Release Notes: Version G.07.53 Operating System

for the HP ProCurve Series 4100GL Switches

These release notes include information on the following:

■ Downloading switch software and Documentation from the Web

■ Enhancements supported in Release G.07.5*x*:

   • Support for the HP ProCurve Switch GL 10/100/1000 Module, part number J4908A

      • 20 ports of 10/100/1000Base-Tx

      • 2 option slots for mini-GBIC Gigabit optics (part numbers J4858A, J4859A, J4860A).

■ Software fix listings for the HP ProCurve Series 4100GL software releases (page 12)

Caution: Archive Pre-G.07.2*x* Configuration Files

A configuration file saved while using release G.07.2*x* (or greater) is not backward-compatible with earlier releases. For this reason, HP recommends that you archive the most recent configuration on switches using software releases earlier than G.07.2*x* before you update any switches to software release G.07.2*x* or later.

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).

Connectivity Note Regarding Gigabit-SX and -LX Port Settings for Links Between an HP Series 4100GL Switch and Other Switch Models:

In the HP 1600M/2400M/2424M/4000M/8000M switches, and also in other vendors' switches, the default port mode setting for the Gigabit-SX and Gigabit-LX ports is forced 1000FDx (Gigabit full-duplex). However, the default port mode for the Gigabit-SX and -LX ports in the HP 4108GL is Auto. In earlier software releases, the HP 4108GL tolerated this mismatch and allowed SX and LX links with these other switches to exist. The HP 4108GL (when running software release G.04.04 or greater) now complies with the Gigabit-SX and -LX standard that disallows linkbeat to be enabled when there is a mismatch. (The HP 4104GL, introduced with software release G.05.01, also complies with this requirement.) Thus, mismatched links between Gigabit-SX and -LX ports on an HP Series 4100GL switch and the HP 1600M/2400M/2424M/4000M/8000M switches or other switches that were formerly allowed will now fail. To avoid this problem either reconfigure the Gigabit-SX and -LX ports to Auto on the HP 1600M/2400M/2424M/4000M/8000M switches or other switches, or reconfigure the Gigabit-SX and -LX ports on the HP Series 4100GL switches to 1000FDx.

Applicable Product

HP ProCurve Switch 4104GL	(J4887A)
HP ProCurve Switch 4108GL	(J4865A)
HP ProCurve Switch 4108GL bundle	(J4861A)
HP ProCurve Switch 4148GL	(J4888A)

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Software Credits

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

http:// www.openssh.com.

Disclaimer

The information contained in this document is subject to
change without notice.

Warranty

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Caution: Archive Pre-G.07.2x Configuration Files

A configuration file saved while using release G.07.2x or later software is not backward-compatible with earlier software versions. For this reason, HP recommends that you archive the most recent configuration on switches using software releases earlier than G.07.2x before you update any switches to software release G.07.2x or later.

Downloading Switch Documentation and Software from the Web

You can download software version G.07.5x 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**.

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 switch product for which you want documentation. (For a module, click on the name of the switch product with which it is used.)

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

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, place the OS file in your TFTP server's default directory. Then 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).

■ Use the download utility in HP ProCurve Manager Plus.

■ Perform a switch-to-switch file transfer.

N o t e

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 G_07_5x.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  G 07 5X.swi
The primary OS image will be deleted. continue [y/n]? y
02714k
```

2. When the switch finishes downloading the OS 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:

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



                        When this message appears, the switch has finished
                        downloading the OS file from the server.




                  When the CLI prompt appears, the switch is ready for
                  rebooting to activate the downloaded software.


HPswitch#_
```
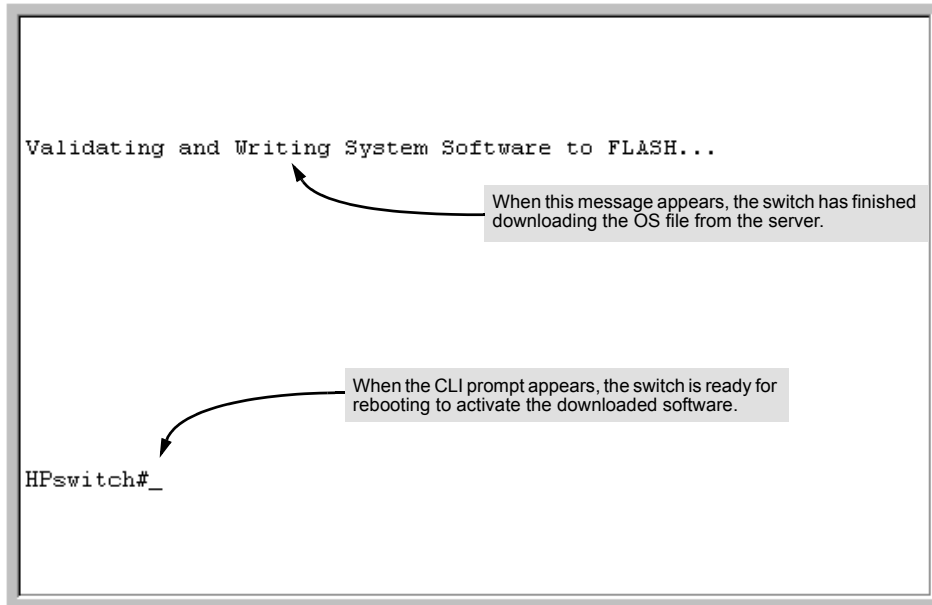
Figure 1.   Message Indicating the Switch Is Ready To Activate the Downloaded Software

3. 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 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 named G_07_5x.swi 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.

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.)

