



Release Notes:

Version M.08.86 Software

for the ProCurve Series 3400cl and 6400cl Switches

Release M.08.86 supports these switches:

- ProCurve Switch 3400cl-24G (J4905A) and 3400cl-48G (J4906A)
- ProCurve Switch 6400cl-6XG 10-GbE CX4 (J8433A), and 6410cl-6XG 10-GbE X2 (J8474A)

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 8](#))
- A listing of software enhancements in this release ([page 13](#))
- A listing of software fixes included in releases M.08.51 through M.08.8x ([page 22](#))

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*, 5990-6050, January 2005 or later
- Advanced Traffic Management Guide*, 5990-6051, January 2005 or later
- Access Security Guide*, 5990-6052, February 2005 or later

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

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Applicable Product

ProCurve Switch 3400cl-24G	(J4905A)
ProCurve Switch 3400cl-48G	(J4906A)
ProCurve Switch 6400cl-6XG 10-GbE CX4	(J8433A)
ProCurve Switch 6410cl-6XG 10-GbE X2	(J8474A)

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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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Hewlett-Packard Company
8000 Foothills Boulevard, m/s 5551
Roseville, California 95747-5551
www.procurve.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:
 - 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 3).
- 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 M_08_8x.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 M_08_8x.swi
The primary OS image will be deleted. continue [y/n]? Y
03125K
```

1. 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:

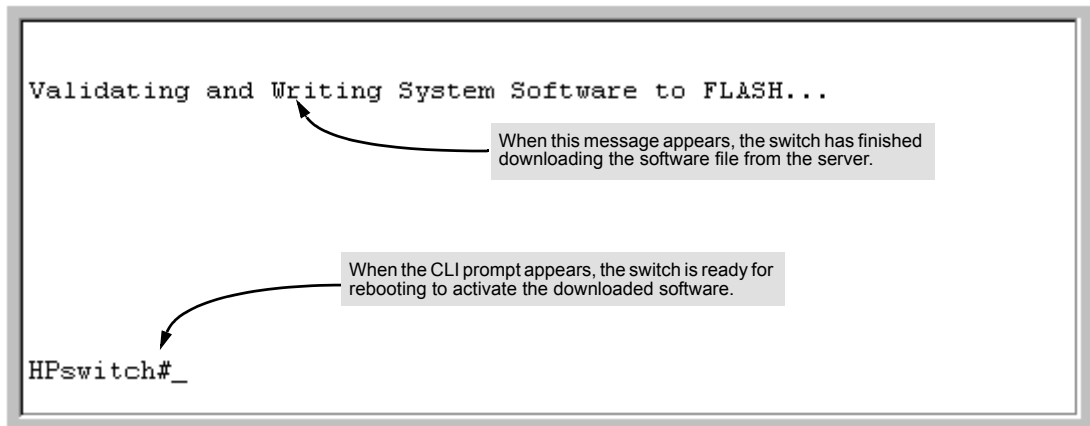


Figure 1. Message Indicating the Switch Is Ready To Activate the Downloaded Software

2. 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 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. 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.

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)
M	Switch 3400cl Series (3400-24G and 3400-48G) and Series 6400cl (CX4 6400cl-6XG and X2 6400cl-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.)

Minimum Software Versions for Series 3400cl/6400cl 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 ProCurve Networking Web site at <http://www.procurve.com>.
2. Click on **Software updates**.
3. Click on **Minimum Software Version Required by Feature**.

For Switch 3400cl Hardware Accessories.

ProCurve Device	Minimum Supported Software Version
J8434A ProCurve 10-GbE Copper Module	M.08.61
J8435A ProCurve 10-GbE Media Flex Module	M.08.61
J8436A ProCurve 10-GbE X2 SR-SC Xcvr	M.08.51
J8437A ProCurve 10-GbE X2 LR-SC Xcvr	M.08.51
J8439A ProCurve 10-GbE CX4 Media Converter	M.08.51
J8440A ProCurve 10-GbE X2 CX4 Xcvr	M.08.51

For Switch 6400cl Hardware Accessories.

ProCurve Device	Minimum Supported Software Version
J8434A ProCurve 10-GbE Copper Module	M.08.62
J8435A ProCurve 10-GbE Media Flex Module	M.08.62
J8436A ProCurve 10-GbE X2 SR-SC Xcvr	M.08.62
J8437A ProCurve 10-GbE X2 LR-SC Xcvr	M.08.62
J8439A ProCurve 10-GbE CX4 Media Converter	M.08.62
J8440A ProCurve 10-GbE X2 CX4 Xcvr	M.08.62

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

Non-Genuine Mini-GBIC Detection and Protection Initiative

Non-genuine ProCurve Transceivers and Mini-GBICs have been offered for sale in the marketplace. To protect customer networks from these unsupported products, ProCurve switch software includes the capability to detect and disable non-genuine transceivers and mini-GBICs discovered in Series 3400cl Switch ports. When a non-genuine device is discovered, the switch disables the port and generates an error message in the Event Log.

Publication Updates

Table 1 lists updates to the manual set dated January, 2005.

Table 1. Publication Updates for Manual Set Dated January, 2005

<i>Management and Configuration Guide for the 3400cl, 5300xl, & 6400cl Switches</i> , p/n 5990-6050, January 2005 Edition	Update
Chapter 14: "Configuring for Network Management Applications" Pages 14-44 and 14-49	The show lldp info stats is an invalid command. The correct syntax is: show lldp stats .

IGMP Command Update

The following information updates and clarifies information in Chapter 4, “Multimedia Traffic Control with IP Multicast (IGMP)” in the *Advanced Traffic Management Guide*—part number 5990-6051, September 2004 edition. Please refer to this chapter for a detailed explanation of IGMP operation.

The 3400cl switches support the following standards and RFCs:

- RFC2236 (IGMP V.2, with backwards support for IGMP V.1)
- Interoperability with RFC3376 (IGMPv3)
- IETF draft for IGMP and MLD snooping switches (for IGMP V1, V2 V3)

The 3400cl switches:

- Provide full IGMPv2 support as well as full support for IGMPv1 Joins.
- Forward packets for the joined group from all sources, including IGMPv3 Joins.
- Do not support IGMPv3 “Exclude Source” or “Include Source” options in the Join Reports.
- Can operate in IGMPv2 Querier mode on VLANs with an IP address.

IGMP is supported in the HP MIB, rather than the standard IGMP MIBs, as the latter reduce Group Membership detail in switched environments.

Using Delayed Group Flush. This feature continues to filter IGMP groups for a specified additional period of time after IGMP leaves have been sent. The delay in flushing the group filter prevents unregistered traffic from being forwarded by the server during the delay period. In practice, this is rarely necessary on switches such as the Series 3400cl switches, which support data-driven IGMP. (Data-Driven IGMP, which is enabled by default, prunes off any unregistered streams detected on the switch.)

