



HP 3500, 3500yl, 5400zl, 6200yl, 6600, and 8200zl Switches Software Version K.15.04.0009m Release Notes

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Visit the HP Networking Web site for more information on security and HP Networking products:

<http://h17007.www1.hp.com/us/en/solutions/security/index.aspx>

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Description

Version K.15.04.0009m is a Maintenance update on the K.15 Maintenance branch.

K.15.04.0007m was the first Maintenance version for the K.15 software branch. It was based on K.15.04.0007, and therefore has the same initial version number, except that the Maintenance version has an "m" suffix. After this initial Maintenance version, new enhancements, features, and support for new hardware will normally be added to the Current Product Engineering (CPE, or primary) branch only. Thus, the version numbering in the two branches (CPE or Maintenance) will not be synchronized after the first Maintenance version.

Maintenance branch software is recommended for users who want to:

- Standardize on a major software version after it has gained some maturity,
- Remain on a major version for an extended period of time to reduce time and expense of qualifying a new major version,
- Do not need to use new hardware or features that are not supported in Maintenance branch.

Within the same major version, users on the CPE branch can migrate to the Maintenance branch if the release on the Maintenance branch has the required feature and hardware support. For more information, refer to the HP switch user guides to K-software Releases.

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

1. In the first text box, type the product name (e.g. 8212) 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

K.15.04.0007m

Product Models

HP 3500-24 Switch (J9470A)
HP 3500-24-PoE Switch (J9471A)
HP 3500-48 Switch (J9472A)
HP 3500-48-PoE Switch (J9473A)
HP 3500yl-24G-PWR Intelligent Edge Switch (J8692A)
HP 3500yl-48G-PWR Intelligent Edge Switch (J8693A)
HP 3500yl-24G-PoE+ Switch (J9310A)
HP 3500yl-48G-PoE+ Switch (J9311A)
HP 5406zl Intelligent Edge Switch (J8697A)
HP 5406 zl Switch with Premium SW (J9642A)
HP 5412zl Intelligent Edge Switch (J8698A)
HP 5412 zl Switch with Premium SW (J9643A)
HP 5406zl-48G Intelligent Edge Switch (J8699A)
HP 5412zl-96G Intelligent Edge Switch (J8700A)
HP 5406zl-48G-PoE+ Switch (J9447A)
HP 5412zl-96G-PoE+ Switch (J9448A)
HP 6200yl-24G-mGBIC Switch (J8992A)
HP 6600-24G Switch (J9263A)
HP 6600-24G-4XG Switch (J9264A)
HP 6600-24XG Switch (J9265A)
HP 6600-48G Switch (J9451A)
HP 6600-48G-4XG Switch (J9452A)
HP 8206zl Switch (J9475A)
HP 8206 v2 zl Switch with Premium SW (J9640A)
HP 8212zl Switch (J8715A/B)
HP 8212 v2 zl Switch with Premium SW (J9641A)

Enhancements

K.15.04.0007m was the first Maintenance version for the K.15 software branch. It is based on K.15.04.0007, which includes all enhancements in K.15.04.0003 with no additional enhancements.

Below is a list of enhancements added in K.15 software and included in K.15.04.0007m. Please see the K.15.04.0003 or later Release Notes for complete details of these K.15.04.0003 enhancements.

Unless otherwise noted, each new software version includes all the enhancements added in previous versions.

- Flapping Transceiver Mitigation
- Module Reload (5400zl and 8200zl switches)
- Username and Password Size Increase
- Multicast ARP Support
- Display Configuration of Selected Interface
- Post-logon Banner Enhancement
- Support for the Tilde (~) Character in TACACS+ and RADIUS Keys
- Web Auth Deny Message
- Port Security Per-Port MAC Increase
- PoE with LLDP
- Increase MAC Auth Client Limit to 256
- Categorize CLI Return Messages
- Energy Efficient Ethernet (EEE)
- Custom Default Configuration
- SNMP Trap Upon Port Addition or Deletion of MAC Addresses
- Log Message When Startup Config Updated
- Show MAC with VLAN
- Outbound Queue Monitor
- Show OSPF Neighbor Timers
- IP Enable/Disable for All VLANs
- Logging for Routing ACLs
- Trunk Load Balancing Using L4 Ports
- Wake-on-LAN Support Across VLANs
- Syslog via TCP
- SNMP Trap on Running Configuration Changes
- Static Summary Route to RIP
- Dynamic Port Access Auth via RADIUS
- DHCPv6 Client Authentication Options Added
- SSH Client
- Encoded Version Information Added to Config File
- Fields Added to Authentication Requests
- Include RADIUS and TACACS Only Credentials
- OSPF Neighbor Shutdown Notification
- Accept CDP/LLDP Packets Tagged for VLAN 1
- Define Cost of LSA Type 3 Summarized Prefix
- Additional Support for zl Modules