Enhancements in Release G.07.xx

New Enhancements in Release G.07.5x

Support for the HP ProCurve Switch GL 10/100/1000 Module, part number J4908A

- 20 ports of 10/100/1000Base-Tx
- 2 option slots for mini-GBIC Gigabit optics (part numbers J4858A, J4859A, J4860A).

New Enhancements in Release G.07.2x

Enhancement	Summary
Supports the HP ProCurve GL 100-FX MT-RJ Module (J4892A)	Provides 12 100-FX ports with MT-RJ connectors for 100 Mbps networking over multimode fiber-optic cable. This module requires switch software version G.07.2x or later.
Supports the HP ProCurve Gigabit LH-LC mini-GBIC (J4860A)	Provides gigabit-LH operation up to 70 kilometers when installed in the optional HP ProCurve Switch GL Mini-GBIC Module (J4893A).
SSL Security Operation	Provides Secure Socket Layer Version 3 (SSLv3) and support for Transport Layer Security (TLSv1) to provide remote web access to the switches via encrypted paths between the switch and management station clients capable of SSL/.TLS operation.
SSH Security Operation	Provide remote access to management functions on the switches via encrypted paths between the switch and management station clients capable of SSHv2 operation.
IGMPv3	This enhancement provides the capability to respond to IGMPv3 joins.
SNMPv3	SNMPv3 add more rigorous security for SNMP access to the switch. I added the capability to message authentication and privacy to keep management traffic secure.
IP Static Routing	Adds the capability to configure up to 16 static routes.
802.1X Open-VLAN Mode Operation	This enhancement provides a method for extending 802.1x authentication to supplicants (clients) that are not running
Debug and Syslog Operation	Enables transmission of Event Log messages to Syslog servers and the current management access session.

Documentation for New Enhancements

- Documentation for the HP ProCurve GL 100-FX MT-RJ Module is shipped with the module and is also available on the HP ProCurve web site. See "To Download Product Documentation:" on page 1.

■ Documentation for the HP ProCurve Gigabit LH-LC mini-GBIC is included in the installation guide shipped with the optional HP ProCurve Switch GL Mini-GBIC Module and is also available on the HP ProCurve web site. See "To Download Product Documentation:" on page 1.

■ For information on the above software enhancements and the other features available in your switch, refer to the following publications:

  • *Management and Configuration Guide for the HP ProCurve Series 4100GL Switches, Series 2600 Switches, and Switch 6108*

  • *Access Security Guide for the HP ProCurve Series 4100GL Switches, Series 2600 Switches, and Switch 6108*

The documentation mentioned above is also included on version 3.1 of the *Product Documentation CD-ROM*, which is packaged with Series 4100GL switches shipped from the factory with release G.07.2x installed. You can also download the latest version of this documentation by visiting the HP ProCurve web site. (See "To Download Product Documentation:" on page 1.)

Clarification of Time Zone Issue

Starting with release G.05.xx, the method of configuring the Time Zone for TimeP or SNTP configuration has been updated. Previous switch software, for all HP ProCurve switches, used positive time offset values for time zones that are West of GMT and negative values for time zones that are East of GMT. The standards indicate that time zones West of GMT should be designated by negative offset values, and time zones East of GMT by positive values. Software version G.05.xx updates this configuration method, but if you use the same values for indicating time zones as you did for previous HP ProCurve switches, the time will be set incorrectly on your Series 4100GL switch. For example, for previous HP ProCurve switches, the US Pacific time zone was configured by entering **+480**. With software version G.05.xx, the US Pacific time zone must now be configured by entering **-480**.

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 3 on page 11 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.

N o t e

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 2 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".

Switch "A"	Switch "B"	In this example, a static route to the 10.31.224.0 network has been configured in switch "A". In this case, 10.30.224.1 is the configured gateway.
VLAN 29: 10.29.224.1	VLAN 29: 10.29.224.2	
VLAN 30: 10.30.224.3	VLAN 30: 10.30.224.1	

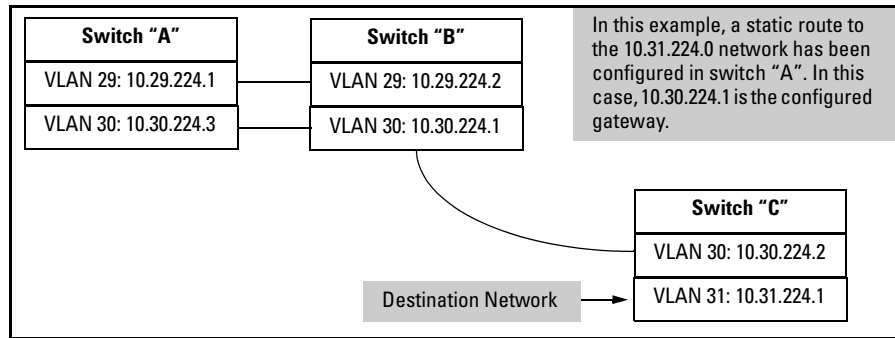| Switch "C" |
|---|
| VLAN 30: 10.30.224.2 |
| Destination Network → VLAN 31: 10.31.224.1 |

