



Release Notes:

Version CY.02.03.0029 Software

for the ProCurve Series 8100fl Switches

Release CY.02.03.0029 supports these switches:

- ProCurve Switch 8108l (J8727A)
- ProCurve Switch 8116fl (J8728A)

These release notes include information on the following:

- Initial configuration of your switch ([page 1](#))
 - Software updates ([page 2](#))
 - Operational notes and limitations ([page 8](#))
 - Software features ([page 11](#))
 - Known issues ([page 20](#))
-

Code Release and Boot ROM Versions

The version CY.02.03.0029 software image is installed on the switch's Management Module. In addition to the system software, the Management Module, Fabric Module, and Interface Module(s) each have their own version of Boot ROM code required to start up each hardware device. The following table lists the current version of system software, plus the corresponding compatible Boot ROM images for the Series 8100fl switches.

| Software Image | Latest Version |
|--|---------------------------|
| Current system software: | CY.02.03.0029.swi |
| Boot ROM Code | |
| Redundant Management Module (J8731A): | MgmtBootROM.CY.02.02.0004 |
| Fabric Modules (J8729A and J8730A): | FabBootROM.CY.02.02.0024 |
| All Interface Modules (J8733A, J8734A, J8735A and J8736A): | IntBootROM.CY.02.02.0024 |

To determine the code release for each module and the Boot ROM version on your switch, from the CLI enter the **show module all** command.

IMPORTANT

Before upgrading the BootROMs, ensure that you install the system software and reboot. See [“Updating Boot Images” on page 6](#) for details.

**© Copyright 2006
Hewlett-Packard Development Company, LP.
The information contained herein is subject to change
without notice.**

Publication Number

Part Number 5990-8871
October 2006

Applicable Products

| | |
|------------------------|----------|
| ProCurve Switch 8108l | (J8727A) |
| ProCurve Switch 8116fl | (J8728A) |

Trademark Credits

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Microsoft® and Windows® are US registered trademarks of Microsoft Corporation.

Software Credits and Notices

This product includes software developed by Trimble Navigation, Ltd.

Disclaimer

HEWLETT-PACKARD COMPANY MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Hewlett-Packard assumes no responsibility for the use or reliability of its software on equipment that is not furnished by Hewlett-Packard.

Warranty

See the Customer Support/Warranty booklet included with the product.

A copy of the specific warranty terms applicable to your Hewlett-Packard products and replacement parts can be obtained from your HP Sales and Service Office or authorized dealer.

Hewlett-Packard Company
8000 Foothills Boulevard, m/s 5551
Roseville, California 95747-5551
www.procurve.com

Contents

| | |
|---|-----------|
| Initial Configuration | 1 |
| Setting the System Clock | 1 |
| Updating Software | 2 |
| Downloading Documentation and Software from the Web | 2 |
| Downloading Software to the Switch | 3 |
| Updating Boot Images | 6 |
| Saving Configurations While Using the CLI | 7 |
| Operational Notes and Limitations | 8 |
| Configuration Mode Limited to One User | 8 |
| Configuring Ports | 8 |
| Management Port not for Routed Traffic | 8 |
| Terminal Settings (Length/Width) | 9 |
| Windows Telnet Client | 9 |
| Configuring Spanning-Tree | 10 |
| Enhancements | 11 |
| Release CY.02.03.0005 | 11 |
| Release CY.02.03.0006 through CY.02.03.0029 | 12 |
| Software Fixes | 12 |
| Release CY.02.03.0006 (Never released) | 12 |
| Release CY.02.03.0007 (Never released) | 12 |
| Release CY.02.03.0008 (Never released) | 13 |
| Release CY.02.03.0009 (Never released) | 13 |
| Release CY.02.03.0010 (Never released) | 13 |
| Release CY.02.03.0011 (Never released) | 14 |
| Release CY.02.03.0012 (Never released) | 14 |
| Release CY.02.03.0013 (Never released) | 14 |
| Release CY.02.03.0015 (Never released) | 15 |

Contents

Release CY.02.03.0016 (Never released) 15

Release CY.02.03.0017 (Never released) 16

Release CY.02.03.0018 (Never released) 16

Release CY.02.03.0019 16

Release CY.02.03.0020 (Never released) 17

Release CY.02.03.0021 (Never released) 17

Release CY.02.03.0022 (Never released) 17

Release CY.02.03.0023 (Never released) 18

Release CY.02.03.0024 (Never released) 18

Release CY.02.03.0025 (Never released) 18

Release CY.02.03.0026 (Never released) 18

Release CY.02.03.0027 (Never released) 18

Release CY.02.03.0028 (Never released) 19

Release CY.02.03.0029 19

Known Issues and Feature Limitations 20

Initial Configuration

To ensure correct operation of your switch, you must update the system clock and reload prior to configuration. This is required only for the initial installation and configuration of your system. See [“Setting the System Clock”](#) for details.