Prerequisites

Operating System and Web Browser Compatibility

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

Operating System	Tested Web Browsers
Windows XP SP3	Internet Explorer 7, 8 Firefox 3.0, 3.5
Windows Vista SP2	Internet Explorer 7, 8 Firefox 3.0, 3.5
Windows Server 2003 SP2	Internet Explorer 7, 8 Firefox 3.0, 3.5
Windows Server 2008 SP2	Internet Explorer 7, 8 Firefox 3.0, 3.5
Windows 7	Internet Explorer 8 Firefox 3.0, 3.5
MAC OS	Firefox 3.0, 3.5

ROM Updates Required

BootROM updates are needed to be able to boot specified switch software versions. In most cases, selected software versions are used to automatically update the BootROM. Therefore, to successfully update to K.15 software, you may have to update software in multiple steps, depending on your current software and BootROM versions. Please use the steps in the table below.

If your software version is:	Your next step should be:
K.11.11 through K.12.29 (BootROM K.11.00 - K.11.03)	Update and reload into software version K.12.31 or K.12.62
K.12.31 through K.13.55 (BootROM K.12.12 - K.12.14)	Update and reload into software version K.13.58 or K.13.68
K.13.58 or newer (BootROM K.12.17 or newer; use show flash command)	Update directly into software version K.15.04.0009m (BootROM K.15.13)

If your switch is running a software version earlier than K.15, your BootROM will be updated when you upload K.15 software to your switch. During the software update, the switch will automatically boot twice, first to update the BootROM to the proper version, and then to load the system software. 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.**

Minimum Software Versions

For HP Series 3500, 3500yl, 5400zl, 6200yl, 6600 and 8200zl Switches and Hardware Features

HP Device ^{Note 1}	Product Number	Minimum Supported Software Version
HP 8-port 10GBase-T v2 zl Module	J9546A	K.15.04.0002
HP 3500yl-24G-PoE+ Switch	J9310A	K.15.02.0004
HP 3500yl-48-PoE+ Switch	J9311A	K.15.02.0004
HP 2-Port SFP+/2-Port CX4 10GbE yl Module	J9312A	K.15.02.0004
HP 24-port 10/100/1000 PoE+ v2 zl Module	J9534A	K.15.02.0004
HP 20-port 10/100/1000 PoE+ / 4-port SFP v2 zl Module	J9535A	K.15.02.0004
HP 20-port 10/100/1000 PoE+ / 2-port 10-GbE SFP+ v2 zl Module	J9536A	K.15.02.0004
HP 24-port SFP v2 zl Module	J9537A	K.15.02.0004
HP 8-port 10-GbE SFP+ v2 zl Module	J9538A	K.15.02.0004
HP 24-port 10/100 PoE+ v2 zl Module	J9547A	K.15.02.0004
HP 20-port Gig-T / 2-port 10-GbE SFP+ v2 zl Module	J9548A	K.15.02.0004
HP 20-port Gig-T / 4-port SFP v2 zl Module	J9549A	K.15.02.0004
HP 24-port Gig-T v2 zl Module	J9550A	K.15.02.0004
HP 12-port Gig-T / 12-port SFP v2 zl Module	J9637A	K.15.02.0004
HP 8206zl Switch Base System	J9475A	K.14.34
HP 24-Port 10/100/1000 PoE+ zl Module	J9307A	K.14.34
HP 20-Port 10/100/1000 PoE+/4-port MiniGBIC zl Module	J9308A	K.14.34
HP 24-port 10/100 PoE+ zl Module	J9478A	K.14.34
HP 5406zl-48G-PoE+ Switch	J9447A	K.14.34
HP 5412zl-96G-PoE+ Switch	J9448A	K.14.34
HP 3500-24 Switch	J9470A	K.14.31
HP 3500-24-PoE Switch	J9471A	K.14.31
HP 3500-48 Switch	J9472A	K.14.31
HP 3500-48-PoE Switch	J9473A	K.14.31
HP Switch 6600-48G	J9263A	K.14.24
HP Switch 6600-48G-4XG	J9452A	K.14.24
HP Switch 6600-24G	J9263A	K.14.03
HP Switch 6600-24G-4XG	J9264A	K.14.03
HP Switch 6600-24XG	J9265A	K.14.03
HP ONE Services zl Module	J9154A	K.13.51
HP Wireless Edge Services zl Module and the HP Redundant Wireless Services zl Module	J9051A and J9052A	K.12.43
Premium Features on Series 3500yl and 5400zl Switches	J8993A and J8994A	K.11.33

