

WB.15.15.0013 Release Notes

Abstract

This document contains supplemental information for the WB.15.15.0013 release.

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Contents

1 WB.15.15.0013 Release Notes.....	6
Description.....	6
Important information.....	6
Version history.....	6
Products supported.....	7
Compatibility/interoperability.....	8
Minimum supported software versions.....	8
Enhancements.....	8
Version WB.15.15.0013.....	8
Version WB.15.15.0012.....	8
Version WB.15.15.0011.....	8
Version WB.15.15.0010.....	8
Configurable TLS.....	8
Rate Limiting.....	9
Version WB.15.15.0009.....	9
Version WB.15.15.0008.....	10
Version WB.15.15.0007.....	10
Version WB.15.15.0006	10
Audit Logging	10
Broadcast Storm	10
Core Dump	10
Debug Capability	10
Inactivity Timer	10
Interface Authentication	10
Password Length	10
Reporting	10
Service Insertion	11
Syslog Messages	11
TLS	11
Fixes.....	11
Version WB.15.15.0013.....	11
CLI.....	11
Config.....	11
Crash.....	11
Link.....	12
Routing.....	12
Security Vulnerability.....	12
sFlow.....	12
SFTP.....	12
SNMP.....	12
Stacking.....	12
Transceivers.....	12
Version WB.15.15.0012.....	13
802.1X.....	13
Certificate Manager.....	13
CLI.....	13
Crash.....	13
OpenFlow	13
PIM.....	13
PoE.....	13
Port Connectivity.....	13

QoS.....	13
Routing	13
SSH.....	14
SSL.....	14
Version WB.15.15.0011.....	14
Version WB.15.15.0010.....	14
Accounting.....	14
Certificate Manager.....	14
CLI.....	14
Config.....	14
Crash.....	14
LLDP.....	15
Memory.....	15
OOBM.....	16
Rate Limiting.....	16
Redundant Management.....	16
Self Test.....	16
SNMP.....	16
SSH.....	17
TFTP.....	17
Web Management.....	17
Version WB.15.15.0009.....	17
ARP	17
CLI	17
CPU Utilization	17
Config	17
Counters	17
Crash	17
File Transfer	18
ICMP	19
IP Communication.....	19
IP Phones.....	19
LLDP/PoE.....	19
Memory.....	19
Meshing.....	19
Redundant Management.....	19
Routing.....	19
Smart Link.....	19
Stacking.....	19
Switch Hang.....	20
TACACS.....	20
Web Management.....	20
Version WB.15.15.0008.....	20
802.1X.....	20
CLI	20
Config	20
Console	20
Logging	20
Management	21
PoE	21
sFlow	21
SNMP	21
Stacking	21
Switch Hang	21
Web Management.....	21

Version WB.15.15.0007	21
Authentication.....	21
IP Phones	22
IPv6	22
Logging	22
sFlow	22
Version WB.15.15.0006	22
BPDU Protection	22
CLI.....	22
Config.....	22
Console	22
Counters	23
Crash.....	23
Display Issue.....	23
Event Log	24
Fastboot.....	24
IGMP.....	24
IPv6	24
LLDP.....	24
Logging.....	24
Meshing.....	24
Mirroring.....	24
MSTP.....	24
Multicast.....	25
OpenFlow.....	25
RADIUS.....	25
SNMP.....	25
Spanning Tree	25
Stacking.....	25
Switch Hang.....	25
TELNET.....	25
Web Management.....	25
Upgrade information.....	25
Upgrading restrictions and guidelines.....	25
Contacting HP.....	26
HP security policy.....	26
Related information.....	26
Documents.....	26
Websites.....	27
Documentation feedback.....	27

1 WB.15.15.0013 Release Notes

Description

This release note covers software versions beginning with WB.15.15.0006.

Version WB.15.15.0006 was the initial release of Major version WB.15.15 software.

WB.15.15.0006 software was built from the same source as WB.15.14.0002. WB.15.15.0006 includes all enhancements and fixes in WB.15.14.0002 software, plus the additional enhancements and fixes in the WB.15.15.0006 enhancements and fixes sections of this release note.

Product series supported by this software:

- HP 2920 Switch Series

Important information

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

Version history

All released versions are fully supported by HP, unless noted in the table.

Version number	Release date	Based on	Remarks
WB.15.15.0013	2015-06-16	WB.15.15.0012	Released, fully supported, and posted on the web.
WB.15.15.0012	2015-04-17	WB.15.15.0011	Released, fully supported, and posted on the web.
WB.15.15.0011	n/a	WB.15.15.0010	Never released.
WB.15.15.0010	2015-02-06	WB.15.15.0009	Released, fully supported, and posted on the web.
WB.15.15.0009	2015-01-07	WB.15.15.0008	Released, fully supported, and posted on the web.
WB.15.15.0008	2014-09-15	WB.15.15.0007	Released, fully supported, and posted on the web.
WB.15.15.0007	2014-06-26	WB.15.15.0006	Released, fully supported, but not posted on the web.
WB.15.15.0006	2014-03-18	WB.15.14.0002	Initial release of WB.15.15. Released, fully supported, and posted on the web for early availability.
WB.15.14.0012	2015-04-17	WB.15.14.0011	Please see the WB.15.14.0012 release note for detailed information on the WB.15.14 branch. Released, fully supported, and posted on the web.
WB.15.14.0011	2015-02-06	WB.15.14.0010	Released, fully supported, and posted on the web.
WB.15.14.0010	2015-01-07	WB.15.14.0009	Released, fully supported, and posted on the web.
WB.15.14.0009	2014-09-15	WB.15.14.0008	Released, fully supported, and posted on the web.
WB.15.14.0008	2014-07-16	WB.15.14.0007	Released, fully supported, but not posted on the web.

Version number	Release date	Based on	Remarks
WB.15.14.0007	2014-07-01	WB.15.14.0006	Released, fully supported, and posted on the web.
WB.15.14.0006	2014-03-27	WB.15.14.0002	Released, fully supported, but not posted on the web.
WB.15.14.0005	n/a		Never built.
WB.15.14.0004	2014-01-07	WB.15.14.0002	Released, fully supported, but not posted on the web.
WB.15.14.0003	n/a		Never built.
WB.15.14.0002	2013-10-18	WB.15.13.0003	Initial release of WB.15.14. Released, fully supported, and posted on the web for early availability.
WB.15.13.0014	2014-11-17	WB.15.13.0013	Please see the WB.15.13.0014 release note for detailed information on the WB.15.13 branch. Released, fully supported, and posted on the web.
WB.15.13.0013	2014-09-15	WB.15.13.0012	Released, fully supported, and posted on the web.
WB.15.13.0012	2014-07-31	WB.15.13.0011	Released, fully supported, but not posted on the web.
WB.15.13.0011	n/a	WB.15.13.0010	Never released.
WB.15.13.0010	n/a	WB.15.13.0009	Never released.
WB.15.13.0009	n/a	WB.15.13.0008	Never released.
WB.15.13.0008	2014-05-29	WB.15.13.0006	Released, fully supported, and posted on the web.
WB.15.13.0007	2014-03-31	WB.15.13.0006	Released, fully supported, but not posted on the web.
WB.15.13.0006	2014-03-21	WB.15.13.0005	Released, fully supported, but not posted on the web.
WB.15.13.0005	2013-12-20	WB.15.13.0004	Released, fully supported, and posted on the web.
WB.15.13.0004	2013-08-28	WB.15.13.0003	Initial release of WB.15.13. Released, fully supported, but not posted on the web.

