<p>Scenario: When an AP is connected to a switch port that has been configured with device-identity bypass, an Apple MacOS device (desktop or laptop) receives EAP request ID packets after 802.1X authentication and is unable to maintain authentication with the AP.</p> <p>Workaround: Configure a MAC-based ACL to block the EAP request identity to multicast MAC address.</p>	
16.10.0002	250681	KB	<p>Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.</p>	AirWave
16.10.0002	250934	KB	<p>Symptom: The switch does not respond to commands from a console or SSH session.</p> <p>Scenario: After updating the switch configuration using Aruba Central while clients are authenticated, the switch may not respond to commands from a console or SSH session.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Apply a template disabling MAC authentication on all ports. 2. Apply a template with AAA config changes. 3. Apply a template enabling MAC authentication on all ports. 	Central
16.10.0002	251313	KB	<p>Symptom: The switch experiences a high CPU utilization and loses connection with Central.</p> <p>Scenario: when the switch is upgraded to 16.08.0001 and a template with tls and cwp commands is pushed from Central, the switch experiences high CPE utilization and loses the connection to Aruba Central.</p> <p>Workaround: Remove tls application cloud lowest-version tls1.2 and cwp from the switch template.</p>	Central
16.10.0002	250247	KB	<p>Symptom/Scenario: The switch crashes with a message similar to: Software exception in ISR at interrupts_om.c-> Excessive OM FP interrupts.</p>	Chassis
16.10.0002	250514	KB	<p>Symptom: The show running config and show modules commands report false information.</p> <p>Scenario: When a VSF configuration has been loaded to the switch without MAC addresses specified and the switch is rebooted, the <code>show running config</code> command returns incorrect data and the show modules command reports a module as failed.</p> <p>Workaround: Download a VSF configuration that includes member MAC addresses.</p>	Config

Version	Bug ID	Software	Description	Category
16.10.0002	250542	KB	<p>Symptom: The switch is unable to classify Aruba APs.</p> <p>Scenario: After configuring device fingerprinting, the switch is unable to classify Aruba APs.</p>	Device finger printing
16.10.0002	250600	KB	<p>Symptom/Scenario: The help text for the <code>device-identity lldp oui</code> command indicates that the required input is a MAC-OUI.</p>	Device finger printing
16.10.0002	251075	KB	<p>Symptom: The switch crashes with a message similar to <code>Task='mdevMntr'</code>.</p> <p>Scenario: When the switch has been configured with a device finger printing policy on a port with clients, if the port is bounced multiple times, the switch may crash with a message similar to <code>Task='mdevMntr'</code>.</p>	Device finger printing
16.10.0002	250957	KB	<p>Symptom: Host packets are denied with a message similar to <code>dlpld: AM1: Access denied</code>.</p> <p>Scenario: When the switch has been configured using the <code>aaa port-access</code> and <code>ip source-lockdown</code> commands and clients authenticate to the switch, if more than one client is placed in a VLAN provided by the RADIUS server, host packets are denied.</p> <p>Workaround: Disable Dynamic IP Lockdown on the switch using the <code>no ip source-lockdown</code> command.</p>	DIPLD
16.10.0002	250550	KB	<p>Symptom: Primary and secondary VLANs do not have MAC address entries.</p> <p>Scenario: When a port has been configured with PVLAN and port security and the port is subsequently disabled and re-enabled, MAC address entries are not present in the primary and secondary VLANs.</p> <p>Workaround: Reconfigure the port security configuration of the port.</p>	MAC address
16.10.0002	250392	KB	<p>Symptom: The switch crashes with a message similar to: <code>Health Monitor: Invalid Instr Misaligned Mem Access</code>.</p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to: <code>Health Monitor: Invalid Instr Misaligned Mem Access</code>.</p> <p>Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.</p>	Menu
16.10.0002	245830	KB	<p>Symptom: The switch fails to list the switch ports in the Ports web management page.</p>	Next Gen GUI

Version	Bug ID	Software	Description	Category
			<p>Scenario: When a peer device that advertises information in LLDP has a sysName string with special characters, the switch fails to display the port list table on the Ports web management page.</p> <p>Workaround: Remove the special characters from the peer device sysName or use CLI commands to get specific port information.</p>	
16.10.0002	250833	KB	<p>Symptom: After a switch reboot, OSPF is stuck in the INIT state.</p> <p>Scenario: When a switch that is configured with OSPF, but ip router-id has not been configured, is rebooted OSPF remains in the INIT state.</p> <p>Workaround: Configure the router ID manually.</p>	OSPF
16.10.0002	250958	KB	<p>Symptom: The hit counters in the output of the show statistics policy command shows all zeros.</p> <p>Scenario: If a QoS policy with several class entries across all ports on multiple modules has been applied, the output of the show statistics policy command shows all zeros in the hit counters.</p>	QoS
16.10.0002	251017	KB	<p>Symptom: The event log displays <code>lpAddrMgr : Failed to add FIB entry - neighbor matches existing route (vrf:0 A.B.C.D/32)</code>.</p> <p>Scenario: When the switch has been configured with a VRRP master and the connected routes are redistributed using routing protocols, the event log will display a lpAddrMgr message.</p>	VRRP
16.10.0002	251203	KB	<p>Symptom: Pings to the VRRP virtual IP address fail.</p> <p>Scenario: If a switch module is reloaded, added, or hot-swapped, if a VSF stack member joins the stack after a stack split event or after a switch reboot with expansion module present, the switch fails to respond to ping packets to the VRRP virtual IP address.</p>	VRRP
16.10.0002	250489	KB	<p>Symptom: High utilization of a VSF link is reported by the switch.</p> <p>Scenario: When VSF is configured with one link having multiple ports and then a VSF link port toggle is performed by disabling then re-enabling the VSF interface, the switch reports a high link utilization.</p>	VSF
16.10.0002	250754	KB	<p>Symptom: The switch cannot be found in Aruba Central even though the CLI reports the switch as being connected.</p> <p>Scenario: When a VSF stack is already checked into Aruba Central with the same stack ID as another VSF stack, switches in the stack cannot be found in Aruba Central.</p>	VSF

Version	Bug ID	Software	Description	Category
			Workaround: Ensure all switches are running 16.06 or later and then form the VSF stack.	
16.10.0002	250896	KB	Symptom: Switch ports are not listed in the web interface. Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.	Web UI
16.10.0001	250366	KB	Symptom: An Apple MacOS device (desktop or laptop) is unable to maintain authentication with APs. Scenario: When an AP is connected to a switch port that has been configured with device-identity bypass, an Apple MacOS device (desktop or laptop) receives EAP request ID packets after 802.1X authentication and is unable to maintain authentication with the AP. Workaround: Configure a MAC-based ACL to block the EAP request identity to multicast MAC address.	802.1X
16.10.0001	250681	KB	Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.	AirWave
16.10.0001	250934	KB	Symptom: The switch does not respond to commands from a console or SSH session. Scenario: After updating the switch configuration using Aruba Central while clients are authenticated, the switch may not respond to commands from a console or SSH session. Workaround: <ol style="list-style-type: none">1. Apply a template disabling MAC authentication on all ports.2. Apply a template with AAA config changes.3. Apply a template enabling MAC authentication on all ports.	Central
16.10.0001	250247	KB	Symptom/Scenario: The switch crashes with a message similar to: <code>Software exception in ISR at interrupts_om.c-> Excessive OM FP interrupts.</code>	Chassis
16.10.0001	250154	KB	Symptom: The global status LED on all members of a VSF stack turns amber. Scenario: When one member of a VSF stack experiences an over temperature, the global status LED on all members of the stack turns amber.	Chassis Manager
16.10.0001	250514	KB	Symptom: The show running config and show modules commands report false information.	Config

Version	Bug ID	Software	Description	Category
			<p>Scenario: When a VSF configuration has been loaded to the switch without MAC addresses specified and the switch is rebooted, the show running config command returns incorrect data and the show modules command reports a module as failed.</p> <p>Workaround: Download a VSF configuration that includes member MAC addresses.</p>	
16.10.0001	250542	KB	<p>Symptom: The switch is unable to classify Aruba APs.</p> <p>Scenario: After configuring device fingerprinting, the switch is unable to classify Aruba APs.</p>	Device finger printing
16.10.0001	251075	KB	<p>Symptom: The switch crashes with a message similar to <code>Task='mdevMntr'</code>.</p> <p>Scenario: When the switch has been configured with a device finger printing policy on a port with clients, if the port is bounced multiple times, the switch may crash with a message similar to <code>Task='mdevMntr'</code>.</p>	Device finger printing
16.10.0001	250600	KB	<p>Symptom/Scenario: The help text for the device-identity lldp oui command indicates that the required input is a MAC-OUI.</p>	Device identity
16.10.0001	250957	KB	<p>Symptom: Host packets are denied with a message similar to <code>dlpld: AM1: Access denied.</code></p> <p>Scenario: When the switch has been configured using the <code>aaa port-access</code> and <code>ip source-lockdown</code> commands and clients authenticate to the switch, if more than one client is placed in a VLAN provided by the RADIUS server, host packets are denied.</p> <p>Workaround: Disable Dynamic IP Lockdown on the switch using the <code>no ip source-lockdown</code> command.</p>	DIPLD
16.10.0001	250550	KB	<p>Symptom: Primary and secondary VLANs do not have MAC address entries.</p> <p>Scenario: When a port has been configured with PVLAN and port security and the port is subsequently disabled and re-enabled, MAC address entries are not present in the primary and secondary VLANs.</p> <p>Workaround: Reconfigure the port security configuration of the port.</p>	MAC address
16.10.0001	250392	KB	<p>Symptom: The switch crashes with a message similar to: <code>Health Monitor: Invalid Instr Misaligned Mem Access.</code></p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to: <code>Health Monitor: Invalid Instr Misaligned Mem Access.</code></p>	Menu

Version	Bug ID	Software	Description	Category
			Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.	
16.10.0001	250833	KB	Symptom: After a switch reboot, OSPF is stuck in the INIT state. Scenario: When a switch that is configured with OSPF, but ip router-id has not been configured, is rebooted OSPF remains in the INIT state. Workaround: Configure the router ID manually.	OSPF
16.10.0001	250958	KB	Symptom: The hit counters in the output of the show statistics policy command shows all zeros. Scenario: If a QoS policy with several class entries across all ports on multiple modules has been applied, the output of the show statistics policy command shows all zeros in the hit counters.	QoS
16.10.0001	251017	KB	Symptom: The event log displays <code>lpAddrMgr: Failed to add FIB entry - neighbor matches existing route (vrf:0 A.B.C.D/32) ..</code> Scenario: When the switch has been configured with a VRRP master and the connected routes are redistributed using routing protocols, the event log will display a lpAddrMgr message.	VRRP
16.10.0001	251203	KB	Symptom: Pings to the VRRP virtual IP address fail. Scenario: If a switch module is reloaded, added, or hot-swapped, if a VSF stack member joins the stack after a stack split event or after a switch reboot with expansion module present, the switch fails to respond to ping packets to the VRRP virtual IP address.	VRRP
16.10.0001	250489	KB	Symptom: High utilization of a VSF link is reported by the switch. Scenario: When VSF is configured with one link having multiple ports and then a VSF link port toggle is performed by disabling then re-enabling the VSF interface, the switch reports a high link utilization.	VSF
16.10.0001	250754	KB	Symptom: The switch cannot be found in Aruba Central even though the CLI reports the switch as being connected. Scenario: When a VSF stack is already checked into Aruba Central with the same stack ID as another VSF stack, switches in the stack cannot be found in Aruba Central. Workaround: Ensure all switches are running 16.06 or later and then form the VSF stack.	VSF

Version	Bug ID	Software	Description	Category
16.10.0001	245830	KB	<p>Symptom: The switch fails to list the switch ports in the Ports web management page.</p> <p>Scenario: When a peer device that advertises information in LLDP has a sysName string with special characters, the switch fails to display the port list table on the Ports web management page.</p> <p>Workaround: Remove the special characters from the peer device sysName or use CLI commands to get specific port information.</p>	Web UI

Issues and Workarounds

The following are known open issues with this branch of the software.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue.

Table 6: *Known Issues*

Version	Bug ID	Software	Description	Category
16.10.0016	255646	KB	<p>Symptom: The <code>show statistics aclv4 <ACL-NAME-STR> vlan <VLAN-ID> out</code> command displays lesser HitCounts for ACL for deny rule.</p> <p>Scenario: The routed traffic is denied even before the egress Access control list (ACL) when the ACL contains a deny rule, and it is applied in the VLAN egress direction.</p>	ACL
16.08.009	247648	KB	<p>Symptom: The switch fails to bypass authentication for random devices.</p> <p>Scenario: When the CDP/LLDP bypass is enabled on a switch configured in VSF, the switch fails to bypass authentication for random devices after a redundancy switchover event.</p> <p>Workaround: Disable and re-enable the affected port to re-enforce CDP/LLDP bypass on the port.</p>	CDP/LLDP Bypass

Upgrade Information

Upgrading Restrictions and Guidelines

KB.16.10.0009 uses BootROM KB.16.01.0006 when running on 5400R switches and BootROM KB.16.01.0008 when running on 3810M switches. If your switch has an older version of BootROM, the BootROM will be updated with this version of software.

IMPORTANT: During the software update, the switch will automatically boot twice. The switch will update the primary BootROM, then reboot, and then update the secondary BootROM. After the switch flash memory is

updated and the final boot is initiated, no additional user intervention is needed. Do not interrupt power to the switch during this important update.

Firmware downgrade to a version earlier than 16.01 is not allowed if MSTP instances configured are greater than 16; or the max-vlans value is greater than 2048, or this system is part of a VSF stack.

Unconfigure these features before attempting to downgrade from KB.16.01.0004 or later to a version earlier than 16.01 of the firmware.

Firmware downgrade to a version earlier than 16.04 will generate new SSH keys upon switch boot-up. These keys will be different than the ones previously stored in SSH peer's known hosts file and may result in SSH connectivity issues after the OS downgrade completes. You will need to erase the pre-existing switch keys from SSH peer's known hosts file to restore SSH connectivity.

This issue will not be encountered when the option "StrictHostKeyChecking" is disabled in the SSH peer.

For more information regarding clearing SSH keys and changing strict host key checking settings, see the documentation provided with your SSH client.

For information on best practices when updating software or rolling back to previous versions of software, see the "Best practices for software updates" section of the Basic Operation Guide.

Aruba Security Policy

A Security Bulletin is the first published notification of security vulnerabilities and is the only communication vehicle for security vulnerabilities.

- Fixes for security vulnerabilities are not documented in manuals, release notes, or other forms of product documentation.
- A Security Bulletin is released when all vulnerable products still in support life have publicly available images that contain the fix for the security vulnerability.

The Aruba security policy can be found at https://www.arubanetworks.com/en-au/support-services/_sirt/.

Security bulletins can be found at <https://www.arubanetworks.com/en-au/support-services/security-bulletins/>.

This release note covers software versions for the WC.16.10 branch of the software.

Version WC.16.10.0001 is the initial build of Major version WC.16.10 software. WC.16.10.0020 includes all enhancements and fixes in the WC.16.10.0019 software, plus the additional enhancements and fixes in the WC.16.10.0020 enhancements and fixes sections of this release note.

This release applies to the following Aruba 2930F Switch Series and Aruba 2930M Switch Series:

Table 7: Products Supported

Product number	Description
JL253A	Aruba 2930F 24G 4SFP+ Switch
JL254A	Aruba 2930F 48G 4SFP+ Switch
JL255A	Aruba 2930F 24G PoE+ 4SFP+ Switch
JL256A	Aruba 2930F 48G PoE+ 4SFP+ Switch
JL258A	Aruba 2930F 8G PoE+ 2SFP+ Switch
JL259A	Aruba 2930F 24G 4SFP Switch
JL260A	Aruba 2930F 48G 4SFP Switch
JL261A	Aruba 2930F 24G PoE+ 4SFP Switch
JL262A	Aruba 2930F 48G PoE+ 4SFP Switch
JL263A	Aruba 2930F 24G PoE+ 4SFP+ TAA-compliant Switch
JL264A	Aruba 2930F 48G PoE+ 4SFP+ TAA-compliant Switch
JL319A	Aruba 2930M 24G 1-slot Switch
JL320A	Aruba 2930M 24G PoE+ 1-slot Switch
JL321A	Aruba 2930M 48G 1-slot Switch
JL322A	Aruba 2930M 48G PoE+ 1-slot Switch
JL323A	Aruba 2930M 40G 8SR PoE+ 1-slot Switch
JL324A	Aruba 2930M 24SR PoE+ 1-slot Switch
JL557A	Aruba 2930F 48G PoE+ 4SFP 740W Switch
JL558A	Aruba 2930F 48G PoE+ 4SFP+ 740W Switch

Product number	Description
JL559A	Aruba 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch
JL692A	Aruba 2930F 8G PoE+ 2SFP+ TAA Switch
JL693A	Aruba 2930F 12G PoE+ 2G/2SFP+ Switch
R0M67A	Aruba 2930M 40G 8 HPE Smart Rate PoE Class 6 1-slot Switch
R0M68A	Aruba 2930M 24 HPE Smart Rate PoE Class 6 1-slot Switch

Minimum Supported Software Versions



If your switch or module is not listed in the below table, it runs on all versions of the software.

Table 8: *Minimum Supported Software Versions*

Product number	Product name	Minimum software version
JL078A	Aruba 3810M/2930M 1-port QSFP+ 40GbE Module	WC.16.04.0004
JL083A	Aruba 3810M/2930M 4-port 100M/1G/10G SFP+ MACsec Module	WC.16.04.0004
JL308A	Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	WC.16.04.0008
JL323A	Aruba 2930M 40G 8SR PoE+ 1-slot Switch	WC.16.04.0008
JL324A	Aruba 2930M 24SR PoE+ 1-slot Switch	WC.16.04.0008
JL557A	Aruba 2930F 48G PoE+ 4SFP 740W Switch	WC.16.05.0003
JL558A	Aruba 2930F 48G PoE+ 4SFP+ 740W Switch	WC.16.05.0003
JL559A	Aruba 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch	WC.16.05.0003
R0M67A	Aruba 2930M 40G 8 HPE Smart Rate PoE Class 6 1-slot Switch	WC.16.07.0002
R0M68A	Aruba 2930M 24 HPE Smart Rate PoE Class 6 1-slot Switch	WC.16.07.0002
J9142B	HPE X122 1G SFP LC BX-D Transceiver	WC.16.07.0003
J9143B	HPE X122 1G SFP LC BX-U Transceiver	WC.16.07.0003
JL692A	Aruba 2930F 8G PoE+ 2SFP+ TAA Switch	WC.16.08.0005
JL693A	Aruba 2930F 12G PoE+ 2G/2SFP+ Switch	WC.16.10.0001

Product number	Product name	Minimum software version
JL745A	Aruba 1G SFP LC SX 500m MMF TAA XCVR	WC.16.10.0007
JL746A	Aruba 1G SFP LC LX 10km SMF TAA XCVR	WC.16.10.0007
JL747A	Aruba 1G SFP RJ45 T 100m Cat5e TAA XCVR	WC.16.10.0007
JL748A	Aruba 10G SFP+ LC SR 300m MMF TAA XCVR	WC.16.10.0007
JL749A	Aruba 10G SFP+ LC LR 10km SMF TAA XCVR	WC.16.10.0007



For information on networking application compatibility, see the Software Feature Support Matrix.

Enhancements

This section lists enhancements added to this branch of the software.

Software enhancements are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all enhancements added in earlier versions

Table 9: *Enhancements*

Version	Software	Description	Category
16.10.0020	WC	<p>OSPF Route Filtering feature provides an option to filter the intra-area routes from installing into local FIB table.</p> <p>By using this, operator can create <code>distribute-list</code> with one or more network addresses which will be used to filter the intra area routes in OSPFv2/OSPFv3.</p> <p>Syntax: OSPFv2: <code>distribute-list <IP-ADDR>/<Prefix-Len></code> OSPFv3: <code>distribute-list <IPV6-ADDR>/<Prefix-Len></code></p> <p>Refer to the <i>Aruba 3810/5400R Multicasting and Routing Guide for AOS-S Switch 16.11</i> and <i>Aruba 3810/5400R IPv6 Configuration Guide for AOS-S Switch 16.11</i> for more information.</p>	OSPF/OSPFv3
16.10.0020	WC	<p>Added support in Device fingerprinting (DFP) module to send protocol data to Aruba Central for telemetry.</p> <p>Added <code>options-list</code> parameter to device-fingerprinting CLI. Switch software is enhanced to collect DHCP options list and up to three instances of HTTP user agent headers.</p> <p>Syntax: <code>device-fingerprinting [policy]<PROFILE_NAME> dhcp [option-num <NUM> options-list]</code>.</p> <p>Refer to the <i>Aruba 3810/5400R Access Security Guide for AOS-S Switch 16.11</i> for more information.</p>	Device Finger Printing
16.10.0019	WC	No enhancements were included in version 16.10.0019.	NA

Version	Software	Description	Category
16.10.0018	WC	<p>The Enrollment over Secured Transport (EST) client feature is updated to download and renew the CA certificates from an EST server independent of application certificate enrollment. A new command <code>est-server <profile-name> cacerts-download</code> is added to enable independent CA certificate download from the EST server. This enhancement initiates automatic CA certificate download and renewal when the existing TA profile is about to expire. The switch will use the existing <code>est-server <profile-name> re-enrollment-prior-expiry</code> command to determine how many days in advance the renewal is to be done. A MIB has also been added to enable automatic download and renew of the CA certificates from the EST server.</p> <p>Refer to the <i>Aruba 2930M/2930F Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	EST
16.10.0017	WC	<p>TCP timestamps are an extension to the original TCP stack, that was introduced to identify and reject old duplicate packets (PAWS) and to improve round-trip-time measurement. Using a scanner or other tool, an attacker can observe the TCP timestamp and determine the system uptime to gain information about the operational state of the system.</p> <p>To avoid such risks, a new command <code>ip tcp randomize-timestamp</code> has been introduced to randomize the TCP timestamp offsets per connection. Once the command is issued, all the newly established TCP sessions will use a random offset along with the timestamp.</p> <p>A MIB has also been added to enable or disable the randomization of TCP timestamp offsets.</p> <p>Refer to the <i>Aruba 2930F/2930M Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	Security
16.10.0017	WC	<p>This is an enhancement to an existing User-Based Tunneling <code>vlan-extend-enable</code> (VLAN-aware) mode. Silent devices like Programmable Logic Controller (PLC) devices do not initiate any traffic until they receive a message from the uplink server. Thus, such devices cannot leverage the benefits of colorless ports, which include being authenticated through a RADIUS server and being dynamically placed in a VLAN or being tunneled to a controller.</p> <p>To support such silent devices, a new command <code>tunneled-node-server ubt-wol-enable vlan <VLAN-ID-LIST></code> has been introduced. This command configures the silent client so that the controller allows the first packet from the silent server to reach the silent client without a user tunnel. This will initiate user authentication and tunnel formation.</p> <p>A MIB has also been added to enable User-Based Tunneling Wake-on-LAN (WoL) on the specified VLANs.</p>	Support for Silent Device

Version	Software	Description	Category
		Refer to the <i>Aruba 2930F/2930M Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.	
16.10.0016	WC	Added support for the new SSH data integrity algorithm hmac-sha2-256, which is defined in RFC 6668. Refer to the <i>Aruba 2930M/2930F Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba 2930M/2930F IPv6 Configuration Guide for AOS-S Switch 16.10</i> for more information.	SSH
16.10.0016	WC	Added support to configure the size of the EAP-TLS fragments sent from the switch to the RADIUS server. Configuring EAP-TLS fragment size based on the MTU of the network avoids IP fragmentation in the network, and thus, the fragmented packets will not be dropped by the firewall or gateways. Added a MIB to indicate the maximum size of the EAP-TLS fragment sent to the RADIUS server. Refer to the <i>Aruba 2930M/2930F Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.	EAP-TLS Fragmentation
16.10.0015	WC	No enhancements were included in version 16.10.0015.	NA
16.10.0014	WC	No enhancements were included in version 16.10.0014.	NA
16.10.0013	WC	Added support to enable force-2-pair mode. This feature protects the Powered Devices (PD) from hardware failure by delivering power over 2-pairs of a 4-pair Ethernet cable. Added RMON to indicate the force-2-pair mode is configured and enabled on a port. Syntax: <code>power-over-ethernet force-2pair-mode ports <port-list></code> Refer to the <i>Aruba 2930M/2930F Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba Event Log Message Reference Guide for AOS-S Switch 16.10</i> for more information.	Enhancement for power delivery and RMON Logging
16.10.0013	WC	Added support to user roles to establish user-based tunneling to tunnel voice and data traffic selectively and authenticate critical role user in the event of RADIUS server unavailability. Refer to the <i>Aruba 2930M/2930F Access Security Guide for AOS-S Switch 16.10</i> and the <i>Aruba 2930M/2930F Management and Configuration Guide for AOS-S Switch 16.10</i> for more information.	Enhancement in traffic tunneling and critical-role authentication
16.10.0013	WC	Added MIBs to display the count of total and operational members in a VSF and BPS stack. Refer to the <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.	Back Plane Stacking (BPS) and Virtual Switch Framework (VSF)

