



Release Notes:

Version I.07.32 Software

for the HP ProCurve 2800 Series

Release I.07.32 supports these switches:

- HP ProCurve Switch 2824 (J4903A)
- HP ProCurve Switch 2848 (J4904A)

These release notes include information on the following:

- Downloading Switch Documentation and Software from the Web ([page 1](#))
- Software features available in release I.07.xx ([page 9](#))
- Clarification of operating details for certain software features ([page 8](#))
- A listing of software fixes included in releases I.07.31 through I.07.32 ([page 10](#))

Caution

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](#).)

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](#)).

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Publication Number

5990-6049
November 2003
Edition 1

Applicable Product

HP ProCurve Switch 2824	(J4903A)
HP ProCurve Switch 2848	(J4904A)

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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, visit

<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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Contents

Software Management

Downloading Switch Documentation and Software from the Web	1
Downloading Software to the Switch	2
TFTP Download from a Server	3
Xmodem Download From a PC or Unix Workstation	4
Saving Configurations While Using the CLI	6
HP ProCurve Switch Software Key	6
Minimum Software Versions for Series 2800 Switch Features	7

Clarifications

Enhancements

Release I.07.32 Enhancements	9
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Software Fixes in Release I.07.xx

Release I.07.32	10
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Known Software Issues and Limitations

Issues	11
Auto-MDIX is always enabled	11
Limitations	11

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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.

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 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).
- HP’s SNMP Download Manager included in HP ProCurve Manager
- 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.

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 >]`

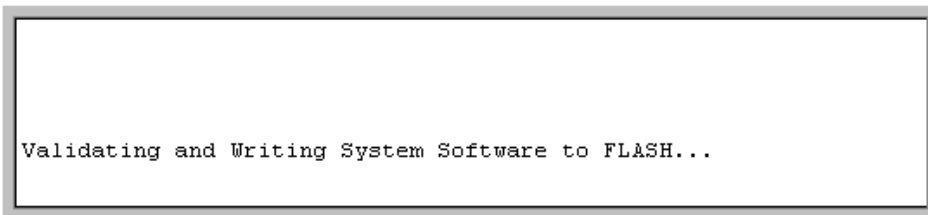
Note that if you do not specify the flash destination, the TFTP download defaults to the primary flash.

For example, to download an OS file named E_07_27.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 E_07_27.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:

A screenshot of a terminal window with a double-line border. The text inside the window reads: "Validating and Writing System Software to FLASH...".

```
Validating and Writing System Software to FLASH...
```

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:

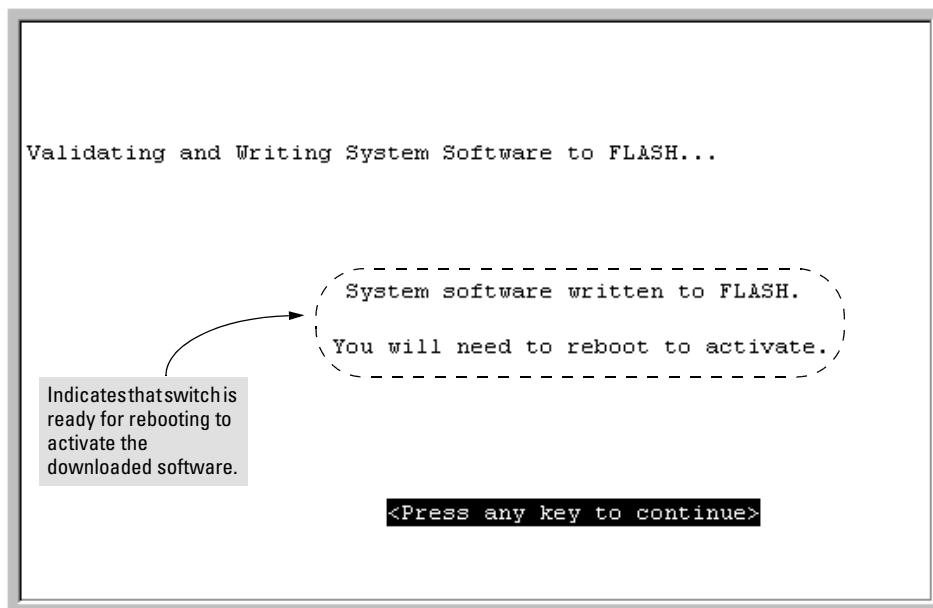


Figure 2. Message Indicating the Switch Is Ready To Activate the Downloaded Software

