

# HP 2520 Switches

## Software Version S.15.09.0025 Release Notes



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## Description

This software package contains an updated release of software for the HP 2520 switches.

For the latest version of these release notes and HP switch user guides, visit the HP Networking manuals web page:

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

1. In the first text box, type the product name (e.g. 2520) or product number.
2. Select an appropriate product that displays in the dropdown list.
3. Click the **Display Selected** button.
4. Click **Product support information**.
5. Click **Manuals**.

## Update Recommendation

Optional

## Supersedes

S.15.09.0022

## Product Models

HP 2520-8-PoE Switch (J9137A)  
HP 2520-24-PoE Switch (J9138A)

## Enhancements

S.15.09.0003 was the first S.15.09 software version for the HP 2520 switches. S.15 software includes some enhancements not found in S.14 software, listed below.

### Reporting Config Changes

- **Enhancement (PR\_0000069196, CR\_0000074531)** - This feature provides the ability to track and report information about switch management processes on a per-user, per-session basis. Syslog or RADIUS will be used for logging the information.

### MAC Limit Notify

- **Enhancement (PR\_0000073085, CR\_0000077875)** - The MAC Address Count feature provides a way to notify the switch management system when the number of MAC addresses learned on a switch port exceeds the permitted configurable number.

This section lists only the software versions that contain enhancements. Enhancements are listed in chronological order, from oldest to newest software version. Unless otherwise noted, each new software version includes all the enhancements added in previous versions.

Version S.15.09.0003

Terminal Line Width and Length

- **Enhancement (CR\_0000074537)** - For console/serial link and inbound telnet sessions, the switch output:
  - Uses whatever width is set by the terminal program. If width is not specified, 80 characters is the default.
  - Automatically wraps on word boundaries (such as spaces) for non-columnar output
  - Automatically wraps on column boundaries for columnar output

HP recommends that you do not set your terminal width (**terminal width <y>**) above 150 columns.

CDPv2 Transmit Capability

- **Enhancement (CR\_0000107011)** - When a Cisco VoIP phone boots up (or sometimes periodically), it queries the switch and advertises information about itself using CDPv2. The switch receives the VoIP VLAN Query TLV (type 0x0f) from the phone and then immediately sends the voice VLAN ID in a reply packet to the phone using the VLAN Reply TLV (type 0x0e). The phone then begins tagging all packets with the advertised voice VLAN ID.

## Prerequisites

### Operating System and Web Browser Compatibility

The switch Web agent supports the following combinations of OS browsers:

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

## Installation Instructions

The *Basic Operation Guide* for your switch provides software installation and management information on the following topics:

- downloading switch documentation and software from the Web
- saving configurations while using the CLI
- best practices for software updates

To access the guide, visit the HP Networking manuals web page. (Refer to [“Description” on page 3.](#))

## Fixes

Software fixes are listed in chronological order, from oldest to newest software version. Unless otherwise noted, each new software version includes all the software fixes added in previous versions.

S.15.09.0003 was the first S.15.09 software version for the HP 2520 switches.

### Version S.15.09.0004

Status: Released and fully supported, and posted on the web.

The following problems were resolved in software version S.15.09.0004.

- **Authentication (CR\_0000114832)** - On a port configured for authentication with a **logoff-period** longer than the MAC age time, authenticated clients that send no traffic might be de-authenticated at the MAC age time instead of the configured **logoff-period**.
- **CLI (CR\_0000115515)** - The switch does not allow configuration changes via the CLI, responding with the error message `inconsistent value`. This has been observed when the configuration includes **snmpv3 targetaddress TARGETADDRESS** with a **TARGETADDRESS** string longer than 24 characters.