Version	Software	Description	Category
16.10.0012	WC	Added <code>concise</code> parameter to display port-access and spanning-tree attributes in a consolidated format, when executing <code>show config</code> and <code>show running-config</code> commands.	Enhancement for <code>show config</code> and <code>show running-config</code> commands
16.10.0012	WC	Added support to enable SNMP traps for a specified event. This helps to filter out particular traps from all SNMP trap messages. Syntax: <code>snmp-server enable traps event-list <EVENT-LIST-STR></code>	Customization for SNMP Traps
16.10.0012	WC	Added support to maintain the current role of the User-Based Tunneling client in the switch instead of de-authenticating the client during controller maintenance. The client traffic flow is resumed at the switch ingress port when the controller is reachable. NOTE: The client is de-authenticated when the controller is not available even after the configured maintenance period.	Enhancement for <code>tunneled-node-server</code> command
16.10.0012	WC	Added <code>recv-disable</code> parameter to configure loop-protect from blocking the receiving port when a loop is detected. Syntax: <code>no loop-protect <PORT-LIST> receiver-action [recv-disable]</code>	Configuration for loop-protect receiver-action
16.10.0011	WC	Improved performance when executing <code>show config</code> command.	Performance improvements for <code>show config</code> command
16.10.0011	WC	Added support to format MAC address in upper case for the Called and Calling Station IDs. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	WC	Added support to include the Port VLAN information in RADIUS access request for all authentication types. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	WC	Added support to enable AES 256-bit encryption for SNMP. Refer to the <i>Management and Configuration Guide</i> for more information.	AES 256-bit encryption for SNMP
16.10.0011	WC	Added support to configure a prefix string along with the switch IP address or hostname in the logs sent to the Syslog servers. This helps to classify and group log entries based on the string value. Syntax: <code>logging prefix <ASCII-STR></code> Refer to the <i>Management and Configuration Guide</i> for more information.	Syslog Enhancement

Version	Software	Description	Category
16.10.0011	WC	Added support to schedule a stack or chassis reboot. Syntax: <code>reload <after at> [system]</code> Refer to the <i>Management and Configuration Guide</i> for more information.	Stacking Enhancement
16.10.0010	WC	Added support to provide the option to specify the source interface or VLAN for Central connectivity. The existing IP source-interface command is enhanced to override current configuration check for provisioning using Aruba Activate. Refer to the <i>Management and Configuration Guide</i> for more information.	Source interface option for Central connectivity
16.10.0010	WC	Added support to allow more PoE devices to be connected to the switch by using <code>poe-alloc-by-usage</code> when using Device Profiles. This can be based on either Usage or Class . Default allocation will be based on Class . Refer to the <i>Management and Configuration Guide</i> for more information.	Device Profile Enhancement
16.10.0010	WC	Added support for FQDN (only IPv4) while configuring TACACS server along with the existing support of IP address. Refer to the <i>Access Security Guide</i> for more information.	TACACS Option
16.10.0010	WC	Added support to work with the default setting in OpenSSH 8.2 by choosing an inherently more secure algorithm as the default on the switch for SSH communication. Refer to the <i>Access Security Guide</i> for more information. The list of new Host-Key algorithms are as follows: <ul style="list-style-type: none"> ■ <code>rsa-sha2-512</code> ■ <code>rsa-sha2-256</code> The list of new SSH KEX algorithms are as follows: <ul style="list-style-type: none"> ■ <code>ecdh-sha2-nistp521</code> ■ <code>ecdh-sha2-nistp381</code> ■ <code>ecdh-sha2-nistp256</code> ■ <code>diffie-hellman-group-exchange-sha256</code> 	Support for OpenSSH 8.2
16.10.0010	WC	Improved performance when displaying large configurations.	Performance improvements for <code>show running-config</code> command
16.10.0010	WC	Added RMON logging for the failure events in SSH, Web UI, Syslog over TLS sessions, and x509 certificate processing. Refer to the <i>Event Log Message Reference Guide</i> for more information.	RMON Logging

Version	Software	Description	Category
16.10.0009	WC	Added support for the manager password enforcement to ensure that the switch prompts the user to configure the manager password on the switch before configuring any other features. If the manager password is not configured, then the user will have read-only access to the switch. This is applicable only to switches with factory default configuration. Refer to the <i>Access Security Guide</i> for more information.	Manager Password Enforcement
16.10.0009	WC	Added support to enhance the payload size for the REST API interfaces. The increased payload size for 2930F\M platforms is 1024K. Refer to the <i>REST API Guide</i> for more information.	REST API Payload Enhancement
16.10.0009	WC	Added support for Server Name Indication (SNI), which is a TLS extension defined in RFC 6066. This feature is enabled by default to include the SNI extension in the Client Hello sent from the switch to all the TLS client applications. Refer to the <i>Access Security Guide</i> for more information.	Server Name Indication for TLS
16.10.0008	WC	Version 16.10.0008 was never released.	NA
16.10.0007	WC	<ul style="list-style-type: none"> ■ Added additional support for pipe " " option to grep for pattern match the output of CLI commands, such as: <ul style="list-style-type: none"> ○ Case-insensitive option to allow a case insensitive pattern match ○ Up to four consecutive pattern matches in one CLI command ■ Added support for a per-session based command to wrap column display in the CLI output using session wrap-text option when its length is exceeding the column width. Refer to the <i>Management and Configuration Guide</i> for more information.	CLI
16.10.0007	WC	<p>Added the following REST enhancements:</p> <ul style="list-style-type: none"> ■ Support for ARP table data. ■ Support for downloadable user-roles configuration. ■ Support for primary VLAN. ■ Support for reserved-vlan and clearpass options to configure dynamic segmentation. ■ REST API schema moved under device-rest-api/services/server.html. Refer to the <i>REST API Guide</i> for more information.	REST
16.10.0007	WC	<p>Added support for the following 1G and 10G TAA transceivers:</p> <ul style="list-style-type: none"> ■ JL745A - Aruba 1G SFP LC SX 500m MMF TAA XCVR ■ JL746A - Aruba 1G SFP LC LX 10km SMF TAA XCVR ■ JL747A - Aruba 1G SFP RJ45 T 100m Cat5e TAA XCVR ■ JL748A - Aruba 10G SFP+ LC SR 300m MMF TAA XCVR 	Transceivers

Version	Software	Description	Category
		<ul style="list-style-type: none"> JL749A - Aruba 10G SFP+ LC LR 10km SMF TAA XCVR 	
16.10.0007	WC	<p>Added support for the new activate endpoint devices-v2.arubanetworks.com which has the following two major differences compared to the old endpoint device.arubanetworks.com:</p> <ul style="list-style-type: none"> It works on the standard TLS handshake mechanism and uses mutual authentication. It uses certificates issued by HP CA for establishing TLS connections. <p>Zero Touch Provisioning (ZTP) improvements were made to deal with situations such as unresponsive DNS servers. Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Zero Touch Provisioning
16.10.0006	WC	Version 16.10.0006 was never released.	NA
16.10.0005	WC	No enhancements were included in version 16.10.0005.	NA
16.10.0004	WC	Version 16.10.0004 was never released.	NA
16.10.0003	WC	<p>New command <code>aaa accounting session-id include-switch-identity</code> was added. When this command is invoked, an accounting session ID is generated with Switch Base MAC, Client MAC, and Timestamp for network accounting type. The other accounting types (exec, system, commands) do not include Client MAC and hence the session ID is generated with Switch Base MAC, Track ID, and Timestamp.</p> <p>If the same client is accessing the network from multiple switches, then the accounting session ID can be duplicated. This caused issues in Clearpass where client insertion in the database failed with an error similar to Integrity Error: <code>acct_id, calling_station_id</code> violates check constraint. This new command alleviates that problem.</p>	AAA
16.10.0003	WC	Extended the device identify capability by just matching based on the attribute MAC OUI to the Sys name and Sys description attributes.	Device profile
16.10.0003	WC	This enhancement will only be in effect if the CoA/Disconnect request has a message authenticator attribute in request packet. The message authenticator attribute is used to verify the integrity (HMAC-MD5) of the RADIUS packet. This is an optional attribute in the Access/CoA/Disconnect packet. If the received packet has this attribute in the RADIUS packet, the receiver will validate the integrity value and discard it if the value is incorrect.	RADIUS
16.10.0002	WC	An event is added to the log when the switch experiences an over temperature condition.	Event Log
16.10.0001	WC	Added support for JL693A, Aruba 2930F 12G PoE+ 2G/2SFP+ Switch.	Hardware

Fixes

This section lists released builds that include fixes found in this branch of the software. Software fixes are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all fixes added in earlier versions.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue for customers who decide not to update to this version of software.

The number that precedes the fix description is used for tracking purposes.

Table 10: *Fixed Issues*

Version	Bug ID	Software	Description	Category
16.10.0020	256274	WC	Symptom/Scenario: VSF Stack Member crashed with a message similar to the following: Software exception at lava_chassis_slot_sm.c:3626 - in 'eChassMgr', task ID = 0x37b07bc0.	VSF
16.10.0020	256257	WC	Symptom/Scenario: Certain transceivers had link issues in unsupported transceiver mode.	Transceivers
16.10.0020	256234	WC	Symptom: The <code>show rmon statistics <port no></code> command returns the wrong counter values. Scenario: This issue occurred when the command <code>clear statistics global</code> or <code>clear statistics <port no></code> was first executed and then <code>show rmon statistics <port no></code> .	CLI
16.10.0020	256233	WC	Symptom: Client ports may encounter packet drops when multicast sources stream video over 500 Mbps. Scenario: This issue can occur when multiple clients from different ports subscribed to the same group, which streams using HD channels requiring high bandwidth. TX drops can occur when several clients change channels simultaneously. Workaround: Lower the bandwidth of the video streams to below 500 Mbps in order to avoid over-subscription of ports.	IGMP-NG
16.10.0020	256220	WC	Symptom: Missing OSPF routes. Scenario: This issue occurred when both userbased tunneling and OSPF are configured and either of the uplinks to the controller is down. NOTE: <code>source-interface</code> to be configured for tunneled node when the switch has more than one vlan to the reach the controller.	OSPFv2
16.10.0020	256205	WC	Symptom: A configuration template push from Aruba Central fails.	Central Integration

Version	Bug ID	Software	Description	Category
			Scenario: This issue occurred when the end devices are connected to ports that are configured with <code>port-security learn-mode static</code> .	
16.10.0020	256167	WC	Symptom: Ports with per-port tunneled node (PPTN) configured might be disabled after a switch reboot. Scenario: This issue occurred when a device profile was configured with <code>tunneled-node</code> . Workaround: Disable and enable the problematic PPTN enabled port manually.	Tunneled Node
16.10.0019	256115	WC	Symptom: Although the switch does not react to pings or SSH commands, it continues to transit traffic. The event log contains a crash message. Scenario: This issue occurred when device fingerprinting was configured with DHCP protocol.	CPPM
16.10.0019	256200	WC	Symptom: Per-port tunneled node (PPTN) disables the port for one second as part of tunnel deletion. Scenario: This issue occurred when the device-profile application with <code>tunneled-node</code> was disabled on a PPTN enabled port. Workaround: Disable and enable the problematic PPTN enabled port manually.	Tunneled Node
16.10.0019	256121	WC	Symptom: Web authentication fails when the switch is managed by Aruba Central (<code>aruba-central support-mode disable</code>). Scenario: This issue occurred when the switch was connected to Aruba Central and <code>aruba-central support-mode</code> was disabled. Workaround: Execute <code>aruba-central support-mode enable</code> command so the switch is longer managed by Aruba Central.	Web Authentication
16.10.0018	256037	WC	Symptom/Scenario: Clients are not authenticated on a switch port. Scenario: This issue occurred when multiple clients were connected to a single port (for example, a Personal Computer (PC) was connected to a phone), both MAC authentication and 802.1X authentication methods were attempted at the same time on the PC, and both the authentication methods used the same user role attribute. Workaround: Configure the <code>auth-order</code> parameter first with <code>authenticator</code> , and then with <code>mac-based</code> .	802.1X
16.10.0018	255928	WC	Symptom/Scenario: A switch is unable to connect to Aruba Central.	Aruba Central

Version	Bug ID	Software	Description	Category
16.10.0018	255940	WC	<p>Symptom: A switch crashes with a message similar to the following: Software exception at svc_misc.c:1088 - in 'mDHCPClient' -> Failed to malloc 9202 bytes.</p> <p>Scenario: This issue occurred when the switch attempted to reconnect to Aruba Central.</p>	Aruba Central
16.10.0018	255978	WC	<p>Symptom: A switch crashes with a message similar to the following: Software exception in ISR at pvDmaVlRx.c -> ASSERT: No resources available!.</p> <p>Scenario: This issue occurred when 802.1X and MAC authentication were enabled on the same port with auth-order, and the client was initially authenticated through MAC authentication with a user role having the <code>port mode</code> attribute.</p>	Authentication
16.10.0018	255995	WC	<p>Symptom: A switch crashes when the <code>show port-access clients</code> command is issued or when an <code>SNMP GET</code> operation is performed to get the MIB object <code>hpicfUsrAuthMacAuthSessionStatsEntry</code>.</p> <p>Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.</p>	Authentication
16.10.0018	254566	WC	<p>Symptom: Traffic fails to pass through an IEEE 802.1ad tunnel.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ol style="list-style-type: none"> 1. A Small Form-factor Pluggable+ (SFP+) port was configured as an uplink. 2. IEEE 802.1ad was configured on the same port. 3. The switch was rebooted without a transceiver in the slot. 4. A 1G SFP transceiver was inserted during the runtime. <p>Workaround: Insert the 1G SFP transceiver, and then reboot the switch.</p>	IEEE 802.1ad
16.10.0018	256016	WC	<p>Symptom: When a private VLAN is configured on a switch, the traffic from the secondary VLAN does not reach the primary VLAN.</p>	Private VLAN

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the switch was rebooted, and the secondary VLAN contained a tagged trunk or Link Aggregation Control Protocol (LACP) port.</p> <p>Workaround: Remove and add the tagged trunk or LACP configuration to the secondary VLAN.</p>	
16.10.0018	256034	WC	<p>Symptom: SNMP MIB files are not reachable, and the MIB file returns some errors.</p> <p>Scenario: This issue occurred when the customer used an SNMP monitoring tool to read or parse the MIB files.</p>	SNMP
16.10.0018	256050	WC	<p>Symptom: A switch crashes when the WebUI Security > Clientspage is accessed.</p> <p>Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.</p>	Web UI
16.10.0017	255888	WC	<p>Symptom/Scenario: When a proxy server is configured on the switch, the switch does not onboard into Aruba Central or Activate.</p>	Aruba Central
16.10.0017	255882	WC	<p>Symptom: When a switch fails to connect to Aruba Central, the switch configuration rolls back.</p> <p>Scenario: This issue occurred when the connection between the switch and Aruba Central was lost.</p>	Aruba Central
16.10.0017	255762	WC	<p>Symptom/Scenario: A switch crashes with the following message:</p> <pre>OMFP LPTR Err Status = 0x00000310 (DEC_ERR_CNT).</pre>	Chassis
16.10.0017	255713	WC	<p>Symptom: Some devices that are connected to a switch become unreachable.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ol style="list-style-type: none"> 1. The switch was running Multiple Spanning Tree Protocol (MSTP). 2. A large number of ports were MAC-authenticated. 3. Topology Change Notification (TCN) events occurred, which caused the authentication to block or unblock the port without the port flap. <p>Workaround: Disable and enable the ports.</p>	Chassis Manager
16.10.0017	255799	WC	<p>Symptom: The user is unable to copy a configuration file to the switch using Secure File Transfer Protocol (SFTP) and the following error message is displayed.</p> <pre>Invalid input: grep usage error</pre>	Configuration

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the pipe character () was used as a part of the command input for some configuration commands, such as the <code>banner motd</code> and <code>snmpv3 user</code> commands.</p> <p>Workaround: Do not use the pipe character () in the command input for the configuration commands.</p>	
16.10.0017	255908	WC	<p>Symptom/Scenario: A new multicast stream is initially broadcast on a VLAN even when no IGMP join is sent.</p>	IGMP
16.10.0017	255195	WC	<p>Symptom: The switch memory utilization spikes and might reach to 100%.</p> <p>Scenario: This issue occurred when many ports were monitored and mirrored to one port.</p> <p>Workaround: Disable mirroring on the ports.</p>	Mirroring
16.10.0017	255825	WC	<p>Symptom/Scenario: When a switch is rebooted through an SSH session, the <code>show boot-history</code>, <code>show logging</code>, and <code>boot</code> command outputs include the <code>Operator cold reboot from TELNET session</code> message instead of the <code>Operator cold reboot from SSH session</code> message.</p>	SSH
16.10.0017	255827	WC	<p>Symptom/Scenario: A switch crashes with the following message:</p> <pre>Health Monitor: Invalid Instr Misaligned Mem Access Task='InetServer'.</pre>	System
16.10.0017	254817	WC	<p>Symptom: When the Virtual Switch Framework (VSF) stack is pinged and the commander switch is rebooted, a temporary ping loss of 20 to 30 seconds is observed in Aruba 2930F switch series.</p> <p>Scenario: This issue occurred when J9054C transceivers were used, and the commander switch of a 2 member VSF stack was rebooted.</p>	Transceivers
16.10.0017	255760	WC	<p>Symptom/Scenario: A switch crashes with the following message:</p> <pre>Software exception at bsp_ interrupts.c:90 - in 'fault_handler'</pre>	Tunneled Node
16.10.0016	255682	WC	<p>Symptom: The RADIUS accounting packets sent from the switch to the RADIUS server do not contain the correct client IP address.</p> <p>Scenario: This issue occurred when both user authentication and MAC authentication were configured.</p>	802.1X

Version	Bug ID	Software	Description	Category
16.10.0016	255400	WC	<p>Symptom: The switch is unable to connect to Activate or Aruba Central.</p> <p>Scenario: This issue occurred when the <code>show crypto pki ta-profile</code> command displayed Pending Root Certificate In... for the GEOTRUST_CA profile, and the following event was recorded in the event log:</p> <pre>05222 activate: ST1-CMDR: Error connecting to the Activate server: Activate TLS connection error.</pre>	Activate
16.10.0016	255653	WC	<p>Symptom: The switch crashes with a Non-Maskable Interrupt (NMI) event.</p> <p>Scenario: The switch crashed because of the following reasons:</p> <ol style="list-style-type: none"> 1. The switch was configured to receive a DHCP address. 2. The <code>activate provision force</code> command was configured on the switch. 3. The <code>no activate software-update check</code> command was executed. 	Activate
16.10.0016	255554	WC	<p>Symptom/Scenario: When the switch is powered on for the first time and ZTP is initiated, the switch does not come online in Aruba Central.</p> <p>Workaround: Reboot the switch or execute the <code>reset saved-configuration</code> command.</p>	Central
16.10.0016	255672	WC	<p>Symptom/Scenario: A configuration push from Aruba Central fails when the configuration contains the <code>crypto pki enroll-est-certificate</code> command.</p> <p>Workaround: Add a valid value for Enter Country (C) field in the subject fields of the <code>crypto pki enroll-est-certificate</code> command.</p>	Central
16.10.0016	255697	WC	<p>Symptom: The switch crashes with the following message:</p> <pre>Software exception in ISR at btmDmaApi.c:650 -> ASSERT: No resources available!.</pre> <p>Scenario: This issue occurred when there was a repeated hardware fault in one of the power supplies.</p>	Chassis Manager

Version	Bug ID	Software	Description	Category
16.10.0016	255570	WC	Symptom/Scenario: The <code>Rx Errors</code> counter in the <code>show interfaces</code> command output is not cleared when the <code>clear statistics global</code> command is executed.	CLI
16.10.0016	255719	WC	Symptom: The IP address of the next server is not present in the DHCP response packet. Scenario: This issue occurred when the DHCP server with option 66 and option 150 was configured in the server pool.	DHCP Server
16.10.0016	255417	WC	Symptom: The switch crashes with an NMI event. Scenario: This issue occurred when the DHCP snooping traffic was sent continuously to the switch with DHCP option 82, and the DHCP clients rebooted frequently.	DHCP Snooping
16.10.0016	255552	WC	Symptom/Scenario: Mirrored egress packets are tagged even though the <code>no-tag-added</code> option is configured. Workaround: Reapply the existing monitor configuration after removing the configuration using the <code>no monitor all both mirror 1</code> command.	Port Mirroring
16.10.0016	255638	WC	Symptom: Some PBT clients experience traffic loss. Scenario: This issue occurred when both VRRP and PBT were configured on the switch, and a VRRP failover event was recorded. Workaround: Disable and enable PBT on the switch.	Tunneled Node
16.10.0016	255586	WC	Symptom: Running configuration does not display the local user roles. Scenario: The issue occurred when the switch was configured to use both downloadable and local user roles. Workaround: Reboot the switch.	User Roles
16.10.0016	255619	WC	Symptom: The Ports table on the Web UI does not display all the interfaces of the switch. Scenario: This issue occurred when the Name and Id sent through LLDP contained a trailing backslash (<code>\</code>), and the same was configured on the port. Workaround: Disable LLDP on the switch using the <code>no lldp run</code> command.	Web UI
16.10.0015	255124	WC	Symptom: Captive portal redirection does not work. Scenario: This issue occurred when the <code>ip client-tracker</code> command was enabled, and the VLAN where the client onboarded had the <code>disable layer3</code> command configured.	Captive Portal

Version	Bug ID	Software	Description	Category
			Workaround: Remove <code>ip client-tracker</code> or <code>disable layer3</code> configuration from the client VLAN.	
16.10.0015	255259	WC	Symptom/Scenario: Executing the <code>show tech all</code> command resets the port counters in all sessions.	CLI
16.10.0015	255134	WC	Symptom: Switch crashes regularly with the following message: Active/Commander system went down: Software exception at <code>msgSys.c:641 -- in 'mNSR',</code> -> Can't get message buffer for <code>msgSys_recv</code> . The event log indicates continuous removal and application of the device-profile. Scenario: This issue occurred with a device profile for an AP enabled, with both interfaces of the AP connected to the switch through a trunk, and when the switch was rebooted. Workaround: Disable and enable the device profile.	Device Profile
16.10.0015	255158	WC	Symptom: Multicast traffic with the source IP address 0.0.0.0 floods to all ports, even with IGMP snooping enabled. Scenario: This issue occurred when the multicast traffic was sent with a NULL IP source from a device connected to a non-querier device.	IGMP
16.10.0015	255408	WC	Symptom: Unauthorized clients can connect and access the switch using the loopback address. Scenario: This issue occurred when the <code>ip authorized-managers</code> command was configured and an unauthorized client attempted to connect to the loopback address.	IP Authorized Managers
16.10.0015	255464	WC	Symptom/Scenario: A Quality of Service (QoS) policy, which has a space character in the name, cannot be removed from an interface or VLAN.	Policy Map
16.10.0015	255430	WC	Symptom: When the <code>show radius</code> command is executed, the output shows the RadSec server as a Dead server. Scenario: This issue occurred because of the following reason: <ol style="list-style-type: none"> When the <code>radius-server dead-time, aaa authentication and aaa accounting</code> commands were configured. 	RADIUS

Version	Bug ID	Software	Description	Category
			<p>2. Accounting was disabled on the RADIUS server and a RadSec connection was established.</p> <p>3. When an SSH session was established and commands were executed from that session.</p>	
16.10.0015	255342	WC	<p>Symptom: When an initial role is applied, clients do not attempt to reauthenticate.</p> <p>Scenario: This issue occurred when the server-timeout value was less than the RADIUS request timeout.</p> <p>Workaround: Configure a greater server-timeout value than the RADIUS request timeout.</p>	RADIUS
16.10.0015	255171	WC	<p>Symptom: The switch CPU spikes and the ClearPass RADIUS server shuts down.</p> <p>Scenario: This issue occurred when MAC authentication used the peap-mschapv2 authentication method. As a result, Access-Request and Access-challenge messages were exchanged in a loop.</p>	RADIUS
16.10.0015	255067	WC	<p>Symptom: Switch does not respond to Simple Network Management Protocol version 3 (SNMPv3) queries.</p> <p>Scenario: This issue occurred when there was a wrong value in the boot counter.</p>	SNMPv3
16.10.0014	255376	WC	<p>Symptom/Scenario: Traffic loss is observed in Port-Based Tunneling (PBT) and controller Virtual Router Redundancy Protocol (VRRP) topology.</p> <p>Workaround: Disable and enable PBT on the switch.</p>	Tunneled Node
16.10.0013	255031	WC	<p>Symptom: Switch loses connectivity to Aruba Central after a template is pushed.</p> <p>Scenario: This issue occurred when a template with netdestination commands were pushed to the switch.</p> <p>Workaround: Add <code>aruba-central url</code> to the template that is applied.</p>	Central
16.10.0013	254985	WC	<p>Symptom: End devices (example, printer) become unreachable when they do not send or receive much traffic.</p> <p>Scenario: This issue occurred when the switch stack was not rebooted after a new member was added to the stack.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Reboot the switch stack after adding a new member. ■ Bounce the port connecting to the end device. ■ Configure the MAC age time to match the ARP 	ARP

Version	Bug ID	Software	Description	Category
			ageout time of the router.	
16.10.0013	254974	WC	Symptom/Scenario: When the OOBM port is a DHCP client, the DHCP server receives an incorrect MAC address from the switch.	OOBM
16.10.0013	254922	WC	Symptom: When the switch attempts to connect to Aruba Central, the switch stack reboots. Scenario: This issue occurred when switch stack member 1 was in the <code>Missing</code> state and the switch stack attempted to connect to Aruba Central.	Central
16.10.0013	254868	WC	Symptom: When connection to the neighbor is lost, an incorrect OSPF route is removed from the routing table. Scenario: This issue occurred when more than one point-to-point OSPF interface was configured with the same router. Workaround: Configure broadcast OSPF interface instead of point-to-point OSPF interface.	OSPFv2
16.10.0013	255135	WC	Symptom: A MACsec connection is not established on the last fixed or last flex port of the switch. Scenario: This issue occurred because of the following reasons: <ul style="list-style-type: none"> ■ MACsec was enabled on the last fixed or last flex port of the switch. ■ There was an intermediate device that filtered packets with null MAC address. Workaround: Connect the MACsec peer switches without any devices in between.	MACsec
16.10.0013	255125	WC	Symptom: Clients authenticated by Aruba Central are not placed in the proper VLAN. Scenario: This issue occurred because of the following reasons: <ul style="list-style-type: none"> ■ Both MAC authentication and 802.1X are configured on the same port. ■ There are two clients on the port, which had a tagged membership for a VLAN, and the user role for a client had an untagged membership for the same VLAN. 	Central
16.10.0013	255123	WC	Symptom: The following event did not identify the affected module correctly: <code>00907 IpAddrMgr: ST3-CMDR: Module p BMP TCAM parity recovery.</code> Scenario: The following event was recorded in the event log when there was a hardware issue: <code>00907 IpAddrMgr: ST3-CMDR: Module p BMP TCAM parity recovery.</code>	RMON Logging

