Release Notes:
Version H.07.50 Software
for the HP ProCurve Series 2600 Switches *and the* Switch 6108

Release H.07.4*x* supports these switches:

- HP ProCurve Switch 2626 (J4900A)
- HP ProCurve Switch 2650 (J4899A)
- HP ProCurve Switch 2626-PWR (J8164A)
- HP ProCurve Switch 2650-PWR (J8165A)
- HP ProCurve Switch 6108 (J4902A)

These release notes include information on the following:

Software Update Notice

Check the HP ProCurve web site frequently for free software updates for the various HP ProCurve switches you may have in your network (see page 1).

Caution

The startup-config file saved under version H.07.31 or greater, is NOT backward-compatible with previous software versions. Users are advised to save a copy of the pre-H.07.31 startup-config file BEFORE UPGRADING to H.07.31 or greater, in case there is ever a need to revert to pre-H.07.31 software. Instructions for saving a copy of the startup-config file are found in the "Transferring Switch Configurations" section of Appendix A in the *Management and Configuration Guide* (included in PDF format on the Product Documentation CD-ROM) shipped with the switch, and also available on the HP ProCurve web site. (Refer to "To Download Product Documentation:" on page 1.)

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Applicable Product

HP ProCurve Switch 2626	(J4900A)
HP ProCurve Switch 2650	(J4899A)
HP ProCurve Switch 2626-PWR	(J8164A)
HP ProCurve Switch 2650-PWR	(J8165A)
HP ProCurve Switch 6108	(J4902A)

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http:// www.openssh.com.

SSL on HP ProCurve Switches is based on the OpenSSL software toolkit. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. For more information on OpenSSL, vistit

http:// www.openssl.org.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com)

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See the Customer Support/Warranty booklet included with the product.

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Contents

Software Management

Downloading Switch Documentation and Software from the Web

You can download software updates and the corresponding product documentation from HP's ProCurve web site as described below.

To Download a Software Version:

1. Go to HP's ProCurve web site at:

   http://www.hp.com/go/hpprocurve.

2. Click on **Software updates** (in the sidebar).
3. Under **Latest software**, click on **Switches**.

To Download Product Documentation: You will need the Adobe® Acrobat® Reader to view, print, and/or copy the product documentation. (HP recommends version 5.0 or greater.)

1. Go to HP's ProCurve web site at **http://www.hp.com/go/hpprocurve**.
2. Click on **Technical support**, then **Product manuals**.
3. Click on the name of the product for which you want documentation.
4. On the resulting web page, double-click on a document you want.
5. When the document file opens, click on the disk icon  in the Acrobat® toolbar and save a copy of the file.

Downloading Software to the Switch

Caution

The startup-config file generated by the latest software release may not be backward-compatible with the same file generated in your switch by earlier software releases. Refer to the "Caution" on the front page.

HP periodically provides switch operating system (OS) updates through the HP ProCurve web site (**http://www.hp.com/go/hpprocurve**). After you acquire the new OS file, you can use one of the following methods for downloading the operating system (OS) code to the switch:

- For a TFTP transfer from a server, do either of the following:
  - Click on **Download OS** in the Main Menu of the switch's menu interface and use the (default) **TFTP** option.
  - Use the **copy tftp** command in the switch's CLI (see below).
- For an Xmodem transfer from a PC or Unix workstation, do either of the following:
  - Click on **Download OS** in the Main Menu of the switch's menu interface and select the **Xmodem** option.
  - Use the `copy xmodem` command in the switch's CLI (page 4).
- A switch-to-switch file transfer

Note

Downloading a new OS does not change the current switch configuration. The switch configuration is contained in a separate file that can also be transferred, for example, for archive purposes or to be used in another switch of the same model and running the same software version.

This section describes how to use the CLI to download an OS to the switch. You can also use the menu interface for OS downloads. For more information, refer to the *Management and Configuration Guide* for your switch.

TFTP Download from a Server

Syntax: copy tftp flash < *ip-address* > < *remote-os-file* > [< primary | secondary >]

Note that if you do not specify the flash destination, the TFTP download defaults to the primary flash.

For example, to download an OS file named **H_07_xx.swi** from a TFTP server with the IP address of 10.28.227.103:

1. Execute the copy command as shown below:

```
HPswitch # copy tftp flash 10.28.227.103  H_07_xx.swi
Device will be rebooted, do you want to continue [y/n]?  y
00224K _
```

2. When the switch finishes downloading the OS file from the server, it displays this progress message:

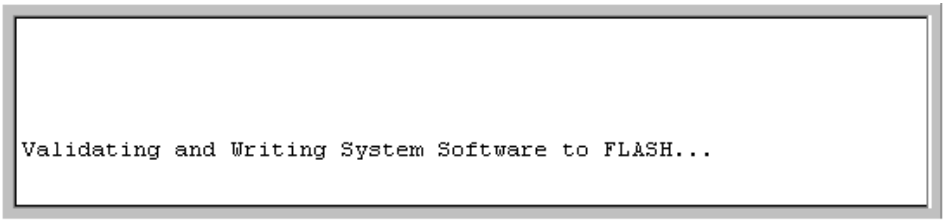


Figure 1. Message Indicating the Switch Is Writing the Downloaded Software to Flash Memory