Syntax: `igmp delayed-flush < time period >`

Where leaves have been sent for IGMP groups, enables the switch to continue to flush the groups for a specified period of time (0 - 255 seconds). This command is applied globally to all IGMP-configured VLANs on the switch. A setting of 0 (zero) disables the feature. (Default: Disabled.)

Syntax: `show igmp delayed-flush`

Displays the current setting for the switch.

Setting Fast-Leave and Forced Fast-Leave from the CLI. In earlier switch models, including the 5300xl switches, fast-leave and forced fast-leave options for a port were configured with a lengthy **setmib** command. The following commands now allow a port to be configured for fast-leave or forced fast-leave operation with a conventional CLI command instead of the **setmib** command. Note that these commands must be executed in a VLAN context.

Syntax: [no] ip igmp fastleave < *port-list* >

*Enables IGMP fast-leaves on the specified ports in the selected VLAN. In the Config context, use the VLAN specifier, for example, **vlan < vid > ip igmp fastleave < port-list >**. The **no** form of the command disables IGMP fast-leave. (Default: Enabled)*

[no] ip igmp forcedfastleave < *port-list* >

Forces IGMP Fast-Leaves on the specified ports in the selected VLAN, even if they are cascaded. (Default: Disabled)

To view a non-default IGMP forced fast-leave configuration on a VLAN, use the **show running-config** command. (The **show running-config** output does not include forced fast-leave if it is set to the default of 0.)

Note

In a future version of the 3400cl switch software, the **show running-config** command output will include any non-default fast-leave settings configured. However, this information is not included in the output for the M.08.53 software release.

IGMP Operating Notes.

- On the Series 3400cl switches, the delayed group flush feature offers little additional benefit over the IGMP data-driven feature (which is enabled by default).
- Forced fast-leave can be used when there are multiple devices attached to a port.

Displaying Spanning-Tree Configuration Detail

These commands are available in the Series 3400cl switches, but are not included in chapter 6, “Spanning-Tree Operation” (in the *Advanced Traffic Management Guide* for your switch).

Syntax: show spanning-tree detail

Displays the 802.1D (STP) or 802.1w (RSTP) status and counters for all ports on the switch, depending on which spanning-tree option is enabled.

show spanning-tree < port-list > [config | detail]

config: *Displays the 802.1D (STP) or 802.1w (RSTP) spanning-tree configuration for the specified ports, depending on which spanning-tree option is enabled.*

detail: *Displays the 802.1D (STP) or 802.1w (RSTP) status and counters for the specified ports, depending on which spanning-tree option is enabled.*

General Switch Traffic Security Guideline

Where the switch is running multiple security options, it implements network traffic security based on the OSI (Open Systems Interconnection model) precedence of the individual options, from the lowest to the highest. The following list shows the order in which the switch implements configured security features on traffic moving through a given port.

1. Disabled/Enabled physical port
2. MAC lockout (Applies to all ports on the switch.)
3. MAC lockdown
4. Port security
5. Authorized IP Managers
6. Application features at higher levels in the OSI model, such as SSH.

(The above list does not address the mutually exclusive relationship that exists among some security features.)

The Management VLAN IP Address

The optional Management VLAN, if used, must be configured with a manual IP address. It does not operate with DHCP/Bootp configured for the IP address.

Interoperating with 802.1s Multiple Spanning-Tree

The ProCurve implementation of Multiple Spanning-Tree (MSTP) complies with the IEEE 802.1s standard and interoperates with other devices running compliant versions of 802.1s. Note that the ProCurve Series 9300 routing switches do not offer 802.1s-compliant MSTP. Thus, to support a connection between a 9300 routing switch and a 3400cl switch running MSTP, configure the 9300 with either 802.1D (STP) or 802.1w (RSTP). For more information on this topic, refer to the chapter titled “Spanning-Tree Operation” in the *Advanced Traffic Management Guide* for your 3400cl switch. (To download switch documentation, refer to [“Software Updates” on page 1.](#))

Rate-Limiting

The configured rate limit on a port reflects the permitted forwarding rate from the port to the switch fabric, and is visible as the *average* rate of the outbound traffic originating from the rate-limited port. (The most accurate rate-limiting is achieved when using standard 64-byte packet sizes.) Also, rate-limiting reflects the available percentage of a port’s entire inbound bandwidth. The rate of inbound flow for traffic of a given priority and the rate of flow from a rate-limited port to a particular queue of an outbound port are not measures of the actual rate limit enforced on a port. Also, rate-limiting is byte-based and is applied to the available bandwidth on a port, and not to any specific applications running through the port. If the total bandwidth requested by all applications together is less than the available, configured maximum rate, then no rate-limit can be applied. This situation occurs with a number of popular throughput-testing software applications, as well as most regular network applications.

