Release Notes:
Version I.07.61 Software
for the HP ProCurve 2800 Series

Release I.07.61 supports these switches:

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

These release notes include information on the following:

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 2).

Publication Number

5990-6049e4
September 2004

Applicable Product

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

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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, 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

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 software updates through the HP ProCurve web site (**http://www.hp.com/go/hpprocurve**). After you acquire the new software file, you can use one of the following methods for downloading the software 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 software version 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 I_07_61.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  I_07_61.swi
Device will be rebooted, do you want to continue [y/n]?  y
02304K _
```

2. When the switch finishes downloading the software file from the server, it displays this progress message to indicate the switch is writing the downloaded software to flash memory:

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

3. After the switch writes the downloaded software to flash memory (approximately three minutes), you will see this screen:

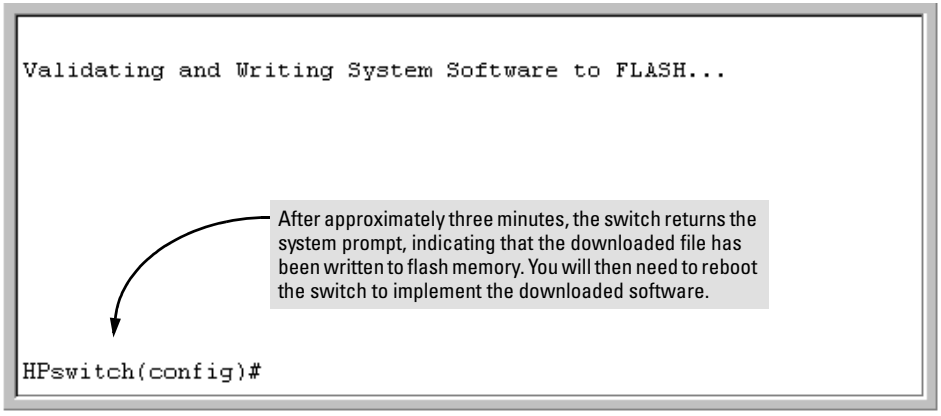

Figure 1. The System Prompt Indicates the Switch Is Ready To Activate the Downloaded Software

4. Type the **show flash** command to verify that the new software version has been downloaded to flash:

```
HPswitch# show flash
Image            Size(Bytes)   Date    Version
-----            -----------  --------  -------
Primary Image    : 2434240    08/25/04  I.07.61   <-- Software Version in Primary Flash
Secondary Image  : 2426351    08/05/04  I.07.60
Boot Rom Version: I.08.02
Current Boot     : Primary
```

Figure 2. Example of Show Flash Display of Software Versions in Flash Memory

5. Use the CLI **boot** command to reboot the switch.

```
HPswitch(config)# boot
Device will be rebooted, do you want to continue [y/n]?
```

   To continue the boot process, press the **[Y]** key (for "yes"). 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 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 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 a software file from a PC:

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

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

   Reboot your switch and re-establish a console session at the higher baud rate. 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 software version.

4. To confirm that the software downloaded correctly:

```
HPswitch> show system
```

Check the **Firmware revision** line.

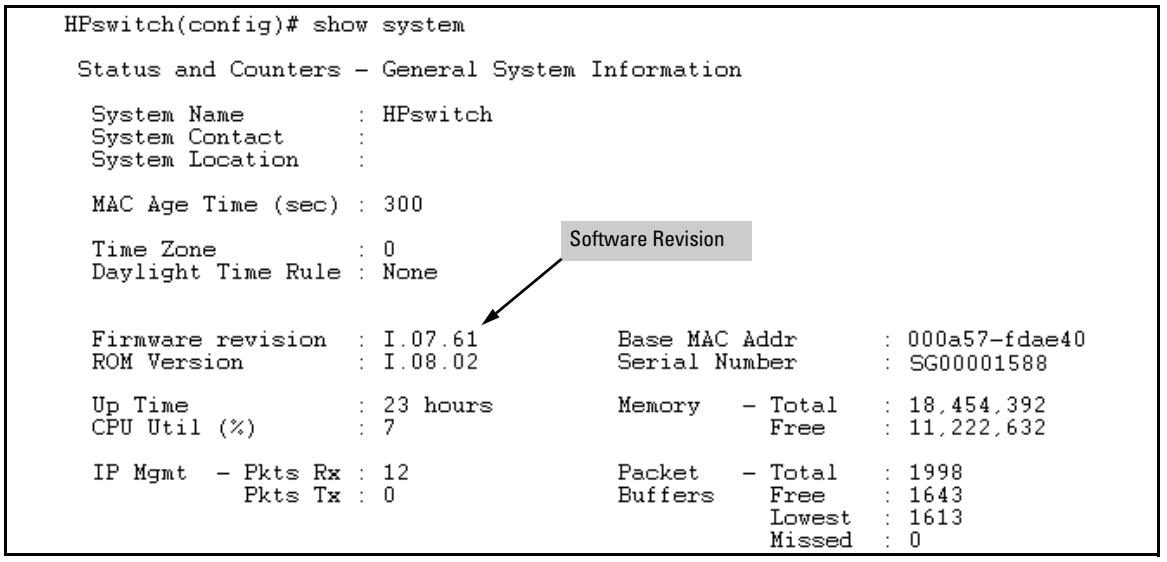

Figure 3. Example of Using the CLI 'show system' Command to Verify the Software Revision

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 Switches (2626, 2650, 2626-PWR, and 2650-PWR) and Switch 6108
I	Series 2800 Switches (2824 and 2848)
N/A	Series 9300 Routing Switches (9304M, 9308M, and 9315M), the Switch 6208M-SX, and the Switch 6308M-SX (These devices use a software version number only; no alphabetic prefix. For example: 07.6.04.

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.07.57 - I.07.61 Enhancements

Software fixes only; no new enhancements.

Includes the Boot ROM upgrade initially introduced in I.07.56 below.

Release I.07.56 Enhancements

Boot ROM update

This release (and all subsequent releases) include a Boot ROM upgrade facility. If, during boot, it detects a version 7.*xx* Boot ROM image, it will upgrade the Boot ROM to version I.08.02. This Boot ROM reformats the Flash area to accept code images larger than 3 MB, and is required to be done prior to the next major release of software (expected winter, 2004).

No damage is done to the code stored in the secondary flash area.

Once the user initially boots with this release (or later I.07.*xx* releases) the console screen will report that the Boot ROM is being updated:

```
Decompressing...done.


Initializing...

WARNING : This release includes a BootROM upgrade.
          Interupting this process will cause
          The switch to become unusable.

BootROM upgrade in progress...completed.
```

This process takes approximately 3 minutes to complete, including the normal time to boot up your switch.

Release I.07.53 - I.07.55 Enhancements

Software fixes only; no new enhancements.

Release I.07.52 Enhancements (Beta Only)

QOS Pass-Through Mode

Release I.07.52 introduced a new command to enhance the performance of line-rate traffic transfers through the 2800 Series switches. This feature should only be used in environments where Quality of Service (QoS) is not of major importance, but where lossless data transfers are key. This command essentially disables any discrimination of QoS queues for traffic, consolidating packet buffer memory to provide line-rate flows with no loss of data.

General Operation

The port buffering design for the Series 2800 switches has been optimized for gigabit-to-gigabit traffic flows. For this reason, some flows from Gigabit-to-100Base or even 100Base-to-10Base may not perform as well as would be expected. The QOS Pass-Through mode enhancement can provide a significant performance improvement for high-bandwidth traffic flows through the 2800 switches, particularly when running traffic flows from 1000Base to either 100Base or 10Base connections.

QOS Pass-Through mode is OFF by default, and must be enabled via the “config” context of the CLI by entering the CLI command **qos-passthrough-mode**, followed by **write memory** and rebooting the switch.

QOS Pass-Through mode, when enabled, results in the following general changes to switch operation:

- Alters the switch's default outbound priority queue scheme from four queues (low, normal, medium, and high), to two queues (normal & high).
- Optimizes outbound port buffers for a two-queue scheme.
- All packets received with an 802.1p priority tag of 0 to 5 (low, normal, or medium priorities), or tagged by the switch's QOS feature, will be serviced by the (now larger) "normal" priority queue.
- All packets received with an 802.1p priority tag of 6 or 7 (high priority), or tagged by the switch's QOS feature, will be serviced by the "high" priority queue.
- High priority packets sourced by the switch itself, such as Spanning Tree packets, will be serviced in the "high" priority queue.
- Any 802.1p tagging on a received packet, or any tag added to a received frame by the switch via its QOS configuration, will be preserved as it is transmitted from the switch.

  NOTE: As stated earlier, use of this QoS-Passthrough-Mode feature generally assumes that QoS tagged packets are not being sent through the 2800 Switch. The receipt of priority 6 or 7 packets may in fact suffer packet drops depending on the traffic load of non-priority 6 or 7 packets.

QoS Priority Mapping With and Without QoS Pass-Through Mode

The switch supports 802.1p VLAN tagging, which is used in conjunction with the outbound port priority queues to prioritize outbound traffic.

An 802.1Q VLAN tagged packet carries an 802.1p priority setting (0-7). If the switch receives a tagged packet, it is placed into the appropriate queue based on the frame's 802.1p priority setting. The mapping with/without QoS Pass-Through Mode is as follows:

802.1p Priority Setting	Prioritization Queue Placement	
	Default QoS Setting	QoS Passthrough Mode
1	1 (low)	2 (normal)
2	1 (low)	2 (normal)
0 or Unspecified	2 (normal)	2 (normal)
3	2 (normal)	2 (normal)
4	3 (medium)	2 (normal)
5	3 (medium)	2 (normal)
6	4 (high)	4 (high)
7	4 (high)	4 (high)

How to enable/disable QOS Pass-Through Mode

QoS Pass-Through Mode is disabled by default, and is available only in I.07.52 and later switch software versions.

Syntax: [no] qos-passthrough-mode
write memory
reload

The above command sequence enables QoS pass-through mode. The **no** *form of the command sequence disables QoS pass-through mode. (Default: Disabled)*

For example:

```
HP ProCurve Switch 2824(config)# qos-passthrough-mode
Command will take effect after saving configuration and reboot
HP ProCurve Switch 2824(config)# write memory
HP ProCurve Switch 2824(config)# reload
```

This command can be enabled and disabled only from the switch's CLI. QoS passthrough mode cannot be enabled or disabled through either the switch's menu or web browser interfaces. Once enabled, this feature adds **qos-passthrough-mode** to the switch's startup-config file. For example, in an otherwise default configuration, executing **show config** lists the startup-config file (with QoS pass-through mode enabled) as follows:

```
HP ProCurve Switch 2824(config)# show config

; J4903A Configuration Editor; Created on release #I.07.52

hostname "HP ProCurve Switch 2824"
cdp run
qos-passthrough-mode
snmp-server community "public" Unrestricted
vlan 1
   name "DEFAULT_VLAN"
   untagged 1-24
   ip address dhcp-bootp
   exit
```

Indicates QoS Pass-Through mode enabled.

Figure 4. Example of the Startup-Config File Listing with QoS Pass-Through Mode Enabled

Release I.07.51 Enhancements

Software fixes only; no new enhancements.

Release I.07.50 Enhancements

Port Trunking

New Maximum for Number of Ports in a Trunk

Trunk groups can now be configured with up to 8 ports per trunk. (Formerly, the switches allowed only 4 ports per trunk.) Also, you can now configure up to 24 trunk groups per switch. (Formerly, the switches allowed only 6 port trunk groups).

Restriction on Grouping of Ports in a Trunk with IP Routing Enabled

Trunk groups can generally be specified as any grouping of ports on the switch. However, if IP routing is enabled on the switch, all of the ports in a given trunk group must be in the same range of ports. These ranges are as follows:

- 1-12
- 13-24
- 25-36 (applies only to the Switch 2848)
- 37-48 (applies only to the Switch 2848)

For example:

```
HPswitch(config)# trunk 1-8 trk1
```

This command is valid in all cases (switching or routing) because all of the ports are in the same port group.

```
HPswitch(config)# trunk 9-14 trk2
```

This command is NOT valid if IP routing is enabled on the switch (because the selected ports are in different port groups and IP routing is enabled). If IP routing is enabled, this command generates an error message and will not be executed.

If a trunk group with ports in different port ranges is created before IP routing is enabled, then using the **ip routing** command to enable IP routing generates an error message indicating the trunk group that violates the above rule. You can remedy this problem by reducing the trunk to only the ports that are in the same port group. To remove ports from an existing trunk, use the following command:

```
HPswitch(config)# no trunk < ports-to-remove >
```

Port Monitoring

In software releases prior to release I.07.50, port monitoring sent only inbound (ingress) traffic to the monitor. Beginning with release I.07.50, the Series 2800 switches will now also send outbound (Egress) traffic to the mirror port when port monitoring is enabled.

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.07.61

Problems Resolved in Release I.07.61

- **DHCP Relay PR_1*188635** — DHCP Relay sometimes preserves the incoming MAC SA in relayed packets.
- **HANG/WEB PR_1*190109** — Fix for cases where the Web interface would stop responding when the user enters the Configuration Screen. Once triggered, no access to the Web agent is possible from any client.

Release I.07.60

Problems Resolved in Release I.07.60

- **Auto-TFTP/Rebooting PR1*20802** — Auto-TFTP causes constant rebooting, with no resulting crash files.
- **Auto-TFTP PR1*187649 —** Auto-TFTP will not allow a forced download of software after Auto-TFTP is Disabled.
- **Hang PR1*190119 —** Additional case of system hang found and addressed.

Release I.07.59 (Beta Only)

Release I.07.58 (Beta Only)

Problems Resolved in Release I.07.58

- **IGMP PR1*06552 and 1*20234 —** The switch floods multicast packets on a VLAN when IGMP is enabled, due to h/w & s/w MAC tables being out of sync.
- **TELNET PR1*19573 —** Switch reboots when telnet is disabled and port 1506 accessed. The switch produces no crash-log.
- **Web PR89899 —** In the Web UI, port statistic counters are overwriting one another.
- **IGMP/EIGRP PR1*20234 —** With IGMP enabled the switch drops EIGRP packets (when triggered by receiving an SSDP packet).

- **VLAN PR95593 —** The switch will not allow the user to delete a VLAN that contained a mini-GBIC port that was removed.
- **CLI/Config PR1*01628 —** In the CLI, switch reports "Inconsistent value" error when adding ports to a VLAN.
- **Hot-swap/Config PR1*89150 —** Switch configuration is not properly updated on transceiver swap events

Release I.07.57 (Never Released)

Release I.07.56

Problems Resolved in Release I.07.56

- **Hang PR_1*87409, PR_1*6985 —** Symptoms vary, and can include any of the following:
  - Switch does not respond to pings, WEB access, Telnet, or Console access.
  - Pre-existing links prior to the "hang" still appear to transmit and receive data normally.
  - LED behavior on ports that establish link before the "hang" is erratic. For example, the LED remains lit even after dropping physical link.
  - New links attempted after the "hang" do not transmit or receive traffic. Also that port's LED on the Switch 2800 remains dark, indicating no link while the neighbor device's LED may light up indicating that link is established.
  - Front panel LED Mode, Reset, and Clear buttons, may not function properly.
  - CPU-dependent features such as STP may not function properly.

  A power cycle of the switch has been the only way to relieve these "hang" symptoms. Since the switch agent does not respond and the front panel buttons may not respond, it may be necessary to unplug and re-plug the power cable in order to reset the switch.

Release I.07.55 (Beta Only)

Problems Resolved in Release I.07.55

- **Crash PR1*20824 —** Displays a crash message similar to the following:

  ```
  SubSystem 0 went down: 01/02/90 22:33:36 NMI occurred: IP=0x003164b0
  MSR:0x0000b032 LR:0x003164d4 Task='tDPC' Task ID=0x1ad2440 cr:
  0x28000080 sp:0x01ad2380 xer:0x00000000.
  ```

- **Flow Control PR98957 —** The switch honors PAUSE (flow control) frames that it receives, but it does not generate them.

- **Show Mac PR82086 —** The CLI command **show mac** < *mac-address* > does not work.
- **OpenSSL/crash PR1*12823 —** OpenSSL bus error vulnerability.

Release I.07.53 (Beta Only)

Problems Resolved in Release I.07.53

- **Crash PR1*3390 —** Memory leak causing crash `sw_malloc.c:141` in snmpevt task.
- **Crash PR1*13156 —** Master crash in memory system - memPartFree. The specific crash symptoms can vary widely.
- **RMON PR1*11690 —** The switch does not send RMON trap PDUs.

Release I.07.52 (Beta Only)

Problems Resolved in Release I.07.52

- **GVRP PR1*5082 —** Vague error message (`commit failed`) when trying to add more than the maximum number of allowed VLANs.
- **Performance PR1*11958 —** Enhancement: Added the **qos-passthrough-mode** configuration option to the CLI to configure the number of outbound queues to use. Refer to "QOS Pass-Through Mode" on page 10.
- **Trunking PR_1*5962** — Unable to form LACP dynamic trunk across ASIC port groups without routing enabled.
- **sysUptime PR1*4025 —** sysUptime wraps in approximately 49 days.
- **Web PR1*4111 —** The Stack Management view has a scroll problem.
- **Web PR1*3580 —** The web interface allows broadcast and multicast destination addresses.
- **Web PR1*7144 —** VLAN Configuration Help link is not available.

Release I.07.50

Problems Resolved in Release I.07.50

- **CLI PR97671 —** If the number of max-vlans is greater than 15 and the user tries to add new vlan the Switch reports `Commit failed`. In the Web user interface the Switch reports

  `An error was encountered while attempting to add the VLAN entry.`

  The message is changed to:

```
Maximum number of VLANs (max-vlans) has already been reached.
```

- **CLI PR1*3517 —** Counters. Various, related issues:
  - ifInDiscards (RX drops in the menu interface) includes outbound drops; fixed to display only true inbound drops.
  - ifOutDiscards does not report out-bound drops; fixed to display true outbound drops previously shown on ifInDiscards.
  - dot1dtpPortInDiscards includes outbound drops; fixed to display only inbound discards.
  - ipInDiscards includes outbound drops; fixed to show only inbound IP based discards.
- **Crash PR95525 —** Various crashes, including:

  ```
  Bus error: HW Addr=0xe1f08796 IP=0x003a51b4 Task='mInstCtrl'  Task
  ID=0x1767af8 fp: 0x00000006 sp:0x01767988 lr:0x003979a4
  ```
- **Crash PR1*2979 —** Software exception at rstp_port_role_sm.c:44 -- in mRstpCtrl.
- **GVRP PR1*3124 —** Uncertain error message when trying to add more than max VLANs.
- **Port Monitoring PR1*3540 Enhancement —** Add Egress (output) port monitoring.
- **RSTP PR1*1612 —** Under some circumstances a port may take approximately 30 seconds to go into Forwarding state.
- **Services PR1*3867 —** ICMP Redirects never age. Causes any incoming or outgoing agent communications such as ping, TELNET, Web, SNMP, etc. to fail with a message similar to the following:

  ```
  HW Addr=0x000-0000-0 IP=0x0-02a22d8 Task='tNetTask' Task ID=0xe2e740.
  ```
- **Trunks PR1*3530 —** Enhancement: Increase the limit on trunks and ports per trunk to:
  - Up to 24 trunks, total; and
  - Up to 8 ports per trunk

  Refer to "New Maximum for Number of Ports in a Trunk" on page 13.
- **Web/IP Stack Management PR92826 —** With an eight switch IP Stack Manangement stack, management of the switches with the Web interface can cause the commander switch to crash or hang. If the user selects options too quickly or moves from one option to another the Web user interface may freeze and become unresponsive. The Commander Switch may also crash with a Bus Error. Also, TELNET and Console interfaces may become unresponsive.
- **Web/IP Stack Management PR97323 —** In the Web user interface the images displayed for the stack members are not correct.

- **Web PR98500 —** Clicking on tabs in a certain order causes the browser window to close (terminate).
- **Web/SSL PR98918 —** When creating an SSL certificate the Organization name and unit are switched in the web user interface display. Emphasis: This is only a display issue.
- **Web PR81848 — The [Clear changes]** button does not work for the Default Gateway or VLAN selections
- **Web PR82199 —** VLAN port modification shows misleading mode. In the Configuration - VLANs - Modify page, select a port, then set the "mode" modify pull-down menu to "tagged". Select another port. The "mode" pulldown field remains set to "tagged", which is misleading and incorrect, in general.
- **Web PR97407 —** Port security error message is unclear with mac lockdown. The user interface may report "**Unable to add new MAC Address. MAC entry is either a multicast, broadcast or NULL address.**" when, in fact, the MAC address the user is specifying is locked down or locked out.
- **Web PR1*452 —** Resetting the Switch leads to the URL **aol.co.uk**.
- **Web PR90858 —** VLAN Name text field won't clear after 12 characters are entered.
- **Web PR1*1702 —** Sometimes clicking on the **[Apply]** button on the Configuration/Monitor Port screen results in the message **Not enough params specified**.
- **Web PR92078 —** After making changes under the Device Features tab, the page never fully loads.
- **Web PR82039 —** If the user selects GVRP mode, selects a port, and then selects nothing as an option for the port mode, all ports below the selected port disappear. This does not affect the switch configuration.

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.

September 2004

Part Number
5990-6049e4