3. After the switch writes the downloaded software to flash memory, you will see this screen:

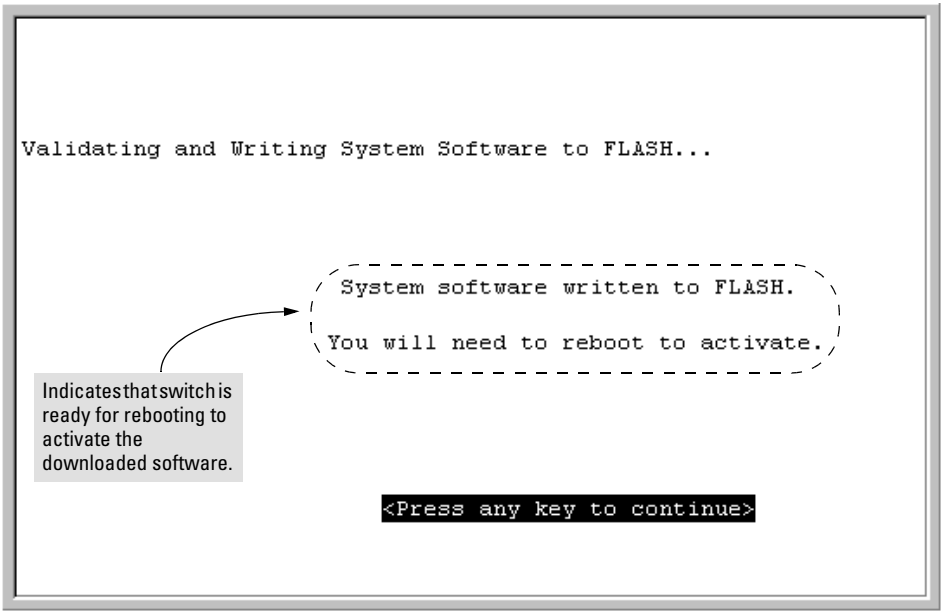


Figure 2. Message Indicating the Switch Is Ready To Activate the Downloaded Software

4. Reboot the switch.

   After the switch reboots, it displays the CLI or Main Menu, depending on the **Logon Default** setting last configured in the menu's Switch Setup screen.

Xmodem Download From a PC or Unix Workstation

This procedure assumes that:

- The switch is connected via the Console RS-232 port on a PC operating as a terminal. (Refer to the Installation Guide you received with the switch for information on connecting a PC as a terminal and running the switch console interface.)
- The switch operating system (OS) is stored on a disk drive in the PC.
- The terminal emulator you are using includes the Xmodem binary transfer feature. (For example, in the Microsoft Windows NT® terminal emulator, you would use the **Send File** option in the **Transfer** dropdown menu.)

Syntax: copy xmodem flash < unix | pc >

For example, to download an OS file from a PC:

1. To reduce the download time, you may want to increase the baud rate in your terminal emulator and in the switch to a value such as 57600 bits per second. (The baud rate must be the same in both devices.) For example, to change the baud rate in the switch to 57600, execute this command:

   ```
   HPswitch(config)# console baud-rate 57600
   ```

   (If you use this option, be sure to set your terminal emulator to the same baud rate.)

2. Execute the following command in the CLI:

   ```
   HPswitch(config)# copy xmodem flash pc
   Device will be rebooted, do you want to continue [y/n]?  y
   Press 'Enter' and start XMODEM on your host...
   ```

3. Execute the terminal emulator commands to begin the Xmodem transfer.

   The download can take several minutes, depending on the baud rate used in the transfer.

   When the download finishes, the switch automatically reboots itself and begins running the new OS version.

4. Use this command to confirm that the operating system downloaded correctly:

   ```
   HPswitch> show system
   ```

   (Check the **Firmware revision** line to verify that the switch downloaded the new OS.)

```
HPswitch# show system

Status and Counters - General System Information

 System Name         : HPswitch
 System Contact      :
 System Location     :

 MAC Age Time (sec)  : 300

 Time Zone           : 0
 Daylight Time Rule  : None

 Firmware revision   : H.07.31          Base MAC Addr      : 000a57-cee840
 ROM Version         : H.07.2X          Serial Number      : XX43783211

 Up Time             : 3 mins           Memory   - Total   : 19,964,696
 CPU Util (%)        : 9                         Free    : 16,275,576

 IP Mgmt  - Pkts Rx  : 0                Packet   - Total   : 1998
            Pkts Tx  : 279              Buffers     Free    : 1941
                                                    Lowest  : 1931
```

Firmware Revision

Figure 3. Using the Firmware Revision Line to Verify the Current OS Version

5. If you increased the baud rate on the switch (step 1), use the same command to return it to its previous setting. (HP recommends a baud rate of 9600 bits per second for most applications.)