HP Device ^{Note 1}	Product Number	Minimum Supported Software Version
HP Switch 5400zl 24p Mini-GBIC Module	J8706A	K.11.33
HP Switch 5400zl 4p 10-GbE CX4 Module	J8708A	K.11.33
HP Switch 6200yl-24G-mGBIC	J8992A	K.11.33
HP Switch 3500yl 2p 10GbE X2 + 2p CX4 Module	J8694A	K.11.17
HP Switch 8212zl Base System	J8715A and J8715B	K.12.31
Note 1 For minimum software requirements for supported transceivers, visit www.hp.com/networking/support . <ul style="list-style-type: none"> – In the first textbox, type J4858 (for 100-Mb and Gigabit information), or J8436 (for 10-Gigabit information). – Select any of the products that display in the dropdown list. Click the Display selected button – Select Product support information. Then click on Manuals and find the Transceiver Support Matrix. 		

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 5.)

Issues and Suggested Actions

Version K.15.04.0007m

- **PoE (PR_0000060884)** - When using TFTP to copy a pre-K.15 configuration file onto a switch running K.15 software, if the value of **pre-std-detect** was "disabled" in the pre-K.15 config file, the value of **pre-std-detect** will be "enabled" after the file transfer. *Workaround:* manually disable **pre-std-detect** after the file transfer.
- **Services Module (PR_0000053005)** - In some cases the Services Module will initially fail to boot, but will then recover. During the initial boot failure, the switch Fault LED and the slot LED on the System Support Module will be lit, as well as the module status LED on the Services Module. After the module boots successfully, the Services Module LEDs will correctly indicate that it is functioning properly, but the switch Fault LED and slot LED on the System Support Module will incorrectly remain lit.
- **SFTP (PR_0000060656)** - When connecting to a switch via SFTP, if the user enters the command **ls/cfg**, the switch may appear unresponsive for a period of time. The console will recover, but it might be unresponsive for one minute or more.
- **Event Log (PR_0000060511)** - When the switch experiences a brief power outage, the event log might give erroneous indications regarding the cause and the results. Specifically, the switch might report that
 - a. the switch rebooted due to the reset button being pressed, and
 - b. the switch booted from secondary flash because primary flash is corrupt.
Both these indications are false. The output of show version confirms that the switch booted from primary flash and is running the software from primary flash.

Fixes

K.15.04.0007m was the first Maintenance version for the K.15 software branch. It is based on K.15.04.0007, which includes all fixes in K.15.04.0003, plus the fixes listed below. Please see the K.15.04.0003 or later Release Notes for a complete list of K.15.04.0003 fixes.

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

Version K.15.04.0007m

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

The following problems were resolved in software version K.15.04.0007m.

- **BootROM (PR_0000069773)** - This software version includes a BootROM update to BootROM version K.15.13.
- **Port Connectivity (PR_0000070355)** - When a v2 zl module port is forced to 100 Mbps full-duplex, the port toggles offline, online constantly.
- **Routing (PR_0000066531)** - In rare situations with a large number of topology changes, the switch might reboot unexpectedly with a message similar to the following.

```
Software exception at aspath.c:5058 -- in 'eRouteCtrl',
task ID= 0xa96b4c0 -> Routing Stack: Assert Failed
```

- **Switch Hang (PR_0000055888)** - Updating switch software from K.13 or K.14 to K.15.01 - K.15.04.0005 might, in a very small number of cases, result in the switch failing to boot after update. The system will hang after displaying the Decompressing...done message, and will not recover.
- **VRRP (PR_0000071139)** - With VRRP enabled, the backup router responds to proxy ARP requests. Also, the VRRP master responds to proxy ARP requests with its physical MAC address instead of the VRRP virtual MAC address.

Version K.15.04.0008m

Status: Never released.

The following problems were resolved in software version K.15.04.0008m.