As a performance consideration, implementing rate-limiting in heavy traffic situations involving QoS, can affect overall performance. For more information on rate-limiting operation, refer to “Operating Notes for Rate-Limiting” in the chapter titled “Optimizing Traffic Flow with Port Controls, Port Trunking, and Filters” of the *Management and Configuration Guide* for your ProCurve Series 3400cl switch. (To download switch documentation, refer to [“Software Updates” on page 1.](#))

Enhancements

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

Release M.08.85 through M.08.86 Enhancements

Software fixes only; no new enhancements.

Release M.08.84 Enhancements

Release M.08.84 includes the following enhancement:

Added the `show tech transceivers` command to allow removable transceiver serial numbers to be read without removal of the transceivers from the switch. :

Release M.08.80 through M.08.83 Enhancements

Software fixes only; no new enhancements.

Release M.08.79 Enhancements

CLI Port Rate Display

Beginning with release M.08.79 the CLI “show interface [port list]” command includes the port rate in the display. The rate displayed is the average for a period of 5 minutes, given in bps for 1G ports, or in Kbps for 10G ports. You can also use the CLI command: **show interface port-utilization** to display port-rate over a period of 5 minutes.

Release M.08.74 through M.08.78 Enhancements

Software fixes only; no new enhancements.

Release M.08.73 Enhancements

Release M.08.73 contains the following enhancements:

- Support for the new I.08.07 Boot ROM version.
(The 2800/3400/6400 series switches all share the same ROM code)

Release M.08.70 through M.08.72 Enhancements

Software fixes only; no new enhancements.

Release M.08.69 Enhancements

Release M.08.69 contains the following enhancements:

- Support for Web RADIUS authentication with CLI.
- A new scripting mode.
- Source Port Filter user interface, described below.

Named Source-Port Filters

This discussion assumes that you are familiar with source-port filters, as described in the chapter titled “Traffic/Security Filters” in the Access Security Guide for your switch.

Beginning with software release M.08.69 you can specify named source-port filters that may be used on multiple ports and port trunks. As before, a port or port trunk can only have one source-port filter, but by using this new capability you can define a source-port filter once and apply it to multiple ports and port trunks. This can make it easier to configure and manage source-port filters on your switch. The commands to define, configure, apply, and display the status of named source-port filters are described below.

Operating Rules for Named Source-Port Filters

- A port or port trunk may only have one source-port filter, named or not named.
- A named source-port filter can be applied to multiple ports or port trunks.
- Once a named source-port filter is defined, subsequent changes only modify its action, they don't replace it.

- To change the named source-port filter used on a port or port trunk, the current filter must first be removed, using the **no filter source-port named-filter <filter-name>** command.
- A named source-port filter can only be deleted when it is not applied to any ports.

Defining and Configuring Named Source-Port Filters

The named source-port filter command operates from the global configuration level.

Syntax: [no] filter source-port named-filter <filter-name>

Defines or deletes a named source-port filter. The *filter-name* may contain a maximum of 20 alpha-numeric characters (longer names may be specified, but they are not displayed). A *filter-name* cannot be a valid port or port trunk name.

The maximum number of named source-port filters that can be used is equal to the number of ports on a switch.

A named source-port filter can only be removed if it is not in use (use the **show filter source-port** command to check the status). Named source-port filters are not automatically deleted when they are no longer used.

Use the **no** option to delete an unused named source-port filter.

Syntax: filter source-port named-filter <filter-name> drop < destination-port-list >

Configures the named source-port filter to drop traffic having a destination on the ports and/or port trunks in the < destination-port-list >. Can be followed by the **forward** option if you have other destination ports or port trunks previously set to **drop** that you want to change to **forward**. For example:

filter source-port named-filter <filter-name> drop < destination-port-list > forward < destination-port-list>

The **destination-port-list** may contain ports, port trunks, and ranges (for example 3-7 or trk4-trk9) separated by commas.

Syntax: filter source-port named-filter <filter-name> forward < destination-port-list >

Configures the named source-port filter to forward traffic having a destination on the ports and/or port trunks in the < destination-port-list >. Since "forward" is the default state for destinations in a filter, this command is useful when destinations in an existing filter are configured for "drop" and you want to change them to "forward". Can be followed by the **drop** option if you have other destination ports set to **forward** that you want to change to **drop**. For example:

filter source-port named-filter <filter-name> forward < destination-port-list > drop < destination-port-list>

A named source-port filter must first be defined and configured before it can be applied. In the following example two named source-port filters are defined, **web-only** and **accounting**.