   (Remember to return your terminal emulator to the same baud rate as the switch.)

Saving Configurations While Using the CLI

The switch operates with two configuration files:

- **Running-Config File:** Exists in volatile memory and controls switch operation. Rebooting the switch erases the current running-config file and replaces it with an exact copy of the current startup-config file. To save a configuration change, you must save the running configuration to the startup-config file.
- **Startup-Config File:** Exists in flash (non-volatile) memory and preserves the most recently-saved configuration as the "permanent" configuration. When the switch reboots for any reason, an exact copy of the current startup-config file becomes the new running-config file in volatile memory.

When you use the CLI to make a configuration change, the switch places the change in the running-config file. If you want to preserve the change across reboots, you must save the change to the startup-config file. Otherwise, the next time the switch reboots, the change will be lost. There are two ways to save configuration changes while using the CLI:

- Execute **write memory** from the Manager, Global, or Context configuration level.
- When exiting from the CLI to the Main Menu, press **[Y]** (for `Yes`) when you see the "save configuration" prompt:

```
Do you want to save current configuration [y/n] ?
```

HP ProCurve Switch Software Key

Software Letter	HP ProCurve Switch
C	1600M, 2400M, 2424M, 4000M, and 8000M
E	Series 5300xl Switches (5304xl, 5308xl, 5348xl, and 5372xl)
F	Series 2500 Switches (2512 and 2524), Switch 2312, and Switch 2324
G	Series 4100GL Switches (4104GL, 4108GL, and 4148GL)
H	Series 2600 Switches (2626, 2650, 2626-PWR, and 2650-PWR) and Switch 6108
I	Series 2800 Switches (2824 and 2848)
N/A	Series 9300 Switches (9304M, 9308M, and 9315M), Switch 6208M-SX and Switch 6308M-SX (Uses software version number only; no alphabetic prefix. For example, 07.6.04.)

Minimum Software Versions for Series 2600 and Switch 6108 Features

For Software Features. To view a tabular listing of major switch software features and the minimum software version each feature requires:

1. Visit the HP ProCurve web site at **http://www.hp.com/go/hpprocurve.**
2. Click on **Software updates**.
3. Click on **Minimum Software Version Required by Feature**.

If you are viewing this publication online, just click on the underlined text in step 3 to go directly to the "HP ProCurve Networking software updates" page. Click on **Minimum Software Version Required by Feature**.

For Series 2600 Switches and the Switch 6108 Hardware.

HP ProCurve Device	Minimum Supported Software Version
Switch 2626 (J4900A)	H.07.31
Switch 2650 (J4899A)	H.07.02
Switch 2626-PWR (J8164A)	H.07.41
Switch 2650-PWR (J8165A)	H.07.41
Switch 6108 (J4902A)	H.07.02

Clarifications

OS/Web/Java Compatibility Table

The switch web agent supports the following combinations of OS browsers and Java Virtual Machines:

Operating System	Internet Explorer	Netscape Navigator	Java
Windows NT 4.0 SP6	5.00 5.01 5.01, SP1 6.0, SP1	4.7 7.0 7.01	Sun Java 2 Runtime Environment, Ver. 1.4.1 Microsoft Virtual Machine 5.0.38.09
Windows 2000 SP3	5.01, SP1 6.0, SP1	7.0 7.01	
Windows XP Professional XP Hotfix SP2	6.0, SP1	7.0 7.01	

Correction to the Management and Configuration Guide

The switch allows one static route configured for a particular IP destination network. If you configure a static route to a given destination network and then later configure a different static route to the same destination, the switch replaces the first static route with the second. The section titled "Configuring Static IP Routes", below, replaces the section having the same title in the current version of the *Management and Configuration Guide* (HP part number 5990-6023, August 2003) for the switch series 2600, 2800, and 4100gl, and the Switch 6108 (pages 16-14 through 16-17).

Configuring Static IP Routes

The IP route table can receive routes from the following sources:

- **Directly-connected networks** – When you add an IP VLAN interface, the routing switch automatically creates a route for the network the interface is in.
- **Statically configured route** – You can add up to 16 routes directly to the route table. When you add a route to the IP route table, you are creating a static IP route. This section describes how to add static routes to the IP route table.

- **Default network route** – This is a specific static route that the routing switch uses if other routes to the destination are not available. Refer to "Configuring the Default Route" in the chapter titled "IP Routing Features" in the *Management and Configuration Guide* for your switch.

Static Route Types

You can configure the following types of static IP routes:

- **Standard** – the static route consists of the destination network address and network mask, and the IP address of the next-hop gateway.
- **Null (reject)** – the static route consists of the destination network address and network mask, and the **reject** parameter. Typically, the null route is configured as a backup route for discarding traffic if the primary route is unavailable. By default, when IP routing is enabled, a route for the 127.0.0.0/8 network is created to the null interface. Traffic to this interface is rejected (dropped). This route is for all traffic to the "loopback" network, with the single exception of traffic to the host address of the switch's loopback interface (127.0.0.1/32). Figure 2 on page 12 illustrates the default Null route entry in the switch's routing table.