Version	Bug ID	Software	Description	Category
16.10.0013	255115	WC	<p>Symptom: Some VoIP phones did not receive an IP address from the DHCP server.</p> <p>Scenario: This issue occurred when user-based tunneling was configured on the port and DHCP snooping was enabled.</p> <p>Workaround: Disable DHCP snooping.</p>	DHCP Snooping
16.10.0013	255062	WC	<p>Symptom: User-based tunnel (802.1X) is not established when MAC authentication is also configured on the port with a different VLAN assignment.</p> <p>Scenario: This issue occurred when both MAC authentication and 802.1X were configured on a port, and the 802.1X authentication contained a VLAN change.</p>	MAC Authentication
16.10.0013	255058	WC	<p>Symptom: After a new template is applied to the switch, the switch is unable to connect to Aruba Central.</p> <p>Scenario: This issue occurred because the primary VLAN on the switch was changed when the new template was applied.</p> <p>Workaround: Reboot the switch.</p>	Central
16.10.0013	254976	WC	<p>Symptom/Scenario: The SSH, telnet, and console connections cannot be established with the switch, and the following event is recorded in the event log:</p> <pre>maximum user session limit reached.</pre>	Switch Access
16.10.0013	254966	WC	<p>Symptom: Applying a template from Aruba Central to a switch fails with the following reasons:</p> <ul style="list-style-type: none"> ▪ Failure Reason: Add and Remove commands have been failed ▪ Reason: Invalid netdestination entry. <p>Scenario: This issue occurred when the template contained changes to the host configurations of the netdestination entries, which are used in an ACL.</p>	Central
16.10.0013	254958	WC	<p>Symptom: After the transition of 802.1X machine authentication to user authentication with User-Based Tunnel, the client username in the show command in the controller is not updated.</p> <p>Scenario: This issue occurred when 802.1X with User-Based Tunneling was established and then the transition of machine authentication to user authentication was done.</p>	Tunneled Node
16.10.0013	254893	WC	<p>Symptom/Scenario: The switch crashes due to an MSTP NMI event.</p>	Spanning Tree
16.10.0013	254797	WC	<p>Symptom: The following event is recorded in the event file: Lease table is full, DHCP lease was not added.</p>	DHCP Snooping

Version	Bug ID	Software	Description	Category
			Scenario: This issue occurred when DHCP snooping was configured.	
16.10.0013	254786	WC	<p>Symptom: SSH fails to connect to the switch.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ul style="list-style-type: none"> ■ More than one RADIUS server was configured. ■ <code>aaa authentication ssh enable</code> was configured to use the other RADIUS server, instead of using the first one in the configuration. 	AAA Authentication
16.10.0013	254780	WC	<p>Symptom: When more number of MAC authentication clients (auth method: <code>peap-mschapv2</code>) get authenticated or reauthenticated, the following event is recorded multiple times in the event log: <code>PEAP SSL socket connection limit reached</code>.</p> <p>Scenario: This issue occurred when more than 20 clients were authenticated or reauthenticated at the same time.</p> <p>Workaround: Authenticate or reauthenticate less than 20 clients at the same time.</p>	MAC Authentication
16.10.0013	254481	WC	<p>Symptom: The switch CPU utilization increases to 80% or more, and CDP packet looping is observed across VLANs.</p> <p>Scenario: This issue occurred when CDP pass-through was configured on two switches, which had more than one connection between them.</p> <p>Workaround: Use <code>no cdp run</code> command to disable CDP globally, instead of configuring CDP mode pass-through.</p>	CDP
16.10.0012	254360	WC	<p>Symptom: A configuration push using the <code>cfg-restore</code> command from Aruba Central fails.</p> <p>Scenario: This issue occurred when a switch configuration, containing <code>radius server host</code> commands, was pushed to Aruba Central or when the <code>cfg-restore</code> command was executed with the same <code>radius server host</code> configuration.</p> <p>Workaround: Use the <code>copy tftp config</code> command to copy a configuration to the switch from Aruba Central, instead of the <code>cfg-restore</code> command for pushing a configuration.</p>	Central

Version	Bug ID	Software	Description	Category
16.10.0012	254198	WC	<p>Symptom: A switch or management module crashes with the following message: Active/Commander system went down: ... Health Monitor: Invalid Instr Misaligned Mem Access.</p> <p>Scenario: This issue occurred when the <code>copy command-output show tech all tftp <ip-address> <filename></code> command was executed.</p> <p>Workaround: Do not execute the <code>copy command-output show tech all tftp <ip-address> <filename></code> command.</p>	Chassis
16.10.0012	254096	WC	<p>Symptom: The <code>Rx Drop Bytes</code> parameter in the command output for <code>show interface queues <port></code> displays very high values for the last few ports, even though these ports were down.</p> <p>Scenario: This issue occurred when the <code>show interface queues <port></code> command was issued.</p>	CLI
16.10.0012	254278	WC	<p>Symptom: The switch crashes when the <code>show crypto client-public-key</code> command is issued.</p> <p>Scenario: This issue was observed when the <code>show crypto client-public-key</code> was issued when the <code>\t</code>: symbol was present in the client pub key file.</p> <p>Workaround: Remove <code>\t</code>: symbol from the client public key file content.</p>	Crypto
16.10.0012	254380	WC	<p>Symptom: The switch crashes with the following message: <code>Health Monitor: Read Error</code> <code>Restr Mem Access Task='mdevMntr'.</code></p> <p>Scenario: This issue occurred when device-fingerprinting (DFP) was configured and DFP clients moved between ports.</p>	Device Finger Printing
16.10.0012	254760	WC	<p>Symptom: Removal of OSPF routes from the link-state database is delayed.</p> <p>Scenario: This issue occurred when the switch received a Link-State Advertisement (LSA) that advertised routes with max age configured to remove the routes from the database.</p>	OSPFv2

Version	Bug ID	Software	Description	Category
16.10.0012	254395	WC	<p>Symptom: The switch does not send the configured NAS-ID while sending a request to the RADIUS server.</p> <p>Scenario: This issue occurred for both login and enable when the switch was configured with a non-default <code>server-group nas-id</code> and <code>ssh</code> was configured with <code>peap-mschapv2</code>.</p>	Radius
16.10.0012	254403	WC	<p>Symptom: The HTTP GET for <code>/system/status/power/supply</code> returns an internal server error.</p> <p>Scenario: This issue occurred when GET of <code>/system/status/power/supply</code> was executed when a stack member was down.</p>	REST
16.10.0012	254665	WC	<p>Symptom: REST connection fails when a Windows client makes an HTTP request.</p> <p>Scenario: This issue occurred when a Windows client sent a REST HTTP request using PowerShell.</p>	REST
16.10.0012	254553	WC	<p>Symptom: The switch crashes with the following message: <code>Health Monitor: Read Error Restr Mem Access ... Task='eNtpTask'</code>.</p> <p>Scenario: This issue occurred when NTP was configured including the <code>ntp unicast</code> command and once NTP was functioning, the <code>no ntp</code> command was executed.</p>	NTP
16.10.0012	254525	WC	<p>Symptom: The smartlink port stops forwarding VLAN traffic.</p> <p>Scenario: This issue occurred when the:</p> <ul style="list-style-type: none"> ■ The VLAN membership of a port was changed by removing it or adding it to any of the protected VLANs of the smartlink group. ■ STP was enabled and a non-default MSTP instance was created. <p>Workaround: Disable/enable the port.</p>	Smartlinks
16.10.0012	253623	WC	<p>Symptom/Scenario: When there is a change in backplane stacking, VSF topology, or removal of a power supply, no SNMP trap is sent.</p>	SNMP
16.10.0012	254722	WC	<p>Symptom/Scenario: When a user fails to login to the switch using SSH, no SNMP trap is sent.</p>	SNMPv2
16.10.0012	254580	WC	<p>Symptom/Scenario: A switch no longer accepts SSH connections.</p> <p>Workaround: Reboot the switch.</p>	SSH
16.10.0012	254393	WC	<p>Symptom: Event messages are not printed on the Syslog server.</p>	Syslog

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when a syslog server was configured with the TCP option, logging <code><IP-ADDR> tcp</code> and <code>ip source-interface syslog</code> was configured.</p> <p>Workaround: Remove <code>ip source-interface syslog . . .</code> from the config or reboot the switch after configuring syslog over TCP.</p>	
16.10.0012	254311	WC	<p>Symptom: Gradual memory depletion on a switch is observed.</p> <p>Scenario: This issue occurred when the telnet sessions were closed abruptly.</p> <p>Workaround: Disable the telnet server on the switch.</p>	Telnet
16.10.0011	253563	WC	<p>Symptom: The switch crashes with the following message: <code>Health Monitor: Misaligned Mem Access.</code></p> <p>Scenario: This issue occurred when any of the 802.1X clients' MAC address had a NULL value due to corruption, and the authenticator configuration on a switch port was disabled.</p>	802.1X
16.10.0011	254333, 254339	WC	<p>Symptom: Switch crashes with a message similar to the following: <code>Software exception at trlock.c -- in 'InetServer'.</code></p> <p>Scenario: This issue occurred when the <code>show tech all</code> command was executed from Aruba Central.</p> <p>Workaround: Execute the <code>show tech all</code> command through the switch CLI.</p>	Central
16.10.0011	254255	WC	<p>Symptom: Switch crashes with a message similar to the following: <code>Software exception at multMgmtUtil.c -- in 'mOobmCtrl'.</code></p> <p>Scenario: This issue occurred when continuous or frequent <code>cfg-restore</code> operations (with password or aaa authentication related configurations) were executed, and in parallel, the switch was accessed through local-authentication.</p> <p>Workaround: Do not access the switch using local-authentication when <code>cfg-restore</code> operation is in progress.</p>	Chassis
16.10.0011	253472	WC	<p>Symptom/Scenario: The following event is recorded in the event log multiple times where <code>xx%</code> is an increasing value: <code>03008 system: Ports A,B packet buffer allocation has reached xx%.</code></p>	Chassis

Version	Bug ID	Software	Description	Category
			Workaround: Reboot the switch.	
16.10.0011	253803	WC	<p>Symptom: SSH connection (Remote Console) cannot be established from Aruba Central to the switch.</p> <p>Scenario: This issue occurred when <code>ip authorized-managers</code> was configured on the switch and a Remote Console connection was attempted from Aruba Central.</p> <p>Workaround: Add the following configuration to the switch:</p> <pre>ip authorized-managers 127.0.0.1 255.255.255.254 access manager</pre>	Console
16.10.0011	254196	WC	<p>Symptom: Multicast traffic stops after a redundancy switchover.</p> <p>Scenario: This issue occurred when the IGMP <code>query-max-response-time</code> was configured to be 128 seconds and a redundancy switchover was performed.</p> <p>Workaround: Remove IGMP from the VLAN and reconfigure the <code>query-max-response-time</code> to the default value of 10 seconds.</p>	IGMP
16.10.0011	253853	WC	<p>Symptom: Continuous RADIUS access request packets are sent from the switch to the RADIUS server.</p> <p>Scenario: This issue occurred when a MAC address limit was configured and a device was attempted to be authenticated beyond the configured limit.</p>	MAC Authentication
16.10.0011	253844	WC	<p>Symptom: Removal of OSPF link state prefix from the link state database is delayed.</p> <p>Scenario: This issue occurred when the switch received an OSPF Link-State Advertisement (LSA) with <code>MaxAge</code> configured to 3600 from a neighbor, and there were multiple OSPF sessions to the same router.</p>	OSPFv2
16.10.0011	254095	WC	Symptom/Scenario: Some IP phones are not powered on when connected to the switch.	Power Over Ethernet
16.10.0011	253965	WC	<p>Symptom: The switch closes the REST connection when the request is made from a Windows client.</p> <p>Scenario: This issue occurred when a REST request was sent from PowerShell on a Windows client.</p>	REST
16.10.0011	253921	WC	<p>Symptom: MAC addresses are not learned on some ports and spanning tree shows the port in a <code>BLOCKED LISTEN</code> state.</p>	Spanning Tree Protocol

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the switch was configured to use RPVST.</p> <p>Workaround: Reboot the switch.</p>	
16.10.0011	252721	WC	<p>Symptom: Attempts to SSH or telnet to the switch fail and the following message is displayed: Sorry, the maximum number of telnet sessions are active. Try again later.</p> <p>Scenario: This issue occurred when a vulnerability scan was run against the switch multiple times.</p> <p>Workaround: Disable Telnet server.</p>	Switch Access
16.10.0011	254174	WC	<p>Symptom: The CPU utilization is elevated and the switch crashes with a No msg buffer message.</p> <p>Scenario: This issue occurred when the switch was configured to use user-based tunnels (tunneled-node server).</p>	Tunneling
16.10.0011	253970	WC	<p>Symptom: Ports can be added to a trunk using the web interface even if those ports are configured with IGMP fastlearn.</p> <p>Scenario: This issue occurred when IGMP fastlearn was configured on a few ports of the switch, and the switch was accessed through the web interface to add the IGMP fastlearn enabled ports to the trunk.</p> <p>Workaround: Use the CLI to add ports to a trunk.</p>	Web Interface
16.10.0010	253775	WC	<p>Symptom/Scenario: Switch does not get provisioned to Activate.</p>	Activate
16.10.0010	253807	WC	<p>Symptom: Unsupported values are accepted as ACL numbers for both standard and extended ACLs when configuring ACLs from the REST interface (for example, Aruba Central). Once configured, these ACLs cannot be deleted using REST or the CLI.</p> <p>Scenario: This issue occurred when the REST interface was used to configure an ACL with an unsupported value.</p>	ACLs
16.10.0010	253425	WC	<p>Symptom: The username sent for a successful MAC-authenticated client is the MAC address, rather than the username.</p> <p>Scenario: This issue occurred when a client was authenticated using MAC authentication.</p>	Authentication
16.10.0010	250901	WC	<p>Symptom: Switch randomly loses connectivity to Activate and Aruba Central.</p> <p>Scenario: This issue occurred when configuring the switch to connect to Aruba Central.</p>	Central

Version	Bug ID	Software	Description	Category
16.10.0010	253422	WC	<p>Symptom: When a <code>show</code> command is executed using <code> include <anyword> <anyword></code> the following error message is displayed: <code>Invalid Input : grep usage error.</code></p> <p>Scenario: This issue occurred when a <code>show</code> command was executed using <code> include <anyword> <anyword></code>.</p> <p>Workaround: Execute the <code>show</code> command without <code> include <anyword> <anyword></code>.</p>	CLI
16.10.0010	253485	WC	<p>Symptom: When more than 3000 VLANs are configured, executing the <code>show run</code> command takes one or two minutes to begin displaying output.</p> <p>Scenario: This issue occurred when <code>show run</code> command was executed after configuring a minimum of 3000 VLANs.</p>	CLI
16.10.0010	253303	WC	<p>Symptom: Peer device does not get an IP address when the port it is connected to is configured using a device-profile.</p> <p>Scenario: This issue occurred when a port is configured using device profile and a peer device is connected to it.</p> <p>Workaround: Disable device-profile and manually configure the port.</p>	Device Profile
16.10.0010	253507	WC	<p>Symptom: Devices connected to the switch are unable to send or receive packets.</p> <p>Scenario: This issue occurred when a multicast listener query was received with an unspecified source IP address.</p> <p>Workaround: Stop sending malformed multicast listener query packets to the switch.</p>	Multicast
16.10.0010	253557	WC	<p>Symptom: Using REST to retrieve the resource identifier <code>/lldp/remote-device</code> fails to display the IPv4 address of the neighbor.</p> <p>Scenario: This issue occurred when the REST resource operation GET was used to retrieve the data associated with <code>/lldp/remote-device</code>.</p>	REST
16.10.0010	252993	WC	<p>Symptom: Some RADIUS accounting packets sent to the RADIUS server have a very large size.</p> <p>Scenario: This issue occurred when a downloadable user role was configured with a user policy, network accounting was enabled, and a client was authenticated.</p>	RADIUS
16.10.0010	253736	WC	<p>Symptom: Disconnect Change of Authorization (CoA) request is not honored.</p>	RADIUS

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the radius-server group was configured, a client was authenticated, and a disconnect CoA request with the default nas-id was sent.</p> <p>Workaround: Configure <code>aaa server-group radius <Group name> nas-id <NAS-ID></code> where the NAS-ID matches the NAS Identifier value shown in the output of the <code>show radius authentication</code> command.</p>	
16.10.0010	253789	WC	<p>Symptom: Switch serial number contains an extra space at the end when it is read using SNMP.</p> <p>Scenario: This issue occurred when the switch serial number was read using SNMP.</p> <p>Example: MIB OID: 1.3.6.1.2.1.47.1.1.1.11.1 MIB File: ENTITY-MIB</p>	SNMP
16.10.0010	253342	WC	<p>Symptom: SSH/Telnet/Console connections to the switch fail with an error message: <code>Maximum session limit is reached.</code></p> <p>Scenario: This issue occurred when multiple users logged in and out and RADIUS was configured as the primary authentication method.</p> <p>Workaround: Reboot the switch.</p>	Switch Access
16.10.0010	253407	WC	<p>Symptom: Unable to log in to the switch using TACACS credentials.</p> <p>Scenario: This issue occurred when a source interface for TACACS was configured using the <code>ip source-interface tacacs</code> command and the switch was upgraded to 16.10.0009.</p>	TACACS
16.10.0010	253001	WC	<p>Symptom: When there are continuous link flaps on the link-to-monitor ports within a fraction of a second, some link-to-disable ports may not come up once the link-to-monitor port stabilizes.</p> <p>Scenario: This issue occurred when the link-to-monitor port used a transceiver connected by fibre and flapped continuously at a high rate.</p> <p>Workaround: Use Fault-Finder to disable the link-to-monitor if it is flapping too often. The link-to-disable port can be disabled and re-enabled to bring it back up.</p>	UFD
16.10.0010	253290	WC	<p>Symptom: Switch crashes when it is accessed through the web interface.</p> <p>Scenario: This issue occurred when the switch was accessed using the web interface and RADIUS authentication was configured for web access.</p> <p>Workaround: Disable RADIUS authentication for web access.</p>	Web UI

Version	Bug ID	Software	Description	Category
16.10.0010	253877	WC	<p>Symptom: The WebUI Security > Clients page displays incorrect MAC addresses, which results in the user role, IP address, and status columns to be empty.</p> <p>Scenario: This issue occurred when a few workstations with higher value MAC addresses (for example, 9c:dc:71:fb:77:fe) are connected to the last ports of a 2930 stack or the last module of a 5400R.</p>	Web UI
16.10.0009	252885	WC	<p>Symptom: Switch appears down in Aruba Central.</p> <p>Scenario: This issue occurred because the system time was set to the year 2036, though NTP sync was successful, and the switch was connected to Aruba Central.</p> <p>Workaround: Configure an NTP server in the switch.</p>	Activate
16.10.0009	252226	WC	<p>Symptom: Switch does not respond during the ZTP process.</p> <p>Scenario: This issue occurred when connecting to the switch using SSH, while Airwave was transferring the configuration to the switch.</p>	AirWave
16.10.0009	253081	WC	<p>Symptom: Switch reports self test failure or unsupported module in the event log.</p> <p>Scenario: This issue occurred when the module is booted with a JL308A <code>xcvr</code>.</p>	Boot
16.10.0009	251418	WC	<p>Symptom: Pushing a switch configuration template from Aruba Central fails and a 500 error code is returned.</p> <p>Scenario: This issue occurred when a configuration template that had no untagged ports in VLAN 1 was pushed from Aruba Central.</p> <p>Workaround: In the configuration template, add at least one untagged port in VLAN 1.</p>	Central
16.10.0009	253174	WC	<p>Symptom/Scenario: The switch experienced an NMI crash with the following message: <code>Task='ewsCloudRcv'.</code></p>	Central
16.10.0009	250966	WC	<p>Symptom: The switch fails to display the power supply details.</p> <p>Scenario: In a stack or VSF configuration, the switch failed to display the power supply details for all stack member switches when using the <code>show system power-supply detailed</code> command.</p>	CLI
16.10.0009	253276	WC	<p>Symptom: Unable to copy crash-files, core-dump, and the <code>show tech all</code> command output from the switch.</p> <p>Scenario: This issue occurred when executing the <code>copy</code> command with an invalid IP address, file name, hostname, or when parallelly executing the <code>copy</code> command in other sessions.</p>	CLI

Version	Bug ID	Software	Description	Category
			Workaround: <ul style="list-style-type: none"> ■ Copy the core file from the web interface. ■ Copy the show tech all command output from the console interface. 	
16.10.0009	252430	WC	Symptom: Invalid MAC address entries are seen in the DHCP snooping binding table. Scenario: This issue occurred when switch received malformed DHCP or BOOTP packets. Workaround: Configure a DHCP authorized server so that requests only from authorized servers are processed.	DHCP Snooping
16.10.0009	252265	WC	Symptom: The switch does not forward DHCP packets. Scenario: This issue occurred when both DHCP snooping and IP client tracker trusted were configured, and the client was authenticated.	IP Client Tracker
16.10.0009	252701	WC	Symptom/Scenario: User tunnel is lost when a controller fail-over is performed in a two node controller cluster. Workaround: Re-establish the tunnel with a port flap and re-authentication.	Jumbo Frames
16.10.0009	252833	WC	Symptom: MSTP does not work as expected and does not block ports when it should. Scenario: This issue occurred when two ports in a loop were in a forwarding state with MSTP and port-security non-default learn mode enabled. Workaround: Disable port-security.	Spanning Tree
16.10.0009	252338	WC	Symptom: Incorrect message Rejected because maximum session limit is reached is printed when attempting to establish an SSH connection to the VSF standby OOBM IP address. Scenario: This issue occurred when establishing an SSH connection to the standby OOBM IP address.	SSH
16.10.0009	252613	WC	Symptom: Unable to connect to the switch using SSH. Scenario: This issue occurred when the switch is configured to use TACACS and a malformed TACACS packet is received by the switch. Workaround: Reboot the switch.	SSH
16.10.0009	251966	WC	Symptom: The switch sends logging events with a "Z" at the end of the timestamp when the it is not configured to use UTC. Scenario: This issue occurred when the switch sent syslog messages over TLS.	Syslog
16.10.0009	252410	WC	Symptom: The switch either reboots or fails over from the active to standby management module and records a Watchdog Reset entry in the event log.	VSF

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when IP directed-broadcast was configured in the switch and Wake On LAN traffic was sent to a directly connected subnet.</p> <p>Workaround: Disable IP directed-broadcast.</p>	
16.10.0009	252762	WC	<p>Symptom: Although the VXLAN tunnel name was configured, it was not displayed.</p> <p>Scenario: This issue occurred when the VXLAN tunnel name was configured before configuring the source and destination IP addresses for the tunnel.</p>	VXLAN
16.10.0009	252443	WC	<p>Symptom/Scenario: The Reboot button is displayed for a few seconds in the Web UI. Clicking it allowed an operator to reboot the switch.</p>	Web UI
16.10.0008	-	WC	Version 16.10.0008 was never released.	-
16.10.0007	252007	WC	<p>Symptom: The switch sends an incorrect CLASS attribute value in the RADIUS accounting packet.</p> <p>Scenario: When the CLASS attribute is updated during re-authentication of a MAC-authenticated client session, the switch fails to send the new CLASS attribute value in the RADIUS accounting packet.</p> <p>Workaround: Force a new client authentication session by disabling/enabling the port after the CLASS attribute value changes.</p>	Accounting
16.10.0007	251765	WC	<p>Symptom: The show runnig-config output does not display some access list entries (ACEs).</p> <p>Scenario: When the switch is configured with extended ACLs and connect-rate-filter, some ACEs are not displayed in the output of the show runnig-config command.</p> <p>Workaround: Use the show access-list config command to get the complete extended ACL configuration.</p>	ACLs
16.10.0007	251273	WC	<p>Symptom: The switch incorrectly places clients in the configured authorized VLAN (auth-vid).</p> <p>Scenario: When using chap-radius authorized option, if the route to the RADIUS server is not resolved during the switch boot up, clients are incorrectly placed in the configured authorized VLAN (auth-vid) rather than the guest VLAN (unauth-vid) or initial-role.</p> <p>Workaround: Reauthenticate the affected clients.</p>	Authentication
16.10.0007	251659	WC	<p>Symptom: Switch fails to move the client MAC address from one port to another.</p> <p>Scenario: When addr-move is configured to enable roaming for authenticated clients from one port to another, with Private VLAN enabled, the switch fails to move the client MAC address.</p> <p>Workaround: Disable and re-enable the switch interface where the affected client moved to.</p>	Authentication

Version	Bug ID	Software	Description	Category
16.10.0007	251927	WC	<p>Symptom: The switch fails to remove CDP configuration for a port.</p> <p>Scenario: When a port is added to a trunk interface, the switch fails to remove the previous non-default CDP configuration for that port (example: no cdp enable <PORT-NUM>).</p> <p>Workaround: Remove the non-default CDP configuration from the individual port before adding it to trunk interface.</p>	CDP
16.10.0007	252053	WC	<p>Symptom/Scenario: The switch crashes with an error message similar to: Software exception in ISR at pvDmaVlRx.c <...></p> <pre>ASSERT: No resources available!.</pre>	Central
16.10.0007	252267	WC	<p>Symptom: The switch experiences high CPU utilization.</p> <p>Scenario: In conditions of low network bandwidth or network congestion that cause frequent disconnections from the Aruba Central Portal, the switch experiences high CPU utilization while attempting to reconnect to Aruba Central and while being managed by other NMS applications such as Solarwinds at the same time.</p> <p>Workaround: Use only one NMS application to manage the switch if network bandwidth capacity or congestion cannot be improved.</p>	Central
16.10.0007	252066	WC	<p>Symptom/Scenario: The switch crashes with a message similar to: Health Monitor: Restr Mem Access ...</p> <pre>Task='mdevMntr'.</pre>	Device finger printing
16.10.0007	251876	WC	<p>Symptom: The switch may fail to apply the correct VLAN to dynamic trunks.</p> <p>Scenario: After a reboot of a switch configured for dynamic trunks with device profile enabled on ports, the switch may fail to apply the correct VLAN configured in the device-profile, after the port is joined to the dynamic trunk.</p> <p>Workaround: Disable and enable device-profile.</p>	Dynamic Trunks
16.10.0007	251972	WC	<p>Symptom: Some clients using the PEAP authentication mechanism are not successfully authenticated.</p> <p>Scenario: When concurrent authentication requests are sent to the switch using peap-mschapv2, some clients may not be successfully authenticated, even though ACCESS ACCEPT is sent from the RADIUS server.</p>	MAC Authentication
16.10.0007	252170	WC	<p>Symptom: Some multicast traffic is incorrectly flooded on all ports belonging to a VLAN.</p>	Multicast