```
HPswitch(config)# filter source-port named-filter web-only
```

```
HPswitch(config)# filter source-port named-filter accounting
```

By default, these two named source-port filters forward traffic to all ports and port trunks.

To configure a named source-port filter to prevent inbound traffic from being forwarded to specific destination switch ports or port trunks, the **drop** option is used. For example, on a 26-port switch, to configure the named source-port filter **web-only** to drop any traffic except that for destination ports 1 and 2, the following command would be used:

```
HPswitch(config)# filter source-port named-filter web-only drop 3-26
```

A named source-port filter can be defined and configured in a single command by adding the **drop** option, followed by the required destination-port-list.

Viewing a Named Source-Port Filter

You can list all source-port filters configured in the switch, both named and unnamed, and their action using the **show** command below.

Syntax: show filter source-port

Displays a listing of configured source-port filters, where each filter entry includes a Filter Name, Port List, and Action:

Filter Name: The *filter-name* used when a named source-port filter is defined. Non-named source-port filters are automatically assigned the port or port trunk number of the source port.

Port List: Lists the port and port trunk destinations using the filter. Named source-port filters that are not in use display **NOT USED**.

Action: Lists the ports and port trunks dropped by the filter. If a named source-port filter has been defined but not configured, this field is blank.

[*index*] For the supplied index (IDX) displays the action taken (Drop or Forward) for each destination port on the switch.

Using Named Source-Port Filters

A company wants to manage traffic to the Internet and its accounting server on a 26-port switch. Their network is pictured in Figure [figure 2](#). Switch port 1 connects to a router that provides connectivity to a WAN and the Internet. Switch port 7 connects to the accounting server. Two workstations in accounting are connected to switch ports 10 and 11.

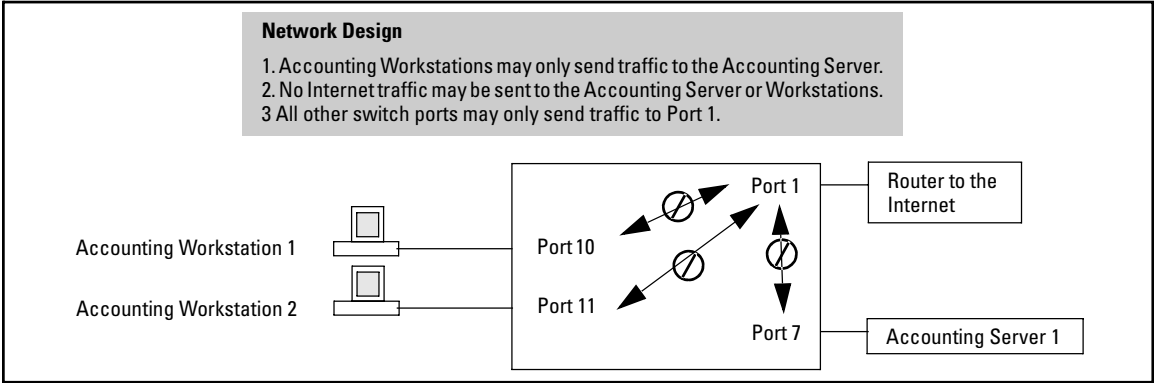


Figure 2. Network Configuration for Named Source-Port Filters Example

The company wants to use named source-port filters to direct inbound traffic only to the Internet while allowing only the two accounting workstations and the accounting server to communicate with each other, and not the Internet.

Defining and Configuring Example Named Source-Port Filters. While named source-port filters may be defined and configured in two steps, this is not necessary. Here we define and configure each of the named source-port filters for our example network in a single step.

```
HPswitch(config)# filter source-port named-filter web-only drop 2-26
HPswitch(config)# filter source-port named-filter accounting drop 1-6, 8, 9, 12-26
HPswitch(config)# filter source-port named-filter no-incoming-web drop 7, 10, 11

HPswitch(config)# show filter source-port
```

Traffic/Security Filters

Filter Name	Port List	Action
web-only	NOT USED	drop 2-26
accounting	NOT USED	drop 1-6, 8-9, 12-26
no-incoming-web	NOT USED	drop 7, 10-11

HP ProCurve Switch 2626(config)#

Ports and port trunks using the filter. When **NOT USED** is displayed the named source-port filter may be deleted.

Lists the ports and port trunks dropped by the filter. Ports and port trunks not shown are forwarded by the filter.

To remove a port or port trunk from the list, update the named source-port filter definition using the **forward** option.

Applying Example Named Source-Port Filters.

Once the named source-port filters have been defined and configured we now apply them to the switch ports.

```

HPswitch(config)# filter source-port 2-6,8,9,12-26 named-filter web-only
HPswitch(config)# filter source-port 7,10,11 named-filter accounting
HPswitch(config)# filter source-port 1 named-filter no-incoming-web
HPswitch(config)#

```

The **show filter** command shows what ports have filters applied.