Static IP Route Parameters

When you configure a static IP route, you must specify the following parameters:

- The IP address and network mask for the route's destination network.
- The route's path, which can be one of the following:
  - The IP address of a next-hop gateway
  - A "null" interface. In this case the routing switch invokes a "reject" parameter on a static route entry, which results in the switch dropping traffic forwarded to the null interface.

The switch automatically assigns a metric of "1" to an IP static route.

Static Route States Follow VLAN (Interface) States

IP static routes remain in the IP route table only so long as the VLAN interface used by the route is available. If the VLAN becomes unavailable (that is, if all ports in the VLAN are offline), the software removes the static route from the IP route table. If the VLAN later becomes available again, the software adds the route back to the route table.

This feature allows the routing switch to adjust to changes in network topology. The routing switch does not continue trying to use routes on unavailable paths but instead uses routes only when their paths are available.

Configuring a Static IP Route

To configure an static IP route with a destination network of 192.0.0.0 255.0.0.0 and a next-hop router IP address of 195.1.1.1, you would enter the following commands:

```
HPswitch(config)# ip route 192.0.0.0 255.0.0.0 195.1.1.1
HPswitch(config)# write memory
```

Syntax: ip route < *dest-ip-addr* > < *dest-mask* > < *next-hop-ip-addr* >

— *or* —

ip route < *dest-ip-addr* >/< *mask-bits* > < *next-hop-ip-addr* >

The < *dest-ip-addr* > is the route's destination.

The < *dest-mask* > parameter specifies the subnet mask for the routes destination IP address. Ones are significant bits and zeros allow any value. For example, the mask 255.255.255.0 matches all hosts within the Class C sub-net address specified by the < *dest-ip-addr* >. Alternatively, you can use CIDR notation and specify the number of bits in the network mask. For example, you can enter 209.157.22.0/24 instead of 209.157.22.0 255.255.255.0.

The < *next-hop-ip-addr* > is the IP address of the next router in the path to the destination.

Note

The switch allows one static route configured for a particular network destination. If you configure a static route to a given network and then later configure a different static route to the same network, the switch replaces the first static route with the second.

Configuring the Default Route

You can also assign a default route and enter it in the routing table. The default route is the route assigned to all traffic that has network destinations that are not in the local routing table. For example, if 208.45.228.35 is the IP address of your ISP router, all non-local traffic could be directed to that route by entering the commands:

```
HPswitch(config)# ip route 0.0.0.0  0.0.0.0  208.45.228.35
HPswitch(config)# write memory
```

Configuring a "Null" Route

You can configure the routing switch to drop IP packets to a specific network or host address by configuring a "null" static route for the address. When the routing switch receives a packet destined for the address, the routing switch drops the packet instead of forwarding it.

To configure a null static route to drop packets destined for network 209.157.22.0, enter the following commands:

```
HPswitch(config)# ip route 209.157.22.0  255.255.255.0  reject
HPswitch(config)# write memory
```

Syntax: ip route < *ip-addr* > < *ip-mask* > reject

— or —

ip route < *ip-addr* >/< *mask-bits* > reject

Using this command, the routing switch will drop packets that contain the specified IP address in the destination field instead of forwarding them. The **reject** parameter indicates that this is a null route. You must specify this parameter to make this a null route.

Displaying Static Route Information

The **show ip route** command provides several options for displaying route data.

Syntax: show ip route

Displays all IP routing entries configured on the switch.

static

Displays all static IP routing entries configured on the switch.

connected

Displays the network destinations directly connected to the switch. Includes the default loopback destination.

< *dest-ip-addr* >

Lists the route data for the network destination specified by < *dest-ip-addr* > .

For example, figure 1 illustrates a routing topology with two possible gateways to support a static route from switch “A” to the 10.31.224.0 network in switch “C”.

