

# WB.16.08.0001 Release Notes



a Hewlett Packard  
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## Description

This release note covers software versions for the WB.16.08 branch of the software.

Version WB.16.08.0001 is the initial build of Major version WB.16.08 software. WB.16.08.0001 includes all enhancements and fixes in the WB.16.07.0002 software, plus the additional enhancements and fixes in the WB.16.08.0001 enhancements and fixes sections of this release note.

Product series supported by this software:

Aruba 2920 Switch Series

## Important information

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

## Version history

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

Version number	Release date	Based on	Remarks
WB.16.08.0001	2018-11-28	WB.16.07.0002	Initial release of the WB.16.08 branch. Released, fully supported, and posted on the web.
WB.16.07.0003	2018-11-21	WB.16.07.0002	Released, fully supported, and posted on the web.
WB.16.07.0002	2018-09-13	WB.16.06.0006	Initial release of the WB.16.07 branch. Released, fully supported, and posted on the web.
WB.16.06.0008	2018-09-05	WB.16.06.0007	Released, fully supported, and posted on the web.
WB.16.06.0007	n/a	WB.16.05.0006	Never released.
WB.16.06.0006	2018-06-26	WB.16.05.0003	Initial release of the WB.16.06 branch. Released, fully supported, and posted on the web.
WB.16.05.0009	2018-06-08	WB.16.05.0008	Released, fully supported, and posted on the web.
WB.16.05.0008	n/a	WB.16.05.0007	Never released.
WB.16.05.0007	2018-03-28	WB.16.05.0006	Released, fully supported, and posted on the web.
WB.16.05.0006	n/a	WB.16.05.0005	Never released.
WB.16.05.0005	n/a	WB.16.05.0004	Never released.

*Table Continued*

Version number	Release date	Based on	Remarks
WB.16.05.0004	2017-12-22	WB.16.05.0003	Released, fully supported, and posted on the web.
WB.16.05.0003	2017-12-12	WB.16.04.0008	Initial release of the WB.16.05 branch. Released, fully supported, and posted on the web.
WB.16.04.0010	2017-10-16	WB.16.04.0008	Released, fully supported, and posted on the web.
WB.16.04.0008	2017-07-27	WB.16.03.0003	Initial release of the WB.16.04 branch. Released, fully supported, and posted on the web.

## Products supported

This release applies to the following product models:

Product number	Description
J9726A	Aruba 2920 24G Switch
J9728A	Aruba 2920 48G Switch
J9727A	Aruba 2920 24G PoE+ Switch
J9729A	Aruba 2920 48G PoE+ Switch
J9836A	Aruba 2920 48G PoE+ 740W Switch

## Compatibility/interoperability

The switch web agent supports the following web browsers:

Browser	Supported versions
Internet Explorer	<ul style="list-style-type: none"> <li>Edge</li> <li>11</li> </ul>
Chrome	<ul style="list-style-type: none"> <li>53</li> <li>52</li> </ul>
Firefox	<ul style="list-style-type: none"> <li>49</li> <li>48</li> </ul>
Safari (MacOS only)	<ul style="list-style-type: none"> <li>10</li> <li>9</li> </ul>



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

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## 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.

### Version 16.08.0001

#### EAP identifier compliance for 802.1x

Allows customer to set non-incremental EAP identifier values for EAP requests. For information, see the *Access Security Guide*.

## 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.



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

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### Version 16.08.0001

#### Authentication CR\_0000245450

**Symptom:** The switch fails to display the correct expected username in the Endpoint Username attribute.

**Scenario:** When the username attribute of the mac-based authenticated client is changed in the authenticating server before the next reauth-period, the switch fails to update the username of the authenticated client in the output of the CLI command `show port-access client`.

**Workaround:** Disable and re-enable the interface to force all the new authentication attributes to be reapplied.

#### Central CR\_0000246091

**Symptom/Scenario:** The switch fails to close TCP port 8900 (jmb-cds1) after completing the connection to the Aruba Central application.

#### IPsec CR\_0000244975

**Symptom:** A VPN tunnel to Airwave fails and does not recover.

**Scenario:** A VPN tunnel to Airwave is established but is brought down and the switch is not able to re-establish the tunnel to Airwave.

**Workaround:** Reboot the switch or set the IP address to none and then back to DHCP (no ip address, ip address dhcp) for VLAN 1.

## IPv4

### CR\_0000244916

**Symptom:** The switch is unable to communicate with any device outside of the VLANs configured on the switch.

**Scenario:** When a default gateway is configured and the switch loses power or undergoes a cold/warm reboot, it cannot communicate with any device outside of the VLANs configured when it powers back up.

**Workaround:** Delete and re-add the default gateway.

## IPv6 RA

### CR\_0000246423

**Symptom:** The switch fails to forward IPv6 RA packets.

**Scenario:** When both IGMP and MLD are enabled on an un-authenticated VLAN (unauth-vid), the switch may randomly fail to forward IPv6 RA packets destined to authenticated users on the authenticated VLAN (auth-vid).