Products supported

This release applies to the following product models:

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

Compatibility/interoperability

The switch web agent supports the following operating system and web browser combinations:

Operating System	Supported Web Browsers
Windows XP SP3	Internet Explorer 7, 8 Firefox 12
Windows 7	Internet Explorer 9, 10 Firefox 24 Chrome 30
Windows 8	Internet Explorer 9, 10 Firefox 24 Chrome 30
Windows Server 2008 SP2	Internet Explorer 8, 9 Firefox 24
Windows Server 2012	Internet Explorer 9, 10 Firefox 24
Macintosh OS	Firefox 24

Minimum supported software versions

Product number	Product name	Minimum software version
J9805A	HP 640 Redundant/External PS Shelf	WB.15.13.0003

Enhancements

This section lists released builds that include enhancements. Software enhancements are listed in reverse-chronological order, with the newest at the top of the list. Unless otherwise noted, each software version listed includes all enhancements added in earlier editions.

NOTE: The number preceding the fix description is used for tracking purposes.

Version WB.15.15.0013

No enhancements were included in version WB.15.15.0013.

Version WB.15.15.0012

No enhancements were included in version WB.15.15.0012.

Version WB.15.15.0011

Version WB.15.15.0011 was never released.

Version WB.15.15.0010

Configurable TLS

CR_0000160085 Configurable TLS version and enforcing the use of a specific cipher suite.

The National Institute of Standard and Technology (NIST) has provided requirements for the use of TLS in Special Publication 800-52. These requirements state that a minimum version of TLS must be enforced, as well as the use of specific cipher suites. In order to meet these requirements, the software has been modified to support enforcing minimum versions of TLS and specify which cipher suites are to be used.

As a TLS client, the switch will advertise the configured preferences for the TLS version and cipher suite to the server. If the server does not support the cipher suite or negotiates a lower TLS version, the connection between client and server will be terminated. As an HTTPS server, the switch will check the TLS version and cipher suite advertised by the client. Should it detect a mismatch with the configured TS version or cipher suite for the application, the connection will be terminated.

The following new CLI command has been implemented in order to configure the minimum TS version and cipher suite:

```
[no] tls application { web-ssl | openflow | syslog | tr69 | all }
lowest-version { tls1.0 | tls 1.1 | tls 1.2 | default } cipher {
aes256-sha256 | aes256-sha | aes128-sha256 | aes128-sha | des3-cbc-sha
| ecdh-rsa-aes128-gcm-sha256 }
```

The MIB HP-ICF-TLS-MIN-MIB (OID string: 1.3.6.1.4.1.11.2.14.11.5.1.112) has been implemented to provide support for the feature via SNMP.

Rate Limiting

CR_0000158994 Two new features have been implemented:

1. Guaranteed Minimum Bandwidth (GMB) on trunk interfaces

Up to now, it was not possible to configure GMB on aggregated interfaces (trunks). This has now been changed.

GMB allows a user to assign bandwidth percentages to a port's queues. The port queues will be serviced in descending order, up to the configured bandwidth percentage. When the configured limit has been reached, the software will service the next highest priority queue. When the queue has been fully serviced, but the limit has not yet been reached, remaining bandwidth will be offered to the next queue to be serviced. Any leftover bandwidth within a servicing window is then made available to the top priority queue.

It is also possible to configure 'strict priority queuing', which means that the highest priority queue might consume as much bandwidth as necessary, even if that will starve lower priority queues.

Note that even though GMB can now also be applied to a trunk, the actual GMB bandwidth percentages are applied to the physical ports that are a member of the trunk.

Configuring GMB on dynamic LACP trunks, Distributed Trunking interfaces, and Mesh ports will not be supported. The enhancement applies only to statically configured trunk ports.

2. Queue-based Rate Limiting for Egress Traffic

Rate Limiting percentages can now also be configured on a per-port queue basis and will be applied to the traffic exiting the port.

The following new CLI command has been implemented to configure the feature:

```
[no] interface <port | trunk > rate-limit queues out percent [<queue
%> <queue %> <queue %> <queue %> <queue %> <queue %> <queue %> ]
```

The following objects have been added to the HP-ICF-RATE-LIMIT-MIB in order to support the feature in SNMP:

```
hpEgressRateLimitPortQueueControlMode (.1.3.6.1.4.1.11.2.14.10.2.14.1.4.1.2.1.6)
hpEgressRateLimitPortQueueIndex (.1.3.6.1.4.1.11.2.14.10.2.14.1.4.1.5.1.1)
hpEgressRateLimitPortQueueMax (.1.3.6.1.4.1.11.2.14.10.2.14.1.4.1.5.1.2)
```

Version WB.15.15.0009

No enhancements were included in version WB.15.15.0009.

Version WB.15.15.0008

No enhancements were included in version WB.15.15.0008.

Version WB.15.15.0007

No enhancements were included in version WB.15.15.0007.

Version WB.15.15.0006

Audit Logging

CR_0000138477 Audit logging captures information including date, time, and outcome of an event, user identity, event start and stop timestamps, firmware versions, and begin and end of self tests, and includes that information in event log messages. For more information, see the *Management and Configuration Guide* for your switch.

Broadcast Storm

CR_0000126535 Port Shutdown With Broadcast Storm. Adds the `fault-finder broadcast-storm` command, with the option to disable the port for a configurable interval when a broadcast storm is detected. See "Port Trunking" in the *Management and Configuration Guide* for your switch.

Core Dump

CR_0000140258 All Task Core Dump. The core dump file now includes all tasks that are operating when the switch crashes.

Debug Capability

CR_0000132845 Additional Debug Capability. This enhancement adds tracking to identify possible switch hang situations during switch boot.

Inactivity Timer

CR_0000128427 Web User Interface Inactivity Timer. This new configuration command enables the administrator to set the idle timeout for the Web user interface, and provides a session timeout page to the user when the Web user interface session ends. See the *Management and Configuration Guide* for your switch.