- **Config (CR\_0000117518)** - A switch configured with a username and password and with **include-credentials** cannot be accessed after updating software, because the username is wrongly removed from the config file during the software update.
- **Crash (CR\_0000115929)** - With very large key sizes, the command **show crypto host-cert** might cause the switch to reboot unexpectedly with a message similar to the following.

```
Invalid Instr
HW Addr=0x00000000 IP=0x0 Task='mSess2' Task ID=0xa97ad40
sp:0x4acecc8 lr:0x57e468
msr: 0x02029200 xer: 0x20000000 cr: 0x28000400
```

- **Crash (CR\_0000116647)** - It is possible for the switch to reboot unexpectedly with a message similar to the following.
- ```
Software exception in kernel context at ghsException.c:1101
-> Internal system error
```
- **Multicast (CR\_0000107597)** - The switch floods GMRP (GARP Multicast Registration Protocol) packets that are received on Spanning Tree backup and alternate ports, instead of dropping the packets.
  - **SSL (CR\_0000115933)** - Under certain conditions, the VLAN -> VLAN Mgmt page on the switch cannot be accessed via an SSL connection to the web user interface.
  - **Web Management (CR\_0000108339)** - The switch's web user interface cannot be accessed via the fully-qualified domain name in some situations. Workaround: Use the IP address to access the switch's web user interface.

#### Version S.15.09.0005

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0005.

- **Crash Messaging (CR\_0000114843)** - The output of an NMI event crash wrongly shows pointer values to be all zeros.
- **Display Issue (CR\_0000118422)** - A MAC address that begins with a non-zero value is displayed incorrectly in CLI and Web interface output.
- **MSTP (CR\_0000117421)** - A trunk has the default MSTP port priority = 4. If the trunk is configured with a port priority = 8 (which is the default for non-trunk gigabit ports), after saving the configuration and rebooting the switch, that port priority is wrongly changed to 4.
- **MSTP (CR\_0000117473)** - With MSTP enabled and multiple instances configured, LACP is incorrectly blocked on ports connected to MSTP-blocked ports.
- **Port Security (CR\_0000114545)** - With port security enabled, the first packet received on the port is not forwarded by the switch. This can cause DHCP failures for clients that send only one DHCP Discover packet.

#### Version S.15.09.0006

Status: Never built.

#### Version S.15.09.0007

Status: Released and fully supported, and posted on the web.

The following problems were resolved in software version S.15.09.0007.

- **Authentication (CR\_0000109782)** - In some situations the switch stops sending RADIUS requests and client authentication fails.



- **SNMP (CR\_0000119914)** - Adds the ability to configure port security via SNMP. This was not available in earlier S.15.09 software versions.
- **TFTP (CR\_0000119184)** - The switch experiences a loss of free memory each time command output is copied to a TFTP server. When memory is no longer available, the TFTP will fail with a message similar to the following.
 

```
TFTP download in progress.
Failed to allocate a new TFTP client.
00000K Request failed.
```

#### Version S.15.09.0008

Status: Never built.

#### Version S.15.09.0009

Status: Never built.

#### Version S.15.09.0010

Status: Released and fully supported, but not posted on the web.  
The following problems were resolved in software version S.15.09.0010.

- **CPU (CR\_0000123333)** - After the switch has been booted or upgraded to an S.15.xx version, the device may become unresponsive due to high CPU utilization.
- **Display Issue (CR\_0000121028)** - Some MAC addresses are displayed incorrectly in the output of CLI commands **show lldp info remote-device** and **display lldp neighbor-information list**.
- **Multicast (CR\_0000110677)** - GMRP Frames should flood to the VLAN just as multicast traffic does but are not flooding as expected.
- **Spanning Tree (CR\_0000110052)** - In a topology with multiple MSTP regions and multiple same-cost links connecting the regions, the CST root port might change to a CST alternate port, and MSTP instances might be blocked on region boundary ports.
- **System (CR\_0000123647)** - At times, the switch is unable to process packets that require CPU processing, taking from a few seconds up to minutes to complete the process. Symptoms include recurring BDPU starvation, and Out of pkt buffers; miss count: 0 error messages.

#### Version S.15.09.0011

Status: Released and fully supported, but not posted on the web.  
The following problems were resolved in software version S.15.09.0011.

- **802.1X (CR\_0000122837)** - Clients have issues with authentication when 802.1X and MAC Authentication are both configured on a port.
- **IGMP (CR\_0000105902)** - IGMPv2 LEAVE processing functionality no longer works for a multicast group after receipt of IGMPv1 group specific membership query (GSMQ) packet when operating in IGMPv2 mode, even when **ip igmp forcedfastleave 1-24** is enabled.
- **SSH (CR\_0000122795)** - SSH session disconnects when the SSH key re-exchange takes place.

#### Version S.15.09.0012

Status: Released and fully supported, but not posted on the web.  
The following problems were resolved in software version S.15.09.0012.