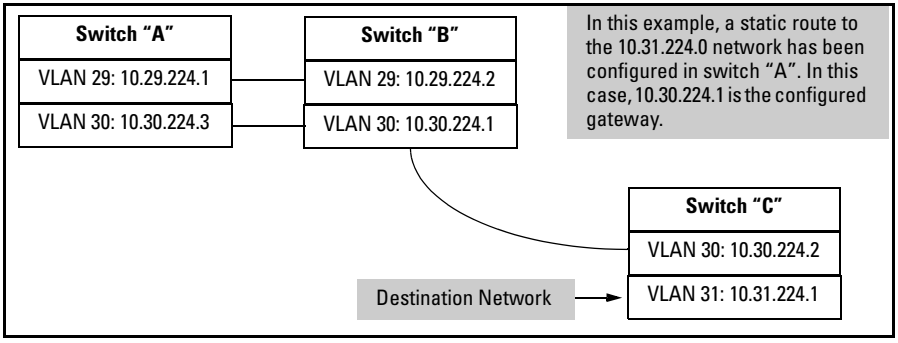
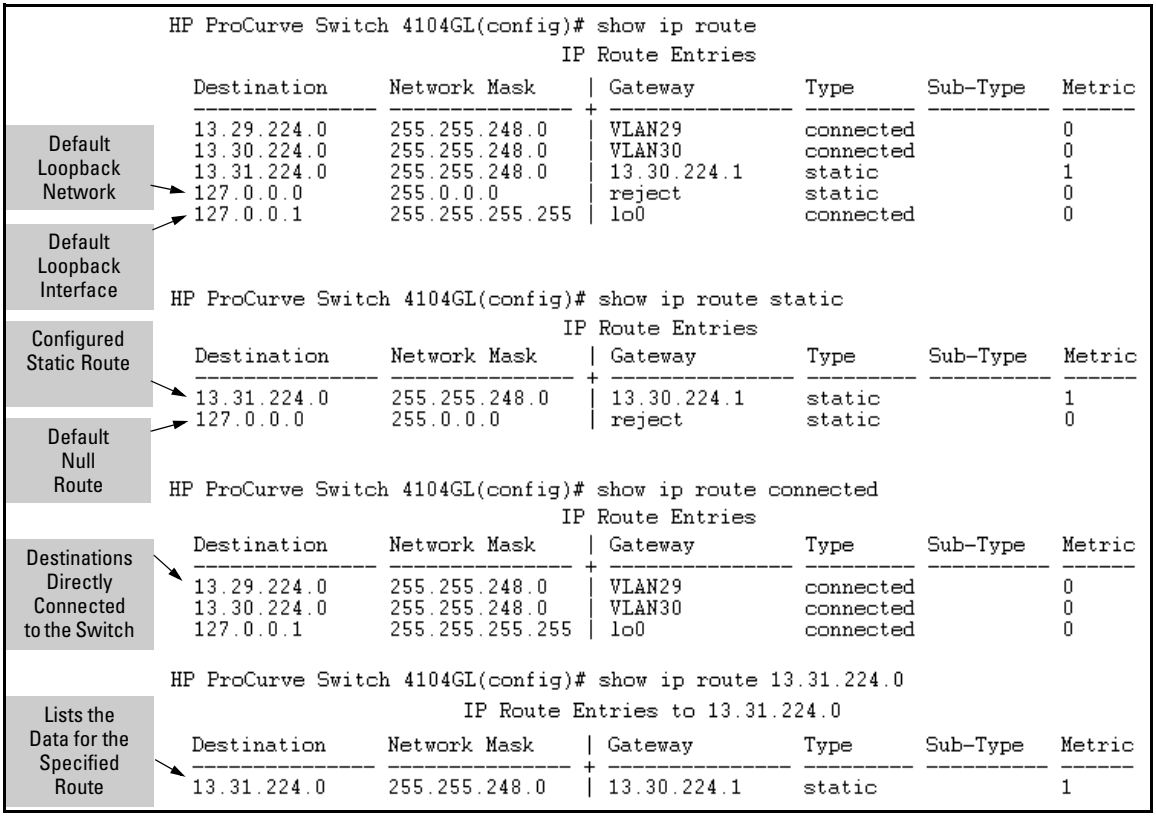


Figure 1 Example of a Routed Network

Figure 2 illustrates the **show ip route** output describing the routes available in the above topology.




```
HP ProCurve Switch 4104GL(config)# show ip route
                                IP Route Entries
  Destination     Network Mask    | Gateway         Type      Sub-Type   Metric
  --------------- --------------- + --------------- --------- ---------- ------
  13.29.224.0     255.255.248.0   | VLAN29          connected              0
  13.30.224.0     255.255.248.0   | VLAN30          connected              0
  13.31.224.0     255.255.248.0   | 13.30.224.1     static                 1
  127.0.0.0       255.0.0.0       | reject          static                 0
  127.0.0.1       255.255.255.255 | lo0             connected              0

HP ProCurve Switch 4104GL(config)# show ip route static
                                IP Route Entries
  Destination     Network Mask    | Gateway         Type      Sub-Type   Metric
  --------------- --------------- + --------------- --------- ---------- ------
  13.31.224.0     255.255.248.0   | 13.30.224.1     static                 1
  127.0.0.0       255.0.0.0       | reject          static                 0

HP ProCurve Switch 4104GL(config)# show ip route connected
                                IP Route Entries
  Destination     Network Mask    | Gateway         Type      Sub-Type   Metric
  --------------- --------------- + --------------- --------- ---------- ------
  13.29.224.0     255.255.248.0   | VLAN29          connected              0
  13.30.224.0     255.255.248.0   | VLAN30          connected              0
  127.0.0.1       255.255.255.255 | lo0             connected              0

HP ProCurve Switch 4104GL(config)# show ip route 13.31.224.0
                          IP Route Entries to 13.31.224.0
  Destination     Network Mask    | Gateway         Type      Sub-Type   Metric
  --------------- --------------- + --------------- --------- ---------- ------
  13.31.224.0     255.255.248.0   | 13.30.224.1     static                 1
```

Figure 2 Examples of the Show IP Route Command

Enhancements

Unless otherwise noted, each new release includes the enhancements added in all previous releases.