**Workaround:** Disable MLD on the un-authenticated VLAN (unauth-vid).

## Logging

### CR\_0000246621

**Symptom:** In certain conditions, the switch fails with an error message similar to `NMI event <...>`  
`Task='eDevIdle'`.

**Scenario:** When issuing the CLI command `show logging`, if the switch event log is over 80% full and the switch CPU is under high utilization, the switch may randomly fail with an error message similar to `NMI event <...>`  
`Task='eDevIdle'`.

## PoE

### CR\_0000244889

**Symptom:** Unable to configure the PoE allocate by value on dual personality ports.

**Scenario:** While provisioning a new member to the 2-member stack the poe-allocate-by value on the dual personality ports cannot be configured.

**Workaround:** After connecting the physical switch, configure the poe-allocate-by value.

## RADIUS Accounting

### CR\_0000244813

**Symptom:** The switch delays the accounting request packet by 50-60 seconds after the client authentication is accepted.

**Scenario:** When the port access is configured for MAC address and 802.1x authentication and the switch is enabled for DHCP snooping, if the authenticated port is concurrently untagged and tagged in different VLAN IDs, the accounting request packet may be delayed by 50-60 seconds.

## SNMP

### CR\_0000246595

**Symptom:** The switch fails to report some stacking ports' details.

**Scenario:** In a stacking configuration, after a switch reboot or redundancy switchover, the switch may fail to report the port status for the standby switch in the SNMP MIB 1.3.6.1.2.1.47.1.1.1.1.7.

**Workaround:** Use the CLI command `show stacking stack-ports` to get the stacking ports' details.

## Spanning Tree CR\_0000244858

**Symptom/Scenario:** When the `show spanning-tree detail` command is executed, the output does not list the counters of the 802.1w and 802.1s topology change packets.

**Workaround:** Execute the `show spanning-tree debug-counters` command to display the counters of the 802.1w and 802.1s topology change packets.

## CR\_0000245603

**Symptom:** The switch CPU utilization increases leading to a switch failure with an error message similar to `NMI event <...> Task='mMstpCtrl' <...>`.

**Scenario:** When root-guard is enabled on multiple switch interfaces, if there are frequent root-guard inconsistencies due to spanning tree instance priority changes, the switch CPU utilization may get high and lead to a switch failure with an error message similar to `NMI event <...> Task='mMstpCtrl' <...>`.

**Workaround:** Adjust the switch spanning tree priority to eliminate the root-guard inconsistencies.

## CR\_0000246715

**Symptom:** The switch fails to properly send traffic over the forwarding switch interfaces.

**Scenario:** In a stacking configuration running spanning tree in PVST mode, after a redundancy switchover to the standby switch, the switch fails to forward traffic after the switch ports transition from Blocking to Forwarding.

**Workaround:** Disable and re-enable the affected switch ports.

## User Roles CR\_0000245072

**Symptom:** The switch fails to place authenticated users in the critical authentication role.

**Scenario:** When RADIUS server tracking is enabled and the RADIUS server is unresponsive, the switch fails to place the authenticated clients in the critical authentication role.

**Workaround:** Disable RADIUS tracking or configure the initial role with the same privileges as the critical authentication role.

## VLAN CR\_0000245933

**Symptom:** Unable to enter the VLAN context using the name of the VLAN.

**Scenario:** When using the `vlan <vlan-name>` CLI command to enter the VLAN context, an `Invalid input: <vlan-name>` error is displayed.

**Workaround:** Use the `vlan <vlan-id>` CLI command to enter the VLAN context.

## Web UI CR\_0000243495

**Symptom:** On the Web UI, the switch fails to display the port list under the Ports status web page.

**Scenario:** When the LLDP information is updated for a neighbor device, if the SysName contains a colon (":") character, the switch fails to display the port list under the Ports status web page.

**Workaround:** Avoid using the colon (":") character in SysName on peer devices.



## CR\_0000245750

**Symptom/Scenario:** After switch upgrade, when the self-signed certificate is generated, the connection to the switch cannot be established via web server using HTTPS.

**Workaround:** Downgrade to the lower version, generate the self-signed certificate from that build and use this generated certificate in the upgraded build.

## 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.

## User Roles

### CR\_0000246466

**Symptom:** The switch denies access to already-authenticated clients.

**Scenario:** If the number of authenticated clients with applied user roles policies is greater than 256, the already authenticated users may be placed into "deny all" state after adding a new ACE to an existing role.

**Workaround:** Force a user re-authentication from the CLI or disable/re-enable the ports. To avoid the issue, it is recommended to configure the Initial Role with a shortened re-authentication period (example 60 seconds).

## Upgrade information

### Upgrading restrictions and guidelines

WB.16.08.0001 uses BootROM WB.16.03. 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.