- **Authentication (CR\_0000124607)** - Disconnecting an authenticated PC from an authenticated VoIP phone might cause the phone to lose its authentication. The phone must be disconnected from and then reconnected to the switch to recover.
- **Management (CR\_0000115882)** - The 2520-8-PoE Switch (J9137A) might become inaccessible to in-band management until the switch is rebooted. Note that the switch's console port is unaffected and works properly during the problem time.
- **SNMP (CR\_0000122623)** - After rebooting a switch configured for SNMP with the parameters **operator unrestricted**, the switch does not allow the user to set any read/write MIB objects.

### Version S.15.09.0013

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0013.

- **Crash (CR\_0000126799)** - Under unusual stress conditions, the switch might reboot unexpectedly with a message similar to `Software exception at fileTransfer.c:1144 -- in 'tHttpd', task ID = 0xa9389c0 -> Could not open file.`
- **Crash (CR\_0000127541)** - While providing output for some **show** commands, the switch experiences a gradual loss of free memory. When memory is depleted, the switch might reboot unexpectedly with a message similar to `Software exception at svc_misc.c:831 -- in 'mSess3', task ID = 0x5d9ff40 -> Failed to malloc 16472 bytes.`
- **Include Credentials (CR\_0000127700)** - With include credentials enabled, a config file that is saved to a TFTP server does not contain the SNMPv3 credentials.
- **Management (CR\_0000127197)** - The 2520-8-PoE Switch (J9137A) might become inaccessible to in-band management until the switch is rebooted. Note that the switch's console port is unaffected and works properly during the problem time. This improves the original Management fix (CR\_0000115882) in S.15.09.0012.
- **Web Management (CR\_0000125239)** - After logging into the switch Web user interface, closing the tab on some Web browsers does not log the user out of the Web session.

### Version S.15.09.0014

Status: Never released.

The following problems were resolved in software version S.15.09.0014.

- **Crash (CR\_0000122568)** - With SSL enabled, an attempt to download software via the Web interface might cause the switch to reboot unexpectedly with a message similar to: `NMI event SW: IP=0x006d1538 MSR:0x02029200 LR:0x006d19e4, cr: 0x28000800 sp:0x05197088 xer:0x20000000, Task=tHttpd Task ID=0xa955000.`
- **Crash (CR\_0000127335)** - In some situations, issuing the **show tech all** command might cause the switch to reboot unexpectedly with a message similar to `Length Corruption.`
- **DHCP (CR\_0000128754)** - If the switch is a DHCP client and the DHCP reply contains option 43 with sub-option codes that conflict with RFC 2132 options, the switch might use incorrect settings such as an incorrect subnet mask.
- **IGMP (CR\_0000127628)** - In a topology where the host connects to a querier, the querier connects to a non-querier switch, the non-querier switch connects to a router, and the multicast source is beyond the router, the host might not receive the multicast stream. This happens because a **join** from the host that is received by the querier is not forwarded by the non-querier switch.
- **IGMP (CR\_0000127974)** - If a switch receives a PIM packet while it is in the querier election state, the switch gives up the querier role and does not forward multicast traffic.

- **Link (CR\_0000127550)** - When two 2520-24 powered-on switches are connected via a 1 Gigabit copper link (using ports 25-28) and the ports are configured for Auto-MDIX, the link comes up, goes down, and stays down. If the switches are rebooted with the cable already connected, the problem does not occur.
- **Multicast (CR\_0000125558)** - Multicast streams sometimes stop after a few minutes. Disabling IGMP restores the multicast stream. Other qualifiers: IP Multicast Route table may still “see” the stream, and VLAN ingress port may show the stream exists while the same VLAN egress port might not.
- **PIM (CR\_0000128681)** - After a large number of multicast streams are added and old streams time out, the switch might get into a state where it is unable to add new multicast streams, responding with a message similar to `IpAddrMgr: Failed to allocate new SW IP multicast group, table full FIB entry.`

#### Version S.15.09.0015

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0015.