Version	Bug ID	Software	Description	Category
			Scenario: Multicast packets received with a TTL <= 1 are indefinitely flooded to all ports of a PIM enabled VLAN.	
16.10.0007	249716	WC	Symptom: The switch fails to pass traffic through a promiscuous port. Scenario: After a reboot event, the switch fails to pass traffic through a promiscuous port in the primary VLAN. Workaround: Remove and re-add the affected promiscuous port from/to the primary VLAN.	Private VLAN
16.10.0007	251339	WC	Symptom: The switch or the switch module may crash with an error message similar to: Read Error Restr Mem Access <...> Task='mAdMUpCtrl'. Scenario: When qos trust dscp on a 40G port is enabled, the switch or switch module may crash with an error message similar to: Read Error Restr Mem Access <...> Task='mAdMUpCtrl.	QoS
16.10.0007	252090	WC	Symptom: Switch fails to flag the unreachable RADIUS servers. Scenario: When RADIUS server tracking is enabled, the switch fails to flag those RADIUS servers configured using the fully qualified domain name (FQDN) when they are unreachable with an asterisk (*) in the output of the show radius command. Workaround: Use IP address for RADIUS server configuration when RADIUS server tracking is enabled.	RADIUS
16.10.0007	252131	WC	Symptom: REST API calls may experience some slight delay in execution response. Scenario: When multiple REST API commands are executed over the same HTTPS session, they may experience a slight delay in execution response. Workaround: Use a new HTTPS session for each REST API call.	REST
16.10.0007	251899	WC	Symptom: Switch fails to return the serial number of the power supply. Scenario: When configured in a stack, the switch does not return the serial number of power supplies for the stack member switches when polling the entPhysicalSerialNum SNMP object. Workaround: The power supply serial number can be found in the show system power-supply output.	SNMP
16.10.0007	252377	WC	Symptom: The switch fails to send traffic over some switch interfaces.	Spanning Tree

Version	Bug ID	Software	Description	Category
			<p>Scenario: After a redundancy switchover to the standby VSF switch while spanning tree is enabled in PVST mode, the switch fails to forward traffic over the switch ports transitioned from Blocking to Forwarding state.</p> <p>Workaround: Disable and re-enable the affected switch ports.</p>	
16.10.0007	250797	WC	<p>Symptom: The switch sends an incorrect checksum when forwarding certain UDP frames.</p> <p>Scenario: If a received UDP frame has no checksum or the checksum value of zero (0), the switch incorrectly calculates the checksum when forwarding it.</p>	UDP
16.10.0007	252409	WC	<p>Symptom: The switch fails to override the initial-role.</p> <p>Scenario: When an existing per-port initial-role is modified, the switch fails to re-apply the new initial-role to ports with clients already authenticated in the previous initial-role.</p> <p>Workaround: Remove the existing per-port initial-role config and configure the new initial-role on the port.</p>	User Roles
16.10.0007	251475	WC	<p>Symptom: The switch experiences high CPU utilization and possible console connectivity issues.</p> <p>Scenario: When configuring or modifying aggregated interfaces (trunks) with more than 3 member ports on a switch where there is a very high number of configured VLANs, the switch experiences high CPU utilization and possible console connectivity issues while applying the configuration.</p>	VLAN
16.10.0007	251505	WC	<p>Symptom: The WebUI contains an XSS vulnerability.</p> <p>Scenario: Configure the editable parameters in the WebUI with values that can cause an XSS attack.</p>	Web UI
16.10.0007	251524	WC	<p>Symptom: The switch fails to display some ports on the Ports page of the WebUI.</p> <p>Scenario: When aSysName with trailing zeroes is received in the LLDP packet from a neighboring device, the switch fails to list some ports in the Ports page when using the WebUI.</p> <p>Workaround: To get the information for all ports use one of the following options:</p> <ul style="list-style-type: none"> ■ Disable LLDP on the port where the device with <code>invalidSysName</code> is connected. ■ Use the traditional web UI to get the information for the affected/missing ports. ■ Use switch CLI commands to get the information for the affected/missing ports. 	Web UI

Version	Bug ID	Software	Description	Category
16.10.0006	-	WC	Version 16.10.0006 was never released.	-
16.10.0005	251473	WC	Symptom: End devices periodically lose access to the network. Scenario: When ports are configured with user-based tunneling in addition to 802.1X and MAC authentication, end devices connected to those ports periodically lose access to the network.	Tunneling
16.10.0004	-	WC	Version 16.10.0004 was never released.	-
16.10.0003	251317	WC	Symptom: A Windows client that joins a domain other than the one defined in Cisco ISE fails to authenticate. The client will also wait more than 5 minutes before attempting MAC address authentication. Scenario: This issue is observed when MAC and 802.1X authentication are enabled on the port and the configured auth-order is 802.1X-MAC and an initial role.	802.1X
16.10.0003	251464	WC	Symptom: VSF stack members crash intermittently during 802.1X client reauthentication and the following message is displayed: <code>Software exception in ISR at pvDmaVlRx.c: -> ASSERT: No resources available!.</code> Scenario: This issue is observed when ports with LLDP traffic are configured with 802.1X and MAC authentication, and the RADIUS VSA <code>HP-Port-Client-Limit-MA</code> value is zero.	802.1X
16.10.0003	251498	WC	Symptom: A client is unable to pass traffic. Scenario: This issue is observed when the clear mac-address vlan 1 mac command is issued to clear the switch's base MAC address from VLAN 1.	Basic Layer 2
16.10.0003	251280	WC	Symptom: Deploying a switch template through Airwave/Aruba Central fails. Scenario: This issue is observed when the IP address from VLAN1 is removed from a new configuration template and is pushed to the switch with the "ntpserver-name <server name>". Workaround: Do not remove the IP address from VLAN 1 in the new template.	Central
16.10.0003	249172	WC	Symptom: The Event log lists fan failure events and the amber LED is displayed on the front panel of the switch. Scenario: The switch operates normally with no change in the environmental temperature.	Chassis Manager

Version	Bug ID	Software	Description	Category
16.10.0003	251393	WC	<p>Symptom: A switch crashes with the following message <code>Software exception in ISR at pvDmaVlRx.c -> ASSERT: No resources available.</code></p> <p>Scenario: This issue is observed when a switch is configured with an initial role with a captive-portal-profile and a client is placed in this initial role because the RADIUS server is unreachable.</p>	Classifier
16.10.0003	250816	WC	<p>Symptom: Authenticated users are disconnected from the switch.</p> <p>Scenario: This issue is observed when users disable and enable the interface which connects to the dhcp-relay switch, after configuring the DHCP server, DHCP relay, and DHCP snooping with ip-source lockdown.</p> <p>Workaround: Disable ip-source lockdown.</p>	DIPLD
16.10.0003	251662	WC	<p>Symptom: Unable to configure a /31 subnet address as source/destination address for tunnel interfaces.</p> <p>Scenario: This issue is observed when users attempt to configure a /31 subnet address as source/ destination address for a tunnel interface.</p> <p>Workaround: Configure a /30 subnet address.</p>	L3 Addressing
16.10.0003	249465	WC	<p>Symptom: A switch crashes and displays the following message: <code>Software exception at ospf2.c -- in 'eRouteCtrl' -> Routing Stack: Assert Failed.</code></p> <p>Scenario: This issue is observed when a switch is configured with OSPF and one of the OSPF neighbors is disconnected.</p>	OSPF
16.10.0003	251615	WC	<p>Symptom: An attacker is able to obtain sensitive data without providing valid login credentials after a successful REST query.</p> <p>Scenario: This issue is observed when web management is enabled on the switch.</p>	REST
16.10.0003	251340	WC	<p>Symptom: Tunneled clients lose network connectivity.</p> <p>Scenario: This issue is observed when user tunnels are configured in addition to ip client-tracker trusted and ip client-tracker probe-delay.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Remove ip client-tracker probe-delay from the configuration. 2. Disable the port. 3. Clear ARP. 4. Re-enable the port. 	Tunneled Node

Version	Bug ID	Software	Description	Category
16.10.0003	251893	WC	<p>Symptom: A switch port is in the Disabled state.</p> <p>Scenario: This issue is observed when spanning tree is enabled and Per-Port Tunneled Node (PPTN) is configured on two ports that are connected.</p> <p>Workaround: Do not connect two PPTN ports.</p>	Tunneled Node
16.10.0003	251325	WC	<p>Symptom: Users are unable to modify the vlan-id-tagged list of a user role.</p> <p>Scenario: This issue is observed when the user applies a template that adds VLANs to the vlan-id-tagged list of a user role.</p> <p>Workaround: Use a template that does not extend the list of VLANs in vlan-id-tagged.</p>	User Roles
16.10.0003	251030	WC	<p>Symptom: The output of the show interface command differs for a VSF and a non-VSF interface.</p> <p>Scenario: This issue is observed when a switch is configured for VSF.</p> <p>Workaround: Execute the clear statistics global command and output of show interface command will be the same for both VSF and non-VSF interfaces.</p>	VSF
16.10.0003	251506	WC	<p>Symptom: The switch manager password is altered to an attack-controlled value.</p> <p>Scenario: This issue is observed when the user clicks a malicious hyperlink.</p>	Web UI
16.10.0003	251314	WC	<p>Symptom: Switches appear offline in Aruba Central.</p> <p>Scenario: This issue is observed after the switch software is upgraded from 16.04 to 16.08.</p> <p>Workaround: Reboot the switch.</p>	ZTP
16.10.0002	CR_251119	WC	<p>Symptom: Switch is unable to connect to a remote server.</p> <p>Scenario: Switch attempts to connect to a remote server such as Activate when attempting Zero Touch Provisioning (ZTP).</p> <p>Workaround: Ensure that an MSS Option value is returned in the TCP SYN-ACK from the server.</p>	Activate
16.10.0002	250681	WC	<p>Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.</p>	AirWave
16.10.0002	250934	WC	<p>Symptom: The switch does not respond to commands from a console or SSH session.</p> <p>Scenario: After updating the switch configuration using Aruba Central while clients are authenticated, the switch may not respond to commands from a console or SSH session.</p> <p>Workaround:</p>	Central

Version	Bug ID	Software	Description	Category
			<ol style="list-style-type: none"> 1. Apply a template disabling MAC authentication on all ports. 2. Apply a template with AAA config changes. 3. Apply a template enabling MAC authentication on all ports. 	
16.10.0002	251313	WC	<p>Symptom: The switch experiences a high CPU utilization and loses connection with Central.</p> <p>Scenario: when the switch is upgraded to 16.08.0001 and a template with tls and cwmp commands is pushed from Central, the switch experiences high CPE utilization and loses the connection to Aruba Central.</p> <p>Workaround: Remove tls application cloud lowest-version tls1.2 and cwmp from the switch template.</p>	Central
16.10.0002	250251	WC	<p>Symptom/Scenario: The switch crashes with a message similar to: <code>Software exception in ISR at interrupts_om.c-> Excessive OM FP interrupts.</code></p>	Chassis
16.10.0002	250542	WC	<p>Symptom: The switch is unable to classify Aruba APs.</p> <p>Scenario: After configuring device fingerprinting, the switch is unable to classify Aruba APs.</p>	Device finger printing
16.10.0002	250600	WC	<p>Symptom/Scenario: The help text for the device-identity lldp oui command indicates that the required input is a MAC-OUI.</p>	Device finger printing
16.10.0002	250957	WC	<p>Symptom: Host packets are denied with a message similar to <code>dlpld: AML: Access denied.</code></p> <p>Scenario: When the switch has been configured using the <code>aaa port-access</code> and <code>ip source-lockdown</code> commands and clients authenticate to the switch, if more than one client is placed in a VLAN provided by the RADIUS server, host packets are denied.</p> <p>Workaround: Disable Dynamic IP Lockdown on the switch using the <code>no ip source-lockdown</code> command.</p>	DIPLD
16.10.0002	250550	WC	<p>Symptom: Primary and secondary VLANs do not have MAC address entries.</p> <p>Scenario: When a port has been configured with PVLAN and port security and the port is subsequently disabled and re-enabled, MAC address entries are not present in the primary and secondary VLANs.</p> <p>Workaround: Reconfigure the port security configuration of the port.</p>	MAC address

Version	Bug ID	Software	Description	Category
16.10.0002	250392	WC	<p>Symptom: The switch crashes with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access</code>.</p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access</code>.</p> <p>Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.</p>	Menu
16.10.0002	245830	WC	<p>Symptom: The switch fails to list the switch ports in the Ports web management page.</p> <p>Scenario: When a peer device that advertises information in LLDP has a sysName string with special characters, the switch fails to display the port list table on the Ports web management page.</p> <p>Workaround: Remove the special characters from the peer device sysName or use CLI commands to get specific port information.</p>	Next Gen GUI
16.10.0002	250833	WC	<p>Symptom: After a switch reboot, OSPF is stuck in the INIT state.</p> <p>Scenario: When a switch that is configured with OSPF, but ip router-id has not been configured, is rebooted OSPF remains in the INIT state.</p> <p>Workaround: Configure the router ID manually.</p>	OSPF
16.10.0002	250958	WC	<p>Symptom: The hit counters in the output of the show statistics policy command shows all zeros.</p> <p>Scenario: If a QoS policy with several class entries across all ports on multiple modules has been applied, the output of the show statistics policy command shows all zeros in the hit counters.</p>	QoS
16.10.0002	250691	WC	<p>Symptom: The Aruba 1G SFP LC SX 500m MMF transceiver (J4858D) takes a long time to link up.</p> <p>Scenario: After hot swapping an Aruba 1G SFP LC SX 500m MMF transceiver (J4858D), the transceiver takes a longer time than usual to link up.</p>	Transceivers
16.10.0002	251102	WC	<p>Symptom: The switch crashes with a message similar to <code>Software exception at ppmgr_globals.c ... in 'mPpmgrCtrl' -> Port record out of bounds!!!</code>.</p> <p>Scenario: After inserting an Aruba Gigabit 1000Base-T Mini-GBIC transceiver (J8177B), the switch crashes.</p>	Transceivers

Version	Bug ID	Software	Description	Category
16.10.0002	251017	WC	<p>Symptom: The event log displays <code>IpAddrMgr: Failed to add FIB entry - neighbor matches existing route (vrf:0 A.B.C.D/32)</code>.</p> <p>Scenario: When the switch has been configured with a VRRP master and the connected routes are redistributed using routing protocols, the event log will display a <code>IpAddrMgr</code> message.</p>	VRRP
16.10.0002	251203	WC	<p>Symptom: Pings to the VRRP virtual IP address fail.</p> <p>Scenario: If a switch module is reloaded, added, or hot-swapped, if a VSF stack member joins the stack after a stack split event or after a switch reboot with expansion module present, the switch fails to respond to ping packets to the VRRP virtual IP address.</p>	VRRP
16.10.0002	250489	WC	<p>Symptom: High utilization of a VSF link is reported by the switch.</p> <p>Scenario: When VSF is configured with one link having multiple ports and then a VSF link port toggle is performed by disabling then re-enabling the VSF interface, the switch reports a high link utilization.</p>	VSF
16.10.0002	250754	WC	<p>Symptom: The switch cannot be found in Aruba Central even though the CLI reports the switch as being connected.</p> <p>Scenario: When a VSF stack is already checked into Aruba Central with the same stack ID as another VSF stack, switches in the stack cannot be found in Aruba Central.</p> <p>Workaround: Ensure all switches are running 16.06 or later and then form the VSF stack.</p>	VSF
16.10.0002	250896	WC	<p>Symptom: Switch ports are not listed in the web interface.</p> <p>Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.</p>	Web UI
16.10.0001	250366	WC	<p>Symptom: An Apple MacOS device (desktop or laptop) is unable to maintain authentication with APs.</p> <p>Scenario: When an AP is connected to a switch port that has been configured with device-identity bypass, an Apple MacOS device (desktop or laptop) receives EAP request ID packets after 802.1X authentication and is unable to maintain authentication with the AP.</p> <p>Workaround: Configure a MAC-based ACL to block the EAP request identity to multicast MAC address.</p>	802.1X

Version	Bug ID	Software	Description	Category
16.10.0001	250681	WC	Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.	AirWave
16.10.0001	250934	WC	Symptom: The switch does not respond to commands from a console or SSH session. Scenario: After updating the switch configuration using Aruba Central while clients are authenticated, the switch may not respond to commands from a console or SSH session. Workaround: <ol style="list-style-type: none">1. Apply a template disabling MAC authentication on all ports.2. Apply a template with AAA config changes.3. Apply a template enabling MAC authentication on all ports.	Central
16.10.0001	250251	WC	Symptom/Scenario: The switch crashes with a message similar to: Software exception in ISR at interrupts_om.c-> Excessive OM FP interrupts.	Chassis
16.10.0001	250154	WC	Symptom: The global status LED on all members of a VSF stack turns amber. Scenario: When one member of a VSF stack experiences an over temperature, the global status LED on all members of the stack turns amber.	Chassis Manager
16.10.0001	250542	WC	Symptom: The switch is unable to classify Aruba APs. Scenario: After configuring device fingerprinting, the switch is unable to classify Aruba APs.	Device finger printing
16.10.0001	250600	WC	Symptom/Scenario: The help text for the device-identity lldp oui command indicates that the required input is a MAC-OUI.	Device identity
16.10.0001	250957	WC	Symptom: Host packets are denied with a message similar to dlpd: AM1: Access denied. Scenario: When the switch has been configured using the aaa port-access and ip source-lockdown commands and clients authenticate to the switch, if more than one client is placed in a VLAN provided by the RADIUS server, host packets are denied. Workaround: Disable Dynamic IP Lockdown on the switch using the no ip source-lockdown command.	DIPLD
16.10.0001	250550	WC	Symptom: Primary and secondary VLANs do not have MAC address entries.	MAC address

Version	Bug ID	Software	Description	Category
			<p>Scenario: When a port has been configured with PVLAN and port security and the port is subsequently disabled and re-enabled, MAC address entries are not present in the primary and secondary VLANs.</p> <p>Workaround: Reconfigure the port security configuration of the port.</p>	
16.10.0001	250392	WC	<p>Symptom: The switch crashes with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access.</code></p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access.</code></p> <p>Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.</p>	Menu
16.10.0001	250833	WC	<p>Symptom: After a switch reboot, OSPF is stuck in the INIT state.</p> <p>Scenario: When a switch that is configured with OSPF, but ip router-id has not been configured, is rebooted OSPF remains in the INIT state.</p> <p>Workaround: Configure the router ID manually.</p>	OSPF
16.10.0001	251092	WC	<p>Symptom: PoE power is not provided to certain Cisco IP phones.</p> <p>Scenario: When certain Cisco IP phones are connected to an Aruba 2930M (R0M67A) switch using a Y-cable or DAC, the phone does not receive PoE power from the switch.</p>	PoE
16.10.0001	250958	WC	<p>Symptom: The hit counters in the output of the show statistics policy command shows all zeros.</p> <p>Scenario: If a QoS policy with several class entries across all ports on multiple modules has been applied, the output of the show statistics policy command shows all zeros in the hit counters.</p>	QoS
16.10.0002	250691	WC	<p>Symptom: The Aruba 1G SFP LC SX 500m MMF transceiver (J4858D) takes a long time to link up.</p> <p>Scenario: After hot swapping an Aruba 1G SFP LC SX 500m MMF transceiver (J4858D), the transceiver takes a longer time than usual to link up.</p>	Transceivers
16.10.0002	251102	WC	<p>Symptom: The switch crashes with a message similar to <code>Software exception at ppmgr_globals.c ... in 'mPpmgrCtrl' -> Port record out of bounds!!!.</code></p>	Transceivers

Version	Bug ID	Software	Description	Category
			Scenario: After inserting an Aruba Gigabit 1000Base-T Mini-GBIC transceiver (J8177B), the switch crashes.	
16.10.0001	251017	WC	Symptom: The event log displays <code>lpAddrMgr: Failed to add FIB entry - neighbor matches existing route (vrf:0 A.B.C.D/32)</code> . Scenario: When the switch has been configured with a VRRP master and the connected routes are redistributed using routing protocols, the event log will display a <code>lpAddrMgr</code> message.	VRRP
16.10.0001	251203	WC	Symptom: Pings to the VRRP virtual IP address fail. Scenario: If a switch module is reloaded, added, or hot-swapped, if a VSF stack member joins the stack after a stack split event or after a switch reboot with expansion module present, the switch fails to respond to ping packets to the VRRP virtual IP address.	VRRP
16.10.0001	250489	WC	Symptom: High utilization of a VSF link is reported by the switch. Scenario: When VSF is configured with one link having multiple ports and then a VSF link port toggle is performed by disabling then re-enabling the VSF interface, the switch reports a high link utilization.	VSF
16.10.0001	250754	WC	Symptom: The switch cannot be found in Aruba Central even though the CLI reports the switch as being connected. Scenario: When a VSF stack is already checked into Aruba Central with the same stack ID as another VSF stack, switches in the stack cannot be found in Aruba Central. Workaround: Ensure all switches are running 16.06 or later and then form the VSF stack.	VSF
16.10.0001	245830	WC	Symptom: The switch fails to list the switch ports in the Ports web management page. Scenario: When a peer device that advertises information in LLDP has a <code>sysName</code> string with special characters, the switch fails to display the port list table on the Ports web management page. Workaround: Remove the special characters from the peer device <code>sysName</code> or use CLI commands to get specific port information.	Web UI
16.10.0001	250896	WC	Symptom: Switch ports are not listed in the web interface. Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.	Web UI

Issues and Workarounds

The following are known open issues with this branch of the software.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue.

Table 11: *Known Issues*

Version	Bug ID	Software	Description	Category
16.10.0016	255646	WC	<p>Symptom: The <code>show statistics aclv4 <ACL-NAME-STR> vlan <VLAN-ID> out</code> command displays lesser <code>HitCounts</code> for ACL for deny rule.</p> <p>Scenario: The routed traffic is denied even before the egress Access control list (ACL) when the ACL contains a deny rule, and it is applied in the VLAN egress direction.</p>	ACL
16.10.0015	255554	WC	<p>Symptom: Aruba 2930F switches fail to connect to Aruba Central during the ZTP process.</p> <p>Scenario: This issue occurs when the Simple Network Time Protocol (SNTP) or any other time protocol is not configured on the network.</p> <p>Workaround: Use one of the following workarounds to fix this issue:</p> <ul style="list-style-type: none"> ■ Manually configure the system time. <ul style="list-style-type: none"> ◦ Set the current date and time using the <code>time [HH:MM:SS] [MM/DD/YYYY]</code> command. ◦ Force connection to Aruba Central using the <code>aruba-central disable</code> and <code>aruba-central enable</code> commands. ■ Execute any reboot command that gracefully reboot the switch. The following are some of the commands that gracefully reboot the switch: <ul style="list-style-type: none"> ◦ <code>boot system flash {<primary secondary>}</code> ◦ <code>reboot</code> ◦ <code>reset saved-configuration</code> ■ Enable SNTP on the network. <ul style="list-style-type: none"> ◦ By default, SNTP updates the system time. This issue does not occur when the SNTP server is enabled on the network. 	Central
16.08.0009	247648	WC	<p>Symptom: The switch fails to bypass authentication for random devices.</p>	CDP/LLDP Bypass

Version	Bug ID	Software	Description	Category
			<p>Scenario: When the CDP/LLDP bypass is enabled on a switch configured in VSF, the switch fails to bypass authentication for random devices after a redundancy switchover event.</p> <p>Workaround: Disable and re-enable the affected port to re-enforce CDP/LLDP bypass on the port.</p>	

Upgrade Information

Upgrading Restrictions and Guidelines

WC.16.10.0009 uses BootROM WC.16.01.0006 or WC.16.01.0007 (JL692A only) when running on 2930F switches and BootROM WC.17.02.0006 when running on 2930M switches. If your switch has an older version of BootROM, the BootROM will be updated with this version of software.

IMPORTANT: During the software update, the switch will automatically boot twice. The switch will update the primary BootROM, then reboot, and then update the secondary BootROM. After the switch flash memory is updated and the final boot is initiated, no additional user intervention is needed. Do not interrupt power to the switch during this important update.

Firmware downgrade to a version earlier than 16.04 will generate new SSH keys upon switch boot-up. These keys will be different than the ones previously stored in SSH peer's known hosts file and may result in SSH connectivity issues after the OS downgrade completes. You will need to erase the pre-existing switch keys from SSH peer's known hosts file to restore SSH connectivity.

This issue will not be encountered when the option "StrictHostKeyChecking" is disabled in the SSH peer.

For more information regarding clearing SSH keys and changing strict host key checking settings, see the documentation provided with your SSH client.

For information on best practices when updating software or rolling back to previous versions of software, see the "Best practices for software updates" section of the Basic Operation Guide.

Aruba Security Policy

A Security Bulletin is the first published notification of security vulnerabilities and is the only communication vehicle for security vulnerabilities.

- Fixes for security vulnerabilities are not documented in manuals, release notes, or other forms of product documentation.
- A Security Bulletin is released when all vulnerable products still in support life have publicly available images that contain the fix for the security vulnerability.

The Aruba security policy can be found at <https://www.arubanetworks.com/en-au/support-services/ sirt/>.

Security bulletins can be found at <https://www.arubanetworks.com/en-au/support-services/ security-bulletins/>.