Figure 2   Example of a Routed Network

Figure 3 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
```

Default Loopback Network

Default Loopback Interface

Configured Static Route

Default Null Route

Destinations Directly Connected to the Switch

Lists the Data for the Specified Route

Figure 3   Examples of the Show IP Route Command

Problem Reports

To view known problems with solutions or workarounds for Series 4100GL software releases, visit the HP ProCurve web site at

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

and click on

Technical support > Problem reports > HP ProCurve Switch 4100GL Series

Software Fixes

Release G.03.08 was the first software release for the HP ProCurve Switch 4108GL.

Release G.07.53 04/01/04

■ **GVRP (PR_1000005082)** — Vague error message (`Commit failed`) when trying to add more than max VLANs using the CLI

■ **RMON (PR_1000011690)** — When RMON thresholds in the switch are exceeded, no trap is generated.

■ **Web (PR_1000000256)** — Web UI refers to the J4908A card as "humpback module".

■ **Web (PR_1000003580)** — The Web UI allows the user to specify the broadcast or multicast addresses as the destination address for Linktest.

■ **Web (PR_1000004111)** — Web UI: Stack Management view —> scroll problem.

■ **Web (PR_1000007144)** — VLAN Configuration help link is not available.

Release G.07.52

■ **Never Released.**

■ **Link (PR_1000005603)** — The J4863A 100/1000 module cannot achieve Ethernet Link when configured for 100Mbps FDx when the switch is running G.07.50 or G.07.51.

Release G.07.51

- **Never Released.**

- **Crash (PR_1000002979)** — Software exception at rstp_port_role_sm.c:44 -- in 'mRstpCtrl.

- **Enhancement: New Boot ROM (PR_98583)** — The currently shipping Switch 4100 BootROM, G.05.01 (note that Boot ROM versions and OS versions use a similar format, but are not in sync), will only accept and boot images that are less than or equal to 3 MB in size. The new Boot ROM, G.05.02 will allow OS releases to grow to 3.4375 Mbyte.

  The G.05.02 ROM along with 'patcher' firmware is embedded into G.07.51 and later OSs. After the download completes enter **show flash** to verify that the switch reports the new ROM version, G.05.02. Here is an example **show flash** output for the new Boot ROM:

  ```
  HP ProCurve Switch 4108XL# sh flash
  Image            Size(Bytes)   Date     Version
  -----            ----------   --------  -------
  Primary Image   : 3365906     01/26/04  Gxx.xx
  Secondary Image : 3003743     02/13/04  Gxx.xx
  Boot Rom Version: G.05.02
  Current Boot    : Primary
  ```

  After booting the 4100gl switch, verify the new Boot ROM is running by noting this screen output during self-test:

  ```
  ROM information:

      Build directory: /sw/rom/build/gamrom(m04)
      Build date: Feb 4, 2004
      Build time: 08:46:18
      Build version: G.05.02
      Build number: 8124
  ```

  The 'patcher' will not update any Boot ROM with an "X" in the version number (e.g. G.05.0X). That switch should be removed from your network and returned to HP for replacement.

Note: While 'ROM' typically means read-only memory, the 4100 downloads (new) ROM code into non-volatile memory. Boot ROM G.05.02 checks the size of new OS's when downloading them to ensure that flash will not be corrupted by too large an OS. Previous Boot ROMs did not perform size checks and would allow a user to download a too-large OS and corrupt Boot ROM. Downloading G.07.51 into a switch automatically installs the G.05.02 Boot ROM and results in about 0.5 MB of free flash space. In other words, there is no separate or different procedure for updating to the new Boot ROM.

To downgrade from any Boot ROM to an older Boot ROM, call Technical Support.

- **IP Stack Management (PR_97921)** — Under some circumstances the user can change a Stack member's password without being logged in (to the member).

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- **Routing (PR_1000003867)** — ICMP Redirect entries don't age (from the route table). When the route table fills we cannot add new routes. Note: users are likely unaware that we store ICMP Redirect entries in the route table.

- **RSTP (PR_1000001612)** — Under some circumstances a port may take approximately 30 seconds to go into Forwarding state.

- **sysUptime (PR_10000004025)** — `sysUpTime` rolls over (to zero) after approximately 49 days. With this fix it now correctly rolls over after about 1.6 years (2^32 times 1 cSecond).

- **Web (PR_81848)** — The 'Clear changes' button does not work for the Default Gateway or VLAN selections.

- **Web (PR_82039)** — 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's configuration. It is a cosmetic defect.

- **Web (PR_82199)** — 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 (PR_92078)** — After making changes under the **Device Features** tab the resulting page never fully loads.

- **Web (PR_97407)** — When the user tries to add a MAC address that is already a MAC lockout address (as an authorized address) the switch responds with the incorrect message, `Unable to add new MAC Address. MAC entry is either a multicast, broadcast or NULL address.`

- **Web (PR_1000000452)** — Resetting the switch leads to the URL `aol.co.uk`

- **Web: (PR_1000001702)** — Sometimes when the user clicks on the Apply button on the **Configuration/Monitor Port** screen the switch complains, `not enough params specified`.

- **Web/GVRP (PR_1000003124)** — When GVRP is enabled and the user tries to add a new VLAN using the Web UI, the error message is the vague `Commit failed`. With G.07.51 this error message is now `Maximum number of VLANs (max-vlans) has already been reached`. Secondly, also in the Web UI, the switch gives the vague error message, `An error was encountered while attempting to add the VLAN entry`. In G.07.51 the switch reports that the maximum number of VLANs has already been reached.

Release G.07.50 11/11/03

The version number for this release was increased to represent the new support for the 10/100/1000Base-TX module (J4908A).

Release numbers G.07.28 through G.07.49 were never created.

- **802.1p (PR_93590) —** 802.1p priority settings not kept across boot even though they are in the config file.

- **CLI (PR_88755) —** Gig Transceiver settings on a TFTP'd configuration file were lost when downloaded to system (found against Version G.07.22).

- **CLI (PR_92426) —** Unable to delete a VLAN by name if it has a numeric name. Numeric VLAN names will now be disallowed if it falls within the range of VLAN IDs (i.e. VLAN name 99999 is valid, while VLAN name 100 is not). VLAN names are now also case sensitive.

- **CLI (PR_93483) —** Help message for setMIB command shows incorrect usage.

- **CLI (PR_96888) —** ip routing help gives incorrect command usage. "ip routing help" states usage is "**[no] routing**"; should be "**[no] ip routing**".

- **CLI (PR_96889) —** ip helper-address help gives incorrect command usage. "ip helper-address help" gives command usage as "**[no] dhcp-server IP-ADDR**"; should be "**[no] ip helper-address IP-ADDR**".

- **Config (PR_96698) —** A TFTP Config file with a tilde character (~) in a command resulted in some config commands being lost. The tidal character is not allowed by the CLI and will now log an error message if an uploaded config file contains the invalid character.

- **Console (PR_97705) —** Console lock-up (land.c attack).

- **Crash (PR_90184) —** Assertion failed: ! sal_int_context(), file cmic.c, line 375. Bad transceiver, cables or CRC/Alignment errors caused a crash. More information provided when/if this crash happens.

- **Crash (PR_95525)** — Switch is crashing with a bus error:

  Crash msg: Bus error: HW Addr=0xe1f08796 IP=0x003a51b4 Task='mInstCtrl' Task I D=0x1767af8 fp: 0x00000006 sp:0x01767988 lr:0x003979a4

  Errant Data Structure removed.

- **Crash (PR_98417)** — System under heavy traffic crashes with the following message:

  Crash msg: Software exception at bcm56xxDmaTx.c:524 -- in 'eChassMgr', task ID =0x1754328-> Out of pkt buffers; mRstpCtrl using 1726

- **Error Log (PR_88578/98618) —** In a very busy network, occasional Warning messages are logged as "Msg loss detected - no ack for seq #N".

- **Flooding (PR_98155) —** Layer 2 stress environment, when ~7500 MAC address are learned/aging out, traffic to particular MAC address are being flooded to all ports in the VLAN.

- **Flow Control (PR_98117) —** Flow Control not working when port is forced to 100 or 10 FDX.

- **IRDP (PR_98092)** — IRDP (ICMP Router Discovery Protocol) did not return a router address to the requesting PC.

- **LACP (PR_98026)** — Dynamic active or passive LACP ports do not aggregate into the trunk group resulting in STP loops.

- **Mgmt (PR_96924)** — Device unmanageable when heavily loaded with software routing.

- **POST (PR_98922)** — Known good module fails to come up under heavy stress conditions.

- **Routing (PR_94958)** — Routing performance degrades after 10 minutes of continued traffic. Traffic was being routed in software due to a prematurely aged out MAC entry. ARPs will now be sent out 1/minute to reinstate a proper MAC entry with a valid ARP entry.