- **Authentication (CR\_0000114480)** - In some situations a client cannot be authenticated.
- **CLI (CR\_0000130897)** - Existing trap receiver entries might be overwritten by later entries.
- **GVRP (CR\_0000129917)** - When the switch receives its own GVRP frames, it learns from them instead of dropping the frames.
- **GVRP (CR\_0000130090)** - After rebooting the switch, the configuration **unknown-vlans disable** does not work on trunks.
- **Management (CR\_0000132070)** - Tagged packets sent to the switch agent with total Ethernet frame length = 64 bytes are not processed by the switch.
- **Multicast (CR\_0000130559)** - Multicast packets with destination addresses in the reserved ranges are sent twice from the switch. This affects IGMP and/or IPv6 packets.

#### Version S.15.09.0016

Status: Never built.

#### Version S.15.09.0017

Status: Never released.

The following problems were resolved in software version S.15.09.0017.

- **LLDP (CR\_0000132891)** - When an IP phone is connected directly to the switch, the output of the command **show lldp info remote-device** gives an incorrect value for the phone's IP address.
- **Loop Protection (CR\_0000127150)** - Loop protection fails to detect a loop on a port configured for 802.1X authentication, if 802.1X is not enabled globally.
- **Passwords (CR\_0000130921)** - If the switch is configured with a username and password, changing the password causes the username to also change. The username is changed to the default **manager** or **operator**, depending on which password is changed.
- **Trunking (CR\_0000132453)** - When the switch has a total of four ports configured as LACP trunks, some trunk members always have LACP status of **blocked**. For example, with a single 4-port trunk, three members are blocked. With two 2-port trunks, one trunk has one member blocked and the other trunk functions properly.

#### Version S.15.09.0018

Status: Released and fully supported, and posted on the web.

The following problems were resolved in software version S.15.09.0018.

- **Management (CR\_0000134091)** - Disabling write access to an SNMP community via the Web user interface might cause the switch to become unresponsive to command input. The switch must be rebooted to regain management access.
- **Passwords (CR\_0000134675)** - The switch does not automatically create a default username of **manager** or **operator** when a password is configured for those levels of access.

#### Version S.15.09.0019

Status: Never built.

#### Version S.15.09.0020

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0020.

- **Config (CR\_0000135481)** - After boot, a config file that has a trap destination community name with an open parenthesis "(" or a close parenthesis ")" cannot be downloaded to the switch.
- **Event Log (CR\_0000127436)** - After the switch uptime reaches 497 days, the timestamp entries in the event log become erratic with gaps of several hours or days. In some cases the timestamps revert to previous months and years, even though SNTP updates with those wrong timestamps report the correct date and time.
- **IGMP (CR\_0000132149)** - Although the RFC requires that the switch with the lowest IP address becomes querier, a switch that is acting as querier stops being querier when it receives a query from a switch with a higher IP address.
- **IGMP (CR\_0000135527)** - A non-querier switch that receives a Join from the querier fails to send further Joins to the querier, resulting in loss of multicast traffic.
- **MAC Authentication (CR\_0000129991)** - MAC Authentication fails when the **peap-mschapv2** parameter is included in the **aaa authentication** CLI command.
- **SNMP (CR\_0000129191)** - When an SNMP trap destination is set for "no destinations", the log reports an entry of unknown var type when the event happens. Also, when the SNMP trap destination is set for "trap receivers only", traps are not sent.
- **SNMP (CR\_0000134672)** - The entStateOper OID from the Entity State MIB gives an incorrect value of 1 (unknown) instead of 3 (enabled), for some switches.

#### Version S.15.09.0021

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0021.

- **Crash (CR\_0000115372)** - The switch might reboot unexpectedly with a message similar to NMI event  
SW:IP=0x00000000 MSR:0x00000000 LR:0x00000000 cr: 0x00000000 sp:0x00000000  
xer:0x00000000 Task='InetServer' Task ID=0xaad3000.
- **Crash (CR\_0000135900)** - In some situations it is possible for the switch to reboot unexpectedly with a message similar to Software exception at alloc\_free.c:646 -- in 'eDrvPoll', task ID = 0xa9a7a80  
-> buf already freed by 0x0A9A7D40, op=0x0006003E.
- **SSH (CR\_0000137266)** - After rebooting the switch many times, the Operator public key might erroneously be removed from the config file.
- **Stacking (CR\_0000121075)** - When stacking is enabled, the switch is accessible via the Web even after disabling the Web server, and via TELNET even after disabling TELNET.
- **Transceivers (CR\_0000140560)** - The port shows link, but no traffic passes through a J4858C Gigabit-SX transceiver when the port is configured for **1000-full** operation.