This release note covers software versions for the YA/YB.16.10 branch of the software. Version YA/YB.16.10.0001 is the initial build of Major version YA/YB.16.10 software. YA/YB.16.10.0020 includes all enhancements and fixes in the YA/YB.16.10.0019 software, plus the additional enhancements and fixes in the YA/YB.16.10.0020 enhancements and fixes sections of this release note.

This release applies to the following Aruba 2530 Switch Series:

Table 12: Products Supported

Product number	Description
J9783A	Aruba 2530 8 Switch
J9782A	Aruba 2530 24 Switch
J9781A	Aruba 2530 48 Switch
J9777A	Aruba 2530 8G Switch
J9776A	Aruba 2530 24G Switch
J9775A	Aruba 2530 48G Switch
J9780A	Aruba 2530 8 PoE+ Switch
J9779A	Aruba 2530 24 PoE+ Switch
J9778A	Aruba 2530 48 PoE+ Switch
J9774A	Aruba 2530 8G PoE+ Switch
J9773A	Aruba 2530 24G PoE+ Switch
J9772A	Aruba 2530 48G PoE+ Switch
JL070A	Aruba 2530 8 PoE+ Internal Power Supply Switch
J9856A	Aruba 2530 24G 2SFP+ Switch
J9855A	2530 48G 2SFP+ Switch
J9854A	2530 24G PoE+ 2SFP+ Switch
J9853A	2530 48G PoE+ 2SFP+ Switch

Minimum Supported Software Versions



If your switch or module is not listed in the below table, it runs on all versions of the software.

Table 13: Minimum Supported Software Versions

Product number	Product name	Minimum software version
J9856A	Aruba 2530 24G 2SFP+ Switch	YA.15.15.0006
J9855A	Aruba 2530 48G 2SFP+ Switch	YA.15.15.0006
J9854A	Aruba 2530 24G PoE+ 2SFP+ Switch	YA.15.15.0006
J9853A	Aruba 2530 48G PoE+ 2SFP+ Switch	YA.15.15.0006
J9783A	Aruba 2530 8 Switch	YB.15.12.0006
J9782A	Aruba 2530 24 Switch	YB.15.12.0006
J9780A	Aruba 2530 8 PoE+ Switch	YB.15.12.0006
J9779A	Aruba 2530 24 PoE+ Switch	YB.15.12.0006
J9781A	Aruba 2530 48 Switch	YA.15.12.0006
J9778A	Aruba 2530 48 PoE+ Switch	YA.15.12.0006
J9777A	Aruba 2530 8G Switch	YA.15.12.0006
J9774A	Aruba 2530 8G PoE+ Switch	YA.15.12.0006
J9776A	Aruba 2530 24G Switch	YA.15.10.0003
J9775A	Aruba 2530 48G Switch	YA.15.10.0003
J9773A	Aruba 2530 24G PoE+ Switch	YA.15.10.0003
J9772A	Aruba 2530 48G PoE+ Switch	YA.15.10.0003



For information on networking application compatibility, see the Software Feature Support Matrix.

Enhancements

This section lists enhancements added to this branch of the software.

Software enhancements are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all enhancements added in earlier versions.

Table 14: Enhancements

Version	Software	Description	Category
16.10.0020	YA/YB	No enhancements were included in version 16.10.0020.	NA
16.10.0019	YA/YB	No enhancements were included in version 16.10.0019.	NA

Version	Software	Description	Category
16.10.0018	YA/YB	No enhancements were included in version 16.10.0018.	NA
16.10.0017	YA/YB	<p>TCP timestamps are an extension to the original TCP stack, that was introduced to identify and reject old duplicate packets (PAWS) and to improve round-trip-time measurement. Using a scanner or other tool, an attacker can observe the TCP timestamp and determine the system uptime to gain information about the operational state of the system.</p> <p>To avoid such risks, a new command <code>ip tcp randomize-timestamp</code> has been introduced to randomize the TCP timestamp offsets per connection. Once the command is issued, all the newly established TCP sessions will use a random offset along with the timestamp.</p> <p>A MIB has also been added to enable or disable the randomization of TCP timestamp offsets.</p> <p>Refer to the <i>Aruba 2530 Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	Security
16.10.0016	YA/YB	<p>Added support for the new SSH data integrity algorithm <code>hmac-sha2-256</code>, which is defined in RFC 6668.</p> <p>Refer to the <i>Aruba 2530 Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba 2530 IPv6 Configuration Guide for AOS-S Switch 16.10</i> for more information.</p>	SSH
16.10.0016	YA/YB	<p>Added support to configure the size of the EAP-TLS fragments sent from the switch to the RADIUS server. Configuring EAP-TLS fragment size based on the MTU of the network avoids IP fragmentation in the network, and thus, the fragmented packets will not be dropped by the firewall or gateways.</p> <p>Added a MIB to indicate the maximum size of the EAP-TLS fragment sent to the RADIUS server.</p> <p>Refer to the <i>Aruba 2530 Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.</p>	EAP-TLS Fragmentation
16.10.0015	YA/YB	<p>This release brings the ability for REST clients to use RADIUS/TACACS+ for authorization instead of using per-switch passwords. This ability for REST clients has the following limitation:</p> <p>When RADIUS is used for the REST authorization, the VSAs <code>HP-URI-String</code>, <code>HP-URI-Access</code>, <code>HP-URI-Exception</code>, and <code>HP-URI-Json-String</code> should be configured in the correct order, for each URIs to be authorized. Also the RADIUS server should send the VSA in RADIUS ACCESS ACCEPT in the same order as it is configured. If the order of VSAs are not maintained by RADIUS server while sending out RADIUS ACCESS ACCEPT, the switch can not use the authorization data. As a result, the authentication/authorization of REST user fails.</p> <p>Refer to the <i>Aruba REST API for AOS-S Switch 16.10</i> for more information.</p>	AAA for REST Interface
16.10.0014	YA/YB	No enhancements were included in version 16.10.0014.	NA
16.10.0013	YA/YB	No enhancements were included in version 16.10.0013.	NA

Version	Software	Description	Category
16.10.0012	YA/YB	Added <code>concise</code> parameter to display port-access and spanning-tree attributes in a consolidated format, when executing <code>show config</code> and <code>show running-config</code> commands.	Enhancement for <code>show config</code> and <code>show running-config</code> commands
16.10.0012	YA/YB	Added support to enable SNMP traps for a specified event. This helps to filter out particular traps from all SNMP trap messages. Syntax: <code>snmp-server enable traps event-list <EVENT-LIST-STR></code>	Customization for SNMP Traps
16.10.0012	YA/YB	Added <code>recv-disable</code> parameter to configure loop-protect from blocking the receiving port when a loop is detected. Syntax: <code>no loop-protect <PORT-LIST> receiver-action [recv-disable]</code>	Configuration for loop-protect receiver-action
16.10.0011	YA/YB	Added support to format MAC address in upper case for the Called and Calling Station IDs. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	YA/YB	Added support to include the Port VLAN information in RADIUS access request for all authentication types. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	YA/YB	Added support to enable AES 256-bit encryption for SNMP. Refer to the <i>Management and Configuration Guide</i> for more information.	AES 256-bit encryption for SNMP
16.10.0011	YA/YB	Added support to configure a prefix string along with the switch IP address or hostname in the logs sent to the Syslog servers. This helps to classify and group log entries based on the string value. Syntax: <code>logging prefix <ASCII-STR></code> Refer to the <i>Management and Configuration Guide</i> for more information.	Syslog Enhancement
16.10.0010	YA/YB	Added support to provide the option to specify the source interface or VLAN for Central connectivity. The existing IP source-interface command is enhanced to override current configuration check for provisioning using Aruba Activate. Refer to the <i>Management and Configuration Guide</i> for more information.	Source interface option for Central connectivity
16.10.0010	YA/YB	Added support to allow more PoE devices to be connected to the switch by using <code>poe-alloc-by-usage</code> when using Device Profiles. This can be based on either Usage or Class . Default allocation will be based on Class . Refer to the <i>Management and Configuration Guide</i> for more information.	Device Profile Enhancement

Version	Software	Description	Category
16.10.0010	YA/YB	<p>Added support to work with the default setting in OpenSSH 8.2 by choosing an inherently more secure algorithm as the default on the switch for SSH communication. Refer to the <i>Access Security Guide</i> for more information.</p> <p>The list of new Host-Key algorithms are as follows:</p> <ul style="list-style-type: none"> ■ rsa-sha2-512 ■ rsa-sha2-256 <p>The list of new SSH KEX algorithms are as follows:</p> <ul style="list-style-type: none"> ■ ecdh-sha2-nistp521 ■ ecdh-sha2-nistp381 ■ ecdh-sha2-nistp256 ■ diffie-hellman-group-exchange-sha256 	Support for OpenSSH 8.2
16.10.0009	YA/YB	<p>Added support for the manager password enforcement to ensure that the switch prompts the user to configure the manager password on the switch before configuring any other features. If the manager password is not configured, then the user will have read-only access to the switch. This is applicable only to switches with factory default configuration. Refer to the <i>Access Security Guide</i> for more information.</p>	Manager Password Enforcement
16.10.0009	YA/YB	<p>Added support to enhance the payload size for the REST API interfaces. The increased payload size for 2530 YA/YB platforms is 64K. Refer to the <i>REST API Guide</i> for more information.</p>	REST API Payload Enhancement
16.10.0009	YA/YB	<p>Added support for Server Name Indication (SNI), which is a TLS extension defined in RFC 6066. This feature is enabled by default to include the SNI extension in the Client Hello sent from the switch to all the TLS client applications. Refer to the <i>Access Security Guide</i> for more information.</p>	Server Name Indication for TLS
16.10.0008	YA/YB	Version 16.10.0008 was never released.	NA
16.10.0007	YA/YB	<ul style="list-style-type: none"> ■ Added additional support for pipe " " option to grep for pattern match the output of CLI commands, such as: <ul style="list-style-type: none"> ○ Case-insensitive option to allow a case insensitive pattern match ○ Up to four consecutive pattern matches in one CLI command ■ Added support for a per-session based command to wrap column display in the CLI output using session wrap-text option when its length is exceeding the column width. <p>Refer to the <i>Management and Configuration Guide</i> for more information.</p>	CLI
16.10.0007	YA/YB	<p>Added support for monitoring authenticated devices with static IP address using the following CLI command:</p> <pre>ip client-tracker <trusted></pre> <p>Refer to the <i>Access Security Guide</i> for more information.</p>	Client Visibility

Version	Software	Description	Category
16.10.007	YA/YB	<p>Added the following REST enhancements:</p> <ul style="list-style-type: none"> ■ Support for ARP table data. ■ Support for primary VLAN. ■ Support for reserved-vlan and clearpass options to configure dynamic segmentation. ■ REST API schema moved under <code>device-rest-api/services/server.html</code>. <p>Refer to the <i>REST API Guide</i> for more information.</p>	REST
16.10.007	YA/YB	<p>Added support for the new activate endpoint <code>devices-v2.arubanetworks.com</code> which has the following two major differences compared to the old endpoint <code>device.arubanetworks.com</code>:</p> <ul style="list-style-type: none"> ■ It works on the standard TLS handshake mechanism and uses mutual authentication. ■ It uses certificates issued by HP CA for establishing TLS connections. <p>Zero Touch Provisioning (ZTP) improvements were made to deal with situations such as unresponsive DNS servers. Refer to the <i>Management and Configuration Guide</i> for more information.</p>	Zero Touch Provisioning
16.10.006	YA/YB	Version 16.10.0006 was never released.	NA
16.10.005	YA/YB	Version 16.10.0005 was never released.	NA
16.10.004	YA/YB	Version 16.10.0004 was never released.	NA
16.10.003	YA/YB	<p>New command <code>aaa accounting session-id include-switch-identity</code> was added. When this command is invoked, an accounting session ID is generated with Switch Base MAC, Client MAC, and Timestamp for network accounting type. The other accounting types (<code>exec</code>, <code>system</code>, <code>commands</code>) do not include Client MAC and hence the session ID is generated with Switch Base MAC, Track ID, and Timestamp.</p> <p>If the same client is accessing the network from multiple switches, then the accounting session ID can be duplicated. This caused issues in ClearPass Policy Manager where client insertion in the database failed with an error similar to Integrity Error: <code>acct_id, calling_station_id</code> violates check constraint. This new command alleviates that problem.</p>	AAA
16.10.003	YA/YB	<p>This enhancement will only be in effect if the CoA/Disconnect request has a message authenticator attribute in request packet. The message authenticator attribute is used to verify the integrity (HMAC-MD5) of the RADIUS packet. This is an optional attribute in the Access/CoA/Disconnect packet. If the received packet has this attribute in the RADIUS packet, the receiver will validate the integrity value and discard it if the value is incorrect.</p>	RADIUS

Version	Software	Description	Category
16.10.0002	YA/YB	No enhancements were included in version 16.10.0002.	NA
16.10.0001	YA/YB	No enhancements were included in version 16.10.0001.	NA

Fixes

This section lists released builds that include fixes found in this branch of the software. Software fixes are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all fixes added in earlier versions.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue for customers who decide not to update to this version of software.

The number that precedes the fix description is used for tracking purposes.

Table 15: *Fixed Issues*

Version	Bug ID	Software	Description	Category
16.10.0020	256257	YA/YB	Symptom/Scenario: Certain transceivers had link issues in unsupported transceiver mode.	Transceivers
16.10.0020	256234	YA/YB	Symptom: The <code>show rmon statistics <port no></code> command returns the wrong counter values. Scenario: This issue occurred when the <code>clear statistics global</code> or <code>clear statistics <port no></code> was executed first and then <code>show rmon statistics <port no></code> .	CLI
16.10.0020	256233	YA/YB	Symptom: Client ports may encounter packet drops when multicast sources stream video over 500 Mbps. Scenario: This issue can occur when multiple clients from different ports subscribed to the same group, which streams using HD channels requiring high bandwidth. TX drops can occur when several clients change channels simultaneously. Workaround: Lower the bandwidth of the video streams to below 500 Mbps in order to avoid over-subscription of ports.	IGMP-NG
16.10.0020	256310	YA/YB	Symptom: The switch fails to update the IDEVID_CERT certificate when it is about to expire. Scenario: This issue occurred when a switch with an expiring IDEVID CERT certificate that is provisioned in Aruba Central is rebooted. Workaround: Execute the command <code>activate provision force</code> to update the certificate manually.	Central Integration

Version	Bug ID	Software	Description	Category
16.10.0020	256205	YA/YB	<p>Symptom: A configuration template push from Aruba Central fails.</p> <p>Scenario: This issue occurred when the end devices are connected to ports that are configured with <code>port-security learn-mode static</code>.</p>	Central Integration
16.10.0019	256121	YA/YB	<p>Symptom: Web authentication fails when the switch is managed by Aruba Central (<code>aruba-central support-mode disable</code>).</p> <p>Scenario: This issue occurred when the switch was connected to Aruba Central and <code>aruba-central support-mode</code> was disabled.</p> <p>Workaround: Execute <code>aruba-central support-mode enable</code> command so the switch is longer managed by Aruba Central.</p>	Web Authentication
16.10.0018	255819	YA/YB	<p>Symptom: A switch crashes with a message similar to the following:</p> <pre>SubSystem 100 went down: Health Monitor: Read Error Restr Mem Access</pre> <p>Scenario: This issue occurred because of the following actions:</p> <ol style="list-style-type: none"> 1. An AP was authenticated with 802.1X <code>port mode</code>. 2. The AP was rebooted, and the 802.1X authentication configuration was removed from the port. 	802.1X
16.10.0018	255940	YA/YB	<p>Symptom: A switch crashes with a message similar to the following:</p> <pre>Software exception at svc_misc.c:1088 - in 'mDHCPClient'</pre> <p>-> Failed to malloc 9202 bytes.</p> <p>Scenario: This issue occurred when the switch attempted to reconnect to Aruba Central.</p>	Aruba Central
16.10.0018	255995	YA/YB	<p>Symptom: A switch crashes when the <code>show port-access clients</code> command is issued or when an SNMP <code>GET</code> operation is performed to get the MIB object <code>hpicfUsrAuthMacAuthSessionStatsEntry</code>.</p> <p>Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.</p>	Authentication

Version	Bug ID	Software	Description	Category
16.10.0018	255120	YA/YB	Symptom/Scenario: The Key Expansion Module of a Cisco 8851 phone does not power up. Workaround: Configure <code>poe-allocate-by</code> command with <code>class</code> parameter on the ports, and reduce the number of powered devices connected to the switch.	PoE
16.10.0018	256034	YA/YB	Symptom: SNMP MIB files are not reachable, and the MIB file returns some errors. Scenario: This issue occurred when the customer used an SNMP monitoring tool to read or parse the MIB files.	SNMP
16.10.0018	256050	YA/YB	Symptom: A switch crashes when the WebUI Security > Clientspage is accessed. Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.	Web UI
16.10.0017	255888	YA/YB	Symptom/Scenario: When a proxy server is configured on the switch, the switch does not onboard into Aruba Central or Activate.	Aruba Central
16.10.0017	255799	YA/YB	Symptom: The user is unable to copy a configuration file to the switch using Secure File Transfer Protocol (SFTP) and the following error message is displayed. <code>Invalid input: grep usage error.</code> Scenario: This issue occurred when the pipe character (<code> </code>) was used as a part of the command input for some configuration commands, such as the <code>banner motd</code> and <code>snmpv3 user</code> commands. Workaround: Do not use the pipe character (<code> </code>) in the command input for the configuration commands.	Configuration
16.10.0017	255195	YA/YB	Symptom: The switch memory utilization spikes and might reach to 100%. Scenario: This issue occurred when many ports were monitored and mirrored to one port. Workaround: Disable mirroring on the ports.	Mirroring
16.10.0017	255825	YA/YB	Symptom/Scenario: When a switch is rebooted through an SSH session, the <code>show boot-history</code> , <code>show logging</code> , and <code>boot</code> command outputs include the <code>Operator cold reboot from TELNET session</code> message instead of the <code>Operator cold reboot from SSH session</code> message.	SSH
16.10.0017	255760	YA/YB	Symptom/Scenario: A switch crashes with the following message: <code>Software exception at bsp_</code>	Tunneled Node

Version	Bug ID	Software	Description	Category
			<code>interrupts.c:90 - in 'fault_handler'.</code>	
16.10.0016	255682	YA/YB	<p>Symptom: The RADIUS accounting packets sent from the switch to the RADIUS server do not contain the correct client IP address.</p> <p>Scenario: This issue occurred when both user authentication and MAC authentication were configured.</p>	802.1X
16.10.0016	255400	YA/YB	<p>Symptom: The switch is unable to connect to Activate or Aruba Central.</p> <p>Scenario: This issue occurred when the <code>show crypto pki ta-profile</code> command displayed Pending Root Certificate In... for the GEOTRUST_CA profile, and the following event was recorded in the event log:</p> <pre>05222 activate: ST1-CMDR: Error connecting to the Activate server: Activate TLS connection error.</pre>	Activate
16.10.0016	255653	YA/YB	<p>Symptom: The switch crashes with a Non-Maskable Interrupt (NMI) event.</p> <p>Scenario: The switch crashed because of the following reasons:</p> <ol style="list-style-type: none"> 1. The switch was configured to receive a DHCP address. 2. The <code>activate provision force</code> command was configured on the switch. 3. The <code>no activate software-update check</code> command was executed. 	Activate
16.10.0016	255770	YA/YB	<p>Symptom: The switch fails to connect to Aruba Central, and the <code>show aruba-central</code> command output displays an Enrollment over Secured Transport (EST) enrollment error.</p> <p>Scenario: This issue occurred when the switch software version is upgraded to version 16.10.0015.</p> <p>Workaround: Downgrade to an older switch software version once the EST provisions IDEVID-CERT, you can upgrade the switch to the latest switch software version.</p>	Central
16.10.0016	255417	YA/YB	<p>Symptom: The switch crashes with an NMI event.</p> <p>Scenario: This issue occurred when the DHCP snooping traffic was sent continuously to the switch with DHCP option 82, and the DHCP clients rebooted frequently.</p>	DHCP Snooping
16.10.0016	255619	YA/YB	<p>Symptom: The Ports table on the Web UI does not display all the interfaces of the switch.</p>	Web UI

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the Name and Id sent through LLDP contained a trailing backslash (\), and the same was configured on the port.</p> <p>Workaround: Disable LLDP on the switch using the <code>no lldp run</code> command.</p>	
16.10.0015	255124	YA/YB	<p>Symptom: Captive portal redirection does not work.</p> <p>Scenario: This issue occurred when the <code>ip client-tracker</code> command was enabled, and the VLAN where the client onboarded had the <code>disable layer3</code> command configured.</p> <p>Workaround: Remove <code>ip client-tracker</code> or <code>disable layer3</code> configuration from the client VLAN.</p>	Captive Portal
16.10.0015	255259	YA/YB	<p>Symptom/Scenario: Executing the <code>show tech all</code> command resets the port counters in all sessions.</p>	CLI
16.10.0015	255134	YA/YB	<p>Symptom: Switch crashes regularly with the following message:</p> <pre>Active/Commander system went down: eSoftware exception at msgSys.c:641 - - in 'mNSR', -> Can't get message buffer for msgSys_recv.</pre> <p>The event log indicates continuous removal and application of the device-profile.</p> <p>Scenario: This issue occurred with a device profile for an AP enabled, with both interfaces of the AP connected to the switch through a trunk, and when the switch was rebooted.</p> <p>Workaround: Disable and enable the device profile.</p>	Device Profile
16.10.0015	255158	YA/YB	<p>Symptom: Multicast traffic with the source IP address 0.0.0.0 floods to all ports, even with IGMP snooping enabled.</p> <p>Scenario: This issue occurred when the multicast traffic was sent with a NULL IP source from a device connected to a non-querier device.</p>	IGMP
16.10.0015	255408	YA/YB	<p>Symptom: Unauthorized clients can connect and access the switch using the loopback address.</p> <p>Scenario: This issue occurred when the <code>ip authorized-managers</code> command was configured and an unauthorized client attempted to connect to the loopback address.</p>	IP Authorized Managers
16.10.0015	255342	YA/YB	<p>Symptom: When an initial role is applied, clients do not attempt to reauthenticate.</p>	RADIUS

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when the server-timeout value was less than the RADIUS request timeout.</p> <p>Workaround: Configure a greater server-timeout value than the RADIUS request timeout.</p>	
16.10.0015	255171	YA/YB	<p>Symptom: The switch CPU spikes and the ClearPass RADIUS server shuts down.</p> <p>Scenario: This issue occurred when MAC authentication used the peap-mschapv2 authentication method. As a result, Access-Request and Access-challenge messages were exchanged in a loop.</p>	RADIUS
16.10.0015	255067	YA/YB	<p>Symptom: Switch does not respond to Simple Network Management Protocol version 3 (SNMPv3) queries.</p> <p>Scenario: This issue occurred when there was a wrong value in the boot counter.</p>	SNMPv3
16.10.0014	-	YA/YB	No fixes were included in version 16.10.0014.	NA
16.10.0013	255125	YA/YB	<p>Symptom: Clients authenticated by Aruba Central are not placed in the proper VLAN.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ul style="list-style-type: none"> ■ Both MAC authentication and 802.1X are configured on the same port. ■ There are two clients on the port, which had a tagged membership for a VLAN, and the user role for a client had an untagged membership for the same VLAN. 	Central
16.10.0013	255062	YA/YB	<p>Symptom: User-based tunnel (802.1X) is not established when MAC authentication is also configured on the port with a different VLAN assignment.</p> <p>Scenario: This issue occurred when both MAC authentication and 802.1X were configured on a port, and the 802.1X authentication contained a VLAN change.</p>	MAC Authentication
16.10.0013	254976	YA/YB	<p>Symptom/Scenario: The SSH, telnet, and console connections cannot be established with the switch, and the following event is recorded in the event log:</p> <pre>maximum user session limit reached.</pre>	Switch Access
16.10.0013	254780	YA/YB	<p>Symptom: When more number of MAC authentication clients (auth method: peap-mschapv2) get authenticated or reauthenticated, the following event is recorded multiple times in the event log:</p> <pre>PEAP SSL socket connection limit reached.</pre>	MAC Authentication

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when more than 20 clients were authenticated or reauthenticated at the same time.</p> <p>Workaround: Authenticate or reauthenticate less than 20 clients at the same time.</p>	
16.10.0013	254481	YA/YB	<p>Symptom: The switch CPU utilization increases to 80% or more, and CDP packet looping is observed across VLANs.</p> <p>Scenario: This issue occurred when CDP pass-through was configured on two switches, which had more than one connection between them.</p> <p>Workaround: Use <code>no cdp run</code> command to disable CDP globally, instead of configuring CDP mode pass-through.</p>	CDP
16.10.0012	254678	YA/YB	<p>Symptom: An Aruba Central connection is not established and the Error Reason returned is <code>TLS generic error (code: -1007)</code>.</p> <p>Scenario: This issue occurred when the switch attempted to contact Aruba Central.</p> <p>Workaround: Zerorize the local certificates using <code>crypto pki zeroize</code> and activate the connection to Central again (<code>aruba-central enable</code>).</p>	Central
16.10.0012	254198	YA/YB	<p>Symptom: A switch or management module crashes with the following message:</p> <pre>Active/Commander system went down: ... Health Monitor: Invalid Instr Misaligned Mem Access.</pre> <p>Scenario: This issue occurred when the <code>copy command-output show tech all tftp <ip-address> <filename></code> command was executed.</p> <p>Workaround: Do not execute the <code>copy command-output show tech all tftp <ip-address> <filename></code> command.</p>	Chassis
16.10.0012	254096	YA/YB	<p>Symptom: The <code>Rx Drop Bytes</code> parameter in the command output for <code>show interface queues <port></code> displays very high values for the last few ports, even though these ports were down.</p> <p>Scenario: This issue occurred when the <code>show interface queues <port></code> command was issued.</p>	CLI