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Firmware downgrade to a version earlier than 16.01 is not allowed if the max-vlans value is greater than 2048.

Unconfigure the max-vlans before attempting to downgrade from WB.16.02.0008 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 *ArubaOS-Switch Basic Operations Guide*.

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.

## Finding Security Bulletins

### Procedure

1. Go to the HPE Support Center - Hewlett Packard Enterprise at [www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc).
2. Enter your product name or number and click **Go**.
3. Select your product from the list of results.
4. Click the **Top issues & solutions** tab.
5. Click the **Advisories, bulletins & notices** link.

## Security Bulletin subscription service

You can sign up at [http://www.hpe.com/support/Subscriber\\_Choice](http://www.hpe.com/support/Subscriber_Choice) to initiate a subscription to receive future Hewlett Packard Enterprise Security Bulletin alerts via email.

**Networking Websites**

**Hewlett Packard Enterprise Networking Information Library**

**[www.hpe.com/networking/resourcefinder](http://www.hpe.com/networking/resourcefinder)**

**Hewlett Packard Enterprise Networking Software**

**[www.hpe.com/networking/software](http://www.hpe.com/networking/software)**

**Hewlett Packard Enterprise Networking website**

**[www.hpe.com/info/networking](http://www.hpe.com/info/networking)**

**Hewlett Packard Enterprise My Networking website**

**[www.hpe.com/networking/support](http://www.hpe.com/networking/support)**

**Hewlett Packard Enterprise My Networking Portal**

**[www.hpe.com/networking/mynetworking](http://www.hpe.com/networking/mynetworking)**

**Hewlett Packard Enterprise Networking Warranty**

**[www.hpe.com/networking/warranty](http://www.hpe.com/networking/warranty)**

**General websites**

**Hewlett Packard Enterprise Information Library**

**[www.hpe.com/info/EIL](http://www.hpe.com/info/EIL)**

For additional websites, see **[Support and other resources](#)**.

## Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:  
<http://www.hpe.com/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:  
<http://www.hpe.com/support/hpesc>

### Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

## Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:  
**Hewlett Packard Enterprise Support Center**  
[www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc)  
**Hewlett Packard Enterprise Support Center: Software downloads**  
[www.hpe.com/support/downloads](http://www.hpe.com/support/downloads)  
**Software Depot**  
[www.hpe.com/support/softwaredepot](http://www.hpe.com/support/softwaredepot)
- To subscribe to eNewsletters and alerts:  
[www.hpe.com/support/e-updates](http://www.hpe.com/support/e-updates)
- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:  
[www.hpe.com/support/AccessToSupportMaterials](http://www.hpe.com/support/AccessToSupportMaterials)



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**IMPORTANT:** Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

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## Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

<http://www.hpe.com/support/selfrepair>

## Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

### Remote support and Proactive Care information

#### HPE Get Connected

[www.hpe.com/services/getconnected](http://www.hpe.com/services/getconnected)

#### HPE Proactive Care services

[www.hpe.com/services/proactivecare](http://www.hpe.com/services/proactivecare)

#### HPE Proactive Care service: Supported products list

[www.hpe.com/services/proactivecaresupportedproducts](http://www.hpe.com/services/proactivecaresupportedproducts)

#### HPE Proactive Care advanced service: Supported products list

[www.hpe.com/services/proactivecareadvancedsupportedproducts](http://www.hpe.com/services/proactivecareadvancedsupportedproducts)

### Proactive Care customer information

#### Proactive Care central

[www.hpe.com/services/proactivecarecentral](http://www.hpe.com/services/proactivecarecentral)

#### Proactive Care service activation

[www.hpe.com/services/proactivecarecentralgetstarted](http://www.hpe.com/services/proactivecarecentralgetstarted)

## Warranty information

To view the warranty information for your product, see the links provided below:

#### HPE ProLiant and IA-32 Servers and Options

[www.hpe.com/support/ProLiantServers-Warranties](http://www.hpe.com/support/ProLiantServers-Warranties)

#### HPE Enterprise and Cloudline Servers

[www.hpe.com/support/EnterpriseServers-Warranties](http://www.hpe.com/support/EnterpriseServers-Warranties)

#### HPE Storage Products

[www.hpe.com/support/Storage-Warranties](http://www.hpe.com/support/Storage-Warranties)

#### HPE Networking Products

[www.hpe.com/support/Networking-Warranties](http://www.hpe.com/support/Networking-Warranties)

## Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

[www.hpe.com/support/Safety-Compliance-EnterpriseProducts](http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts)

### Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

[www.hpe.com/info/reach](http://www.hpe.com/info/reach)

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

[www.hpe.com/info/ecodata](http://www.hpe.com/info/ecodata)

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

[www.hpe.com/info/environment](http://www.hpe.com/info/environment)

## Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback ([docsfeedback@hpe.com](mailto:docsfeedback@hpe.com)). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.