For more information on using the CLI to configure and manage your switch, refer to the *ProCurve Series 8100fl Switches Management and Configuration Guide*.

Setting the System Clock

To set the system clock:

1. From the Privileged Exec mode (#) prompt of the CLI, enter the **clock set** command:

```
8100fl#clock set <HH:MM:SS> <1...31> <month> <year>
```

2. To verify your settings, enter the **show clock** command:

```
8100fl#show clock
```

For example:

To set the clock to 10:45:29 AM on February 13, 2005, and then verify the settings, you would enter:

```
8100fl#clock set 10:45:29 13 Feb 2006
8100fl#show clock
*10:45:29 UTC Mon Feb 13 2005
```

Note

The 8100fl Switch allows only for Universal Time Clock (UTC) settings.

Updating Software

Downloading 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:
www.procurve.com.
2. Click on **Software updates** (in the sidebar).
3. Under **Latest software**, click on **Switches**, and then select the appropriate link to the latest software version.


Caution

The startup-config file generated by the latest software release may not be backward-compatible with the same file generated by earlier software releases. Refer to “[Code Release and Boot ROM Versions](#)” on the front page to verify compatible versions of code.

To Determine the Current Software Version:

- From the CLI, enter the **show version** command.
The resulting display lists the current software version and Boot ROM image for each of the installed modules on your switch.

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 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 periodically provides switch software updates through the ProCurve Networking Web site (www.procurve.com). After you acquire the new software file, you can use the following method to download it to the switch.

Note

The example below uses TFTP download method. While SCP (secure copy) is also possible, this method is not described here. In the example transcripts, replace the addresses provided with those that are relevant to your network.

For example, to download a software image named **CY.02.03.0029.swi** from a TFTP server with the IP address of 10.28.227.103:

1. Copy the **CY.02.03.0029.swi** file to a TFTP server (or other area) accessible by the Management Module Ethernet interface.
2. Verify that the Management Module Ethernet interface can reliably access the TFTP server.
3. Verify there is sufficient space on the flash device by running the **dir flash:** command.

```
8100fl#dir flash:
Directory of flash:/

-rw- 1257 Mon Oct 10 04:04:24 2005 sample.cfg
-rw- 29777216 Thurs Feb 17 06:50:22 2005 full.bin.CY.01.02.0026

29778473 bytes total (295189463 bytes free)
```

If you require additional space on the flash device, invoke the **delete flash: <filename>** command to remove any extraneous files.

```
8100fl#del flash:full.bin.CY.01.02.0026

flash:full.bin.CY.01.02.0026 successfully deleted
```

Caution

Do not delete the current version or MgmtBootROM, FabBootROM, IntBootROM.

Updating Software

Downloading Software to the Switch

- Copy the file **CY.02.03.0029.swi** to the Management Module using the **copy** command.

```
8100fl#copy tftp://10.28.227.103/CY.02.03.0029.swi flash:
Received 29788160 bytes in 141.0 seconds
```

- To update the installed software or firmware on the switch, enter the **image install** command at the Privileged Exec level of the CLI according to the following options:

- If the switch has a single management module (or two management modules with the same active software bank ID), enter:

```
8100fl#image install flash CY.02.03.0029.swi
```

- If the switch has two management modules (with different active software bank IDs for each module), enter:

```
8100fl#image install flash CY.02.03.0029.swi management-module a
```

```
8100fl#image install flash CY.02.03.0029.swi management-module b
```

The switch then copies the image to the backup software storage bank.

```
8100fl#image install flash:CY.02.03.0029.swi
Software installation has started, may take a while...
Upgrading is in progress --- Type q to stop polling upgrade status
.....
.....
..... Upgrade succeeded
ProCurve 8116fl#*Fri Feb 17 10:58:33 2006:CM-A:MCHSM-W-INSTALL_SUCCEEDED:
Installation succeeded.
```


6. Determine which bank contains the new software by running the **show module** command for the active (primary) management module on the switch.

```
8100f1#show module management-module A
Slot :MM-A
Ports :0
Module-Type :Management Module
Model :J8731A
Admin :enabled
Power :power on
Status :ok
Running Software :Bank-A
Bank-A Software :CY.02.02.0011
Bank-B Software :CY.02.03.0028
Bootloader Version :CY.01.02.0128
Minor HW Version :1
CPLD Version :cpld 1 6, cpld 2 5, cpld 3 4
Serial Number :US442SP004
Manufactures Code :0
Manufactures Date :42/4
CLEI Code :0
Memory Size :1024 MB
```

System software is currently running from Bank-A

New software is installed in opposite bank, Bank-B.

7. Use the **boot system {bank-A | bank-B}** command to activate the new software, and reboot your system. In this example, the software is running from Bank-A, so you boot the system from Bank-B by entering the following command:

```
8100f1#boot system bank-B
Proceed with boot system? [no]: yes
System/Module will reboot with new software...
```

The new software is loaded in the flash memory bank opposite of the current active bank. If the software is currently running on Bank-A, then Bank-B will contain the new software.