Version	Bug ID	Software	Description	Category
16.10.0012	254278	YA/YB	<p>Symptom: The switch crashes when the <code>show crypto client-public-key</code> command is issued.</p> <p>Scenario: This issue was observed when the <code>show crypto client-public-key</code> was issued when the <code>\t</code>: symbol was present in the client pub key file.</p> <p>Workaround: Remove <code>\t</code>: symbol from the client public key file content.</p>	Crypto
16.10.0012	254395	YA/YB	<p>Symptom: The switch does not send the configured NAS-ID while sending a request to the RADIUS server.</p> <p>Scenario: This issue occurred for both login and enable when the switch was configured with a non-default <code>server-group nas-id</code> and <code>ssh</code> was configured with <code>peap-mschapv2</code>.</p>	Radius
16.10.0012	254665	YA/YB	<p>Symptom: REST connection fails when a Windows client makes an HTTP request.</p> <p>Scenario: This issue occurred when a Windows client sent a REST HTTP request using PowerShell.</p>	REST
16.10.0012	254722	YA/YB	<p>Symptom/Scenario: When a user fails to login to the switch using SSH, no SNMP trap is sent.</p>	SNMPv2
16.10.0012	254393	YA/YB	<p>Symptom: Event messages are not printed on the Syslog server.</p> <p>Scenario: This issue occurred when a syslog server was configured with the TCP option, <code>logging <IP-ADDR> tcp</code> and <code>ip source-interface syslog</code> was configured.</p> <p>Workaround: Remove <code>ip source-interface syslog . . .</code> from the config or reboot the switch after configuring syslog over TCP.</p>	Syslog
16.10.0012	254311	YA/YB	<p>Symptom: Gradual memory depletion on a switch is observed.</p> <p>Scenario: This issue occurred when the telnet sessions were closed abruptly.</p> <p>Workaround: Disable the telnet server on the switch.</p>	Telnet
16.10.0012	254572	YA/YB	<p>Symptom: The switch crashes with the following message: <code>Health Monitor: Misaligned Mem Access.</code></p> <p>Scenario: This issue occurred when a MAC address moved between aaa authenticated ports.</p>	Telnet

Version	Bug ID	Software	Description	Category
16.10.0011	253563	YA/YB	<p>Symptom: The switch crashes with the following message: Health Monitor: Misaligned Mem Access.....Task='mWebAuth'.</p> <p>Scenario: This issue occurred when any of the 802.1X clients' MAC address had a NULL value due to corruption when authenticator configuration on a switch port was disabled.</p>	802.1X
16.10.0011	254333, 254339	YA/YB	<p>Symptom: Switch crashes with a message similar to the following: Software exception at trlock.c -- in 'InetServer'.</p> <p>Scenario: This issue occurred when the show tech all command was executed from Aruba Central.</p> <p>Workaround: Execute the show tech all command through the switch CLI.</p>	Central
16.10.0011	254255	YA/YB	<p>Symptom: Switch crashes with a message similar to the following: Software exception at multMgmtUtil.c -- in 'mOobmCtrl'.</p> <p>Scenario: This issue occurred when continuous or frequent <code>cfg-restore</code> operations (with password or aaa authentication related configurations) were executed, and in parallel, the switch was accessed through local-authentication.</p> <p>Workaround: Do not access the switch using local-authentication when <code>cfg-restore</code> operation is in progress.</p>	Chassis
16.10.0011	253803	YA/YB	<p>Symptom: SSH connection (Remote Console) cannot be established from Aruba Central to the switch.</p> <p>Scenario: This issue occurred when <code>ip authorized-managers</code> was configured on the switch and a Remote Console connection was attempted from Aruba Central.</p> <p>Workaround: Add the following configuration to the switch:</p> <pre>ip authorized-managers 127.0.0.1 255.255.255.254 access manager</pre>	Console
16.10.0011	254196	YA/YB	<p>Symptom: Multicast traffic stops after a redundancy switchover.</p> <p>Scenario: This issue occurred when the <code>IGMP query-max-response-time</code> was configured to be 128 seconds and a redundancy switchover was performed.</p>	IGMP

Version	Bug ID	Software	Description	Category
			Workaround: Remove IGMP from the VLAN and reconfigure the <code>query-max-response-time</code> to the default value of 10 seconds.	
16.10.0011	253853	YA/YB	Symptom: Continuous RADIUS access request packets are sent from the switch to the RADIUS server. Scenario: This issue occurred when a MAC address limit was configured and a device was attempted to be authenticated beyond the configured limit.	MAC Authentication
16.10.0011	253965	YA/YB	Symptom: The switch closes the REST connection when the request is made from a Windows client. Scenario: This issue occurred when a REST request was sent from PowerShell on a Windows client.	REST
16.10.0011	252721	YA/YB	Symptom: Attempts to SSH or telnet to the switch fail and the following message is displayed: <code>Sorry, the maximum number of telnet sessions are active. Try again later.</code> Scenario: This issue occurred when a vulnerability scan was run against the switch multiple times. Workaround: Disable Telnet server.	Switch Access
16.10.0011	253970	YA/YB	Symptom: Ports can be added to a trunk using the web interface even if those ports are configured with IGMP fastlearn. Scenario: This issue occurred when IGMP fastlearn was configured on a few ports of the switch, and the switch was accessed through the web interface to add the IGMP fastlearn enabled ports to the trunk. Workaround: Use the CLI to add ports to a trunk.	Web Interface
16.10.0010	253641	YA/YB	Symptom: Clients that do not match an allowed entry in an ACL are not implicitly denied and are able to access the network. Scenario: This issue occurred when a user-role was configured containing a policy that allowed network access to only select IP addresses. Workaround: Create an ACL that specifically denies access to particular IP addresses.	ACLs
16.10.0010	253807	YA/YB	Symptom: Unsupported values are accepted as ACL numbers for both standard and extended ACLs when configuring ACLs from the REST interface (for example, Aruba Central). Once configured, these ACLs cannot be deleted using REST or the CLI. Scenario: This issue occurred when the REST interface was used to configure an ACL with an unsupported value.	ACLs

Version	Bug ID	Software	Description	Category
16.10.0010	253425	YA/YB	<p>Symptom: The username sent for a successful MAC-authenticated client is the MAC address, rather than the username.</p> <p>Scenario: This issue occurred when a client was authenticated using MAC authentication.</p>	Authentication
16.10.0010	253422	YA/YB	<p>Symptom: When a <code>show</code> command is executed using <code> include <anyword> <anyword></code> the following error message is displayed: <code>Invalid Input : grep usage error.</code></p> <p>Scenario: This issue occurred when a <code>show</code> command was executed using <code> include <anyword> <anyword></code>.</p> <p>Workaround: Execute the <code>show</code> command without <code> include <anyword> <anyword></code>.</p>	CLI
16.10.0010	253303	YA/YB	<p>Symptom: Peer device does not get an IP address when the port it is connected to is configured using a device-profile.</p> <p>Scenario: This issue occurred when a port is configured using device profile and a peer device is connected to it.</p> <p>Workaround: Disable device-profile and manually configure the port.</p>	Device Profile
16.10.0010	253557	YA/YB	<p>Symptom: Using REST to retrieve the resource identifier <code>/lldp/remote-device</code> fails to display the IPv4 address of the neighbor.</p> <p>Scenario: This issue occurred when the REST resource operation GET was used to retrieve the data associated with <code>/lldp/remote-device</code>.</p>	REST
16.10.0010	252993	YA/YB	<p>Symptom: Some RADIUS accounting packets sent to the RADIUS server have a very large size.</p> <p>Scenario: This issue occurred when a downloadable user role was configured with a user policy, network accounting was enabled, and a client was authenticated.</p>	RADIUS
16.10.0010	253736	YA/YB	<p>Symptom: Disconnect Change of Authorization (CoA) request is not honored.</p> <p>Scenario: This issue occurred when the radius-server group was configured, a client was authenticated, and a disconnect CoA request with the default nas-id was sent.</p> <p>Workaround: Configure <code>aaa server-group radius <Group name> nas-id <NAS-ID></code> where the NAS-ID matches the NAS Identifier value shown in the output of the <code>show radius authentication</code> command.</p>	RADIUS

Version	Bug ID	Software	Description	Category
16.10.0010	253789	YA/YB	<p>Symptom: Switch serial number contains an extra space at the end when it is read using SNMP.</p> <p>Scenario: This issue occurred when the switch serial number was read using SNMP.</p> <p>Example: MIB OID: 1.3.6.1.2.1.47.1.1.1.1.11.1 MIB File: ENTITY-MIB</p>	SNMP
16.10.0010	253342	YA/YB	<p>Symptom: SSH/Telnet/Console connections to the switch fail with an error message: <code>Maximum session limit is reached.</code></p> <p>Scenario: This issue occurred when multiple users logged in and out and RADIUS was configured as the primary authentication method.</p> <p>Workaround: Reboot the switch.</p>	Switch Access
16.10.0010	253407	YA/YB	<p>Symptom: Unable to log in to the switch using TACACS credentials.</p> <p>Scenario: This issue occurred when a source interface for TACACS was configured using the <code>ip source-interface tacacs</code> command and the switch was upgraded to 16.10.0009.</p>	TACACS
16.10.0010	253290	YA/YB	<p>Symptom: Switch crashes when it is accessed through the web interface.</p> <p>Scenario: This issue occurred when the switch was accessed using the web interface and RADIUS authentication was configured for web access.</p> <p>Workaround: Disable RADIUS authentication for web access.</p>	Web UI
16.10.0010	253877	YA/YB	<p>Symptom: The WebUI Security > Clients page displays incorrect MAC addresses, which results in the user role, IP address, and status columns to be empty.</p> <p>Scenario: This issue occurred when a few workstations with higher value MAC addresses (for example, 9c:dc:71:fb:77:fe) are connected to the last ports of a 2930 stack or the last module of a 5400R.</p>	Web UI
16.10.0009	252885	YA/YB	<p>Symptom: Switch appears down in Aruba Central.</p> <p>Scenario: This issue occurred because the system time was set to the year 2036, though NTP sync was successful, and the switch was connected to Aruba Central.</p> <p>Workaround: Configure an NTP server in the switch.</p>	Activate
16.10.0009	252226	YA/YB	<p>Symptom: Switch does not respond during the ZTP process.</p> <p>Scenario: This issue occurred when connecting to the switch using SSH, while Airwave was transferring the configuration to the switch.</p>	AirWave

Version	Bug ID	Software	Description	Category
16.10.0009	251418	YA/YB	<p>Symptom: Pushing a switch configuration template from Aruba Central fails and a 500 error code is returned.</p> <p>Scenario: This issue occurred when a configuration template that had no untagged ports in VLAN 1 was pushed from Aruba Central.</p> <p>Workaround: In the configuration template, add at least one untagged port in VLAN 1.</p>	Central
16.10.0009	253174	YA/YB	<p>Symptom/Scenario: The switch experienced an NMI crash with the following message: Task='ewsCloudRcv'.</p>	Central
16.10.0009	253276	YA/YB	<p>Symptom: Unable to copy crash-files, core-dump, and the <code>show tech all</code> command output from the switch.</p> <p>Scenario: This issue occurred when executing the <code>copy</code> command with an invalid IP address, file name, hostname, or when parallelly executing the <code>copy</code> command in other sessions.</p> <p>Workaround:</p> <ul style="list-style-type: none"> ■ Copy the core file from the web interface. ■ Copy the <code>show tech all</code> command output from the console interface. 	CLI
16.10.0009	252833	YA/YB	<p>Symptom: MSTP does not work as expected and does not block ports when it should.</p> <p>Scenario: This issue occurred when two ports in a loop were in a forwarding state with MSTP and port-security non-default learn mode enabled.</p> <p>Workaround: Disable port-security.</p>	Spanning Tree
16.10.0009	252613	YA/YB	<p>Symptom: Unable to connect to the switch using SSH.</p> <p>Scenario: This issue occurred when the switch is configured to use TACACS and a malformed TACACS packet is received by the switch.</p> <p>Workaround: Reboot the switch.</p>	SSH
16.10.0009	251966	YA/YB	<p>Symptom: The switch sends logging events with a "Z" at the end of the timestamp when the it is not configured to use UTC.</p> <p>Scenario: This issue occurred when the switch sent syslog messages over TLS.</p>	Syslog
16.10.0009	252443	YA/YB	<p>Symptom/Scenario: The Reboot button is displayed for a few seconds in the Web UI. Clicking it allowed an operator to reboot the switch.</p>	Web UI
16.10.0008	-	YA/YB	Version 16.10.0008 was never released.	-
16.10.0007	252007	YA/YB	<p>Symptom: The switch sends an incorrect CLASS attribute value in the RADIUS accounting packet.</p>	Accounting

Version	Bug ID	Software	Description	Category
			<p>Scenario: When the CLASS attribute is updated during re-authentication of a MAC-authenticated client session, the switch fails to send the new CLASS attribute value in the RADIUS accounting packet.</p> <p>Workaround: Force a new client authentication session by disabling/enabling the port after the CLASS attribute value changes.</p>	
16.10.0007	251273	YA/YB	<p>Symptom: The switch incorrectly places clients in the configured authorized VLAN (auth-vid).</p> <p>Scenario: When using chap-radius authorized option, if the route to the RADIUS server is not resolved during the switch boot up, clients are incorrectly placed in the configured authorized VLAN (auth-vid) rather than the guest VLAN (unauth-vid) or initial-role.</p> <p>Workaround: Reauthenticate the affected clients.</p>	Authentication
16.10.0007	251927	YA/YB	<p>Symptom: The switch fails to remove CDP configuration for a port.</p> <p>Scenario: When a port is added to a trunk interface, the switch fails to remove the previous non-default CDP configuration for that port (example: no cdp enable <PORT-NUM>).</p> <p>Workaround: Remove the non-default CDP configuration from the individual port before adding it to trunk interface.</p>	CDP
16.10.0007	252053	YA/YB	<p>Symptom/Scenario: The switch crashes with an error message similar to:</p> <pre>Software exception in ISR at pvDmaVlRx.c <...> ASSERT: No resources available!.</pre>	Central
16.10.0007	252267	YA/YB	<p>Symptom: The switch experiences high CPU utilization.</p> <p>Scenario: In conditions of low network bandwidth or network congestion that cause frequent disconnections from the Aruba Central Portal, the switch experiences high CPU utilization while attempting to reconnect to Aruba Central and while being managed by other NMS applications such as Solarwinds at the same time.</p> <p>Workaround: Use only one NMS application to manage the switch if network bandwidth capacity or congestion cannot be improved.</p>	Central
16.10.0007	251876	YA/YB	<p>Symptom: The switch may fail to apply the correct VLAN to dynamic trunks.</p> <p>Scenario: After a reboot of a switch configured for dynamic trunks with device profile enabled on ports, the switch may fail to apply the correct VLAN configured in the device-profile, after the port is joined to the dynamic trunk.</p>	Dynamic Trunks

Version	Bug ID	Software	Description	Category
			Workaround: Disable and enable device-profile.	
16.10.0007	251972	YA/YB	<p>Symptom: Some clients using the PEAP authentication mechanism are not successfully authenticated.</p> <p>Scenario: When concurrent authentication requests are sent to the switch using peap-mschapv2, some clients may not be successfully authenticated, even though ACCESS ACCEPT is sent from the RADIUS server.</p>	MAC Authentication
16.10.0007	252131	YA/YB	<p>Symptom: REST API calls may experience some slight delay in execution response.</p> <p>Scenario: When multiple REST API commands are executed over the same HTTPS session, they may experience a slight delay in execution response.</p> <p>Workaround: Use a new HTTPS session for each REST API call.</p>	REST
16.10.0007	251475	YA/YB	<p>Symptom: The switch experiences high CPU utilization and possible console connectivity issues.</p> <p>Scenario: When configuring or modifying aggregated interfaces (trunks) with more than 3 member ports on a switch where there is a very high number of configured VLANs, the switch experiences high CPU utilization and possible console connectivity issues while applying the configuration.</p>	VLAN
16.10.0007	251505	YA/YB	<p>Symptom: The WebUI contains an XSS vulnerability.</p> <p>Scenario: Configure the editable parameters in the WebUI with values that can cause an XSS attack.</p>	Web UI
16.10.0007	251524	YA/YB	<p>Symptom: The switch fails to display some ports on the Ports page of the WebUI.</p> <p>Scenario: When aSysName with trailing zeroes is received in the LLDP packet from a neighboring device, the switch fails to list some ports in the Ports page when using the WebUI.</p> <p>Workaround: To get the information for all ports use one of the following options:</p> <ul style="list-style-type: none"> ■ Disable LLDP on the port where the device with <code>invalidSysName</code> is connected. ■ Use the traditional web UI to get the information for the affected/missing ports. ■ Use switch CLI commands to get the information for the affected/missing ports. 	Web UI
16.10.0006	-	YA/YB	Version 16.10.0006 was never released.	-
16.10.0005	-	YA/YB	Version 16.10.0005 was never released.	-
16.10.0004	-	YA/YB	Version 16.10.0004 was never released.	-

Version	Bug ID	Software	Description	Category
16.10.0003	251317		<p>Symptom: A Windows client that joins a domain other than the one defined in Cisco ISE fails to authenticate. The client will also wait more than 5 minutes before attempting MAC address authentication.</p> <p>Scenario: This issue is observed when MAC and 802.1X authentication are enabled on the port and the configured auth-order is 802.1X-MAC and an initial role.</p>	802.1X
16.10.0003	251280	YA/YB	<p>Symptom: Deploying a switch template through Airwave/Aruba Central fails.</p> <p>Scenario: This issue is observed when the IP address from VLAN1 is removed from a new configuration template and is pushed to the switch with the "ntpserver-name <server name>".</p> <p>Workaround: Do not remove the IP address from VLAN 1 in the new template.</p>	Central
16.10.0003	250816	YA/YB	<p>Symptom: Authenticated users are disconnected from the switch.</p> <p>Scenario: This issue is observed when users disable and enable the interface which connects to the dhcp-relay switch, after configuring the DHCP server, DHCP relay, and DHCP snooping with ip-source lockdown.</p> <p>Workaround: Disable ip-source lockdown.</p>	DIPLD
16.10.0003	251615	YA/YB	<p>Symptom: An attacker is able to obtain sensitive data without providing valid login credentials after a successful REST query.</p> <p>Scenario: This issue is observed when web management is enabled on the switch.</p>	REST
16.10.0003	251506	YA/YB	<p>Symptom: The switch manager password is altered to an attack-controlled value.</p> <p>Scenario: This issue is observed when the user clicks a malicious hyperlink.</p>	Web UI
16.10.0003	251314	YA/YB	<p>Symptom: Switches appear offline in Aruba Central.</p> <p>Scenario: This issue is observed after the switch software is upgraded from 16.04 to 16.08.</p> <p>Workaround: Reboot the switch.</p>	ZTP
16.10.0002	250681	YA/YB	<p>Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.</p>	AirWave
16.10.0002	251313	YA/YB	<p>Symptom: The switch experiences a high CPU utilization and loses connection with Central.</p> <p>Scenario: when the switch is upgraded to 16.08.0001 and a template with <code>tls</code> and <code>cwmp</code> commands is pushed from Central, the switch experiences high CPE utilization and loses the connection to Aruba Central.</p>	Central

Version	Bug ID	Software	Description	Category
			Workaround: Remove tls application cloud lowest-version tls1.2 and cwmp from the switch template.	
16.10.0002	250600	YA/YB	Symptom/Scenario: The help text for the <code>device-identity lldp oui</code> command indicates that the required input is a MAC-OUI.	Device finger printing
16.10.0002	250392	YA/YB	Symptom: The switch crashes with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access</code> . Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access</code> . Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.	Menu
16.10.0002	245830	YA/YB	Symptom: The switch fails to list the switch ports in the Ports web management page. Scenario: When a peer device that advertises information in LLDP has a <code>sysName</code> string with special characters, the switch fails to display the port list table on the Ports web management page. Workaround: Remove the special characters from the peer device <code>sysName</code> or use CLI commands to get specific port information.	Next Gen GUI
16.10.0002	250995	YA/YB	Symptom: Speed-duplex configuration on the port is lost. Scenario: After configuring an HPE X121 1G SFP LC SX Transceiver (J4858C) to 1000-full and rebooting the switch, the speed-duplex configuration on the port is lost.	Transceivers
16.10.0002	250896	YA/YB	Symptom: Switch ports are not listed in the web interface. Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.	Web UI
16.10.0001	250681	YA/YB	Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.	AirWave
16.10.0001	250600	YA/YB	Symptom/Scenario: The help text for the <code>device-identity lldp oui</code> command indicates that the required input is a MAC-OUI.	Device identity

Version	Bug ID	Software	Description	Category
16.10.0001	250392	YA/YB	<p>Symptom: The switch crashes with a message similar to Health Monitor: Invalid Instr Misaligned Mem Access.</p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to Health Monitor: Invalid Instr Misaligned Mem Access.</p> <p>Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.</p>	Menu
16.10.0002	250995	YA/YB	<p>Symptom: Speed-duplex configuration on the port is lost.</p> <p>Scenario: After configuring an HPE X121 1G SFP LC SX Transceiver (J4858C) to 1000-full and rebooting the switch, the speed-duplex configuration on the port is lost.</p>	Transceivers
16.10.0001	245830	YA/YB	<p>Symptom: The switch fails to list the switch ports in the Ports web management page.</p> <p>Scenario: When a peer device that advertises information in LLDP has a sysName string with special characters, the switch fails to display the port list table on the Ports web management page.</p> <p>Workaround: Remove the special characters from the peer device sysName or use CLI commands to get specific port information.</p>	Web UI
16.10.0001	250896	YA/YB	<p>Symptom: Switch ports are not listed in the web interface.</p> <p>Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.</p>	Web UI

Upgrade Information

Upgrading Restrictions and Guidelines

YA/YB.16.10.0009 uses BootROM YA.15.20 or YB.15.10. If your switch has an older version of BootROM, the BootROM will be updated with this version of software.

IMPORTANT: During the software update, the switch will automatically boot twice. The switch will update the primary BootROM, then reboot, and then update the secondary BootROM. After the switch flash memory is updated and the final boot is initiated, no additional user intervention is needed. Do not interrupt power to the switch during this important update.

Firmware downgrade to a version earlier than 16.04 will generate new SSH keys upon switch boot-up. These keys will be different than the ones previously stored in SSH peer's known hosts file and may result in SSH connectivity issues after the OS downgrade completes. You will need to erase the pre-existing switch keys from SSH peer's known hosts file to restore SSH connectivity.

This issue will not be encountered when the option "StrictHostKeyChecking" is disabled in the SSH peer.

For more information regarding clearing SSH keys and changing strict host key checking settings, see the documentation provided with your SSH client.

For information on best practices when updating software or rolling back to previous versions of software, see the "Best practices for software updates" section of the **Basic Operation Guide**.

Aruba Security Policy

A Security Bulletin is the first published notification of security vulnerabilities and is the only communication vehicle for security vulnerabilities.

- Fixes for security vulnerabilities are not documented in manuals, release notes, or other forms of product documentation.
- A Security Bulletin is released when all vulnerable products still in support life have publicly available images that contain the fix for the security vulnerability.

The Aruba security policy can be found at <https://www.arubanetworks.com/en-au/support-services/sirt/>.

Security bulletins can be found at <https://www.arubanetworks.com/en-au/support-services/security-bulletins/>.

This release note covers software versions for the YC.16.10 branch of the software.

Version YC.16.10.0001 is the initial build of Major version YC.16.10 software. YC.16.10.0020 includes all enhancements and fixes in the YC.16.10.0019 software, plus the additional enhancements and fixes in the YC.16.10.0020 enhancements and fixes sections of this release note.

This release applies to the following Aruba 2540 Switch Series:

Table 16: Products Supported

Product number	Description
JL354A	Aruba 2540 24G 4SFP+ Switch
JL356A	Aruba 2540 24G PoE+ 4SFP+ Switch
JL355A	Aruba 2540 48G 4SFP+ Switch
JL357A	Aruba 2540 48G PoE+ 4SFP+ Switch

Enhancements

This section lists enhancements added to this branch of the software.

Software enhancements are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all enhancements added in earlier versions.