```
HPswitch(config)# show filter
```

Traffic/Security Filters

(IDX)	Filter Type	Value
1	Source Port	2
2	Source Port	3
3	Source Port	4
4	Source Port	5
5	Source Port	6
6	Source Port	8
7	Source Port	9
8	Source Port	12
.	.	.
20	Source Port	24
21	Source Port	25
22	Source Port	26
23	Source Port	7
24	Source Port	10
25	Source Port	11
26	Source Port	1

Indicates the port number or port-trunk name of the source port or trunk assigned to the filter.

An automatically assigned index number used to identify the filter for a detailed information listing. A filter retains its assigned IDX number for as long as the filter exists in the switch. The switch assigns the lowest available IDX number to a new filter. This can result in a newer filter having a lower IDX number than an older filter if a previous (source-port or named source-port) filter deletion created a gap in the filter listing.

Using the **IDX** value in the **show filter** command, we can see how traffic is filtered on a specific port (**Value**).The two outputs below show a non-accounting and an accounting switch port.

<pre> HPswitch(config)# show filter 4 Traffic/Security Filters Filter Type : Source Port Source Port : 5 Dest Port Type Action -----+----- 1 10/100TX Forward 2 10/100TX Drop 3 10/100TX Drop 4 10/100TX Drop 5 10/100TX Drop 6 10/100TX Drop 7 10/100TX Drop 8 10/100TX Drop 9 10/100TX Drop 10 10/100TX Drop 11 10/100TX Drop 12 10/100TX Drop . . . </pre>	<pre> Pswitch(config)# show filter 24 Traffic/Security Filters Filter Type : Source Port Source Port : 10 Dest Port Type Action -----+----- 1 10/100TX Drop 2 10/100TX Drop 3 10/100TX Drop 4 10/100TX Drop 5 10/100TX Drop 6 10/100TX Drop 7 10/100TX Forward 8 10/100TX Drop 9 10/100TX Drop 10 10/100TX Drop 11 10/100TX Drop 12 10/100TX Drop . . . </pre>
--	---

The same command, using IDX 26, shows how traffic from the Internet is handled.

```
HPswitch(config)# show filter 26
```

Traffic/Security Filters

Filter Type : Source Port

Source Port : 1

Dest Port	Type	Action
1	10/100TX	Forward
2	10/100TX	Forward
3	10/100TX	Forward
4	10/100TX	Forward
5	10/100TX	Forward
6	10/100TX	Forward
7	10/100TX	Drop
8	10/100TX	Forward
9	10/100TX	Forward
10	10/100TX	Drop
11	10/100TX	Drop
12	10/100TX	Forward
.	.	.

As the company grows, more resources are required in accounting. Two additional accounting workstations are added and attached to ports 12 and 13. A second server is added attached to port8.

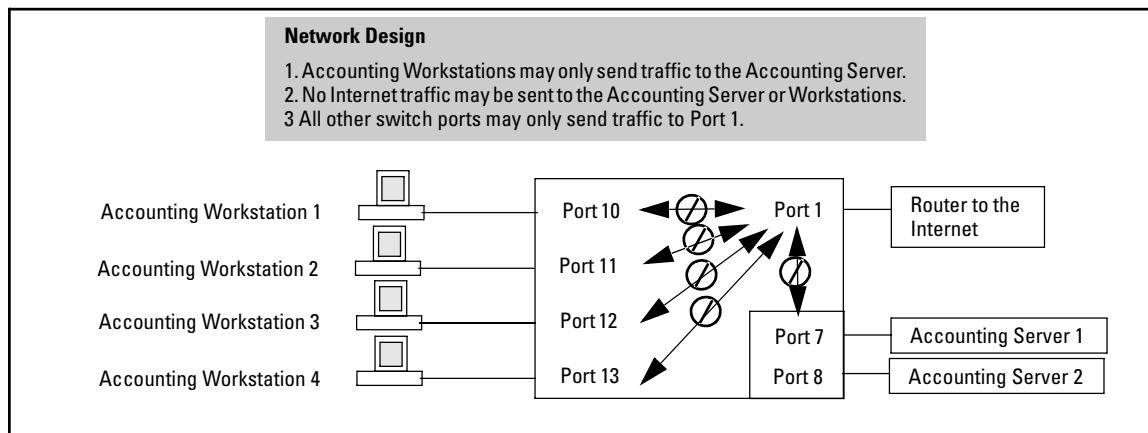


Figure 3. Expanded Network Configuration for Named Source-Port Filters Example

The following revisions to the named source-port filter definitions maintain the desired network traffic management, as shown in the **Action** column of the **show** command.

```
HPswitch(config)# filter source-port named-filter accounting forward 8,12,13
HPswitch(config)# filter source-port named-filter no-incoming-web drop 8,12,13
HPswitch(config)#
HPswitch(config)# show filter source-port
```

Traffic/Security Filters

Filter Name	Port List	Action
web-only	2-6, 8-9, 12-26	drop 2-26
accounting	7, 10-11	drop 1-6, 9, 14-26
no-incoming-web	1	drop 7-8, 10-13

```
HPswitch(config)#
```

We next apply the updated named source-port filters to the appropriate switch ports. As a port can only have one source-port filter (named or not named), before applying the new named source-port filters we first remove the existing source-port filters on the port.

```
HPswitch(config)# no filter source-port 8,12,13
HPswitch(config)# filter source-port 8,12,13 named-filter accounting
HPswitch(config)#
```

The named source-port filters now manage traffic on the switch ports as shown below, using the **show filter source-port** command.

```
HPswitch(config)# show filter source-port
```

Traffic/Security Filters

Filter Name	Port List	Action
web-only	2-6, 9, 14-26	drop 2-26
accounting	7-8, 10-13	drop 1-6, 9, 14-26
no-incoming-web	1	drop 7-8, 10-13