## Version S.15.09.0022

Status: Released and fully supported, and posted on the web.

The following problems were resolved in software version S.15.09.0022.

- **File Transfer (CR\_0000113260)** - Attempts to upgrade software via PCM (ProCurve Manager) fail. Also, actions taken via the Web user interface might experience delayed responses or timeouts.
- **SSH (CR\_0000114000)** - After rebooting the switch many times, the Operator public key might erroneously be removed from the config file.
- **SSH (CR\_0000137266b)** - This removes the CR\_0000137266 fix: After rebooting the switch many times, the Operator public key might erroneously be removed from the config file. Instead, this issue is fixed with CR\_0000114000.

## Version S.15.09.0023

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0023.

- **ARP (CR\_0000145065)** - ARP packets sent to a broadcast destination address are forwarded twice by the switch.
- **Config (CR\_0000138447)** - After a switch software update, SNMP community access privileges are incorrectly changed by the switch. The output of **show snmp-server** and the output of a **walkmib** command give different results, and neither output represents how the switch actually behaves for Manager or Operator access. This issue was introduced with CR\_0000122623; if the access settings were configured on a switch without the CR\_0000122623 fix, after updating to software with the CR\_0000122623 fix the settings are changed.

## Version S.15.09.0024

Status: Released and fully supported, but not posted on the web.

The following problems were resolved in software version S.15.09.0024.

- **Crash (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.
- **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.
- **TFTP (CR\_0000132721)** - Certain lines in the configuration file are sometimes incorrectly changed when imported via TFTP. For example, the configuration entry **snmp-server community public unrestricted** might have the unrestricted parameter removed when the configuration file is downloaded via TFTP.
- **Web Management (CR\_0000151179)** - After clicking "Save" without making changes, the Web user interface incorrectly changes VLAN members to be untagged. This happens after selecting "VLAN Mgmt", clicking "Change", and then clicking "Save" without making any changes. Also, the VLAN port membership is not correctly displayed in the Web user interface, which is a display issue; the correct VLAN port membership can be seen with the command line interface (CLI).

## Version S.15.09.0025

Status: Released and fully supported, and posted on the web.

The following problem was resolved in software version S.15.09.0025.

## Fixes

- **Crash (CR\_0000158589)** - When GVRP is configured and active, entering the command **no gvrp** might cause the switch to reboot unexpectedly with a message similar to Health Monitor: Restr Mem Access, HW Addr=0x7c7342ae IP=0x3cd640 Task='mGarpCtrl' Task ID=0x5dbf400sp:0x1dc2618 lr:0x3c4bd8 msr: 0x00009032 xer: 0x20000000 cr: 0x48000400.