Table 17: Enhancements

Version	Software	Description	Category
16.10.0020	YC	No enhancements were included in version 16.10.0020.	NA
16.10.0019	YC	No enhancements were included in version 16.10.0019.	NA
16.10.0018	YC	No enhancements were included in version 16.10.0018.	NA
16.10.0017	YC	TCP timestamps are an extension to the original TCP stack, that was introduced to identify and reject old duplicate packets (PAWS) and to improve round-trip-time measurement. Using a scanner or other tool, an attacker can observe the TCP timestamp and determine the system uptime to gain information about the operational state of the system. To avoid such risks, a new command <code>ip tcp randomize-timestamp</code> has been introduced to randomize the TCP timestamp offsets per connection. Once the command is issued, all the newly established TCP sessions will use a random offset along with the timestamp.	Security

Version	Software	Description	Category
		A MIB has also been added to enable or disable the randomization of TCP timestamp offsets. Refer to the <i>Aruba 2540 Management and Configuration Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.	
16.10.0016	YC	Added support for the new SSH data integrity algorithm hmac-sha2-256, which is defined in RFC 6668. Refer to the <i>Aruba 2540 Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba 2540 IPv6 Configuration Guide for AOS-S Switch 16.10</i> for more information.	SSH
16.10.0016	YC	Added support to configure the size of the EAP-TLS fragments sent from the switch to the RADIUS server. Configuring EAP-TLS fragment size based on the MTU of the network avoids IP fragmentation in the network, and thus, the fragmented packets will not be dropped by the firewall or gateways. Added a MIB to indicate the maximum size of the EAP-TLS fragment sent to the RADIUS server. Refer to the <i>Aruba 2540 Access Security Guide for AOS-S Switch 16.10</i> and <i>Aruba MIB and Trap Support Matrix for AOS-S Switch 16.10</i> for more information.	EAP-TLS Fragmentation
16.10.0015	YC	No enhancements were included in version 16.10.0015.	NA
16.10.0014	YC	No enhancements were included in version 16.10.0014.	NA
16.10.0013	YC	No enhancements were included in version 16.10.0013.	NA
16.10.0012	YC	Added <code>concise</code> parameter to display port-access and spanning-tree attributes in a consolidated format, when executing <code>show config</code> and <code>show running-config</code> commands.	Enhancement for <code>show config</code> and <code>show running-config</code> commands
16.10.0012	YC	Added support to enable SNMP traps for a specified event. This helps to filter out particular traps from all SNMP trap messages. Syntax: <code>snmp-server enable traps event-list <EVENT-LIST-STR></code>	Customization for SNMP Traps
16.10.0012	YC	Added <code>recv-disable</code> parameter to configure loop-protect from blocking the receiving port when a loop is detected. Syntax: <code>no loop-protect <PORT-LIST> receiver-action [recv-disable]</code>	Configuration for loop-protect receiver-action
16.10.0011	YC	Added support to format MAC address in upper case for the Called and Calling Station IDs. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement
16.10.0011	YC	Added support to include the Port VLAN information in RADIUS access request for all authentication types. Refer to the <i>Access Security Guide</i> for more information.	Port Access Enhancement

Version	Software	Description	Category
16.10.0011	YC	Added support to enable AES 256-bit encryption for SNMP. Refer to the <i>Management and Configuration Guide</i> for more information.	AES 256-bit encryption for SNMP
16.10.0011	YC	Added support to configure a prefix string along with the switch IP address or hostname in the logs sent to the Syslog servers. This helps to classify and group log entries based on the string value. Syntax: <code>logging prefix <ASCII-STR></code> Refer to the <i>Management and Configuration Guide</i> for more information.	Syslog Enhancement
16.10.0010	YC	Added support to provide the option to specify the source interface or VLAN for Central connectivity. The existing IP source-interface command is enhanced to override current configuration check for provisioning using Aruba Activate. Refer to the <i>Management and Configuration Guide</i> for more information.	Source interface option for Central connectivity
16.10.0010	YC	Added support to allow more PoE devices to be connected to the switch by using <code>poe-alloc-by-usage</code> when using Device Profiles. This can be based on either Usage or Class . Default allocation will be based on Class . Refer to the <i>Management and Configuration Guide</i> for more information.	Device Profile Enhancement
16.10.0010	YC	Added support to work with the default setting in OpenSSH 8.2 by choosing an inherently more secure algorithm as the default on the switch for SSH communication. Refer to the <i>Access Security Guide</i> for more information. The list of new Host-Key algorithms are as follows: <ul style="list-style-type: none"> ■ <code>rsa-sha2-512</code> ■ <code>rsa-sha2-256</code> The list of new SSH KEX algorithms are as follows: <ul style="list-style-type: none"> ■ <code>ecdh-sha2-nistp521</code> ■ <code>ecdh-sha2-nistp381</code> ■ <code>ecdh-sha2-nistp256</code> ■ <code>diffie-hellman-group-exchange-sha256</code> 	Support for OpenSSH 8.2
16.10.0009	YC	Added support for the manager password enforcement to ensure that the switch prompts the user to configure the manager password on the switch before configuring any other features. If the manager password is not configured, then the user will have read-only access to the switch. This is applicable only to switches with factory default configuration. Refer to the <i>Access Security Guide</i> for more information.	Manager Password Enforcement
16.10.0009	YC	Added support to enable MAC pinning. This feature allows administrators to let clients stay authenticated to the switch by disabling the log-off period associated with the client. Refer to the <i>Access Security Guide</i> for more information.	MAC Pinning

Version	Software	Description	Category
16.10.0009	YC	Added support to enhance the payload size for the REST API interfaces. The increased payload size for 3810M and 54xxR platforms is 1024K. Refer to the <i>REST API Guide</i> for more information.	REST API Payload Enhancement
16.10.0009	YC	Added support for Server Name Indication (SNI), which is a TLS extension defined in RFC 6066. This feature is enabled by default to include the SNI extension in the Client Hello sent from the switch to all the TLS client applications. Refer to the <i>Access Security Guide</i> for more information.	Server Name Indication for TLS
16.10.0008	YC	Version 16.10.0008 was never released.	NA
16.10.0007	YC	<ul style="list-style-type: none"> ■ Added additional support for pipe " " option to grep for pattern match the output of CLI commands, such as: <ul style="list-style-type: none"> ○ Case-insensitive option to allow a case insensitive pattern match ○ Up to four consecutive pattern matches in one CLI command ■ Added support for a per-session based command to wrap column display in the CLI output using session wrap-text option when its length is exceeding the column width. Refer to the <i>Management and Configuration Guide</i> for more information.	CLI
16.10.0007	YC	Added the following REST enhancements: <ul style="list-style-type: none"> ■ Support for ARP table data. ■ Support for primary VLAN. ■ Support for reserved-vlan and clearpass options to configure dynamic segmentation. ■ REST API schema moved under <code>device-rest-api/services/server.html</code>. Refer to the <i>REST API Guide</i> for more information.	REST
16.10.0007	YC	Added support for the new activate endpoint <code>devices-v2.arubanetworks.com</code> which has the following two major differences compared to the old end point <code>device.arubanetworks.com</code> : <ul style="list-style-type: none"> ■ It works on the standard TLS handshake mechanism and uses mutual authentication. ■ It uses certificates issued by HP CA for establishing TLS connections. Zero Touch Provisioning (ZTP) improvements were made to deal with situations such as unresponsive DNS servers. Refer to the <i>Management and Configuration Guide</i> for more information.	Zero Touch Provisioning
16.10.0006	YC	Version 16.10.0006 was never released.	NA
16.10.0005	YC	Version 16.10.0005 was never released.	NA

Version	Software	Description	Category
16.10.0004	YC	Version 16.10.0004 was never released.	NA
16.10.0003	YC	<p>New command <code>aaa accounting session-id include-switch-identity</code> was added. When this command is invoked, an accounting session ID is generated with Switch Base MAC, Client MAC, and Timestamp for network accounting type. The other accounting types (exec, system, commands) do not include Client MAC and hence the session ID is generated with Switch Base MAC, Track ID, and Timestamp.</p> <p>If the same client is accessing the network from multiple switches, then the accounting session ID can be duplicated. This caused issues in ClearPass Policy Manager where client insertion in the database failed with an error similar to Integrity Error: <code>acct_id, calling_station_id</code> violates check constraint. This new command alleviates that problem.</p>	AAA
16.10.0003	YC	This enhancement will only be in effect if the CoA/Disconnect request has a message authenticator attribute in request packet. The message authenticator attribute is used to verify the integrity (HMAC-MD5) of the RADIUS packet. This is an optional attribute in the Access/CoA/Disconnect packet. If the received packet has this attribute in the RADIUS packet, the receiver will validate the integrity value and discard it if the value is incorrect.	RADIUS
16.10.0002	YC	An event is added to the log when the switch experiences an over temperature condition.	Event Log
16.10.0001	YC	No enhancements were included in version 16.10.0001.	NA

Fixes

This section lists released builds that include fixes found in this branch of the software. Software fixes are listed in reverse-chronological order, with the newest on the top of the list. Unless otherwise noted, each software version listed includes all fixes added in earlier versions.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue for customers who decide not to update to this version of software.

The number that precedes the fix description is used for tracking purposes.

Table 18: *Fixed Issues*

Version	Bug ID	Software	Description	Category
16.10.0020	256274	YC	<p>Symptom/Scenario: VSF Stack Member crashed with a message similar to the following:</p> <pre>Software exception at lava_chassis_slot_sm.c:3626 - in 'eChassMgr', task ID = 0x37b07bc0.</pre>	VSF

Version	Bug ID	Software	Description	Category
16.10.0020	256257	YC	Symptom/Scenario: Certain transceivers had link issues in unsupported transceiver mode.	Transceivers
16.10.0020	256234	YC	Symptom: The <code>show rmon statistics <port no></code> command returns the wrong counter values. Scenario: This issue occurred when the command <code>clear statistics global</code> or <code>clear statistics <port no></code> was first executed and then <code>show rmon statistics <port no></code> .	CLI
16.10.0020	256233	YC	Symptom: Client ports may encounter packet drops when multicast sources stream video over 500 Mbps. Scenario: This issue can occur when multiple clients from different ports subscribed to the same group, which streams using HD channels requiring high bandwidth. TX drops can occur when several clients change channels simultaneously. Workaround: Lower the bandwidth of the video streams to below 500 Mbps in order to avoid over-subscription of ports.	IGMP-NG
16.10.0020	256205	YC	Symptom: A configuration template push from Aruba Central fails. Scenario: This issue occurred when the end devices are connected to ports that are configured with <code>port-security learn-mode static</code> .	Central Integration
16.10.0019	256121	YC	Symptom: Web authentication fails when the switch is managed by Aruba Central (<code>aruba-central support-mode disable</code>). Scenario: This issue occurred when the switch was connected to Aruba Central and <code>aruba-central support-mode</code> was disabled. Workaround: Execute <code>aruba-central support-mode enable</code> command so the switch is longer managed by Aruba Central.	Web Authentication
16.10.0018	256037	YC	Symptom: Clients are not authenticated on a switch port. Scenario: This issue occurred when multiple clients were connected to a single port (for example, a Personal Computer (PC) was connected to a phone), both MAC authentication and 802.1X authentication methods were attempted at the same time on the PC, and both the authentication methods used the same user role attribute. Workaround: Configure the <code>auth-order</code> parameter first with <code>authenticator</code> , and then with <code>mac-based</code> .	802.1X

Version	Bug ID	Software	Description	Category
16.10.0018	255928	YC	Symptom/Scenario: A switch is unable to connect to Aruba Central.	Aruba Central
16.10.0018	255940	YC	Symptom: A switch crashes with a message similar to the following: Software exception at svc_misc.c:1088 - in 'mDHCPClient' -> Failed to malloc 9202 bytes. Scenario: This issue occurred when the switch attempted to reconnect to Aruba Central.	Aruba Central
16.10.0018	255995	YC	Symptom: A switch crashes when the <code>show port-access clients</code> command is issued or when an SNMP GET operation is performed to get the MIB object <code>hpicfUsrAuthMacAuthSessionStatsEntry</code> . Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.	Authentication
16.10.0018	256016	YC	Symptom: When a private VLAN is configured on a switch, the traffic from the secondary VLAN does not reach the primary VLAN. Scenario: This issue occurred when the switch was rebooted, and the secondary VLAN contained a tagged trunk or Link Aggregation Control Protocol (LACP) port. Workaround: Remove and add the tagged trunk or LACP configuration to the secondary VLAN.	Private VLAN
16.10.0018	256034	YC	Symptom: SNMP MIB files are not reachable, and the MIB file returns some errors. Scenario: This issue occurred when the customer used an SNMP monitoring tool to read or parse the MIB files.	SNMP
16.10.0018	256050	YC	Symptom: A switch crashes when the WebUI Security > Clientpage is accessed. Scenario: The switch crashed when a MAC-authenticated client had a username of more than 40 characters.	Web UI
16.10.0017	255888	YC	Symptom/Scenario: When a proxy server is configured on the switch, the switch does not onboard into Aruba Central or Activate.	Aruba Central
16.10.0017	255882	YC	Symptom: When a switch fails to connect to Aruba Central, the switch configuration rolls back. Scenario: This issue occurred when the connection between the switch and Aruba Central was lost.	Aruba Central

Version	Bug ID	Software	Description	Category
16.10.0017	255799	YC	<p>Symptom: The user is unable to copy a configuration file to the switch using Secure File Transfer Protocol (SFTP) and the following error message is displayed.</p> <pre>Invalid input: grep usage error</pre> <p>Scenario: This issue occurred when the pipe character () was used as a part of the command input for some configuration commands, such as the <code>banner motd</code> and <code>snmpv3 user</code> commands.</p> <p>Workaround: Do not use the pipe character () in the command input for the configuration commands.</p>	Configuration
16.10.0017	255195	YC	<p>Symptom: The switch memory utilization spikes and might reach to 100%.</p> <p>Scenario: This issue occurred when many ports were monitored and mirrored to one port.</p> <p>Workaround: Disable mirroring on the ports.</p>	Mirroring
16.10.0017	255825	YC	<p>Symptom/Scenario: When a switch is rebooted through an SSH session, the <code>show boot-history</code>, <code>show logging</code>, and <code>boot command</code> outputs include the <code>Operator cold reboot from TELNET session</code> message instead of the <code>Operator cold reboot from SSH session</code> message.</p>	SSH
16.10.0017	255760	YC	<p>Symptom/Scenario: A switch crashes with the following message:</p> <pre>Software exception at bsp_ interrupts.c:90 - in 'fault_handler'.</pre>	Tunneled Node
16.10.0016	255682	YC	<p>Symptom: The RADIUS accounting packets sent from the switch to the RADIUS server do not contain the correct client IP address.</p> <p>Scenario: This issue occurred when both user authentication and MAC authentication were configured.</p>	802.1X
16.10.0016	255400	YC	<p>Symptom: The switch is unable to connect to Activate or Aruba Central.</p> <p>Scenario: This issue occurred when the <code>show crypto pki ta-profile</code> command displayed <code>Pending Root Certificate In...</code> for the <code>GEOTRUST_CA</code> profile, and the following event was recorded in the event log:</p> <pre>05222 activate: ST1-CMDR: Error connecting to the Activate server: Activate TLS connection error</pre>	Activate

Version	Bug ID	Software	Description	Category
16.10.0016	255653	YC	<p>Symptom: The switch crashes with a Non-Maskable Interrupt (NMI) event.</p> <p>Scenario: The switch crashed because of the following reasons:</p> <ol style="list-style-type: none"> 1. The switch was configured to receive a DHCP address. 2. The <code>activate provision force</code> command was configured on the switch. 3. The <code>no activate software-update check</code> command was executed. 	Activate
16.10.0016	255719	YC	<p>Symptom: The IP address of the next server is not present in the DHCP response packet.</p> <p>Scenario: This issue occurred when the DHCP server with option 66 and option 150 was configured in the server pool.</p>	DHCP Server
16.10.0016	255417	YC	<p>Symptom: The switch crashes with an NMI event.</p> <p>Scenario: This issue occurred when the DHCP snooping traffic was sent continuously to the switch with DHCP option 82, and the DHCP clients rebooted frequently.</p>	DHCP Snooping
16.10.0016	255586	YC	<p>Symptom: Running configuration does not display the local user roles.</p> <p>Scenario: The issue occurred when the switch was configured to use both downloadable and local user roles.</p> <p>Workaround: Reboot the switch.</p>	User Roles
16.10.0016	255619	YC	<p>Symptom: The Ports table on the Web UI does not display all the interfaces of the switch.</p> <p>Scenario: This issue occurred when the Name and Id sent through LLDP contained a trailing backslash (\), and the same was configured on the port.</p> <p>Workaround: Disable LLDP on the switch using the <code>no lldp run</code> command.</p>	Web UI
16.10.0015	255124	YC	<p>Symptom: Captive portal redirection does not work.</p> <p>Scenario: This issue occurred when the <code>ip client-tracker</code> command was enabled, and the VLAN where the client onboarded had the <code>disable layer3</code> command configured.</p> <p>Workaround: Remove <code>ip client-tracker</code> or <code>disable layer3</code> configuration from the client VLAN.</p>	Captive Portal

Version	Bug ID	Software	Description	Category
16.10.0015	255259	YC	Symptom/Scenario: Executing the <code>show tech all</code> command resets the port counters in all sessions.	CLI
16.10.0015	255134	YC	Symptom: Switch crashes regularly with the following message: Active/Commander system went down: eSoftware exception at msgSys.c:641 - - in 'mNSR', -> Can't get message buffer for msgSys_recv. The event log indicates continuous removal and application of the device-profile. Scenario: This issue occurred with a device profile for an AP enabled, with both interfaces of the AP connected to the switch through a trunk, and when the switch was rebooted. Workaround: Disable and enable the device profile.	Device Profile
16.10.0015	255158	YC	Symptom: Multicast traffic with the source IP address 0.0.0.0 floods to all ports, even with IGMP snooping enabled. Scenario: This issue occurred when the multicast traffic was sent with a NULL IP source from a device connected to a non-querier device.	IGMP
16.10.0015	255408	YC	Symptom: Unauthorized clients can connect and access the switch using the loopback address. Scenario: This issue occurred when the <code>ip authorized-managers</code> command was configured and an unauthorized client attempted to connect to the loopback address.	IP Authorized Managers
16.10.0015	255342	YC	Symptom: When an initial role is applied, clients do not attempt to reauthenticate. Scenario: This issue occurred when the server-timeout value was less than the RADIUS request timeout. Workaround: Configure a greater server-timeout value than the RADIUS request timeout.	RADIUS
16.10.0015	255171	YC	Symptom: The switch CPU spikes and the ClearPass RADIUS server shuts down. Scenario: This issue occurred when MAC authentication used the <code>peap-mschapv2</code> authentication method. As a result, Access-Request and Access-challenge messages were exchanged in a loop.	RADIUS
16.10.0015	255067	YC	Symptom: Switch does not respond to Simple Network Management Protocol version 3 (SNMPv3) queries.	SNMPv3

Version	Bug ID	Software	Description	Category
			Scenario: This issue occurred when there was a wrong value in the boot counter.	
16.10.0014	-	YC	No fixes were included in version 16.10.0014.	NA
16.10.0013	255031	YC	Symptom: Switch loses connectivity to Aruba Central after a template is pushed. Scenario: This issue occurred when a template with netdestination commands were pushed to the switch. Workaround: Add <code>aruba-central url</code> to the template that is applied.	Central
16.10.0013	255125	YC	Symptom: Clients authenticated by Aruba Central are not placed in the proper VLAN. Scenario: This issue occurred because of the following reasons: <ul style="list-style-type: none"> Both MAC authentication and 802.1X are configured on the same port. There are two clients on the port, which had a tagged membership for a VLAN, and the user role for a client had an untagged membership for the same VLAN. 	Central
16.10.0013	255123	YC	Symptom: The following event did not identify the affected module correctly: <code>00907 IpAddrMgr: ST3-CMDR: Module p BMP TCAM parity recovery.</code> Scenario: The following event was recorded in the event log when there was a hardware issue: <code>00907 IpAddrMgr: ST3-CMDR: Module p BMP TCAM parity recovery.</code>	RMON Logging
16.10.0013	255058	YC	Symptom: After a new template is applied to the switch, the switch is unable to connect to Aruba Central. Scenario: This issue occurred because the primary VLAN on the switch was changed when the new template was applied.	Central
16.10.0013	254976	YC	Symptom/Scenario: The SSH, telnet, and console connections cannot be established with the switch, and the following event is recorded in the event log: <code>maximum user session limit reached.</code>	Switch Access
16.10.0013	254966	YC	Symptom: Applying a template from Aruba Central to a switch fails with the following reasons: <ul style="list-style-type: none"> Failure Reason: Add and Remove commands have been failed Reason: Invalid netdestination 	Central

Version	Bug ID	Software	Description	Category
			<p>entry.</p> <p>Scenario: This issue occurred when the template contained changes to the host configurations of the netdestination entries, which are used in an ACL.</p>	
16.10.0013	254893	YC	<p>Symptom/Scenario: The switch crashes due to an MSTP NMI event.</p>	Spanning Tree
16.10.0013	254797	YC	<p>Symptom: The following event is recorded in the event file: Lease table is full, DHCP lease was not added.</p> <p>Scenario: This issue occurred when DHCP snooping was configured.</p>	DHCP Snooping
16.10.0013	254786	YC	<p>Symptom: SSH fails to connect to the switch.</p> <p>Scenario: This issue occurred because of the following reasons:</p> <ul style="list-style-type: none"> ■ More than one RADIUS server was configured. ■ <code>aaa authentication ssh enable</code> was configured to use the other RADIUS server, instead of using the first one in the configuration. 	AAA Authentication
16.10.0013	254780	YC	<p>Symptom: When more number of MAC authentication clients (auth method: <code>peap-mschapv2</code>) get authenticated or reauthenticated, the following event is recorded multiple times in the event log: PEAP SSL socket connection limit reached.</p> <p>Scenario: This issue occurred when more than 20 clients were authenticated or reauthenticated at the same time.</p> <p>Workaround: Authenticate or reauthenticate less than 20 clients at the same time.</p>	MAC Authentication
16.10.0013	254481	YC	<p>Symptom: The switch CPU utilization increases to 80% or more, and CDP packet looping is observed across VLANs.</p> <p>Scenario: This issue occurred when CDP pass-through was configured on two switches, which had more than one connection between them.</p> <p>Workaround: Use <code>no cdp run</code> command to disable CDP globally, instead of configuring CDP mode pass-through.</p>	CDP
16.10.0012	254360	YC	<p>Symptom: A configuration push using the <code>cfg-restore</code> command from Aruba Central fails.</p> <p>Scenario: This issue occurred when a switch configuration, containing <code>radius server host</code> commands, was pushed to Aruba Central or when the <code>cfg-restore</code> command was executed with the same <code>radius server host</code> configuration.</p>	Central

Version	Bug ID	Software	Description	Category
			Workaround: Use the <code>copy tftp config</code> command to copy a configuration to the switch from Aruba Central, instead of the <code>cfg-restore</code> command for pushing a configuration.	
16.10.0012	254096	YC	Symptom: The <code>Rx Drop Bytes</code> parameter in the command output for <code>show interface queues <port></code> displays very high values for the last few ports, even though these ports were down. Scenario: This issue occurred when the <code>show interface queues <port></code> command was issued.	CLI
16.10.0012	254278	YC	Symptom: The switch crashes when the <code>show crypto client-public-key</code> command is issued. Scenario: This issue was observed when the <code>show crypto client-public-key</code> was issued when the <code>\t</code> : symbol was present in the client pub key file. Workaround: Remove <code>\t</code> : symbol from the client public key file content.	Crypto
16.10.0012	254760	YC	Symptom: Removal of OSPF routes from the link-state database is delayed. Scenario: This issue occurred when the switch received a Link-State Advertisement (LSA) that advertised routes with max age configured to remove the routes from the database.	OSPFv2
16.10.0012	254395	YC	Symptom: The switch does not send the configured NAS-ID while sending a request to the RADIUS server. Scenario: This issue occurred for both login and enable when the switch was configured with a non-default <code>server-group nas-id</code> and <code>ssh</code> was configured with <code>peap-mschapv2</code> .	Radius
16.10.0012	254665	YC	Symptom: REST connection fails when a Windows client makes an HTTP request. Scenario: This issue occurred when a Windows client sent a REST HTTP request using PowerShell.	REST
16.10.0012	254525	YC	Symptom: The smartlink port stops forwarding VLAN traffic. Scenario: This issue occurred when the: <ul style="list-style-type: none"> ■ The VLAN membership of a port was changed by removing it or adding it to any of the protected VLANs of the smartlink group. 	Smartlinks

Version	Bug ID	Software	Description	Category
			<ul style="list-style-type: none"> STP was enabled and a non-default MSTP instance was created. Workaround: Disable/enable the port.	
16.10.0012	254722	YC	Symptom/Scenario: When a user fails to login to the switch using SSH, no SNMP trap is sent.	SNMPv2
16.10.0012	254580	YC	Symptom: A switch no longer accepts SSH connections. Scenario: A switch no longer accepts SSH connections. Workaround: Reboot the switch.	SSH
16.10.0012	254393	YC	Symptom: Event messages are not printed on the Syslog server. Scenario: This issue occurred when a syslog server was configured with the TCP option, logging <IP-ADDR> tcp and ip source-interface syslog was configured. Workaround: Remove ip source-interface syslog . . . from the config or reboot the switch after configuring syslog over TCP.	Syslog
16.10.0012	254311	YC	Symptom: Gradual memory depletion on a switch is observed. Scenario: This issue occurred when the telnet sessions were closed abruptly. Workaround: Disable the telnet server on the switch.	Telnet
16.10.0011	253563	YC	Symptom: The switch crashes with the following message: Health Monitor: Misaligned Mem Access. Scenario: This issue occurred when any of the 802.1X clients' MAC address had a NULL value due to corruption when authenticator configuration on a switch port was disabled.	802.1X
16.10.0011	254333, 254339	YC	Symptom: Switch crashes with a message similar to the following: Software exception at trlock.c -- in 'InetServer'. Scenario: This issue occurred when the show tech all command was executed from Aruba Central. Workaround: Execute the show tech all command through the switch CLI.	Central
16.10.0011	254255	YC	Symptom: Switch crashes with a message similar to the following: Software exception at multMgmtUtil.c -- in 'mOobmCtrl'.	Chassis

Version	Bug ID	Software	Description	Category
			<p>Scenario: This issue occurred when continuous or frequent <code>cfg-restore</code> operations (with password or <code>aaa</code> authentication related configurations) were executed, and in parallel, the switch was accessed through local-authentication.</p> <p>Workaround: Do not access the switch using local-authentication when <code>cfg-restore</code> operation is in progress.</p>	
16.10.0011	253472	YC	<p>Symptom/Scenario: The following event is recorded in the event log multiple times where <code>xx%</code> is an increasing value: <code>03008 system: Ports A,B packet buffer allocation has reached xx%.</code></p> <p>Workaround: Reboot the switch.</p>	Chassis
16.10.0011	253803	YC	<p>Symptom: SSH connection (Remote Console) cannot be established from Aruba Central to the switch.</p> <p>Scenario: This issue occurred when <code>ip authorized-managers</code> was configured on the switch and a Remote Console connection was attempted from Aruba Central.</p> <p>Workaround: Add the following configuration to the switch:</p> <pre>ip authorized-managers 127.0.0.1 255.255.255.254 access manager</pre>	Console
16.10.0011	254196	YC	<p>Symptom: Multicast traffic stops after a redundancy switchover.</p> <p>Scenario: This issue occurred when the <code>IGMP query-max-response-time</code> was configured to be 128 seconds and a redundancy switchover was performed.</p> <p>Workaround: Remove IGMP from the VLAN and reconfigure the <code>query-max-response-time</code> to the default value of 10 seconds.</p>	IGMP
16.10.0011	253853	YC	<p>Symptom: Continuous RADIUS access request packets are sent from the switch to the RADIUS server.</p> <p>Scenario: This issue occurred when a MAC address limit was configured and a device was attempted to be authenticated beyond the configured limit.</p>	MAC Authentication
16.10.0011	253965	YC	<p>Symptom: The switch closes the REST connection when the request is made from a Windows client.</p> <p>Scenario: This issue occurred when a REST request was sent from PowerShell on a Windows client.</p>	REST