```
HPswitch(config)#
```

Software Fixes in Release M.08.51 - M.08.8x

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

Release M.08.51 was the first software release for the ProCurve 3400cl Series.

Release M.08.62 was the first software release for the ProCurve 6400cl Series.

Release M.08.86

- **CLI/DHCP (PR_1000286898)** — Under some conditions, the CLI may freeze or lock up.
- **IGMP (PR_1000301557)** — Data-driven IGMP does not prevent flooding when no IP address exists on a VLAN.
- **RSTP (PR_1000306227)** — RSTP TCNs cause high CPU utilization and slow software based routing.
- **SNMP (PR_1000295753)** — Removing 'public' SNMP community generates an empty Event Log message.

Release M.08.85

Never released

- **RSTP (No PR)** — Resolved broadcast storm caused by an unstable RSTP topology.

Release M.08.84

Never released

- **CLI Enhancement (PR_1000306695)** — Added "show tech transceivers" to display Serial Number information for installed mGBIC and 10Gig X2 transceivers. Allows removable transceiver serial numbers to be read without removal of the transceivers from the switch.

Release M.08.83

- **Crash (PR_1000297510)** — When using the Web User Interface and the switch is set as commander for stacking, the switch may crash.
- **Event Log/ARP (PR_1000293466)** — Generic Link Up message not showing up and unnecessary flushing of ARP cache.

- **KMS (PR_1000287934)** — Some Key Management System (KMS) configuration commands have no effect.
- **Setup (PR_1000301498)** — Manual IP address can not be set using "setup" menu. (pre-release)

Release M.08.82

- **Meshing (PR_1000300165)** — Packets larger than 1482 bytes within a mesh will be reported as FCS receive errors and may generate excessive CRC error messages in the event log.
- **RSTP (PR_1000300623)** — Under some circumstances, the switch may allow packets to loop for an extended period of time.

Release M.08.81

- **XRRP (PR_1000291250)** — When a XRRP router is rebooted and activates its virtual MAC address, it incorrectly transmits ARP requests, which fails to update forwarding tables and ARP caches.

Release M.08.80

- **RSTP (PR_1000297195)** — The switch repeatedly flushes its MAC address table, resulting in intermittent flooding of all traffic.

Release M.08.79

- **Fault (PR_1000089786)** — Chassis fault LED stops blinking after a new OS image was downloaded to the switch.
- **Ports (PR_1000090867)** — The dual personality ports (RJ-45 and mini-GBIC) lose state (running speed) after being hot swapped in or out.
- **Enhancement (PR_100292455)** Enhancement— Rate display for ports on CLI. New command: "show interface port-utilization", not available on Menu nor Web Interface.

Release M.08.78

- **MSTP (PR_1000286883)** — Slow MSTP fail-over and fall-back time.

Release M.08.77

- **ACL (PR_1000283338)** — The commands "show port-access mac" and "show port-access web" incorrectly display the number of clients authenticated.
- **Meshing (PR_1000219337)** — Unstable RSTP topology when root switch is power-cycled and connected to a mesh.

Release M.08.76

- **IP Routing (PR_1000254254)** — L3 address table is not learned correctly from unsolicited ARPs.
- **RADIUS (PR_1000285456)** — If more than one RADIUS assigned vendor specific attribute (including Port-cos, rate-limiting-ingress, or ACLs) is configured with a non-vendor specific attribute, only the first vendor specific attribute may be recognized by the switch.
- **TCP (PR_1000246186)** — Switch is susceptible to VU#498440.
- **VLAN (PR_1000214406)** — When trying to delete a VLAN created as a management VLAN, the switch fails to remove the management VLAN statement from the running configuration file.
- **Web UI (PR_1000284653)** — When using the web user interface "IP Stack Management", and there are more than 100 potential Members present on a VLAN, the Switch will learn new potential Members, but deletes previously learned Members.

Release M.08.75

Problems Resolved in Release M.08.75

- **LR optic (PR_1000282195)** — After a switch reboot, certain 10GbE X2-SC LR Optic (J8437A) transceivers will lose its configuration. Administrator will be unable to turn off LACP, and CLI commands will not be displayed.
- **XRRP (PR_1000280213)** — When configuring a XRRP instance, although the subnet is configured properly, the following error message is logged:

No subnet configured for the IP address

Release M.08.74

Problems Resolved in Release M.08.74

Meshing (PR_1000282427) — Multicast traffic not forwarded out 10 Gigabit mesh ports.

Release M.08.73

Problems Resolved in Release M.08.73

- **Crash (PR_1000282197)** — The 3400cl-48G may experience crash or reboot symptoms on initial install of the switch. The crashes have a PPC crash heading. The switch may reboot with no crash history, simply the following message:

System reboot due to power failure.

Boot ROM — Updated to I.08.07 version to support fix for PR 1000282197.

Release M.08.72

Problems Resolved in Release M.08.72

- **Crash (PR_1000234773)** — The switch may crash with a message similar to:

```
"ifInfo" task: SubSystem 0 went down: 01/01/90 00:03:16 NMI event  
SW:IP=0x004c1bdc MSR:0x0000b032 LR:0x004c3850 Task='ifInfo' Task  
ID=0x137c980 cr: 0x22242040 sp:0x0137bef8 xer:0x00000000.
```
- **Flow Control (PR_1000241296)** — Switch was unable to support flow control between any ingress and any egress ports.
- **SNMP (PR_1000003378)** — SNMP switch time may drift with event log updates occurring every 1.5 hours.
- **Web UI (PR_1000211978)** — On a Stack Management Commander, when using "stack access" to view members, the screen does not display correct information.

Release M.08.71

Problems Resolved in Release M.08.71 (*Never released*)

- **Crash (PR_1000232283)** - The switch may crash with a message similar to:
Software exception at fileTransferTFTP.c:182 -- in 'mftTask', task ID = 0x107ee0.
- **LLDP (PR_1000241315)** - CLI command "show LLDP" does not display information correctly.
- **Web Auth (PR_1000230444)** - Using port-based web authentication on the Switch will cause some users to never receive the web authentication screen. This occurs if a client receives the same unauthenticated DHCP address that a previous authorized client has used.
- **802.1s (PR_1000233920)** - 802.1s (MSTP) blocks a port that is connected to an RSTP device.

Release M.08.70

Problems Resolved in Release M.08.70

- **ACL (PR_1000213663)** — When configuring ACLs, the Switch incorrectly reports:
Duplicate access control entry.
- **Broadcast throttling (PR_1000240494)** — Broadcast throttling does not work correctly on Gigabit/second and 10-Gigabit/second ports.
- **Mesh (PR_1000218463)** — If a mesh link goes down and a redundant (xSTP) link external to the mesh goes into a forwarding state, connectivity across the mesh may be lost for a previously learned MAC address.
- **MIB (PR_1000236875)** — The switch is reporting etherType/size errors as part of “ifInDiscards,” but the packets are not really dropped.
- **Packet buffers (PR_1000237366)** — Improved packet buffer allocation for better data handling.
- **Self-test (PR_1000239302)** — The Switch reports a false self-test failure when a J8436A SR transceiver is installed in Port B of a J8435A 10-GbE Media Flex module.
- **Web/Stack Mgmt (PR_1000239924)** — As an IP Stack Management Commander, the Switch does not display the device view (back of box) for a 2626 switch that is a member.

Release M.08.69

Problems Resolved in Release M.08.69

- **802.1s STP (PR_1000229407)** - Edge port configuration is lost after the configuration file is transferred using TFTP.
- **802.1X (PR_1000208530)** - Switch may crash with 802.1X configured, with a message similar to:
Crash: aaa8021x_init dereferencing a null pointer, writing to low memory
- **CLI (PR1000202435)** — “show config” does not show IGMP fast-leave configuration.
- **Config (PR_94943)** — Setup Screen allows Proxy-ARP configuration when IP routing is disabled
- **Config (PR1000216051)** — Copying a previously saved startup-configuration with “stack join (mac address)” to a member switch of the IP stack will break the membership of that stack.
- **Crash (PR_1000229656)** - switch crashes when RADIUS is unavailable.

- **Crash (PR_1000233993)** - Switch may crash with a message similar to:
Software exception at exception.c:373 -- in 'mSnmpCtrl', task ID = 0x5b85fd0 -> Memory system error.
- **Crash (PR_1000239085)** - The switch may crash with a message similar to:
Software exception at esi_stacking.c:2578 -- in 'tHttpd'.
- **DHCP (PR1000207419)** — DHCP Relay agent is disabled by default.
- **IP Helper/DHCP Relay (PR_1000197046)** - IP helper may not handle "DHCP Inform" relay properly.
- **Menu (PR_1000221018)** - Setup Menu allows Proxy-ARP configuration when IP routing is disabled.
- **Port Security (PR_1000203984)** — CLI port-security "mac-address" command will save address above the limit.
- **SNMP (PR_1000212170)** — The Switch transmits Warm and Cold Start traps with an agent address of 0.0.0.0.
- **Spanning Tree (PR_1000214598)** - The switch will not accept the spanning-tree 1 mode fast command within the CLI.
- **System Hang (PR_1000200341)** - Added an exception handler to prevent a case where the system may hang.
- **XRRP (PR_1000217922)** — XRRP router may fail back to the XRRP peer router even with Infinite Failback enabled.

Release M.08.68

Problems Resolved in Release M.08.68

- **Switching (PR_1000232312)** — In cases where traffic is being L2 switched or L3 routed from one port at Gigabit speeds to a group of ports (i.e. to a VLAN) where one of the outbound ports is running at a slower speed, traffic may have been dropped even to egress ports running at Gigabit speeds. This PR addresses the dropped packets for the Gig-to-Gig port traffic. Gig-to-100Mbps transfers may still experience packet drops due to congestion (as is normal in any oversubscribed scenario).

Release M.08.67

Problems Resolved in Release M.08.67

- **Authentication (PR_1000217338)** — Inconsistent authentication results with EAP-TLS and EAP-PEAP authorization types.

- **Config (PR_1000207697)** — Loading a startup-configuration file fails when attempting to declare a VLAN in the configuration file as a management VLAN, and the VLAN does not currently exist on the switch. The switch indicates the downloaded file as being corrupted, listing the vid of the specified management VLAN as not being found.
- **RSTP (PR_99049)** — Switch does not detect and block network topology loops on a single port. For example, the port connects to a hub that has a loop or the port connects to an inactive node via IBM 'Type 1' cable.
- **Web UI (PR_1000214188)** — The scroll bar does not display or respond correctly after resizing a window.

Release M.08.66

Problems Resolved in Release M.08.66

- **PPMGR (PR_1000225645)**— A 10GbE X2-SC SR Optic (J8436A) installed in a 10 GbE Media Flex Module (J8435A) which, in turn, is installed in a Switch 6410c1 (J8474A) will fail self-test if the SR transceiver is in slot B.

Release M.08.65 (Never Released)

Problems Resolved in Release M.08.65

- **Crash (PR_1000194486)** — The switch may crash with a message similar to:
`Software exception at bcm 1 CpuLearn.c:1308.`
- **Counters (PR_1000221089)** — The 64 bit counters may not always be correct.
- **Counters (PR_1000219548)** — Collision counters do not increment accurately.

Release M.08.64

Problems Resolved in Release M.08.64

- **IP Routing (PR_1000220668)**— Fatal exception when routing with more than 8 trunks configured and IP routing enabled.

Release M.08.63

Problems Resolved in Release M.08.63

- **Crash (PR_1000205768)** — A null System Name in the Web user interface may crash the switch with a message similar to:

"Software exception at lldpSysNameTlv.c:251 -- in 'mlldpCtrl', task ID = 0x12dc88 -> ASSERT: failed".

- **Web UI (PR_93721)** — The web user interface Status screen does not display all ports, and the scroll bar does not work.
- **Web UI (PR_1000191635)** — The Port column may not be sorted correctly in all Web user interface screens.
- **XRRP (PR_1000217651)** — Running different XRRP versions causes excessive event log messages like:

Rcvd a pkt with version number 2, expected 1
Remote rtr 2 domain 2 is miss-configured.
- **Crash (PR_1000217354)** — Bus error in **mSnmpCtrl** task when adding a less-specific route and adding it again through the CLI.

Release M.08.62

Problems Resolved in Release M.08.62

- **Crash (PR_1000207542)** — The switch may crash with a bus error or task hang.
- **Crash (PR_1000216170)** — The switch crashes with an `mftTask Bus Error` whenever a user attempts to upload the startup-configuration from a TFTP server. The switch accepts the command with no errors, however the system immediately crashes after the reboot.
- **Jumbo/Flow control (PR_1000217576)** — When the switch is configured for both flow control and jumbo packets, an Error Message is not generated as stated in the instruction manual.
- **Port Security (PR_1000203984)** — When the limit is reached, the warning message is displayed: `Number of configured addresses on port xx exceeds address-limit`. The address is saved and displayed in the address list of **Show Port-security xx**. Data from the added address is passed by the switch.

Release M.08.61

Problems Resolved in Release M.08.61

- **802.1s (PR_1000207608)** — After the root bridge is agreed, the non-root switch continues to send out BPDUs claiming to be Root, resulting in possible instability in the STP topology.
- **ACL (PR_1000207620)** — TCP and UDP traffic is sometimes incorrectly permitted through an ACL.

- **CDP (PR_1000195343)** — Entering the command **show cdp neighbor detail x** (where **x** is the port number) displays details for all active ports with CDP neighbors whose numbers begin with **x**. Only occurs when the **detail** parameter is included.
- **CDP/LLDP (PR_1000201275)** — The CDP/LLDP text output has been improved with the following two changes:
 1. In **show LLDP config** output, `LLDP refresh interval` is renamed to `LLDP Transmit Interval`.
 2. In **show CDP** the `Yes` is changed to `Yes, (Receive Only)`.
- **CLI (PR_1000192677)** — **Show access-list ports <tab>** does not list the `all` keyword. The command only shows `[PORT-LIST]` as input for the command.
- **Console/TELNET (PR_1000195647)** — When a console or TELNET session hangs, issuing the 'kill' command also hangs.
- **Crash (PR_1000193582)** — Software Exception when clicking on the Identity Tab of a Member Switch in the Web user interface. The switch may crash with a message similar to: `Software exception at http_state.c:1138 in 'mHttpCtrl' TaskID = 0x1722cf8.`
- **Crash (PR_1000196129)** — Removing the J8434A module (10Gigabit) creates configuration problems and sometimes causes the switch to crash.
- **Crash (PR_1000199535)** — Sometimes the command **show boot-history** results in a bus error. (pre-release)
- **Crash (PR_1000201614)** — When the switch is set with a 16-character manager password in the setup menu, a 'Bus error' crash may occur. The bus errors vary.
- **Crash (PR_1000204782)** — Bus error when copying a configuration to the switch. The switch may crash with a message similar to:
`Bus error: HW Addr=0x594f5531 IP=0x004ff8a8 Task='mftTask' Task ID=0x126eba0 fp: 0x00000000 sp:0x0126e7d0 lr:0x001e655c.`
- **IP Addmgr (PR_1000200338)** — CPU-based protocol stops working. The memory corruption of text caused many tasks to hang or be SUSPENDED, since the switch is trying to execute invalid instructions.
- **MIB (PR_1000206519)** — The RFC 3636 MIB implemented is not correct. (pre-release)
- **Open VLAN (PR_1000210932)** — Open VLAN mode (Unauth VLAN) does not work with any Port-Security Learn-Mode.
- **Port toggle (PR_1000216940)** — 10 Gigabit, CX4 port toggles (that is, Link up, Link down, and so on). (pre-release)
- **QOS (PR_1000200746)** — Configure a dscp-map name that requires quotes such as "Code Point 0". Save this name in the configuration file and reboot the switch, the name is truncated to "Code".

- **QOS (PR_1000213489)** — The command **show QOS resources** displays blank information for the 10 Gigabit module.
- **SNMP (PR_1000196170)** — Traps are not buffered before the IP stack is initialized, causing the possibility of missing some traps generated during startup.
- **Syslog (PR_1000215699)** — Pre-boot event log messages are cached for syslog and syslog is only able to send those cached entries after the switch fully boots. The cache size is limited, so in some cases, not all event log messages will be sent via syslog.
- **Web UI (PR_1000177915)** — Device View from the Web user interface is missing.
- **Web UI/Port Security (PR_1000195894)** — The Web user interface does not allow the user to select multiple ports when configuring port-security.

Release M.08.55 - Release M.08.60

Releases M.08.55 through M.08.60 were never built.

Release M.08.54

- First release to fully support LR and CX4 transceivers installed in the optional c1 Module (J8434A and J8435A).

Release M.08.53 (Never Released)

- Updated Boot ROM image to I.08.03 to address Manufacturing test condition.

Release M.08.52

- Updated Boot ROM image to I.08.02 to address Manufacturing test condition.



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