## HP Switch, Routing Switch, and Router Products Software Keys

| Software Letter | HP Products                                                                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b>        | Switch 2615-8-PoE and Switch 2915-8G-PoE                                                                                                                                       |
| <b>C</b>        | 1600M, 2400M, 2424M, 4000M, and 8000M                                                                                                                                          |
| <b>CY</b>       | Switch 8100fl Series (8108fl and 8116fl)                                                                                                                                       |
| <b>E</b>        | Switch 5300xl Series (5304xl, 5308xl, 5348xl, 5372xl, 5304xl-32G, and 5308xl-48G)                                                                                              |
| <b>F</b>        | Switch 2500 Series (2512 and 2524), Switch 2312, and Switch 2324                                                                                                               |
| <b>G</b>        | Switch 4100gl Series (4104gl, 4108gl, 4140gl, 4148gl, and 4160gl)                                                                                                              |
| <b>H</b>        | Switch 2600 Series, Switch 2600-PWR Series: H.07.81 and earlier, or H.08.55 and greater,<br>Switch 2600-8-PWR requires H.08.80 or greater.<br>Switch 6108: H.07.xx and earlier |
| <b>I</b>        | Switch 2800 Series (2824 and 2848)                                                                                                                                             |
| <b>J</b>        | <b>J.xx.xx.biz</b> Secure Router 7000dl Series (7102dl and 7203dl)                                                                                                             |
| <b>J</b>        | <b>J.xx.xx.swi</b> Switch 2520G Series (2520G-8-PoE, 2520G-24-PoE)                                                                                                             |
| <b>K</b>        | 3500 Series, 3500yl Series, 5400zl Series, 6200yl-24G Switch, Switch 6600 Series (6600-24G, 6600-24G-4XG, 6600-24XG, 6600-48G, 6600-48G-4XG), and 8200zl Series Switches       |
| <b>KA</b>       | Switch 3800 Series                                                                                                                                                             |
| <b>KB</b>       | 5400R z12 Switch Series (5406R, 5406R-44G-PoE+/4SFP, 5406R-44G-PoE+/2SFP+, 5406R-8XGT/8SFP+, 5412R, 5412R-92G-PoE+/4SFP, and 5412R-92G-PoE+/2SFP+)                             |
| <b>L</b>        | Switch 4200vl Series (4202vl-72, 4202vl-48G, 4204vl, 4204vl-44G-4SFP, 4208vl, 4208vl-96, 4208vl-64G, and 4208vl-68G-4SFP)                                                      |
| <b>M</b>        | Switch 3400cl Series: M.08.51 though M.08.97, or M.10.01 and greater;<br>Series 6400cl Series: M.08.51 though M.08.95, or M.08.99 to M.08.100 and greater.                     |
| <b>N</b>        | Switch 2810 Series (2810-24G and 2810-48G)                                                                                                                                     |
| <b>P</b>        | Switch 1810G (1810G-8, 1810G-24)                                                                                                                                               |
| <b>PA/PB</b>    | Switch 1800G Series (Switch 1800-8G - PA; Switch 1800-24G - PB)                                                                                                                |
| <b>PK</b>       | Switch 1810-48G                                                                                                                                                                |
| <b>PL/PM</b>    | 1810 v2 Switches (1810-8G v2, 1810-24G v2 - PL; 1810-8 v2, 1810-24 v2 - PM)                                                                                                    |
| <b>PS</b>       | PS1810 Switches (PS1810-8G, PS1810-24G)                                                                                                                                        |
| <b>Q</b>        | Switch 2510-24                                                                                                                                                                 |
| <b>R</b>        | Switch 2610 Series (2610-24, 2610-48, 2610-24/12PWR, 2610-24-PWR, and 2610-48-PWR)                                                                                             |
| <b>RA</b>       | Switch 2620 Series                                                                                                                                                             |
| <b>S</b>        | Switch 2520 Series (2520-8-PoE, 2520-24-PoE)                                                                                                                                   |
| <b>T</b>        | Switch 2900 Series                                                                                                                                                             |
| <b>U</b>        | Switch 2510-48                                                                                                                                                                 |
| <b>VA/VB</b>    | Switch 1700 Series (Switch 1700-8 - VA and Switch 1700-24 - VB)                                                                                                                |
| <b>W</b>        | Switch 2910al Series                                                                                                                                                           |
| <b>WA</b>       | HP Access Point 530                                                                                                                                                            |
| <b>WB</b>       | Switch 2920 Series                                                                                                                                                             |
| <b>WM</b>       | HP Access Point 10ag                                                                                                                                                           |
| <b>WS</b>       | HP Wireless Edge Services xl Module and the HP Redundant Wireless Services xl Module                                                                                           |
| <b>WT</b>       | HP Wireless Edge Services zl Module and the HP Redundant Wireless Services zl Module                                                                                           |
| <b>Y</b>        | Switch 2510G Series (2510G-24 and 2510G-48)                                                                                                                                    |

| Software Letter       | HP Products                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>YA</b>             | 2530 Switches (2530-48, 2530-48-PoE+, 2530-8G, 2530-24G, 2530-48G, 2530-8G-PoE+, 2530-24G-PoE+, 2530-48G-PoE+, 2530-24G-2SFP+, 2530-48G-2SFP+, 2530-24G-PoE+-2SFP+, 2530-48G-PoE+-2SFP+) |
| <b>YB</b>             | 2530 Switches (2530-8, 2530-24, 2530-8-PoE+, 2530-24-PoE+)                                                                                                                               |
| <b>Z</b>              | HP 6120G/XG and 6120XG Blade Switches                                                                                                                                                    |
| <b><i>numeric</i></b> | Switch 9408sl, Switch 9300 Series (9304M, 9308M, and 9315M), Switch 6208M-SX and Switch 6308M-SX (Uses software version number only; no alphabetic prefix. For example 07.6.04.)         |





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