Release H.07.50 Enhancements

Software fixes only; no new enhancements.

Release H.07.46 Enhancements

Software fixes only; no new enhancements.

Release H.07.45 Enhancements

Release H.07.45 provides support for the HP ProCurve 600 Redundant and External Power Supply (J8168A). This enhancement only applies to the 2600-PWR switches (J8164A and J8165A). To use the EPS power support from an HP ProCurve 600, you must upgrade the software on your 2600-PWR switches to H.07.45 or later.

If an HP 600 EPS cable is connected to a 2600-PWR running software releases prior to H.07.45, the FAULT LED and EPS status LED will flash, and the error log will contain the following message:

```
W 01/01/90 00:01:25 chassis: EPS not supported by switch code. Please
update.
```

Release H.07.41 Enhancements

Release H.07.41 was the first release for the 2600-PWR Switches, 2626-PWR (J8164A) and the 2650-PWR (J8165A). The 2600-PWR Switches provides 802.3af compliant Power over Ethernet (PoE) capabilities. This software remains backward compatible and runs on the Series 2600 Switches and the Switch 6108.

Release H.07.32 Enhancements

Software fixes only; no new enhancements.

Release H.07.31 Enhancements

To Locate Publications Supporting H.07.31 Features:

1. Go to HP's ProCurve web site at **http://www.hp.com/go/hpprocurve**.
2. Click on **Technical support**, then **Product manuals**.
3. Click on the name of the product for which you want documentation.
4. Select the document indicated in the enhancement description (table 1) for the desired feature.

(HP recommends periodically visiting the HP ProCurve web site to keep up-to-date with the latest documentation available for the HP ProCurve Series 2600 Switches and the Switch 6108.)

Table 1. Release H.07.31 Enhancements

Enhancement	Overview
Software Support for New HP ProCurve Switch 2626	Release H.07.31 supports the new, stackable HP ProCurve 2626 Switch offering 24 auto-sensing 10/100 ports plus 2 dual personality ports for 10/100/1000 or mini-GBIC connectivity. If you are viewing this document online, click here to visit the HP ProCurve web site for more information.
SSL	Provides Secure Socket Layer (SSL) transactions for Web management access. This allows the switch to authenticate itself to the user and to establish a secure connection. Includes support for self-signed and CA signed certificates to allow administrators to choose the level of security required.[1]
SSHv2	Updates SSH to support SSHv2, allowing PEM-encoded keys and greater compatibly with SSH client software.[1]
802.1x Open VLAN Mode	Adds flexibility for clients lacking 802.1x supplicant software, plus an additional provision for controlling access by authenticated clients.[1]
Debug and Syslog Messaging Operation	The Debug/Syslog feature provides a method for recording messages useful for debugging network-level problems such as routing misconfigurations and other protocol details.[2]
Port-Security Option for Configuring Allowed MAC Addresses	Adds the **configured** option to **port-security learn-mode** to allow a port to add only specifically configured MAC addresses. Using this option, a switch port does not automatically learn non-specified MAC addresses from the network.[1]
SNMPv3 Access	The Series 2600 switches and the Switch 6108 now support SNMPv3 to enhance the security of SNMPv3 traffic. It includes authentication and/or encryption of management traffic configurable at the operator's discretion.[2]
IGMPv3 Support	Adds support for the IGMPv3 Join request.[2]
Additional Outbound Port Queue	Adds a fourth outbound port queue.[2]

[1] Refer to the *Access Security Guide* for the HP ProCurve Series 4100 Switches, Series 2600 Switches, and the Switch 6108, Edition 1—5990-5995, May 2003 (or later) on the HP ProCurve web site.

[2] Refer to the *Management and Configuration Guide* for the HP ProCurve Series 4100 Switches, Series 2600 Switches, and the Switch 6108, Edition 1 — 5990-5998, May 2003 (or later) on the HP ProCurve web site.

Release H.07.03 Enhancements

Software fixes only; no new enhancements.

Release H.07.02 Enhancements

Release H.07.02 was the original software released to support the HP ProCurve Switch 2650 and the Switch 6108.

Software Fixes in Releases H.07.*xx*

Release H.07.50

Release numbers H.07.47 through H.07.49 were never released.