Interface Authentication

CR_0000142449 Disable Username Prompts For Management Interface Authentication. This option allows the user to provide only the Manager or Operator password when logging into the switch, without first being prompted for username. When set, this option applies only if the switch uses default usernames for both Manager and Operator logins. See "Secure Shell (SSH)" in the *Access Security Guide* for your switch.

Password Length

CR_0000128426 Minimum Password Length. Adds a command to set the minimum password length for Manager, Operator, and Port-Access passwords. The minimum password length is enforced when passwords are added or updated. See the *Access Security Guide* for your switch.

Reporting

CR_0000139639 Task Usage Reporting. The task usage reporting feature provides the ability to collect and display CPU usage data (with a refresh rate of 5 seconds) of running tasks on the switch. See "Task Usage Reporting" in the *Management and Configuration Guide* for your switch.

Service Insertion

CR_0000145084 Service Insertion. This feature adds a programmatic interface (MIB) that allows SDN controllers to create a tunnel and direct traffic into the tunnel using OpenFlow rules. The tunneled packets can then be inspected and processed by external services, and might be returned to the switch via the tunnel for normal forwarding. See the *Service Insertion User's Guide*. (This enhancement was inadvertently omitted from the original WB.15.15.0006 list.)

Syslog Messages

CR_0000141040 Hostname in Syslog Messages. The switch can be configured to include its hostname as the source or "origin" for messages sent to a syslog server. For more information, see "Troubleshooting" in the *Management and Configuration Guide* for your switch.

TLS

CR_0000139306 Syslog Over TLS. This enhancement to the existing Syslog feature enables the use of the Transport Layer Security (TLS) protocol to deliver Syslog messages. See the *Management and Configuration Guide* for your switch.

Fixes

This section lists released builds that include fixes. Software fixes are listed in reverse-chronological order, from newest to oldest. Unless otherwise noted, each software version listed includes all fixes added in previous versions listed below.

NOTE: The number preceding the fix description is used for tracking purposes.

Version WB.15.15.0013

CLI

CR_0000163219 After issuing the CLI command `clear statistics global`, two problems might appear in the output of `show interface ethernet <port ID>`:

1. The values of Bytes Rx and Bytes Tx are no longer displayed as comma-separated values. This applies to counter values from 2,147,483,647 through 4,294,967,295. Other counters than the number of bytes sent and received also appear to be affected by the same display issue (for example, Unicast counters and Deferred Tx).
2. After entering `clear stat global`, the format of the output of `show interface ethernet <port>` shifts two places. The missing space might appear at Giant Rx – Late Collisions, but where the space is added can differ.

CR_0000172046 The commands `show lldp info local-device` and `show lldp info remote-device` sometimes fail to display the correct information when the switch is not connected to any remote device.

Config

CR_0000167908 When stacking is enabled, Manager and Operator passwords are set, and mirror-port or switch-interconnect are configured, the output of the command `show running-config` displays garbage entries, instead of Operator and Manager password configuration.

CR_0000170324 When a change is made from the CLI in the 'Switch Configuration – Port/Trunk Settings' Menu, the change is not saved, resulting in an Unable to save field error.

Crash

CR_0000148935 When open flow meters are configured, the switch crashes while executing the command `show openflow instance <inst> meters`.

CR_0000164064 When a free radius authenticated user attempts to HTTPS to the switch web management GUI of the 2530-24G, the switch crashes with Health Monitor: Read Error Restr Mem Access Task='tHttpd'.

CR_0000166340 An SNMP crash occurs during PCM discovery on 2620 and 2650, if an Avaya phone is connected to the switch that advertises an organizational OUI value 00-00-00 (all zeros), or any neighbor entry contains an all zero OUI type TLV, during walkmib on the switch.

Workaround: Change the lldp admin status to `txOnLy` on the link that is connected to the specific Avaya phone.

CR_0000168083 The switch may reboot unexpectedly at the point when an IGMP static group is created in the configuration if an IGMP join occurs to the same group address.

CR_0000168194 The switch may restart with the following error message similar to the following during a session logout, kill, or timeout: `Software exception crash at multMgmtUtil.c:151 -- in 'mOobmCtrl', task ID = 0x13b15e00-> Internal error.`

Link

CR_0000169819 When the switch is configured for Rapid-PVST (RPVST), any changes to port path cost takes effect properly. However, when the port is disabled and then re-enabled, the port path cost applied and also advertised to neighbors changes to the default path cost.

Routing

CR_0000162176 Under stress conditions, the switch sometimes enters a state where it does not send an ARP to a particular destination and it becomes unreachable on the customer network. Workaround/Proof of issue: Initiate a ping from the switch to the unreachable destination to restore connectivity to that destination through this switch.

Security Vulnerability

CR_0000166717 Login is permitted with the default username Manager, even when the Manager username has been changed to a custom username.

sFlow

CR_0000168606 Switch 5400R continues to send incorrect sFlow datagrams for non-existent ports after removing the module associated with these ports.

SFTP

CR_0000162987 Management modules go out of synchronization and fail to recover when large SFTP copies or a large number of SFTP copies are performed.

SNMP

CR_0000158713 When reading the MIB data for a PSU Product ID J number, the number displayed is truncated by one character.

Stacking

CR_0000170433 In a stacked configuration, if the MAC Authentication password is set to a password of exactly 16 characters (max length) and configuration saved, when the stack reboots, the member switch hangs during reboot.

Transceivers

CR_0000163290 Some SR J9150A and LRM J9152A transceivers show as NON-HP with K.15.07 and W.15.07 software.

Version WB.15.15.0012

802.1X

CR_0000164489 802.1X re-authentication period works if the client connects after the switch is booted. If, however, the switch reboots while clients are connected, it authenticates initially, but does not re-authenticate.

Certificate Manager

CR_0000164093 When an IDEVID certificate is being used to establish TLS connections with a CNM server, the existing signature algorithm has been updated from SHA-1 to DER, with new root certificate for the RA server.

CLI

CR_0000163218 The output of the CLI command `show interface ethernet <interface>` becomes misaligned when the value of `Total Rx (bps)` reaches 100,000,000. When the 9th digit is added to the value of `Total Rx`, the adjacent line in the output (`Total Tx (bps)`) is shifted one column farther.

Crash

CR_0000154769 The switch may reboot unexpectedly when the management interface is accessed via SSH and the `show tech all` CLI command is executed, or when the SSH session is idle following execution of the CLI command `show run` a few minutes earlier.

CR_0000170037 When a minimum TLS cipher suite version is enforced and a client negotiates a cipher suite, the switch might crash due to a watchdog timer expiry. The crash message may look similar to the following: `Software exception at bsp_interrupts.c:90 -- in 'fault_handler'.`

OpenFlow

CR_0000162736 When adding a rule entry to OpenFlow, a `TABLE_FULL ECodeFlowModeFailed` error can occur, even when there is space for additional rules.