- **Routing (PR_95616)** — Packets dropped when routing packets from a Trunk Group and the destination is the same Trunk Group.

- **STP (PR_97602)** — Trunking & RSTP enabled, broadcast storm

- **Trunks (PR_90615/91727)** — Traffic not forwarding on a trunk group using ports from 2 modules.

- **Web (PR_82157)** — On a "First Time Install" instance of the web interface, missing graphic on the pop up window.

- **Web (PR_90858)** — "VLAN Name" text field won't clear after 12 characters are entered.

- **Web/CLI (PR_89900)** — Though the Web UI reports excessive CRC/Alignment errors, these errors were not recorded by CLI port counters.

Release G.07.27 9/05/03

- **WEB (PR_82530)** — Browsers running with Sun Java versions 1.3.x can result in the browser closing. Sun Java versions 1.4.x can result in very high CPU utilization in the switch, which causes problems for protocol processing (e.g. STP, IGMP, CDP, console, etc.) and other processes that require the CPU.

Release G.07.26 8/13/03

- **ARP (PR_91694)** — When port monitoring is enabled, the switch does not forward broadcast ARPs out all ports.

- **Trunks (PR_91727)** — Connectivity problems when a trunk is connected to different modules in the same switch.

Release G.07.25

- **Never Released.**

- **Agent Hang (PR_92802) —** Cannot ping or TELNET the switch. The switch's Console is active, though.

- **Bus Error (PR_92466) —** HW Addr=0x3861000c IP=0x002df470 Task='mAdMgrCtrl' Task ID=0x16e616 0 fp: 0x006a090c sp:0x016e5df0 lr:0x0021d6d8.

- **J4862A->J4862B (PR_89796) —** Upgrading from a 10/100 Revision A to Revision B blade, the slot's configuration may be lost.

Release G.07.24

- **Never Released.**

- **Testmode (PR_92364) —** inetstatshow testmode command does not provide valid output.

Release G.07.23

- **Never Released.**

- **WEB (PR_90065) —** Attempt to change subnet mask fails.

- **WEB (PR_90066) —** Attempt to change port config fails.

- **WEB (PR_90068) —** Changing stacking attribute fails.

Release G.07.22 01/27/03

- **DHCP Relay (PR_5870) —** Switch drops DHCP Discover packets transmitted from Mitel IP phones. Also, switch incorrectly relayed DHCP offer packets as unicast instead of as broadcasts.

- **IGMP (PR_5991) —** If switch receives an IGMPv3 Join with a reserved Multicast address, or an invalid IP Multicast address, the switch may with a message similar to: -> Software exception at alloc_free.c:479 -- in 'tDevPollTx' Task ID = 0x1825f70 -> 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 G.07.21 12/19/02

■   **Crash (PR_5915)** — The switch may crash with a message similar to: -> Software exception at gamHwLearn.c:277 -- in 'mAdMUpCtrl' Task ID = 0x8047bca0 -> ASSERT: failed

Release G.07.20

■   **Never released.**

■   **CDP (PR_5054)** — CDP multicasts are not passed when CDP is disabled on the switch.

■   **CLI (PR_5053)** — Setting the telnet inactivity timeout from the CLI does not indicate a reboot is necessary for changes to take effect.

■   **CLI (PR_5242)** — Information in the command "show boot-history" is not in the order claimed (most recent first).

■   **Crash (PR_4986)** — The switch may crash with a message similar to: -> Bus error: HW Addr=0x00ffffff IP=0x332c4530 Task='mSess1' Task ID=0x16a62f0 fp: 0x2e2e2e29 sp:0x016a61a0 lr:0x0010f028 This crash can occur when eight transceiver modules are installed and the command "interface all" is typed in the configuration context.

■   **Crash (PR_5236)** — The switch may crash with a message similar to: -> AlphaSlaveAd-drmgr.p 1021 this tim This crash can occur when a module is hot-swapped after downloading new software to the switch without rebooting.

■   **Crash (PR_5418)** — The switch may crash with a message similar to: -> Software exception at rtsock.c:459 -- in 'tNetTask', task ID = 0x1a225b0

■   **Crash (PR_5635)** — The switch may crash with a message similar to: -> Assertion failed:0, file drvmem.c, line 167

■   **Crash (PR_5679)** — The switch may crash with a message similar to: -> Bus error: HW Addr=0x00000000 IP=0x00000000 Task='mNSR'   Task ID=0x1725148 fp: 0x0000c4b0 sp:0x012e9780 lr:0x00330674

■   **Crash (PR_5846)** — WhatsUpGold telnet scan can cause switch to run out of memory and crash with error message similar to: -> malloc_else_fatal() ran out of memory

■   **Date/Time (PR_5264)** — The timezone can cause the date to wrap if the timezone is set to a valid, but negative value (like -720) without previously configuring the switch's time. The switch may report an invalid year (i.e. 2126).

- **Event Log (PR_5154)** — When a module fails to download, the severity code is INFO instead of WARNING.

- **FFI/Port Counters (PR_5280)** — FFI and port counters don't have consistent values.

- **FFI/Port Counters (PR_5429)** — No errors are reported by the FFI or port counters when linking at 100 HDX on a Gigabit port with a duplex mismatch.

- **Flow Control (PR_5102)** — Setting a port "X1" in 10-HDX, then attempting to turn on flow control returns an error similar to: "Error setting value fl for port X2". The error should read "X1".

- **GVRP (PR_5284)** — Port does not register VLAN even though advertisements are received.

- **Hot-swap (PR_4900)** — Hot-swapping a transceiver logs a message requesting to reboot the switch in order to enable the port, while this is not necessary.

- **LACP/Port Security (PR_5059)** — With LACP on, the command "port-sec a1 l c action send-alarm" fails with a message similar to "learn-mode: Inconsistent value".

- **Menu (PR_5346)** — The one-line help text below the password entry field, displays the message "Enter up to 16 characters (case sensitive), or just press <Enter> to quit". It should read "sensitive".

- **Port Configuration (PR_5444)** — When interchanging 10/100-TX modules J4862A and J4862B, the port configuration of the module originally installed in the switch is lost.

- **Port Counters (PR_5171)** — The "Total RX Error" counter is incorrect when the port has heavy 10HDx traffic.

- **Port Counters (PR_5204)** — The Runt Rx counter in the detail port counter screen, does not increment when there are fragments.

- **Port Counters (PR_5400)** — The 64-bit counter for the highest numbered port on a given module, does not update properly.

- **RADIUS (PR_4886)** — Pressing the tab key gives error message similar to "BAD CHARACTER IN ttyio_line: 0x9n" when entering a username for the radius prompt.