Problems Resolved in Release H.07.50

- **CLI (PR_82086)** — Command **show mac <mac-address>** does not work.
- **CLI (PR_1000005082)** — If GVRP is enabled, an incorrect error message of `Commit Failed` is generated when trying to add more than the configured "max vlans" in the CLI. The proper error message should be `Maximum number of VLANs (max-vlans) has already been reached`. Dynamically created VLANs were not being included in the count.
- **Crash(PR_1000012823)** — OpenSSL vulnerability addressed.
- **Flow Control (PR_98957)** — Flow Control mechanism was not generating Pause frames.

  Limitations for this fix:

  Due to interactions with setting QoS priorities on inbound packets, some packets will be dropped in order to preserve the Queue Priorities when a 4:1 or higher oversubscription of 100- or 1000-Mbps ports have streams flowing to another 100- or 1000-Mbps port.

  100-Mbps ports to 10-Mbps ports works correctly.

  Workaround: Do not use Flow Control and QoS priorities simultaneously.

  2650 (J4899A) and 2650-PWR (J8165A) switches only:

  If an ingress port in the range of ports 1-24 and 49 are overflowing an egress port in the range of 25-48 and 50, a Pause Frame will NOT be generated out the ingress port.
- **Link (PR_1000020645)** — 2626 port 25 with a fiber link does not work after reset; also applies to the 6108 port 7.
- **PoE (PR_1000004040)** — Event log message `system: PoE controller selftest failure` occurs when a system is rebooting while powered by an external power supply (HP 600, J8168A).
- **RMON (PR_1000011690)** — When RMON thresholds in the switch are exceeded, no trap is generated.

- **Web (PR_1000003580)** — In the Diagnostics/LinkTest page, the web interface allows broadcast/multicast MAC destination addresses. The CLI does not allow them. For consistency and because they should not be used, the web interface should be changed to not allow them either.
- **Web (PR_1000004111)** — Stack Management view, scrolling problem.
- **Web (PR_1000007144)** — VLAN Configuration help link is not available.

Release H.07.46

Problems Resolved in Release H.07.46

- **(PR_1000004025)** — System Uptime counter wrapped in approx. 49 days.

Release H.07.45 (Never Released)

Release numbers H.07.42 through H.07.44 were never created.

Problems Resolved in Release H.07.45

- **CLI (PR_97671)** — Uncertain error message when trying to add more than the maximum VLANS
- **Crash (PR_95525)** — Switch is crashing with a bus error from the instrumentation data structure.

  Crash msg: `Bus error: HW Addr=0xe1f08796 IP=0x003a51b4 Task='mInstCtrl' Task I D=0x1767af8 fp: 0x00000006 sp:0x01767988 lr:0x003979a4`
- **IP Stacking(PR_97323)** — back-of-box stacking support for all current stackable products
- **Port Security (PR_98193)** — "port-security learn-mode configured "is not working properly
- **RSTP (PR_1000001612)** — Port takes ~30 seconds to go into the Forwarding state
- **Web (PR_81848)** — Clear changes button does not work for the Default Gateway or VLAN selections
- **Web (PR_82039)** — When using the web agent and you select GVRP mode, a user can select a port and then select nothing as an option for the port mode and all ports below the selected port disappear.
- **Web (PR_82199)** — VLAN port modification shows misleading mode
- **Web (PR_92078)** — After making changes under the Device Features tab, web page never fully loads.

- **Web Mgmt Crash(PR_92826)** — Commander switch for IP-stack / Web Mgmt Crash of commander. With an eight switch IP stack, using the Web interface can cause the commander switch to crash. If the user-administrator using the WEB interface selects options too quickly or moves from one option to another, the web agent can freeze and become unresponsive. The commander can also crash with a Bus Error. Telnet and console interfaces both can also become unresponsive.
- **Web (PR_97407)** — Port security error message is unclear with mac lockdown feature
- **Web (PR_98500)** — Browser window spontaneously closes
- **Web (PR_1000000452)** — when you reset a device using the Web Browser, the refreshed page returns to a incorrect URL.

Release H.07.41

Release numbers H.07.33 through H.07.40 were never created.

Problems Resolved in Release H.07.41

- **Bridge Management (PR_82358)** — Switch was not forwarding multicast packets with address of 01-80-C2-00-00-10 reserved for Bridge Management functions.
- **Crash (PR_95850)** — software exception in ISR at hardware.c:3871
- **Link (PR_ 96223/95598)** — Mini-GBIC ports that were configured to a forced speed/duplex (vs. 'auto' mode) were incorrectly reporting Link state when there were no fiber links connected.
- **Management (PR_92720)** — Switch 'show CPU' reports 136 percent busy. The calculation for CPU busy was being performed incorrectly.
- **Port Security (PR_88612)** — Port security enabled via the MIB hpSecPtLearnMode was improperly filtering a host MAC entry, when the entry was removed via the CLI, SNMP or Web interface.
- **Web (PR_82652)** — Web agent showing disabled ports as "Port Not Connected."

Release H.07.32

Problems Resolved in Release H.07.32

- **Agent Hang (PR_92802)** — The switch may become unresponsive or hang due to UDP port 1024 broadcast packets never being freed, after the TIMEP and SNTP clients are disabled on the switch.