PIM

CR_0000156038 The multicasts are flooded, causing a behavior equal to a broadcast storm, which causes high CPU utilization when `pim-sparse` neighbors are configured.

PoE

CR_0000146605 All the ports on a module fail to deliver power when a single controller fails.

Port Connectivity

CR_0000161856 If `ip igmp static-group <group-address>` is added to the switch configuration for any VLAN, then upon a warm or cold reboot of the switch, the switch does not establish a link on any Ethernet ports. This issue is also present on stand-alone 2920, with stacking disabled.

QoS

CR_0000162179 When attempting to remove a configuration line from a QoS policy, the switch returns `commit failed`. The customer cannot delete the line and has to reload the configuration to recover. Occurs when multiple policies are configured.

Routing

CR_0000162833 The IP RIP Route Change counter might increment every 30 seconds, even though there is no actual change taking place.

SSH

CR_0000159714 The output of the `display device` command over SSH displays incorrectly as a misaligned single line of output, due to no carriage returns between multiple lines. This occurs more frequently if the terminal width is set > 80 characters, when SSH senses the terminal settings on Login.

CR_0000165393 When the SSH client has a keepalive mechanism configured that requires a response from the SSH server on the switch, the SSH client terminates the session after the first keepalive packet is transmitted. This happens because the switch drops the client's keepalive packet due to an incorrect packet length calculation. This issue has been observed using an openSSH client with the `ServerAliveInterval` configured and the parameter `'want_reply'` enabled.

SSL

CR_0000162587 SSL Security vulnerability due to 56 bit DES-CBC-SHA. Due to security vulnerability the cipher DES-CBC-SHA is now unavailable.

Version WB.15.15.0011

Version WB.15.15.0011 was never released.

Version WB.15.15.0010

Accounting

CR_0000152920 When RADIUS or Syslog Accounting is configured, every time an `Accounting Start` or `Accounting Stop` message is sent to the Accounting Server, the switch generates an RMON event message that is logged in the Event Log and is sent as SNMP trap and Syslog message. The RMON messages are also logged for every Accounting user-level instead of only the service starting and stopping.

Certificate Manager

CR_0000159204 When a self-signed certificate is generated in the CLI, the certificate does not contain a valid start and end-date. This causes the certificate to be invalid, which causes problems establishing HTTPS sessions or using syslog over TLS. When the self-signed certificate is generated in the web interface, this problem does not occur.

CLI

CR_0000156237 When a user has enabled Spanning Tree in the CLI and configured a protocol version other than the default MSTP, the CLI Menu does not allow the user to modify Spanning Tree parameters. The menu indicates that the switch requires a reboot. When the switch is actually rebooted the same problem is present after the reboot.

CR_0000161668 After a user has changed the Spanning Tree Protocol Version to RPVST in the CLI Menu, the switch prompts the user to save the configuration and reboot the system to activate the changes. However, after saving and rebooting, those messages continue to be displayed.

Config

CR_0000145221 When a user enables Meshing, the software prompts the user to save the configuration and reboot the system. However, after saving the configuration, issuing the command to reboot the system causes the software to print the following redundant message: `Do you want to save current configuration [y/n/^C]?`

Crash

CR_0000149153 When an exceptionally large amount of IP Address Manager (IPAM) output is generated by the output of `show tech all` and captured using the `copy command-output CLI` command, the system might crash with the following message: `NMI event`

SW:IP=0x00147168 MSR:0x02029200 LR:0x00120f7c cr: 0x44000400
sp:0x04d60f30 xer:0x00000000 Task='mSess3' Task ID=0x4d59728.

CR_0000155066 The switch might reboot unexpectedly with a Software Exception message similar to: Software exception at stackingFile.c:2224 -- in 'mStackDatWriter', task ID = 0x3c953b00 -> Internal Error ID: 6382d706) when a lot of TFTP file transfers to an external TFTP server have occurred.

CR_0000156164 When a user disables or enables an OpenFlow instance and alters the switch's association with the OpenFlow controller, a switch might crash with a message similar to: Software exception at hwBp.c:218 -- in 'fault_handler', task ID = 0x3f602380 -> MemWatch Trigger: Offending task 'mOFctrlTask'

This problem can also occur when the switch is rebooted, in which case the crash message is: Software exception at hwBp.c:218 -- in 'fault_handler', task ID = 0x3c402380 -> MemWatch Trigger: Offending task 'swInitTask'.

The fix in this CR also addresses a problem with the values for current_speed and max-speed for 1 Gbps ports. The values can be incorrectly set to '3567587328 kbps'.

CR_0000159646 After enabling Control Plane Protection on a system that contains a module or stack member switch that has less than 24 ports, all modules in a chassis or all stack member switches crash repeatedly with the following message: Software exception at aqTcamSlaveUtils.c:2056 -- in 'mAsicUpd', task ID = 0x1b1e6780 -> Policy Engine: Port instance not on this slot.

CR_0000159764 Due to a semaphore deadlock with an unknown trigger, a switch might crash with a message similar to: NMI event HW:IP=0x0151dec4 MSR:0x02029200 LR:0x0151e468 cr: 0x20000800 sp:0x02f01460 xer:0x20000000 Task='tDevPollRx' Task ID=0xaa28000.

CR_0000162155 Configuring an OpenFlow instance using secure mode, enabling OpenFlow, and then configuring the lowest-version for OpenFlow might cause the switch to reboot unexpectedly. Other triggers include updating the tls lowest-version for an app for which a cipher is already configured, and executing the no tls app <app> lowest-version <ver> cipher CLI command. The crash message references a mem-watch trigger.

CR_0000162400 When the switch continuously attempts to transfer a file to a destination that returns an error; for example, because it runs out of space to store the file, the switch might eventually crash with the message: Software exception at hwBp.c:218 -- in 'fault_handler', task ID = 0x3c403380 -> MemWatch Trigger: Offending task 'mftTask'.

LLDP

CR_0000157298 When a PD sends an LLDP-MED TLV to a switch port in which the PD uses the invalid value of 0 Watts, the switch software actually applies the invalid 0 Watts. This causes the PD to reboot every time it transmits the 0 Watts in the TLV. The switch might log overcurrent warnings (00562 ports: port <port ID> PD Overcurrent indication) because the PD is already drawing power over the port when the software applies 0 Watts power. The value of 0 Watts in the TLV is henceforth rejected with the error Invalid power value 0 deciWatts received from MED PD on port <port ID>.