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** drop-down 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. To confirm that the operating system downloaded correctly:

```
HPswitch> show system
```

Check the **Firmware revision** line.

```
HP ProCurve Switch 2824# show system

Status and Counters - General System Information

System Name       : HP ProCurve Switch 2824
System Contact    :
System Location   :

MAC Age Time (sec) : 300
Time Zone         : 0
Daylight Time Rule : None

Firmware revision : I.07.32
ROM Version       : I.07.X3
ff ff f...

Up Time           : 65 mins
CPU Util (%)      : 4

IP Mgmt - Pkts Rx : 0
          Pkts Tx : 0

Base MAC Addr    : xxxxxx-xxxxxx
Serial Number     :

Memory - Total   : 18,672,720
          Free    : 11,564,936

Packet - Total   : 1998
          Free    : 1636
          Lowest  : 1613
          Missed  : 0

HP ProCurve Switch 2824#
```

Firmware Revision



Figure 3. Verifying the Firmware Revision Using the 'show system' Command from the CLI

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, 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, 8000M
E	Series 5300XL (5304XL and 5308XL)
F	Series 2500 (2512 and 2524)
G	Series 4100GL (4104GL and 4108GL)
H	Series 2600 (2626 and 2650) Switches and Switch 6108
I	Series 2800

Minimum Software Versions for Series 2800 Switch 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**.

For Switch 2800 Hardware Accessories.

HP ProCurve Device	Minimum Supported Software Version
J4858A Gigabit-SX-LC Mini-GBIC	I.07.31
J4859A Gigabit-LX-LC Mini-GBIC	I.07.31
J4860A Gigabit-LH-LC Mini-GBIC	I.07.31
J8168A HP ProCurve 600 RPS/EPS	I.07.31

Clarifications

None at this time.

Enhancements

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

Release I.07.32 Enhancements

Software fixes only; no new enhancements.

Software Fixes in Release I.07.xx

Release I.07.31 was the first software release for the HP ProCurve 2800 Series.

Release I.07.32

Problems Resolved in Release I.07.32

- **Command Line Interpreter PR95284** — A too long MAC addresses in a port-security CLI command results in:

```
Software exception at exception.c:345 -- in 'mSess1', task ID = 0x141ae70  
-> Memory system error at 0x131b5a0 - memPartFree
```

Here is an example command that would have crashed Version I_07.31:

```
port-security 1 learn-mode static address-limit 1 mac-address 0800000000010000000
```

- **SSH PR96648** — CERT Advisory CA-2003-24: OpenSSH vulnerability. Fix implemented. For details, see CERT Advisory CA-2003-24 and associated vulnerability note “VU#333628” at <http://www.cert.org/advisories/CA-2003-24.html>.
- **System Log PR95689** — Excessive Time Sync entries when using a Timep or SNTP server. The system software needed to be adjusted to properly keep synchronized with a configured SNTP server. In earlier versions of software, this resulted in an excessive number of Time Sync entries in the event log. This only applies to the 2800 Series switches running I_07.31 software.

Known Software Issues and Limitations

The following sections contain issues and known limitations in Release I.07.32 for the HP ProCurve 2800 Series.

Issues

Auto-MDIX is always enabled

The Switch 2800 Series provides an IEEE Auto-MDI/MDI-X (100/1000Base-T) and the HP Auto-MDIX (10/100Base-TX) feature on all RJ-45 ports, allowing the user to connect a device (switch or PC) using either a straight-through cable or a cross-over cable. This Auto-MDIX feature is always enabled on all RJ-45 ports, regardless of the port configuration. It cannot be turned off.

Since this feature is always enabled, users are cautioned to ensure that they do not accidentally create a bridge-loop on their network when connecting a cable from a Switch 2800 Series switch to another switch. A valid connection is created using either a straight-through or a cross-over cable.

Other HP ProCurve switches allow you to disable this feature by configuring the port for Full-Duplex operation, thus forcing you to use a cross-over cable for switch-to-switch connections and a straight-through cable for switch-to-PC connections.

A future release of software will allow the user to configure this Auto-MDIX feature to be on/off on a port or system-wide basis.

Limitations

None at this time.



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Edition 1, November 2003
Manual Part Number
5990-6049