- **VLAN (PR_92466)** — The switch may experience a Bus error related to 802.1X/unauthorized VLAN. The Bus error is similar to:

```
Bus error:  HW Addr=0x3861000c IP=0x002df470 Task='mAdMgrCtrl'

Task ID=0x16e616 0 fp: 0x006a090c sp:0x016e5df0 lr:0x0021d6d8
```

- **Web Browser (PR_90068)** — There is a Netscape 4.7, 7.0, and 7.1 problem when changing any attribute in the stacking menu. After clicking 'OK', Netscape returns error "The document contains no data. Try again later."

Release H.07.31

Release numbers H.07.04 through H.07.30 were never created. Release H.07.31 is the first software release for the HP ProCurve Switch 2626.

Problems Resolved in Release H.07.31

- **CLI (PR_81948) —** A duplicate "enable" command is present in the Interface Configuration text within the CLI.
- **CLI (PR_82475) —** Within the CLI, the "ip" auto-extend help text for "source-route" is incorrect.
- **Config / Switch Management (PR_89846) —** When the "no web-management" command is executed, "no telnet-server" is also added to the running config. A loss of Telnet connectivity is only seen when the config file is saved to a TFTP server, then copied back.
- **IGMP (PR_90376) —** In some cases, the switch would display "0.0.0.0" for the output of the CLI command "show ip igmp."
- **IP Stack Mgmt/Web (PR_89753) —** A bus error occurs when accessing the close-up view of a 15-member stack (IP Stack Management) through the Web interface.
- **IP Routing (PR_90711) —** Switch incorrectly identifying packets routed from a trunk port across the stack link as port security violations. This resulted in overrunning the CPU queues and causing management problems.
- **QOS (PR_90937) —** Switch only utilizing three of the four available priority queues.
- **Spanning Tree (PR_90412) —** Enhancements to 802.1w operation to address version 3 BPDU communication issues.
- **Self Test (PR_90777) —** A self test error may occur when a Gigabit-SX, or LX mini-GBIC module is inserted into the switch while powered on.
- **UI / CLI (PR_90302) —** Addressed grammatical errors for the "interfaces" command when "show <tab>" is executed.

- **UI (PR_81885) —** In the absence of a time server, the switch may report that it is the year "26".
- **Web/Stack Mgmt (PR_88743) —** Inverted IP address displayed in the Identity tab when the IP Stack Member switch is accessed through the IP Stack Commander switch.
- **Web-Browser Interface (PR_82530) —** A client using Sun java 1.3.X or 1.4.X to access the Web-Browser Interface of the switch, may cause the switch's CPU utilization to increase causing agent processes (such as console, telnet, STP, ping, etc.) to stop functioning.
- **Web-Browser Interface (PR_82652) —** The Web agent is showing disabled ports as "Port Not Connected", rather than "Port Disabled."
- **Web-Browser Interface / Port Security (PR_88612) —** When static MAC addresses are configured under port security to allow PCs to communicate through the switch, and one of those MAC addresses is removed via the Web interface of the 2650 and then re-entered, the owner of that MAC address cannot communicate again until the link of that port is toggled.

Release H.07.03

Problems Resolved in Release H.07.03

- **Agent Unresponsive (PR_5903) —** The switch may get into a state where end nodes and other network devices cannot contact (ping, telnet, SNMP, etc) switch's agent.
- **Crash (PR_5877) —** When setting the host name to a very long (~20 characters) string, the switch may crash with a bus error similar to:

  ```
  -> Bus error:  HW Addr=0x29283030 IP=0x002086ac Task='mSnmpCtrl' Task
  ID=0x165ae00.
  ```

- **Crash (PR_5345) —** Switch may crash with a message similar to:

  ```
  ->Assertion failed:0, file drvmem.c, line 167
  ```

- **IGMP (PR_5991) —** If switch receives an IGMPv3 Join with a reserved Multicast address, or an invalid IP Multicast address, the switch may crash with a message similar to:

  ```
  -> Software exception at alloc_free.c:479 -- in 'tDevPollTx' Task ID =
  0x1900f18 buf_free: corrupted buffer
  ```

- **IGMP (PR_6001) —** When an IGMP v3 Join contains an invalid IP Multicast address or a reserved IP Multicast address in the IGMP Group Address field, the switch will attempt to stop processing the Join, and mistakenly double-free, or double-forward the Join packet. One possible symptom is a switch crash similar to:

  ```
  ->Software exception at alloc_free.c ... buf_free: corrupted buffer
  ```

- **SNMP (PR_6006) —** The ifAlias OID is defaulted to "not assigned", which may cause network management applications such as Network Node Manager to log error messages. [The fix is to default ifAlias to a zero-length string, as stated in the MIB.]

Release H.07.02

Release H.07.02 was the first software release for the HP ProCurve Switches 2650 and 6108.

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