Memory

CR_0000150414 After a Flare OpenFlow controller sends flow modification packets to a switch that contains invalid zero-length action headers, the switch becomes unresponsive and eventually crashes with the following message: NMI event SW:IP=0x09f4e6ec MSR:0x02029200 LR:0x09f4efe4 cr: 0x88000800 sp:0x130ad738 xer:0x20000000 Task='eOFNetTask' Task ID=0x130add28.

OOBM

CR_0000160533 Packets of 1500 bytes or larger might be dropped when they are sent to a stack via a stack member's OOBM interface. This can result in various communication problems between an external host and the stack.

Rate Limiting

CR_0000163326 The guaranteed minimum bandwidth (GMB) feature and new feature Egress queue rate-limit are concurrent features. According to the design, we should not be able to configure Queue rate-limit values less than the GMB for each queue. This behavior is by design, but a special case was added to the software to allow a 0% rate-limit queue value in order to disable the feature.

CR_0000163327 A warning message designed for trunks is seen even if the user misconfigures the Egress Queue Rate-limit feature.

CR_0000163336 A configured rate-limit of 100% per queue is shown in the running config for 4-queue and 2-queue scenarios, but not in an 8-queue configuration.

CR_0000163745 Redundancy switchover on a switch impacts the default Guaranteed Minimum Bandwidth (GMB) implementation in 2-queue and 4-queue configurations.

CR_0000163748 When a new Queue Rate-limit configuration is saved on the 5400R zl series switch, the new configuration does not take effect when a redundancy switchover occurs. It does take effect when the switch is booted.

CR_0000163828 Traffic flow on lower-priority queues does not match the rate-limit queues configuration.

CR_0000164829 There is inconsistent CLI output in response to the `show rate-limit queues <port>` and the `show rate-limit queues` CLI commands when rate-limit queues are configured on a port and then the port is added to a trunk interface.

CR_0000163861 When the rate-limit configuration is removed from a trunk port using the `no rate-limit queues out` CLI command, the change does not take effect until a system boot occurs. Edits to the rate-limit occur immediately.

CR_0000163864 Rate-limit queue configuration of 100% for Queue 1 and 0% for other queues does not work as intended.

CR_0000163995 The switch allows configuration of rate-limit queues that are less than Guaranteed Minimum Bandwidth (GMB) profile for the same queue in a strict queuing scenario. The switch should not allow the rate limit to be less than the minimum bandwidth setting for any queue.

Redundant Management

CR_0000149253 When a switch stack or chassis with redundant management modules is rebooted, the system might not finish booting properly. The modules in the chassis or the stack member switches will appear to have completed the boot process, but all their ports remain down.

Self Test

CR_0000161371 When the switch is booting, the Out-of-band-management (OOBM) port might fail to initialize during self-test, resulting in the following message: `Switch Chassis needs replacement at scheduled downtime`. This is a software error and not a genuine hardware failure.

SNMP

CR_0000160352 The string value for the temperature sensor's instance of the object `entPhysicalName (.1.3.6.1.2.1.47.1.1.1.1.7)` is incorrectly set to **Chassis**. It should return **Chassis Temperature**.

SSH

CR_0000153145 When a user copies a large file from the switch to a server using the SFTP client on the switch, the file transfer might be prematurely interrupted because the session disconnects before the file transfer has been completed. When this occurs, the following message is recorded in the system's Event Log: `03311 sftp: AM1: User: SFTP connection failure while connecting from <ip address>`.

TFTP

CR_0000159058 When the switch is used as a TFTP server and configuration files are transferred from the switch to an external TFTP client, the software creates a temporary file in memory that is removed after the transfer has completed. However, the temporary file is not deleted when an error occurs during the file transfer. When repeated file transfers of configuration files fail, the temporary files accumulate and might deplete the available memory space. Once depleted, further file transfers fail and the switch might reboot unexpectedly (crash). Note that when the switch is rebooted, all temporary files are removed from memory.

Web Management

CR_0000160654 When 51 or more VLANs are configured on the switch, the web interface does not display any VLAN under the **VLAN Management** and **Multicast IGMP** tabs.

Version WB.15.15.0009

ARP

CR_0000152907 When a user changes the value of the ARP Cache Timer, the new value is applied to new ARP entries, but not to the ARP entries that already existed when the timer value was modified.

CLI

CR_0000145136 When the switch is configured with the **console event critical** setting, the event log output of `show tech all` lists only the critical events. With this fix, `show tech all` lists all event log entries.

CPU Utilization

CR_0000153428 With high volumes of routed IPv6 traffic, switch CPU utilization might remain at high levels for long periods of time. This issue is most prevalent with `v1 z1` modules.

CR_0000155359 Three-stack 3800 device CPU utilization went to 100% while configuring ARP protection for 4094 VLANs.

Config

CR_0000152418 Routing must be enabled before the Local Proxy-ARP feature can be configured, but when routing is removed from the config, the Local Proxy-ARP configuration is not removed.

Counters

CR_0000148671 The output of `show ip counters ipv6` gives incorrect values.

Crash

CR_0000146176 After receiving multiple route changes or route flaps in a short period of time, the switch might reboot unexpectedly with a message similar to `Software exception at krt.c:2134 -- in 'eRouteCtrl', task ID = 0xa9bc400 -> Routing Stack: Assert Failed`.

CR_0000151102 In a rare situation, after a failover to the Standby Management Module (SMM) or the stack's Standby switch, the switch might reboot unexpectedly with a message similar to

Software exception at asicMgrSlaveFilters.c:185 -- in 'mNSA', task ID = 0x1b1fea80 -> Internal Name Server Error.

CR_0000151340 Compressed core file is corrupted.

CR_0000152464 With a heavy volume of traffic through the Out of Band Management (OOBM) port, the switch might reboot unexpectedly with a message similar to Software exception at alloc_free.c:790 -- in 'mOobmCtrl', task ID = 0x13b15d00 -> buf already freed by 0x13B15E80, op=0x00000000Buffer.

CR_0000152930 After deleting the last of any configured Smart Link groups, the switch might reboot unexpectedly.

CR_0000153035 With MAC-based authentication and mixed-mode enabled on a port that has both authenticated and unauthenticated clients, a redundancy failover might cause the switch to reboot unexpectedly with a message similar to Software exception at btthwSrcBasedVlan.c:263 -- in 'mAdMUpCtrl', task ID = 0x1fecc6c0 -> ASSERT: failed.

CR_0000153386 When a large number of 802.1X clients are being authenticated, reconfiguring port security modes such as **learn-mode** might cause the switch to reboot unexpectedly with a message similar to Software exception at multMgmtUtil.c:88 -- in 'mPpmgrCtrl', task ID = 0x13b1f940 -> Internal error.

CR_0000154230 When copying a coredump from standby management module (SMM) or the stack's standby switch to a server via SCP, the switch might reboot unexpectedly with a message similar to hwBp.c:218 -- in 'fault_handler', task ID = 0x3c402380 -> MemWatch Trigger: Offending task 'mRfsCtrl'. Offending IP=0xa9712f0.