- **ARP (PR_0000068610)** - After 497 days of system uptime, ARP cache entries might no longer age out.
- **Crash (PR_0000071284)** - Initiation of multiple consecutive SSH sessions may trigger an unexpected reboot with a message similar to the following:

```
OS Exception Task ID 0xa907440, tSsh0, exited.
```

- **PoE (PR_0000072106)** - The switch does not provide power to a Cisco VoIP 9951 keypad.

Version K.15.04.0009m

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

The following problems were resolved in software version K.15.04.0009m.

- **CLI (PR_0000073363)** - In some situations, using the CLI **kill** command causes the current telnet connection to become unresponsive.
- **Management (PR_0000066640)** - With multiple TELNET and SSH sessions running, the switch management might become unresponsive and require the switch to be reset or power cycled.

- **Module Crash (PR_0000059251)** - In some situations a switch module might reboot unexpectedly with messages similar to the following.

```
chassis: Slot X Read Error - Restricted Memory
Exception number: 0xdead0100
HW Addr=0x000000035 IP=0x000c48a8 Task='
chassis: Slot X Download Complete
chassis: Slot X Downloading
chassis: (87) Ports X: Blade Crash detected -Available
```

- **TELNET (PR_0000071780)** - The switch allows more telnet sessions than it should. When the maximum number of telnet sessions is exceeded, the sessions cannot be removed with the **kill** command and the switch must be rebooted to allow new telnet sessions.

HP Switch, Routing Switch, and Router Products Software Keys

Software Letter	HP Products
A	Switch 2615-8-PoE and Switch 2915-8G-PoE
C	1600M, 2400M, 2424M, 4000M, and 8000M
CY	Switch 8100fl Series (8108fl and 8116fl)
E	Switch 5300xl Series (5304xl, 5308xl, 5348xl, and 5372xl)
F	Switch 2500 Series (2512 and 2524), Switch 2312, and Switch 2324
G	Switch 4100gl Series (4104gl, 4108gl, and 4148gl)
H	Switch 2600 Series, Switch 2600-PWR Series: H.07.81 and earlier, or H.08.55 and greater, Switch 2600-8-PWR requires H.08.80 or greater. Switch 6108: H.07.xx and earlier
I	Switch 2800 Series (2824 and 2848)
J	J.xx.xx.biz Secure Router 7000dl Series (7102dl and 7203dl)
J	J.xx.xx.swi Switch 2520G Series (2520G-8-PoE, 2520G-24-PoE)
K	Switch 3500yl Series (3500yl-24G-PWR and 3500yl-48G-PWR), Switch 6200yl-24G, 5400zl Series (5406zl, 5406zl-48G, 5412zl, 5412zl-96G), Switch 8212zl and Switch 6600 Series (6600-24G, 6600-24G-4XG, 6600-24XG).
KA	Switch 3800 Series
L	Switch 4200vl Series (4204vl, 4208vl, 4202vl-72, and 4202vl-48G)
M	Switch 3400cl Series (3400-24G and 3400-48G): M.08.51 though M.08.97, or M.10.01 and greater; Series 6400cl (6400cl-6XG CX4, and 6410cl-6XG X2): M.08.51 though M.08.95, or M.08.99 to M.08.100 and greater.
N	Switch 2810 Series (2810-24G and 2810-48G)
P	Switch 1810G (1810G-8, 1810G-24)
PA/PB	Switch 1800 Series (Switch 1800-8G – PA.xx; Switch 1800-24G – PB.xx)
PK	Switch 1810-48G
Q	Switch 2510 Series (2510-24)
R	Switch 2610 Series (2610-24, 2610-24/12PWR, 2610-24-PWR, 2610-48 and 2610-48-PWR)
RA	Switch 2620 Series
S	Switch 2520 Series (2520-8-PoE, 2520-24-PoE)
T	Switch 2900 Series (2900-24G and 2900-48G)
U	Switch 2510-48
VA/VB	Switch 1700 Series (Switch 1700-8 - VA and 1700-24 - VB)
W	Switch 2910al Series (2910al-24G, 2910al-24G-PoE+, 2910al-48G, and 2910al-48G-PoE+)
WA	HP Access Point 530
WM	HP Access Point 10ag
WS	HP Wireless Edge Services xl Module and the HP Redundant Wireless Services xl Module
WT	HP Wireless Edge Services zl Module and the HP Redundant Wireless Services zl Module
Y	Switch 2510G Series (2510G-24 and 2510G-48)
Z	HP 6120G/XG and 6120XG Blade Switches
numeric	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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