Version	Bug ID	Software	Description	Category
16.10.0011	252721	YC	<p>Symptom: Attempts to SSH or telnet to the switch fail and the following message is displayed: Sorry, the maximum number of telnet sessions are active. Try again later.</p> <p>Scenario: This issue occurred when a vulnerability scan was run against the switch multiple times.</p> <p>Workaround: Disable Telnet server.</p>	Switch Access
16.10.0011	253970	YC	<p>Symptom: Ports can be added to a trunk using the web interface even if those ports are configured with IGMP fastlearn.</p> <p>Scenario: This issue occurred when IGMP fastlearn was configured on a few ports of the switch, and the switch was accessed through the web interface to add the IGMP fastlearn enabled ports to the trunk.</p> <p>Workaround: Use the CLI to add ports to a trunk.</p>	Web Interface
16.10.0010	253807	YC	<p>Symptom: Unsupported values are accepted as ACL numbers for both standard and extended ACLs when configuring ACLs from the REST interface (for example, Aruba Central). Once configured, these ACLs cannot be deleted using REST or the CLI.</p> <p>Scenario: This issue occurred when the REST interface was used to configure an ACL with an unsupported value.</p>	ACLs
16.10.0010	253425	YC	<p>Symptom: The username sent for a successful MAC-authenticated client is the MAC address, rather than the username.</p> <p>Scenario: This issue occurred when a client was authenticated using MAC authentication.</p>	Authentication
16.10.0010	253422	YC	<p>Symptom: When a <code>show</code> command is executed using <code> include <anyword> <anyword></code> the following error message is displayed: Invalid Input : grep usage error.</p> <p>Scenario: This issue occurred when a <code>show</code> command was executed using <code> include <anyword> <anyword></code>.</p> <p>Workaround: Execute the <code>show</code> command without <code> include <anyword> <anyword></code>.</p>	CLI
16.10.0010	253303	YC	<p>Symptom: Peer device does not get an IP address when the port it is connected to is configured using a device-profile.</p> <p>Scenario: This issue occurred when a port is configured using device profile and a peer device is connected to it.</p> <p>Workaround: Disable device-profile and manually configure the port.</p>	Device Profile

Version	Bug ID	Software	Description	Category
16.10.0010	253507	YC	<p>Symptom: Devices connected to the switch are unable to send or receive packets.</p> <p>Scenario: This issue occurred when a multicast listener query was received with an unspecified source IP address.</p> <p>Workaround: Stop sending malformed multicast listener query packets to the switch.</p>	Multicast
16.10.0010	253557	YC	<p>Symptom: Using REST to retrieve the resource identifier <code>/lldp/remote-device</code> fails to display the IPv4 address of the neighbor.</p> <p>Scenario: This issue occurred when the REST resource operation GET was used to retrieve the data associated with <code>/lldp/remote-device</code>.</p>	REST
16.10.0010	252993	YC	<p>Symptom: Some RADIUS accounting packets sent to the RADIUS server have a very large size.</p> <p>Scenario: This issue occurred when a downloadable user role was configured with a user policy, network accounting was enabled, and a client was authenticated.</p>	RADIUS
16.10.0010	253736	YC	<p>Symptom: Disconnect Change of Authorization (CoA) request is not honored.</p> <p>Scenario: This issue occurred when the radius-server group was configured, a client was authenticated, and a disconnect CoA request with the default nas-id was sent.</p> <p>Workaround: Configure <code>aaa server-group radius <Group name> nas-id <NAS-ID></code> where the NAS-ID matches the NAS Identifier value shown in the output of the <code>show radius authentication</code> command.</p>	RADIUS
16.10.0010	253789	YC	<p>Symptom: Switch serial number contains an extra space at the end when it is read using SNMP.</p> <p>Scenario: This issue occurred when the switch serial number was read using SNMP.</p> <p>Example: MIB OID: 1.3.6.1.2.1.47.1.1.1.1.11.1 MIB File: ENTITY-MIB</p>	SNMP
16.10.0010	253342	YC	<p>Symptom: SSH/Telnet/Console connections to the switch fail with an error message: <code>Maximum session limit is reached.</code></p> <p>Scenario: This issue occurred when multiple users logged in and out and RADIUS was configured as the primary authentication method.</p> <p>Workaround: Reboot the switch.</p>	Switch Access
16.10.0010	253407	YC	<p>Symptom: Unable to log in to the switch using TACACS credentials.</p>	TACACS

Version	Bug ID	Software	Description	Category
			Scenario: This issue occurred when a source interface for TACACS was configured using the <code>ip source-interface tacacs</code> command and the switch was upgraded to 16.10.0009.	
16.10.0010	253001	YC	Symptom: When there are continuous link flaps on the link-to-monitor ports within a fraction of a second, some link-to-disable ports may not come up once the link-to-monitor port stabilizes. Scenario: This issue occurred when the link-to-monitor port used a transceiver connected by fibre and flapped continuously at a high rate. Workaround: Use Fault-Finder to disable the link-to-monitor if it is flapping too often. The link-to-disable port can be disabled and re-enabled to bring it back up.	UFD
16.10.0010	253290	YC	Symptom: Switch crashes when it is accessed through the web interface. Scenario: This issue occurred when the switch was accessed using the web interface and RADIUS authentication was configured for web access. Workaround: Disable RADIUS authentication for web access.	Web UI
16.10.0010	253877	YC	Symptom: The WebUI Security > Clients page displays incorrect MAC addresses, which results in the user role, IP address, and status columns to be empty. Scenario: This issue occurred when a few workstations with higher value MAC addresses (for example, 9c:dc:71:fb:77:fe) are connected to the last ports of a 2930 stack or the last module of a 5400R.	Web UI
16.10.0009	252885	YC	Symptom: Switch appears down in Aruba Central. Scenario: This issue occurred because the system time was set to the year 2036, though NTP sync was successful, and the switch was connected to Aruba Central. Workaround: Configure an NTP server in the switch.	Activate
16.10.0009	252226	YC	Symptom: Switch does not respond during the ZTP process. Scenario: This issue occurred when connecting to the switch using SSH, while Airwave was transferring the configuration to the switch.	AirWave
16.10.0009	251418	YC	Symptom: Pushing a switch configuration template from Aruba Central fails and a 500 error code is returned. Scenario: This issue occurred when a configuration template that had no untagged ports in VLAN 1 was pushed from Aruba Central.	Central

Version	Bug ID	Software	Description	Category
			Workaround: In the configuration template, add at least one untagged port in VLAN 1.	
16.10.0009	253174	YC	Symptom/Scenario: The switch experienced an NMI crash with the following message: Task='ewsCloudRcv'.	Central
16.10.0009	253276	YC	Symptom: Unable to copy crash-files, core-dump, and the <code>show tech all</code> command output from the switch. Scenario: This issue occurred when executing the <code>copy</code> command with an invalid IP address, file name, hostname, or when parallelly executing the <code>copy</code> command in other sessions. Workaround: <ul style="list-style-type: none"> ▪ Copy the core file from the web interface. ▪ Copy the <code>show tech all</code> command output from the console interface. 	CLI
16.10.0009	252265	YC	Symptom: The switch does not forward DHCP packets. Scenario: This issue occurred when both DHCP snooping and IP client tracker trusted were configured, and the client was authenticated.	IP Client Tracker
16.10.0009	252833	YC	Symptom: MSTP does not work as expected and does not block ports when it should. Scenario: This issue occurred when two ports in a loop were in a forwarding state with MSTP and port-security non-default learn mode enabled. Workaround: Disable port-security.	Spanning Tree
16.10.0009	252613	YC	Symptom: Unable to connect to the switch using SSH. Scenario: This issue occurred when the switch is configured to use TACACS and a malformed TACACS packet is received by the switch. Workaround: Reboot the switch.	SSH
16.10.0009	251966	YC	Symptom: The switch sends logging events with a "Z" at the end of the timestamp when the it is not configured to use UTC. Scenario: This issue occurred when the switch sent syslog messages over TLS.	Syslog
16.10.0009	252410	YC	Symptom: The switch either reboots or fails over from the active to standby management module and records a Watchdog Reset entry in the event log. Scenario: This issue occurred when IP directed-broadcast was configured in the switch and Wake On LAN traffic was sent to a directly connected subnet. Workaround: Disable IP directed-broadcast.	VSF

Version	Bug ID	Software	Description	Category
16.10.0009	252443	YC	Symptom/Scenario: The Reboot button is displayed for a few seconds in the Web UI. Clicking it allowed an operator to reboot the switch.	Web UI
16.10.0008	-	YC	Version 16.10.0008 was never released.	-
16.10.0007	252007	YC	Symptom: The switch sends an incorrect CLASS attribute value in the RADIUS accounting packet. Scenario: When the CLASS attribute is updated during re-authentication of a MAC-authenticated client session, the switch fails to send the new CLASS attribute value in the RADIUS accounting packet. Workaround: Force a new client authentication session by disabling/enabling the port after the CLASS attribute value changes.	Accounting
16.10.0007	251765	YC	Symptom: The show runnig-config output does not display some access list entries (ACEs). Scenario: When the switch is configured with extended ACLs and connect-rate-filter, some ACEs are not displayed in the output of the <code>show runnig-config</code> command. Workaround: Use the <code>show access-list config</code> command to get the complete extended ACL configuration.	ACLs
16.10.0007	251273	YC	Symptom: The switch incorrectly places clients in the configured authorized VLAN (auth-vid). Scenario: When using <code>chap-radius authorized</code> option, if the route to the RADIUS server is not resolved during the switch boot up, clients are incorrectly placed in the configured authorized VLAN (auth-vid) rather than the guest VLAN (unauth-vid) or initial-role. Workaround: Reauthenticate the affected clients.	Authentication
16.10.0007	251927	YC	Symptom: The switch fails to remove CDP configuration for a port. Scenario: When a port is added to a trunk interface, the switch fails to remove the previous non-default CDP configuration for that port (example: <code>no cdp enable <PORT-NUM></code>). Workaround: Remove the non-default CDP configuration from the individual port before adding it to trunk interface.	CDP
16.10.0007	252053	YC	Symptom/Scenario: The switch crashes with an error message similar to: <code>Software exception in ISR at pvDmaVlRx.c <...></code> <code>ASSERT: No resources available!.</code>	Central

Version	Bug ID	Software	Description	Category
16.10.0007	252267	YC	<p>Symptom: The switch experiences high CPU utilization.</p> <p>Scenario: In conditions of low network bandwidth or network congestion that cause frequent disconnections from the Aruba Central Portal, the switch experiences high CPU utilization while attempting to reconnect to Aruba Central and while being managed by other NMS applications such as Solarwinds at the same time.</p> <p>Workaround: Use only one NMS application to manage the switch if network bandwidth capacity or congestion cannot be improved.</p>	Central
16.10.0007	251876	YC	<p>Symptom: The switch may fail to apply the correct VLAN to dynamic trunks.</p> <p>Scenario: After a reboot of a switch configured for dynamic trunks with device profile enabled on ports, the switch may fail to apply the correct VLAN configured in the device-profile, after the port is joined to the dynamic trunk.</p> <p>Workaround: Disable and enable device-profile.</p>	Dynamic Trunks
16.10.0007	251972	YC	<p>Symptom: Some clients using the PEAP authentication mechanism are not successfully authenticated.</p> <p>Scenario: When concurrent authentication requests are sent to the switch using peap-mschapv2, some clients may not be successfully authenticated, even though ACCESS ACCEPT is sent from the RADIUS server.</p>	MAC Authentication
16.10.0007	252131	YC	<p>Symptom: REST API calls may experience some slight delay in execution response.</p> <p>Scenario: When multiple REST API commands are executed over the same HTTPS session, they may experience a slight delay in execution response.</p> <p>Workaround: Use a new HTTPS session for each REST API call.</p>	REST
16.10.0007	250797	YC	<p>Symptom: The switch sends an incorrect checksum when forwarding certain UDP frames.</p> <p>Scenario: If a received UDP frame has no checksum or the checksum value of zero (0), the switch incorrectly calculates the checksum when forwarding it.</p>	UDP
16.10.0007	251475	YC	<p>Symptom: The switch experiences high CPU utilization and possible console connectivity issues.</p> <p>Scenario: When configuring or modifying aggregated interfaces (trunks) with more than 3 member ports on a switch where there is a very high number of configured VLANs, the switch experiences high CPU utilization and possible console connectivity issues while applying the configuration.</p>	VLAN

Version	Bug ID	Software	Description	Category
16.10.0007	251505	YC	<p>Symptom: The WebUI contains an XSS vulnerability.</p> <p>Scenario: Configure the editable parameters in the WebUI with values that can cause an XSS attack.</p>	Web UI
16.10.0007	251524	YC	<p>Symptom: The switch fails to display some ports on the Ports page of the WebUI.</p> <p>Scenario: When aSysName with trailing zeroes is received in the LLDP packet from a neighboring device, the switch fails to list some ports in the Ports page when using the WebUI.</p> <p>Workaround: To get the information for all ports use one of the following options:</p> <ul style="list-style-type: none"> ■ Disable LLDP on the port where the device with <code>invalidSysName</code> is connected. ■ Use the traditional web UI to get the information for the affected/missing ports. ■ Use switch CLI commands to get the information for the affected/missing ports. 	Web UI
16.10.0006	-	YC	Version 16.10.0006 was never released.	-
16.10.0005	-	YC	Version 16.10.0005 was never released.	-
16.10.0004	-	YC	Version 16.10.0004 was never released.	-
16.10.0003	251317	YC	<p>Symptom: A Windows client that joins a domain other than the one defined in Cisco ISE fails to authenticate. The client will also wait more than 5 minutes before attempting MAC address authentication.</p> <p>Scenario: This issue is observed when MAC and 802.1X authentication are enabled on the port and the configured auth-order is 802.1X-MAC and an initial role.</p>	802.1X
16.10.0003	251464	YC	<p>Symptom: VSF stack members crash intermittently during 802.1X client reauthentication and the following message is displayed: <code>Software exception in ISR at pvDmaV1Rx.c: -> ASSERT: No resources available!</code></p> <p>Scenario: This issue is observed when ports with LLDP traffic are configured with 802.1X and MAC authentication, and the RADIUS VSA <code>HP-Port-Client-Limit-MA</code> value is zero.</p>	802.1X
16.10.0003	251498	YC	<p>Symptom: A client is unable to pass traffic.</p> <p>Scenario: This issue is observed when the clear <code>mac-address vlan 1 mac</code> command is issued to clear the switch's base MAC address from VLAN 1.</p>	Basic Layer 2

Version	Bug ID	Software	Description	Category
16.10.0003	251280	YC	<p>Symptom: Deploying a switch template through Airwave/Aruba Central fails.</p> <p>Scenario: This issue is observed when the IP address from VLAN1 is removed from a new configuration template and is pushed to the switch with the "ntpserver-name <server name>".</p> <p>Workaround: Do not remove the IP address from VLAN 1 in the new template.</p>	Central
16.10.0003	251393	YC	<p>Symptom: A switch crashes with the following message "Software exception in ISR at pvDmaVlRx.c -> ASSERT: No resources available".</p> <p>Scenario: This issue is observed when a switch is configured with an initial role with a captive-portal-profile and a client is placed in this initial role because the RADIUS server is unreachable.</p>	Classifier
16.10.0003	250816	YC	<p>Symptom: Authenticated users are disconnected from the switch.</p> <p>Scenario: This issue is observed when users disable and enable the interface which connects to the dhcp-relay switch, after configuring the DHCP server, DHCP relay, and DHCP snooping with ip-source lockdown.</p> <p>Workaround: Disable ip-source lockdown.</p>	DIPLD
16.10.0003	249465	YC	<p>Symptom: A switch crashes and displays the following message: Software exception at ospf2.c -- in 'eRouteCtrl' -> Routing Stack: Assert Failed.</p> <p>Scenario: This issue is observed when a switch is configured with OSPF and one of the OSPF neighbors is disconnected.</p>	OSPF
16.10.0003	251615	YC	<p>Symptom: An attacker is able to obtain sensitive data without providing valid login credentials after a successful REST query.</p> <p>Scenario: This issue is observed when web management is enabled on the switch.</p>	REST
16.10.0003	251340	YC	<p>Symptom: Tunneled clients lose network connectivity.</p> <p>Scenario: This issue is observed when user tunnels are configured in addition to ip client-tracker trusted and ip client-tracker probe-delay.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Remove ip client-tracker probe-delay from the configuration. 2. Disable the port. 3. Clear ARP. 	Tunneled Node

Version	Bug ID	Software	Description	Category
			4. Re-enable the port.	
16.10.0003	251325	YC	<p>Symptom: Users are unable to modify the vlan-id-tagged list of a user role.</p> <p>Scenario: This issue is observed when the user applies a template that adds VLANs to the vlan-id-tagged list of a user role.</p> <p>Workaround: Use a template that does not extend the list of VLANs in vlan-id-tagged.</p>	User Roles
16.10.0003	251506	YC	<p>Symptom: The switch manager password is altered to an attack-controlled value.</p> <p>Scenario: This issue is observed when the user clicks a malicious hyperlink.</p>	Web UI
16.10.0003	251314	YC	<p>Symptom: Switches appear offline in Aruba Central.</p> <p>Scenario: This issue is observed after the switch software is upgraded from 16.04 to 16.08.</p> <p>Workaround: Reboot the switch.</p>	ZTP
16.10.0002	250681	YC	<p>Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.</p>	AirWave
16.10.0002	251313	YC	<p>Symptom: The switch experiences a high CPU utilization and loses connection with Central.</p> <p>Scenario: When the switch is upgraded to 16.08.0001 and a template with <code>tls</code> and <code>cwmp</code> commands is pushed from Central, the switch experiences high CPE utilization and loses the connection to Aruba Central.</p> <p>Workaround: Remove <code>tls application cloud lowest-version tls1.2</code> and <code>cwmp</code> from the switch template.</p>	Central
16.10.0002	250251	YC	<p>Symptom/Scenario: The switch crashes with a message similar to: <code>Software exception in ISR at interrupts_om.c-> Excessive OM FP interrupts.</code></p>	Chassis
16.10.0002	250600	YC	<p>Symptom/Scenario: The help text for the <code>device-identity lldp oui</code> command indicates that the required input is a MAC-OUI.</p>	Device finger printing
16.10.0002	250957	YC	<p>Symptom: Host packets are denied with a message similar to <code>dlpld: AML: Access denied.</code></p>	DIPLD

Version	Bug ID	Software	Description	Category
			<p>Scenario: When the switch has been configured using the <code>aaa port-access</code> and <code>ip source-lockdown</code> commands and clients authenticate to the switch, if more than one client is placed in a VLAN provided by the RADIUS server, host packets are denied.</p> <p>Workaround: Disable Dynamic IP Lockdown on the switch using the <code>no ip source-lockdown</code> command.</p>	
16.10.0002	250550	YC	<p>Symptom: Primary and secondary VLANs do not have MAC address entries.</p> <p>Scenario: When a port has been configured with PVLAN and port security and the port is subsequently disabled and re-enabled, MAC address entries are not present in the primary and secondary VLANs.</p> <p>Workaround: Reconfigure the port security configuration of the port.</p>	MAC address
16.10.0002	250392	YC	<p>Symptom: The switch crashes with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access</code>.</p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access</code>.</p> <p>Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.</p>	Menu
16.10.0002	245830	YC	<p>Symptom: The switch fails to list the switch ports in the Ports web management page.</p> <p>Scenario: When a peer device that advertises information in LLDP has a <code>sysName</code> string with special characters, the switch fails to display the port list table on the Ports web management page.</p> <p>Workaround: Remove the special characters from the peer device <code>sysName</code> or use CLI commands to get specific port information.</p>	Next Gen GUI
16.10.0002	250896	YC	<p>Symptom: Switch ports are not listed in the web interface.</p> <p>Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.</p>	Web UI
16.10.0001	250366	YC	<p>Symptom: An Apple MacOS device (desktop or laptop) is unable to maintain authentication with APs.</p>	802.1X

Version	Bug ID	Software	Description	Category
			<p>Scenario: When an AP is connected to a switch port that has been configured with device-identity bypass, an Apple MacOS device (desktop or laptop) receives EAP request ID packets after 802.1X authentication and is unable to maintain authentication with the AP.</p> <p>Workaround: Configure a MAC-based ACL to block the EAP request identity to multicast MAC address.</p>	
16.10.0001	250681	YC	<p>Symptom/Scenario: The Topology section of Airwave shows spanning tree details for a switch that does not have spanning tree enabled.</p>	AirWave
16.10.0001	250251	YC	<p>Symptom/Scenario: The switch crashes with a message similar to: Software exception in ISR at interrupts_om.c-> Excessive OM FP interrupts.</p>	Chassis
16.10.0001	250600	YC	<p>Symptom/Scenario: The help text for the <code>device-identity lldp oui</code> command indicates that the required input is a MAC-OUI.</p>	Device identity
16.10.0001	250957	YC	<p>Symptom: Host packets are denied with a message similar to <code>dlpld: AM1: Access denied.</code></p> <p>Scenario: When the switch has been configured using the <code>aaa port-access</code> and <code>ip source-lockdown</code> commands and clients authenticate to the switch, if more than one client is placed in a VLAN provided by the RADIUS server, host packets are denied.</p> <p>Workaround: Disable Dynamic IP Lockdown on the switch using the <code>no ip source-lockdown</code> command.</p>	DIPLD
16.10.0001	250550	YC	<p>Symptom: Primary and secondary VLANs do not have MAC address entries.</p> <p>Scenario: When a port has been configured with PVLAN and port security and the port is subsequently disabled and re-enabled, MAC address entries are not present in the primary and secondary VLANs.</p> <p>Workaround: Reconfigure the port security configuration of the port.</p>	MAC address
16.10.0001	250392	YC	<p>Symptom: The switch crashes with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access.</code></p> <p>Scenario: After an IP address has been reassigned from one VLAN to another VLAN using the menu interface, the switch may crash with a message similar to <code>Health Monitor: Invalid Instr Misaligned Mem Access.</code></p>	Menu

Version	Bug ID	Software	Description	Category
			Workaround: Disable the first VLAN and save the configuration from the menu interface. Then, configure the deleted IP address on the second VLAN.	
16.10.0001	245830	YC	Symptom: The switch fails to list the switch ports in the Ports web management page. Scenario: When a peer device that advertises information in LLDP has a sysName string with special characters, the switch fails to display the port list table on the Ports web management page. Workaround: Remove the special characters from the peer device sysName or use CLI commands to get specific port information.	Web UI
16.10.0001	250896	YC	Symptom: Switch ports are not listed in the web interface. Scenario: If a peer device advertises an LLDP port ID containing special characters, switch ports are not listed in the web interface.	Web UI

Issues and Workarounds

The following are known open issues with this branch of the software.

The Symptom statement describes what a user might experience if this is seen on the network. The Scenario statement provides additional environment details and trigger summaries. When available, the Workaround statement provides a workaround to the issue.

Table 19: *Known Issues*

Version	Bug ID	Software	Description	Category
16.10.0016	255646	YC	Symptom: The <code>show statistics aclv4 <ACL-NAME-STR> vlan <VLAN-ID> out</code> command displays lesser <code>HitCounts</code> for ACL for deny rule. Scenario: The routed traffic is denied even before the egress Access control list (ACL) when the ACL contains a deny rule, and it is applied in the VLAN egress direction.	ACL
16.10.0015	255554	YC	Symptom: Aruba 2540 switches fail to connect to Aruba Central during the ZTP process. Scenario: This issue occurs when the Simple Network Time Protocol (SNTP) or any other time protocol is not configured on the network. Workaround: Use one of the following workarounds to fix this issue: <ul style="list-style-type: none"> ■ Manually configure the system time. <ul style="list-style-type: none"> ○ Set the current date and time using the <code>time [HH:MM:SS] [MM/DD/YYYY]</code> command. ○ Force connection to Aruba Central using the 	Central

Version	Bug ID	Software	Description	Category
			<p>aruba-central disable and aruba-central enable commands.</p> <ul style="list-style-type: none"> ■ Execute any reboot command that gracefully reboot the switch. The following are some of the commands that gracefully reboot the switch: <ul style="list-style-type: none"> ◦ boot system flash {<primary secondary>} ◦ reboot ◦ reset saved-configuration ■ Enable SNTP on the network. <ul style="list-style-type: none"> ◦ By default, SNTP updates the system time. This issue does not occur when the SNTP server is enabled on the network. 	

Upgrade Information

Upgrading Restrictions and Guidelines

YC.16.10.0009 uses BootROM YC.16.01.0002. If your switch has an older version of BootROM, the BootROM will be updated with this version of software.

IMPORTANT: During the software update, the switch will automatically boot twice. The switch will update the primary BootROM, then reboot, and then update the secondary BootROM. After the switch flash memory is updated and the final boot is initiated, no additional user intervention is needed. Do not interrupt power to the switch during this important update.

Firmware downgrade to a version earlier than 16.04 will generate new SSH keys upon switch boot-up. These keys will be different than the ones previously stored in SSH peer's known hosts file and may result in SSH connectivity issues after the OS downgrade completes. You will need to erase the pre-existing switch keys from SSH peer's known hosts file to restore SSH connectivity.

This issue will not be encountered when the option "StrictHostKeyChecking" is disabled in the SSH peer.

For more information regarding clearing SSH keys and changing strict host key checking settings, see the documentation provided with your SSH client.

For information on best practices when updating software or rolling back to previous versions of software, see the "Best practices for software updates" section of the Basic Operation Guide.

Aruba Security Policy

A Security Bulletin is the first published notification of security vulnerabilities and is the only communication vehicle for security vulnerabilities.

- Fixes for security vulnerabilities are not documented in manuals, release notes, or other forms of product documentation.
- A Security Bulletin is released when all vulnerable products still in support life have publicly available images that contain the fix for the security vulnerability.

The Aruba security policy can be found at <https://www.arubanetworks.com/en-au/support-services/ sirt/>.
Security bulletins can be found at <https://www.arubanetworks.com/en-au/support-services/ security-bulletins/>.