



Release Notes:

Version L.10.02 Software

for the ProCurve Series 4200vl Switches

Release L.10.02 supports these switches:

- ProCurve Switch 4204vl (J8770A), 4208vl (J8773A), 4202vl-72 (J8772A), and 4202vl-48G (J8771A)

These release notes include information on the following:

- Downloading switch software and documentation from the Web ([page 1](#))
- Clarification of operating details for certain software features ([page 7](#))
- A listing of software enhancements in this release ([page 7](#))
- A listing of software fixes included in releases L.10.01 through L.10.0x ([page 8](#))

Related Publications

For the latest version of any of the publications listed below, visit the ProCurve Networking Web site at <http://www.procurve.com>. Click on **Technical support**, then **Product manuals**.

- Management and Configuration Guide* (part number 5990-6050)
- Advanced Traffic Management Guide* (part number 5990-6051)
- Access Security Guide* (part number 5990-6052)

*Covers the ProCurve Series 6400cl, Series 5300xl, Series 4200vl, and Series 3400cl switches.

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Applicable Products

ProCurve Switch 4204vl	(J8770A)
ProCurve Switch 4208vl	(J8773A)
ProCurve Switch 4202vl-72	(J8772A)
ProCurve Switch 4202vl-48G	(J8771A)

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[http:// www.openssh.com](http://www.openssh.com).

SSL on 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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Software Management

Software Updates

Check the ProCurve Networking Web site frequently for free software updates for the various ProCurve switches you may have in your network.

Downloading Switch Documentation and Software from the Web

You can download software updates and the corresponding product documentation from the ProCurve Networking Web site as described below.

To Download a Software Version:

1. Go to the ProCurve Networking Web site at:
<http://www.procurve.com>.
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 the ProCurve Networking Web site at <http://www.procurve.com>.
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

ProCurve Networking periodically provides switch software updates through the ProCurve Networking Web site (<http://www.procurve.com>). After you acquire the new software file, you can use one of the following methods for downloading it to the switch:

- For a TFTP transfer from a server, do either of the following:
 - Select **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:
 - Select **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).
- Use the download utility in ProCurve Manager Plus.

Note

Downloading new software 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 software to the switch. You can also use the menu interface for software 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 a software file named L_10_0x.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 L_10_0x.swi
The primary OS image will be deleted. continue [y/n]? Y
03125K
```

2. When the switch finishes downloading the software file from the server, it displays the progress message shown in figure 1. When the CLI prompt re-appears, the switch is ready to reboot to activate the downloaded software:

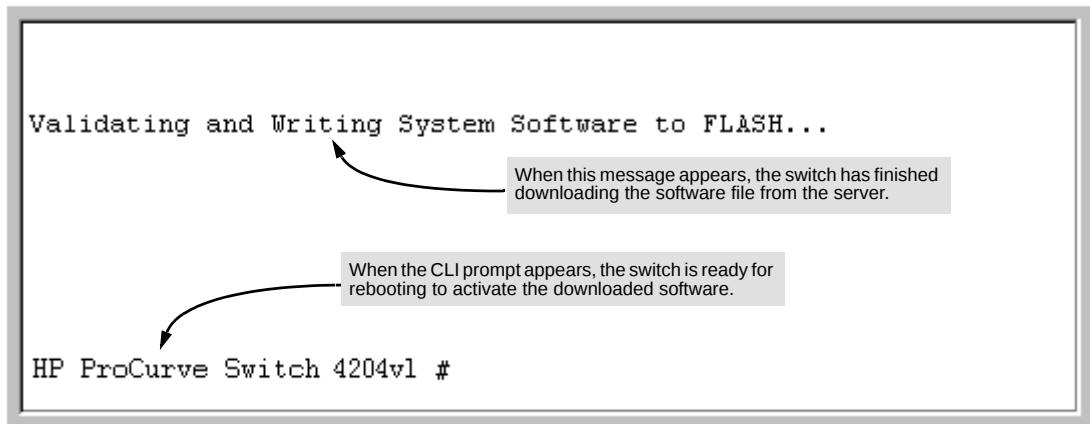


Figure 1. Message Indicating the Switch Is Ready To Activate the Downloaded Software

3. Use the **show flash** command to verify that the new software version is in the expected flash area (primary or secondary)
4. Reboot the switch from the flash area that holds the new software (primary or secondary).

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 to a PC operating as a terminal. (Refer to the Installation and Getting Started Guide you received with the switch for information on connecting a PC as a terminal and running the switch console interface.)
- The switch software 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 HyperTerminal application included with Windows NT, you would use the Send File option in the Transfer dropdown menu.)

Using Xmodem and a terminal emulator, you can download a switch software file to either primary or secondary flash using the CLI.

Syntax: `copy xmodem flash [< primary | secondary >]`

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 115200 bits per second. (The baud rate must be the same in both devices.) For example, to change the baud rate in the switch to 115200, execute this command:

```
HPswitch(config)# console baud-rate 115200
```

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

Changing the console baud-rate requires saving to the Startup Config with the "write memory" command. Alternatively, you can logout of the switch and change your terminal emulator speed and allow the switch to AutoDetect your new higher baud rate (i.e. 115200 bps)

2. Execute the following command in the CLI:

```
HPswitch # copy xmodem flash primary
The primary OS image will be deleted. continue [y/n]? Y
Press 'Enter' and start XMODEM on your host...
```

3. Execute the terminal emulator commands to begin the Xmodem transfer. For example, using HyperTerminal:
 - a. Click on Transfer, then Send File.
 - b. Type the file path and name in the Filename field.
 - c. In the Protocol field, select Xmodem.
 - d. Click on the Send button.

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

4. 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.)

5. Use the **show flash** command to verify that the new software version is in the expected flash area (primary or secondary)
6. Reboot the switch from the flash area that holds the new software (primary or secondary).

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.

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] ?

ProCurve Switch, Routing Switch, and Router Software Keys

Software Letter	ProCurve Switch, Routing Switch, or Router
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.
H	Switch 6108: H.07.xx and earlier
I	Switch 2800 Series (2824 and 2848)
J	Secure Router 7000dl Series (7102dl and 7203dl)
K	Switch 3500yl Series (3500yl-24G-PWR and 3500yl-48G-PWR) and 5400zl Series (5406zl, 5406zl-48G, 5412zl, and 5412zl-96G)
L	Switch 4200vl Series (4204vl, 4202vl-48G, 4202vl-72, 4208vl, 4208vl-64G, and 4208vl-96)
M	Switch 3400cl Series (3400cl-24G and 3400cl-48G) and 6400cl Series (CX4 6400cl-6XG and X2 6410cl-6XG)
N/A	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.)

Version L.10.01 is the first software release for the ProCurve Series 4200vl switches.

OS/Web/Java Compatibility Table

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

Operating System	Internet Explorer	Java
Windows NT 4.0 SP6a	5.00, 5.01 5.01, SP1 6.0, SP1	Sun Java 2 Runtime Environment: – Version 1.3.1.12 – Version 1.4.2.05
Windows 2000 Pro SP4	5.05, SP2 6.0, SP1	
Windows XP Pro SP2	6.0, SP1	Sun Java 2 Runtime Environment: – Version 1.5.0.02
Windows Server SE 2003 SP1	6.0, SP1	

Clarifications and Updates

There are currently no clarification or updates to existing documentation related to the Series 4200v1 Switches, or L10.0x code.

Enhancements

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

Release L.10.02 Enhancements

MSTP Default Path Cost Controls

Summary: 802.1D and 802.1t specify different default path-cost values (based on interface speed). These are used if the user hasn't configured a "custom" path-cost for the interface. The default of this toggle is to use 802.1t values. The reason one might set this control to 802.1D would be for better interoperability with legacy 802.1D STP (Spanning Tree Protocol) bridges.

To support legacy STP bridges, the following commands (options) have been added to CLI:

spanning-tree legacy-path-cost – Use 802.1D values for default path-cost

no spanning-tree legacy-path-cost – Use 802.1t values for default path-cost

The “legacy-path-cost” CLI command does not affect or replace functionality of the “spanning-tree force-version” command. The “spanning-tree force-version” controls whether MSTP will send and process 802.1w RSTP, or 802.1D STP BPDUs. Regardless of what the “legacy-path-cost” parameter is set to, MSTP will interoperate with legacy STP bridges (send/receive Config and TCN BPDUs).

spanning-tree legacy-mode - A “macro” that is the equivalent of executing the “spanning-tree legacy-path-cost” and “spanning-tree force-version stp-compatible” commands.

no spanning-tree legacy-mode - A “macro” that is the equivalent of executing the “no spanning-tree legacy-path-cost” and “spanning-tree force-version mstp-compatible” commands.

When either legacy-mode or legacy-path-cost control is toggled, all default path costs will be recalculated to correspond to the new setting, and spanning tree is recalculated if needed.

Software Fixes in Release L.10.01 - L.10.0x

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

Release L.10.01 was the first software release for the ProCurve 4200vl Series.

Release L.10.02

- **Crash/802.1X (PR_1000302284)** - When 802.1X and MAC Authentication are both configured, the switch may crash with a message similar to:

```
"SubSystem 4096 went down: 01/01/90 00:22:09 NMI event  
SW:IP=0x003870a4 MSR:0x0024b032 LR:0x203081b0 Task='mWebAuth' Task  
ID=0x12b4fa8 cr: 0x42000220 sp:0x012b6be8 xer:0x0100000f".
```
- **Crash/Stacking (PR_1000297510)** - When using Web User Interface and the switch is commander for stacking, the switch may crash with a message similar to:

```
PPC Bus Error exception vector 0x300: Stack-frame=0x01731de8 HW  
Addr=0x02800007 IP=0x0022dc30 Task='tHttpd' Task ID=0x1731fb0 fp:  
0x0167d180 sp:0x01731ea8 lr:0x
```
- **IGMP (PR_1000301557)** - Data-driven IGMP requires an IP address on a VLAN to work properly.
- **IP Forwarding (PR_1000305739)** - When a user attempts to configure 'ip forward-protocol netbios-dgm', the switch incorrectly configures 'ip forward-protocol netbios-ns' instead.
- **LACP (PR_1000302457)** - Although default behavior is LACP disabled on all ports, upon bootup the switch event log reports, "lACP: Passive Dynamic LACP enabled on all ports".
- **MSTP Enhancement (PR_1000314692)** - Added new commands: "spanning-tree legacy-path-cost" and "spanning-tree legacy-mode". See ["MSTP Default Path Cost Controls" on page 7](#) for details.
- **QoS (PR_1000304105)** - Maximum QoS rules limit is incorrect, internal to the switch.
- **Setup (PR_1000301498)** - Manual IP address cannot be set when using the "setup" menu.
- **SNMP (PR_1000295753)** - Removing 'public' SNMP community name generates an empty Event Log message.
- **SNMP (PR_1000310841)** - User can assign illegal values for hpSwitchCosDSCPPolicyPriority through SNMP. All other user-interfaces for configuring QoS (CLI, Web UI, ProCurve Manager, and Radius) function correctly.

- **SNMP Link Up Traps and ARP Flush (PR_1000293466)** - After issuing the CLI command: "snmp-server host <ip address> public all", generic Link Up traps are not generated. Also, the switch flushes its ARP cache whenever a port comes online, after issuing the command.
- **SNMP Traps (PR_1000285195)** - When link-up/link-down traps are disabled for a port (using SNMP commands), after reboot the switch automatically re-enables those traps.
- **Web Authentication (PR_1000302945)** - When a port is set to Web Authentication and the client fails authentication, it is assigned to the Unauthorized VLAN; however, it cannot communicate with other ports on the Unauthorized VLAN.
- **Web/Stacking (PR_1000308933)** - Added Web User Interface stacking support for the new Series 3500yl switches, providing a 3500yl "back-of-box" display when the 4200vl is stack commander and a 3500yl is a stack member.



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