- **SNMP (PR_5349)** — The switch does not send SNMP packets larger than 484 bytes.

- **SNTP/TIMEP (PR_5018)** — SNTP still runs when timep is enabled.

- **System Information (PR_5169)** — Up Time displayed is not correct.

- **TFTP (PR_5034)** — Trying to TFTP a config onto the switch causes the switch to not complete its reload process. The switch hangs and does not come up.

- **Web-Browser Interface (PR_4495)** — Administrator password can be used in combination with the operator username.

- **Web-Browser Interface (PR_4904)** — When a transceiver is removed from the switch, its configuration is not cleared on the Status->port status screen of the web UI. The transceiver type will still show until a new transceiver is inserted.

- **Web-Browser Interface (PR_4996)** — When using a ProCurve Switch 4108 as a commander switch in the stack, a ProCurve Switch 2424M is not shown in the device view of the stack closeup in the web UI. The message "Device view, HP2424M, not supported by firmware of commander" is present instead of the device view.

- **Web-Browser Interface (PR_5055)** — Missing firmware/ROM information in Web UI.

- **Web-Browser Interface (PR_5158)** — When clicking on the Web UI System Info "Apply Changes" button, a character appears under the "VLAN Configuration" tab.

Release G.05.06.

- **Never released.**

- **Crash (PR_5712)** — The switch may crash with a message similar to: TLB Miss: Virtual Addr=0x00000000 IP=0x8002432c Task='tSmeDebug'

- **Crash (PR_5745)** — The switch may crash with a message similar to: Divide by Zero Error: IP=0x801400c0 Task='sal_dpc_hi' Task ID=0x80616690 fp:0x00000000 sp:0x80616600 ra:0x800140060 sr:0x1000af01

- **Module (PR_5270)** — Modules intermittently fail to boot during switch boot up.

Release G.05.05

- **Never released.**

- **ARP (PR_4880)** — Changing the IP address of an interface does not flush the ARP entries of the original IP address.

- **CLI/Timezone (PR_4992)** — The timezone changes made for PR_4524 are not transparent to the end-user. On download of configuration, and during initialization, check for a transition from code G.04.XX to G.05.XX and adjust configured timezone.

- **Configuration (PR_5025)** — If the user enables portfast (that is, "spanning-tree 1-24 mode fast") the switch can't read the configuration during reload and stops the reload process.

- **Crash (PR_4892)** — The switch may crash with a message similar to: -> Asserts in rv.cc line 632

- **Crash (PR_5345)** — The switch may crash with a message similar to: -> Assertion failed:0, file drvmem.c, line 167

■ **Crash (PR_5708)** — The switch may crash with a message similar to: -> Unalligned Access: Virtual Addr=0x847e6929 IP=0x800270bc Task='tMsgCount'   Task ID=0x804bf800 fp:0x804bf788 sp:0x804bf788 ra:0x800270b4 sr:0x1000af01

■ **Crash (PR_5714)** — The switch may crash with a message similar to: -> Bus error: HW Addr=0x00000000 IP=0x002f6148 Task='mHttpCtrl'

■ **Crash (PR_5715)** — The switch may crash with a message similar to: -> Bus error: HW Addr=0x00000000 IP=0x001429e0 Task='mChassCtrl'   Task ID=0x16d0748

■ **Crash (PR_5725)** — The switch may crash with a message similar to: -> Assertion failed: nt, file dpc.c, line 169

■ **Crash/Continuous Reboot (PR_5046)** — Downloading a certain configuration will cause the switch to bus error and reboot repeatedly.

■ **GVRP (PR_4898)** — Upstream GVRP neighbor loses connectivity with downstream neighbor after topology change.

■ **GVRP (PR_5076)** — GVRP registrations are not occurring appropriately after port blocks/ unblocks.

■ **GVRP (PR_5085)** — Switch stops advertising tagged and untagged VLANs on all ports when GVRP port disable is set for one port.

■ **Hot-swap (PR_5012)** — After hot-swapping a Gig-T module, the switch (incorrectly) detects a self-test failure with the module.

■ **Link-up Polling Interval (PR_5000)** — A delay of up to 1.7 seconds between plugging in a cable (linkbeat established) and traffic being forwarded to and from that port may cause problems with some time sensitive applications. For example, AppleTalk dynamic address negotiation can be affected, resulting in multiple devices using the same AppleTalk address.

■ **TACACS (PR_5226)** — During TACACS Authentication the TACACS Server's IP address is shown on the switch's 'splash screen'. [Fix is to not display the TACACS Server's IP address.]

■ **TCP (PR_5227)** — TCP port 1506 is always open. [Fix is to close TCP port 1506.]

■ **TFTP/Config File (PR_5032)** — When a configuration file is copied from a TFTP server onto the switch, it removes "no ip untagged 2" from the VLAN configuration.

■ **Web-Browser Interface (PR_4702)** — When configuring a static learn mode for port security, the message "error in pdu" is displayed if the port does not have LACP disabled.

■ **Web-Browser Interface (PR_4976)** — Mis-spelled word on the product registration screen of the WEB UI. The phrase "...does not appears above..." is now "...does not appear above..."

- **Web-Browser Interface (PR_5052, 5140)** — The CLI does not disable the web-browser interface.

- **Web-Browser Interface (PR_5199)** — Having a ProCurve switch 4100GL series as a commander, and a ProCurve switch 4000m as a member of the stack, the stack commander was not checking security when doing passthrough.

Release G.05.04 11/4/02

- This build is identical to G.05.03, but was intended to be a general release build, and so was archived and labeled.

- **Crash (PR_4621)** — The switch may crash with a message similar to:
  -> NMI occurred: IP=0x00317d9c MSR:0x0000b000 LR:0x00013b88 Task='eDrvPollRx' Task ID=0x1708f20 cr: 0x22000080 sp:0x01708e60 xer...

Release G.05.03

- **Never released.**

- **Crash (PR_4621)** — The switch may crash with a message similar to:
  -> NMI occurred: IP=0x00317d9c MSR:0x0000b000 LR:0x00013b88 Task='eDrvPollRx' Task ID=0x1708f20 cr: 0x22000080 sp:0x01708e60 xer.

Release G.05.02 4/19/02

- **(PR_4944) Continuous Module Reset** — The J4893A ProCurve Switch GL mini-GBIC module will go into a continual reset loop when both of the following conditions are met:

  1. the module is inserted in slot A; and

  2. certain traffic conditions occur on port 6 of the module

- **Crash (PR_4874)** — The switch may crash with a message similar to:
  -> Software exception at alloc_free.c:545 -- in 'eDrvPoll'

- **Crash (PR_4901)** — The switch may crash with a message similar to:
  -> Bus Error: HW Addr=0x0000000 IP=0x002fe640 Task='eTelnetd'
  This crash has been associated with security/vulnerability test applications such as Nessus.

- **Loop/VTP (PR_4945)** — The switch will incorrectly forward VTP packets from third party devices if that packet is received on a blocked port.

- **Web-Browser Interface (PR_3634)** — After clearing the intrusion flag in the web-browser interface, the intruder flags are not removed.

Release G.05.01

- **Never released.**

- Adds support for the ProCurve Switch 4104GL.

- Adds support for the J4893A ProCurve Switch GL mini-GBIC module.

- Time Zone Issue: Starting with the G.05.xx version of the switch operating system software, the method of configuring the Time Zone for TimeP or SNTP configuration has been updated. Previous switch software, for all HP ProCurve switches, used positive time offset values for time zones that are West of GMT and negative values for time zones that are East of GMT. The standards indicate that time zones West of GMT should be designated by negative offset values, and time zones East of GMT by positive values. Software version G.05.xx updates this configuration method, but if you use the same values for indicating time zones as you did for previous HP ProCurve switches, the time will be set incorrectly on your Series 4100GL Switch. For example, for previous HP ProCurve switches, the US Pacific time zone was configured by entering +480. With software version G.05.xx, the US Pacific time zone must now be configured by entering -480.

- **Agent Hang (PR_4381)** — Agent processes (such as console, telnet, STP, ping, etc.) may stop functioning when the IGMP querier function is disabled, and then re-enabled, on a VLAN that does not have an IP address configured.

- **Agent Hang (PR_4562)** — Agent processes (such as console, telnet, STP, ping, etc.) may stop functioning. This agent hang has been associated with the CERT SNMPv1 "encoding" test #1150.

- **Agent Hang (PR_4805)** — Agent processes (such as console, telnet, STP, ping, etc.) may stop functioning. This agent hang has been associated with the X2 SSH utility.

- **CLI (PR_3786)** — The CLI command "show arp" displays the wrong port number for some ARP entries.

- **CLI (PR_3792)** — The CLI command "show trunks" lists incorrect information for dynamic trunks.

- **CLI (PR_3809)** — The CLI command "getmib" with no parameters returns the message "Incomplete input: - EOI -".

- **CLI (PR_3895)** — Unrelated information was shown at the end of the CLI command "show vlan 1" output.

- **CLI (PR_3940)** — Command "no qos" did not reset port priority to "0".

- **CLI (PR_4108)** — When reaching the inactivity timeout expiration after typing the CLI command "enable" in a telnet session at operator mode, the text in the CLI prompt may get corrupted with text similar to "gfs_alp_104Null Varbind".

- **CLI (PR_4406)** — The CLI command "show tech" causes an error message when the command is executed from within config mode.

- **CLI (PR_4474)** — The prompt for saving the config does not handle a DISC character appropriately.

- **CLI/Timezone (PR_4524)** — The switch time is wrong if CLI used to set timezone and timezone may not operate properly after switch is rebooted. West of GMT is now a negative offset and east of GMT is now a positive offset.

- **Crash (PR_3711)** — When hot-swapping transceivers multiple times, the switch may crash with a message similar to: -> Software exception at port_sm.c:378 in -- 'mPmSlvCtrl'

- **Crash (PR_4006)** — If dynamic trunks are configured and the switch is rebooted, the switch may crash with a message similar to: ->Software exception at rstp_dyn_reconfit.c:243 in -- 'Lpmgr'

- **Event Log (PR_3964)** — Log messages for trunks and trunk members enhanced to be easier to read.

- **GARP/Event log (PR_4238)** — GARP event log messages may be garbled.

- **IGMP (PR_3248)** — Interoperability issues with some Cisco devices (such as some Cisco Catalyst 5000 & 6000 series switches) cause IGMP groups to be aged out of the switch's IGMP tables prematurely.

- **LACP/802.1x (PR_3868)** — 802.1x and LACP trunks can co-exist on the same port. [Fix is to make these trunks mutually exclusive.]

- **LACP (PR_3954)** — LACP maintains a dynamic trunk with only 1 port configured for the trunk group.

- **Menu (PR_2259)** — The switch may not display the complete forwarding table while performing a MAC address search.

- **Menu (PR_2926)** — Incorrect error message is displayed when attempting to create a VLAN which exceeds the maximum number of VLANs supported. [Fix is to display an error message similar to "Maximum number of VLANs (8) has already been reached."]

- **Menu (PR_3024)** — Menu does not allow a port configuration change from a full- duplex/ flow control setting to a half-duplex/no flow control setting.

- **Menu (PR_3509)** — Menu does not allow trunks to be configured on transceiver ports that have never had a transceiver installed before.

- **Menu/CLI (PR_3920)** — Modified help message for RSTP.

- **Menu/VLAN (PR_3975, 3976)** — The VLAN help text has been modified

- **Module Crash (PR_4229)** — A module may crash with a message similar to: -> Assertion failed: soc->soc_link_pause >0,f

- **NNM/Stacking (PR_4556)** — If stacking is configured, NNM cannot discover the device as a generic switch.

- **STP Fast Mode (PR_4659)** — A port configured for STP fast mode behaves like a standard STP port.

- **STP/RSTP (PR_4170)** — Port path cost is reset even though path cost is configured for "Auto".

- **STP/Running-Config (PR_4488)** — STP path-cost is not written to the configuration when using the CLI.

- **STP/Startup-Config (PR_4141)** — When a startup-config file containing an 802.1d STP configuration is reloaded that was saved off from the switch, an error similar to the following occurs: Line: 13. Invalid input: stp802.1d Corrupted download file.

- **TACACS+ (PR_4110)** — When logging into the switch via TACACS+ encrypted authentication, the packet header has the 'encryption' field set to 'TAC_PLUS_CLEAR' when the body of the packet is actually encrypted.

- **XRMON (PR_4215)** — The switch incorrectly reports XRMON support to TopTools query.

Release G.04.05

- **Never released.**

- Modification of Lab troubleshooting commands.

Release G.04.04 1/10/02

- Caution Regarding Gigabit-SX and -LX Port Settings for Links Between an HP Series 4100GL Switch and Other Switch Models:
  In the HP 1600M/2400M/2424M/4000M/8000M switches, and also in other vendors' switches, the default port mode setting for the Gigabit-SX and Gigabit-LX ports is forced 1000FDx (Gigabit full-duplex). However, the default port mode for the Gigabit- SX and -LX ports in the HP 4108GL is Auto. In earlier software releases, the HP 4108GL tolerated this mismatch and allowed SX and LX links with these other switches to exist. The HP 4108GL (when running software release G.04.04 or greater) now complies with the Gigabit-SX and -LX standard that disallows linkbeat to be enabled when there is a mismatch. (The HP 4104GL, introduced with software release G.05.02, also complies with this requirement.) Thus, mismatched links between Gigabit-SX and -LX ports on an HP Series 4100GL switch and the HP 1600M/2400M/2424M/4000M/8000M switches or other switches that were formerly

allowed will now fail. To avoid this problem either reconfigure the Gigabit-SX and -LX ports to Auto on the HP 1600M/2400M/2424M/4000M/8000M switches or other switches, or reconfigure the Gigabit-SX and -LX ports on the HP Series 4100GL switches to 1000FDx.

Release G.04.03

■ **Never released.**

Release G.04.02 12/21/01

■ **Corrupted Flash (PR_3932)** — An SNMP set, during the OS download operation of ToptTools, while the switch is writing new OS to flash may result in corrupted flash and switch may boot up in LAN Monitor mode.

Release G.04.01

■ **Never released.**

■ Friendly Port Names

■ SSH Security (SSHv1)

■ RADIUS Security

■ Port-Access (802.1x) Security

■ QoS Priority

■ Rapid Spanning Tree (802.1W)

■ Performance enhancements to the message system has resulted in minimizing, or eliminating the following types of messages from occurring in the event log and boot history:

■ ARL-1 problem detected. Please contact HP Support ARL-2 problem detected. Please contact HP Support

■ NOTE: The startup-config file saved under version G.04.01, or later, is NOT backward-compatible with previous software versions. The user is advised to save a copy of the pre-04.01 startup-config file BEFORE UPGRADING to G.04.01 or greater, in case there is ever a need to revert back to pre- 04.01 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 on the Product Documentation CD-ROM (PDF format)) that shipped with the switch.

- **CLI (PR_3521)** — The response to an incomplete trunk configuration command did not produce the proper message "Incomplete input: Trunk."

- **CLI (PR_3750)** — The crash history is lost after the "reload" command is performed from the CLI.

- **Crash (PR_3736)** — Switch may crash with a message similar to: ->Software exception at bcm56xxDmaPoll.c:342--in 'sal_dpc_hi' ->Msg loss detected

- **Crash/Bus Error (VARIOUS)** — A Get request of a specific long OID can result in a bus error, an agent hang, or a switch crash with a message similar to: -> Software_exception at svc_misc.s:379 -- in mCdpCtrl malloc_else_fatal() ran out of memory This crash has been associated with the CERT SNMPv1 "Req-app" test suite.

- **Flow Control (PR_3026)** — Changing Flow Control setting on a port is not reflected in Auto-negotiation's advertised capability.

- **Menu/Web-Browser Interface (PR_3534)** — Display of mirror port configuration is inconsistent between menu and WEB interface.

- **Port Configuration (PR_3028)** — Changing a port setting from one Auto mode to another may not be reflected in Auto-negotiation's advertised capability without a switch reset, or module hot-swap.

- **Port Monitoring (PR_3596)** — Port monitoring does not work correctly after a TFTP transfer of the configuration from the switch to the server and then back to the switch.

- **Stack Management (PR_3493)** — Master switch was not properly making security checks when passing information along to a member switch.

- **TFTP (PR_3518)** — Menu and browser displays of switch configuration are not accurate after a TFTP transfer of the switch config file to the switch. Only occurs when a port is configured for network monitoring.

- **Web-Browser Interface (PR_1483)** — User could input an invalid MAC address, i.e. multicast or broadcast address, in the security policy field.

- **Web-Browser Interface (PR_3113)** — Incorrect font size used in VLAN configuration screen.

- **Web-Browser Interface (PR_3519)** — Web display of port utility window did not display port H24.

Release G.03.13 12/13/02

- **Inter-module Communication Problems (PR_3856)** — When the switch's MAC address learning function detects the same MAC address on two different modules within a small interval of time (this could happen if two end nodes have the same MAC address or if there

is a loop in the network), the address tables on the modules may get out of sync. This can cause module-to-module communication problems for devices connected to the modules whose address tables have become out of sync.

■ **XMODEM (PR_2999)** — If the CLI "copy xmodem flash" command is used to download the OS, the switch incorrectly displays one of the two following messages after the validate and write process completes: 1) "User timeout, must hit ENTER before starting XMODEM Transfer"; or 2) "Transfer terminated due to timeout"

Release G.03.12

■ **Never released.**

■ Update to the Manufacturing-only test routine.

Release G.03.11

■ **Never released.**

■ Update to the Manufacturing-only test routine.

Release G.03.10 6/28/01

■ Performance enhancements to the message system, address learning, and SNMP.

Release G.03.09 6/27/01

■ The switch's CDP packets have been modified to better interoperate with older Cisco IOS versions. Certain legal CDP packets sent from the ProCurve switch could result in Cisco routers, running older IOS versions, to crash. Note: The ProCurve switch's CDP packets are legal both before and after this modification.

■ **IGMP (PR_2997)** — Switch may stop sending IGMP queries on some VLANs.

■ **IGMP (PR_3045)** — With IGMP enabled, toggling IGMP off and then on again causes all querier intervals to be cut in half.

■ **LACP (PR_2979)** — Ports are put into Standby mode when they shouldn't be.

■ **LACP (PR_3006)** — Dynamic LACP creates 2 trunks when it should only create one.

■ **LACP (PR_3019)** — When an LACP port is put into Standby mode, MAC address learning on the switch may stop.

Release G.03.08 5/21/01

■ First release for the HP ProCurve Switch 4108GL.