CR_0000154602 The switch experiences a loss of free memory for failed PEAP-MSCHAPv2 MAC-based authentication requests. When memory is no longer available, the switch will reboot unexpectedly with a message similar to Software exception at wma_peap.c:713 -- in 'mWebAuth', task ID = 0x1de85340 -> ASSERT: failed.

CR_0000155538 Disabling and re-enabling a port configured for Web or MAC-authentication during client authentication might cause the switch to reboot unexpectedly with a message similar to Health Monitor: Restr Mem Access HW Addr=0xb1ba0c1a IP=0x108682b8 Task='mWebAuth' Task ID=0x1de8c680 sp:0x12f98530 lr:0x10868664 msr: 0x0000b032 xer: 0x00000000 cr: 0x88000400.

CR_0000155604 When a CLI command is entered with a backslash as the last character and then the repeat command is issued, the switch might reboot unexpectedly with a message similar to Task mSess1 encountered an exception.

CR_0000155710 Sending an ICMPv6 echo request packet with multiple fragment headers to the switch causes an NMI crash.

CR_0000155750 When using MAC Authentication on the 2620, the following software exception might occur: wma_client_sm.c:1646 -- in 'mWebAuth', task ID = 0x1de85380.

CR_0000156908 A banner configured with more than 1048 characters causes the switch to go into a continuous "boot loop" when the switch is rebooted. The switch logs a message similar to Health Monitor: Invalid Instr Misaligned Mem Access HW Addr=0x54202800 IP=0x54202800 Task='swInitTask' Task ID=0xaa1a840 sp:0x2e288a0 lr:0x54202800 msr: 0x02029200 xer: 0x20000000 cr: 0x44000400.

CR_0000159294 Software exception at arenal_chassis_slot_sm.c:3374 -- in 'eChassMgr', task ID = 0x13b21a40.

File Transfer

CR_0000148584 A configuration file with a blank community name in the **snmp-server host** entry cannot be downloaded to the switch. Although the switch does not allow the **snmp-server host**

entry to be configured with a blank community name, earlier software bugs might cause this condition.

CR_0000153959 The core dump file cannot be transferred from the switch to an external device.

ICMP

CR_0000155702 The switch sends a ping request to a random IP address every 20 minutes.

IP Communication

CR_0000155717 Unresponsive OOBM interface after boot.

IP Phones

CR_0000157298 If an IP phone sends the switch an invalid power value of zero watts in an LLDP-MED TLV, the switch log shows `PD Over Current` indication and the phone might continuously reboot. This has been observed with the Avaya 9641G IP phone.

LLDP/PoE

CR_0000156145 2920 Stack with non-PoE commander fails LLDP negotiation of power management for PoE.

Memory

CR_0000152126 Issuing the `terminal length` or `terminal width` command causes a small loss of free memory.

Meshing

CR_0000155857 When enabling meshing on the device and then configuring IGMP, we get error message: `08/12/14 10:56:52 02413 igmp: Internal api IgmpInterface_getPortMode failed: bad port mode.`

Redundant Management

CR_0000155089 Issuing the `erase all` command on a switch configured for **redundancy management-module nonstop-switching** might cause the Standby Management Module (SMM) or the stack's standby switch to reboot continuously.

CR_0000156759 After redundancy switchover with boot command when modules have not finished booting, an internal buffer might become corrupted. This could possibly lead to a crash.

Routing

CR_0000155524 After issuing the `clear arp` command, traffic that is destined for the default router is routed via software, which causes poor performance.

Smart Link

CR_0000152346 Upstream switches do not flush the MAC and ARP entries after a Smart Link switchover.

CR_0000152422 After deleting the active Master port from a Smart Link group, the Slave port takes over but does not send flush packets.

CR_0000152432 When Spanning Tree is enabled after Smart Link is configured, the Smart Link ports incorrectly take part in Spanning Tree.

Stacking

CR_0000154380 A failover from Commander to Standby with multiple MSTP instances in operation might cause the stack members and connected devices to be unreachable.

Switch Hang

CR_0000154477 Attempting to apply a 32-character **local-mac profile** name to a 32-character **local-mac mac-group** name causes the switch to become unresponsive, requiring a reboot to recover.

TACACS

CR_0000155541 TACACS authentication is not working with encrypted credentials in FIPS devices.

Web Management

CR_0000148902 Web UI fails to load when using OOBM via Standby MM.

Version WB.15.15.0008

802.1X

CR_0000149780 Already-authenticated clients that send an EAPOL-Start message are de-authenticated by the switch. This situation happens if the client runs Windows Vista and later operating systems that are set to "include learning".

CLI

CR_0000145812 A new command `tcp-push-preserve` is added. This command is enabled by default, and causes TCP packets with the "push" flag to be sent before other packets in the queue. Note that high concentrations of TCP packets with push flags under certain conditions can destabilize your network. Use the `no` form of this command to disable the feature.

CR_0000148661 When the output of `show power-over-ethernet brief` displays a Detection Status of either Searching or Delivering for a port, the `show tech all "poe_status_port all"` section displays `Other Fault` as the "Detect Stat".

CR_0000149525 The switch incorrectly allows a user to enable stacking when more than four MSTP instances are configured.

CR_0000150144 The output of `show dhcp-relay bootp-gateway vlan <VLAN_number>` gives an incorrect BOOTP Gateway address for VLANs that are not configured for DHCP relay.

CR_0000152440 The output of `show tech all` halts while displaying `lmaDbUtil traverseLmaProfTbl`, with the message `=== The command has completed with errors. ===`.

Config

CR_0000149526 Enabling stacking on a switch that has a trunk configured creates an invalid entry for the trunk in the config file. The resulting configuration file cannot be downloaded to the switch.

Console

CR_0000148468 With a console cable connected to a stack member, if the user issues the `show tech all` command and then attempts to cancel the output by entering `<CTRL-C>`, the output pauses but then continues for a long time (up to 30 minutes for a five-member stack). Note that the fix has a small side-effect: Entering `<CTRL-C>` will cause a short delay before the console prompt returns.

Logging

CR_0000150244 Some RMON events are not correctly defined for fault-finder (FFI), SSL, and virus throttling, which causes the switch to report an error such as `system: Unknown Event ID 776` when those events occur.

Management

CR_0000149528 In some situations with multiple TELNET and/or SSH sessions established, the switch does not accept additional management sessions even if some of the existing ones are killed, responding with the message `Sorry`, the maximum number of sessions are active. Try again later.

PoE

CR_0000148808 After disabling PoE on one or more ports, the output of `show cpu slot <slot-number>` shows an increase in CPU utilization of 15% or more.

CR_0000147518 After reboot, pre-standard detection of PoE devices does not function correctly on a 2920 or 3800 stack, if the stack commander is a non-PoE switch.

sFlow

CR_0000152330 sFlow samples of packets transmitted by the switch have an incorrect value (0x3fffffff) for the output port.

SNMP

CR_0000149657 When using the `createAndWait` mode to set parameters via SNMP, multiple RADIUS servers cannot be configured.

CR_0000151035 The switch incorrectly reports that MIB object `entPhysicalsFRU = False` for removable fantrays, power supplies, and transceivers.

CR_0000152809 The switch accepts incorrect values in an SNMPv1 query, instead of generating an error message.

CR_0000154463 The switch incorrectly reports that MIB object `entPhysicalsFRU = False` for transceivers for some switches. This improves the original SNMP fix (CR_0000151035).

Stacking

CR_0000146890 When the stacking cable is removed from a two-switch stack, both switches show "Stack Status" of `Fragment Active`.

Switch Hang

CR_0000154152 If the switch is sending output to the console at the time the switch is rebooted, the switch might hang and not boot properly.

CR_0000154477 Attempting to apply a 32-character local-mac profile name to a 32-character local-mac mac-group name causes the switch to become unresponsive, requiring a reboot to recover.

Web Management

CR_0000149099 When Spanning Tree Protocol (STP) is enabled via the Web user interface, "mstp" is shown as the default STP mode, and "mstp" is displayed as the operational mode after the user enables STP and saves the change. However, the command line interface shows that the switch operates in "rpvst" mode. Workaround: From the Web user interface, use the dropdown menu to explicitly select "mstp" from the dropdown options, then save the change.

CR_0000149777 After a failover to the Standby Management Module (SMM) or the stack's standby switch, the Web user interface is not accessible via the Out of Band Management (OOBM) port.

Version WB.15.15.0007

Authentication

CR_0000148832 A switch configured with RADIUS authentication for primary login, and local authentication for secondary login fails to use local authentication when RADIUS servers do not respond. In that situation, the switch console is not accessible to valid users.

IP Phones

CR_0000137652 An IP phone that uses the “Automatic Port Synchronization” feature loses its IP address and possibly drops the current call. This has been observed when the switch is configured with the command `cdp mode pre-standard-voice`, and the PC to which the phone is connected goes into hibernation. In that situation the “Automatic Port Synchronization” feature causes the phone to drop and then re-establish link with the switch.

CR_0000147849 Alcatel phones might reboot unexpectedly when connected to a switch configured for IP phones to use MAC authentication and for PCs to use 802.1X authentication.

IPv6

CR_0000148594 IPv6 Router Advertisements that indicate an off-link prefix are not set as “preferred” in the switch, which causes incorrect information in the output of `show ipv6`, and can affect connectivity to hosts that use IPv6 Stateless Address Autoconfiguration. This issue also causes the sFlow “Agent Address” to be listed as 0.0.0.0.

Logging

CR_0000146773 In an IPv4 plus IPv6 environment, upon switch bootup the event log displays the set of source IP policy (“srcip”) messages twice. With this fix, IPv6 policy messages are distinguished from IPv4 policy messages.

sFlow

CR_0000147660 In an IPv6-only environment with Stateless Address Autoconfiguration, sFlow incorrectly uses the link-local address as the agent ID.

Version WB.15.15.0006

BPDU Protection

CR_0000144148 If VLAN 1 is not enabled on the link between a switch running rapid PVST and a switch running any Spanning Tree version, a rapid PVST switch configured for BPDU protection does not shut down the port when it receives a BPDU from the neighboring switch. However, the BPDUs are correctly dropped.

CLI

CR_0000143576 The switch does not allow users to configure a port with the setting `speed-duplex auto-10-100`.

CR_0000143652 The switch does not allow the `lockout-mac` command to be configured for a MAC address that is all zeros (000000-000000).

Config

CR_0000142393 Upgrading software from WB.15.11.xxxx to a newer version changes the `console inactivity-timer` from the configured value in minutes to that same value in seconds. Also, if the `console idle-timeout` value is set, after reboot the configured value is used for a console connection but not a TELNET connection.

CR_0000145562 A switch with an active radio port and configured with the command `lldp auto-provision radio-ports auto-vlan 2100` will move the radio ports into VLAN 2101 after a reboot. Similar errors occur for other `auto-vlan` numbers; after reboot the switch creates and uses a new VLAN instead of using the configured VLAN for radio ports.

Console

CR_0000140941 The `console inactivity-timer` setting is applied even if the user is typing on the console, when the console physical connection is to a stack member instead of the commander.

Counters

CR_0000141119 The output of `show ip counters` is incorrect when routing is enabled for IP, IPv6, or multicasts.

CR_0000142198 When a trunk configured for sFlow polling is simultaneously queried via SNMP, all counter values for the trunk are zero.

CR_0000143860 On a switch configured with rapid PVST and BPDU protection, the output of the command `show spanning-tree bpdu-protection` shows zero errant BPDUs received, even when the switch has disabled a port due to receiving a BPDU. This is a display issue only, both rapid PVST and BPDU protection function properly.

Crash

CR_0000136407 Entering the command `show tech all` or `show log -a` might cause the switch to reboot unexpectedly with a message similar to `Software exception at multMgmtUtil.c:88 -- in 'mLoopPTx', task ID = 0x3c8efa00 -> Internal error.`

CR_0000142238 From the menu, after selecting "Status and Counters" and "Port Address Table" for an active port, the switch might reboot unexpectedly with a message similar to `Read Error Restr Mem Access HW Addr=0x2020201c IP=0x4ee7ce8 Task='mSess1' Task ID=0xe087cc0 fp: 0x06cefc48 sp:0x06cefc20 cpsr: 0x2000001f dfsr: 0x00000005.`

CR_0000144879 The switch might reboot unexpectedly in these situations:

1. The switch is running 15.08 or earlier software, is configured to drop frames that have a destination address of 01:00:0c:cc:cc:cd, and has PVST filtering or PVST protection enabled. Then the switch is updated to 15.09 or later software.
2. The switch is running 15.09 or later software, is configured to drop frames that have a destination address of 01:00:0c:cc:cc:cd, and then PVST filtering or PVST protection is enabled.

The switch reboots unexpectedly with a message similar to `Software exception at btffLearn.c:2616 -- in 'mLpmgrCtrl', task ID = 0xa98a9c0 -> Mac Table Error.`

CR_0000145024 With local MAC authentication enabled, issuing the `show run` command causes a small decrease in the switch's available memory. Over time if memory becomes depleted, the switch might reboot unexpectedly with a message similar to `Software exception at cli_show_config.c:667 -- in 'mSess6', task ID = 0xa965540.`

CR_0000146306 The switch uses TCP connections internally for inter-process communication. In a situation where an internal loopback TCP socket pair receives stimulus after an extended period of idle time, the switch might reboot unexpectedly with a message similar to `NMI event SW:IP=0x00e20c1c MSR:0x02029200 LR:0x00e077d0 cr: 0x44000400 sp:0x02b03c58 xer:0x00000000 Task='InetServer' Task ID=0xab31000.`

CR_0000147367 After a PoE switch is removed from the stack, issuing the command `show power-over-ethernet brief` from the Commander might cause the Commander to reboot unexpectedly with a message similar to `Health Monitor: Read Error Restr Mem Access HW Addr=0x9f6a5cf8 IP=0x7d27d78 Task='mSess1' Task ID=0x13ac6900 fp: 0x0d8544d8 sp:0x0d8544cc cpsr: 0xa000001f.`

Display Issue

CR_0000140830 When `terminal length` is changed from the default of 24, the config file display is truncated, and the outputs of `show logging` and `show interfaces` might be interleaved in the output of `show tech all`.

Event Log

CR_0000136882 Several different "chassis" events use the same event ID = 374. With this fix, a unique event ID is used for each type of "chassis" event.

Fastboot

CR_0000141043 If the fastboot setting is changed by the user, and the switch experiences a power interruption or reboot while the new setting is being written to flash, upon bootup the MAC address on a switch or stack member might be erased. Note that this fix has a side effect: If the fastboot setting is changed by the user and the switch software is downgraded (changed to an earlier version), upon bootup the fastboot setting might revert to what it was before the user-initiated change, even though the switch reports that it has been changed. Workaround: Change the fastboot setting twice - first change it back to what it was before the user-initiated change, then change fastboot to the desired setting.

IGMP

CR_0000138408 Joins sent by clients in response to a Group Specific Query are not forwarded by the Querier, causing the clients to lose the stream.

CR_0000140514 After disabling IGMP forwarding on a port, multicast traffic incorrectly continues to flow from that port.

IPv6

CR_0000140467 The switch does not generate an event log message when IPv6 Neighbor Discovery (ND) detects a duplicate address.

LLDP

CR_0000140297 The PortID information is truncated at 25 characters, in the output of `show lldp info remote-device`.

Logging

CR_0000143781 When some events occur on a stack, if the event happens on the Standby switch, the switch fails to generate an event log entry, a syslog entry, or an SNMP trap. Examples are disconnecting the RPS cable, and removing a module from the back of the switch.

CR_0000144926 When some events occur on a stack, if the event happens on the Standby switch, the switch fails to generate an event log entry, a syslog entry, or an SNMP trap. This fix adds additional events to those included in the original Logging fix (CR_0000143781), also in 15.15 software.

Meshing

CR_0000143068 Multicast traffic and unicast traffic with unknown destination addresses are not routed over the mesh.

Mirroring

CR_0000144479 After copying a config file from an external device to the switch and booting with that config, the output of `show monitor` does not display any of the configured Network Monitoring sessions.

MSTP

CR_0000134194 With Spanning Tree enabled, configuring a live port as an `admin-edge-port` causes the output of `show run` to display a fixed path-cost for that port in the IST (for example, `spanning-tree instance ist 5 path-cost 20000`). Note that this is a display issue only, the switch uses the automatic path-cost based on the link speed.

Multicast

CR_0000138817 When a multicast stream is sent to a reserved multicast address, a General Query might not be forwarded by the switch, causing clients to be dropped from the multicast stream.

OpenFlow

CR_0000142663 The switch sends an error message to the controller in response to a multipart flow statistics request.

RADIUS

CR_0000138258 In some situations, the switch response to Change of Authorization and Disconnect Messages from the RADIUS server is sent from an incorrect source IP address, which the RADIUS server therefore ignores.

SNMP

CR_0000143599 The switch does not allow users to configure RMON alarms via SNMP. This issue was introduced with CR_0000112411.

CR_0000147370 After using SNMP to configure a RADIUS server on the switch, the switch does not allow a login until the switch is rebooted.

Spanning Tree

CR_0000143817 With a switch configured for MSTP, if the spanning tree mode is changed to `force-version rstp-operation` and then a second management module (or stack member) is inserted, the switch might reboot unexpectedly with a message similar to Health Monitor: Read Error Restr Mem Access HW Addr=0xe59ff10c IP=0x779004c Task='mMstpCtrl' Task ID=0x13af9740 fp: 0x0d372620 sp:0x0d372604 cpsr: 0x6000001f.

Stacking

CR_0000145211 The output of `show tech statistics` gives incorrect information for stack members.

Switch Hang

CR_0000146247 With both authentication and accounting enabled, the switch might become unresponsive to management, requiring a reboot to recover.

TELNET

CR_0000142571 While a user is being authenticated by a RADIUS server, issuing the `show access-list radius all` command from a TELNET session might cause the TELNET session to hang.

Web Management

CR_0000137933 When connecting to a switch via HTTPS across a slow link, after the user logs in the screen freezes and does not display the switch management page. This issue has been observed across a 512 kbps WAN link, using several different Web browsers.

Upgrade information

Upgrading restrictions and guidelines

WB.15.15.0013 uses BootROM WB.15.05. If your switch has an older version of BootROM, the BootROM will be updated with this version of software.

For more information about BootROM, see the *HP Switch Software Management and Configuration Guide* for your switch.

- ① **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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Contacting HP

For additional information or assistance, contact HP Networking Support:

www.hp.com/networking/support

Before contacting HP, collect the following information:

- Product model names and numbers
- Technical support registration number (if applicable)
- Product serial numbers
- Error messages
- Operating system type and revision level
- Detailed questions

HP 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.

To find security bulletins:

1. Go to the HP Support Center website at www.hp.com/go/hpsc.
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.

To initiate a subscription to receive future HP Security Bulletin alerts via email, sign up at:

www4.hp.com/signup_alerts

Related information

Documents

To find related documents, see the HP Support Center website:

www.hp.com/support/manuals

- Enter your product name or number and click **Go**. If necessary, select your product from the resulting list.
- For a complete list of acronyms and their definitions, see *HP FlexNetwork Technology Acronyms*.

Related documents

The following documents provide related information:

- *HP Switch Software Manual Supplement for A.15.15, RA.15.15, WB.15.15, and YA/YB.15.15*
- *HP Switch Software Basic Operation Guide*
- *HP Switch Software Feature Index — Extended*

Websites

- Official HP Home page: www.hp.com
- HP Networking: www.hp.com/go/networking
- HP product manuals: www.hp.com/support/manuals
- HP download drivers and software: www.hp.com/networking/software
- HP software depot: www.software.hp.com
- HP education services: www.hp.com/learn

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