For more information, refer to the *ProCurve Series 8100fl Switches Management and Configuration Guide*.

Updating Boot Images

Note

Update the system software image and reboot the switch before installing the BootROM image. Verify that you are running version 2 software by using the **show version** command.

The Management, Fabric and Interface Modules each have their own version of Boot ROM code required to start up each hardware device. The following table lists the compatible Boot ROM images for the latest version of system software.

| Software Image ^a | Latest Version |
|--|---------------------------|
| Current system software | CY.02.03.0029.swi |
| Boot ROM Code | |
| Redundant Management Module (J8731A): | MgmtBootROM.CY.02.02.0004 |
| Fabric Modules (J8729A and J8730A): | FabBootROM.CY.02.02.0024 |
| All Interface Modules (J8733A, J8734A, J8735A and J8736A): | IntBootROM.CY.02.02.0024 |

a. The latest versions will be posted on the ProCurve Networking Web site.

To determine the code release and Boot ROM version on your switch, from the CLI enter the **show module all** command. The resulting display lists the current system software version plus the version of Boot ROM code for each module. Note that the version numbers of BootROMs and of the system software may be different.

To update the boot images, perform the following steps:

1. Use the **show version** command to verify the current version of system software on the switch is compatible with the BootROM image you plan to install.
2. At the Privileged Exec level of the CLI, copy the new boot image files from a TFTP server to the system flash using the **copy** command.

```
8100f1#copy tftp://<ip-addr><image-name> flash:
```

3. Install the BootROM image for each module using the following commands :

| Command Syntax ^a | Notes ^b |
|--|--|
| boot-upgrade manage [alb] flash:MgmtBootROM.CY.02.02.0004 | Use a for single Management Module systems. Use a then b for dual MM systems. |
| boot-upgrade fabric [alb] flash:FabBootROM.CY.02.02.0024 | Use a for single Fabric Module systems. Use a then b for dual Fabric systems. |

| Command Syntax ^a | Notes ^b |
|--|--|
| boot-upgrade interface [1...16] flash:IntBootROM.CY.02.02.0024 | Use [1...16] for each interface module on the system. Use the up arrow to repeat the command and change the slot#. |

- a. These commands are supported in software release 02.03.0005 and later.
- b. A separate command must be entered for each module installed on the system.

4. Reboot the switch (from the currently running bank) using the **reload** command.
5. Use the **show module all** command to verify the changes in the BootROM versions for each module installed in the switch.

Saving Configurations While Using the CLI

The ProCurve Series 8100fl switches maintain in memory and on disk the following configuration files and commands:

- **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.

Saving the Running Configuration to the Startup Configuration.

To save changes in the running-config into the startup configuration file (so that the switch reinstates the changes next time you reboot the software):

1. From the Privileged Exec mode in the CLI, enter the **write memory** command.
2. Press **[Y]** (for Yes) when you see the “save configuration” prompt:

The new configuration changes replace the startup-config file stored in the management module’s boot flash.

For more information, refer to the *ProCurve Series 8100fl Switches Management and Configuration Guide*.

Operational Notes and Limitations

This section lists operational notes and limitations for the Series 8100fl Switches.

Configuration Mode Limited to One User

Up to 10 Telnet sessions can run simultaneously on the switch. However, only one user at a time is allowed in Configuration mode. If a second user enters the configure command, the first user will be bumped out of configuration mode. All the commands that the first user entered before being bumped out of configuration mode will be saved in the running configuration. Use the **show users** command to list other users (including the console) that are currently logged on to the switch.

Configuring Ports

When configuring ports, note the following differences between the 8100fl switch and other ProCurve switches:

- All ports are disabled by default and are members of the default VLAN.
- To enable a port or port feature on the switch you must enter a **no shutdown** command (not **enable** as on other ProCurve switches).
- Each configuration command for a single port must be entered separately. There is no provision within the CLI to configure a list of ports using only a single command.

Management Port not for Routed Traffic

The RJ-45 port on the Management Module is designed to be used for out-of-band management of the switch via telnet or ssh. It is NOT intended to route traffic to other ports on the switch. You can also telnet to the switch through any other accessible routed interface and manage the configuration of the switch.

For more information, refer to the *ProCurve Series 8100fl Switches Installation and Getting Started Guide*. Note the following correction to the statement on page 2-27 of the *Installation and Getting Started Guide*: DHCP/Bootp is not supported to obtain an initial ip address.

Terminal Settings (Length/Width)

The 8100f1 switch supports a maximum of ten incoming remote vty connections (0 through 9), plus one console connection. You can configure both console and vty display settings using the **line console 0** command and the **line vty [0-9]** commands. The **length** command sets the number of rows to be displayed (possible values range from 0 to 64; default is 24) and the **width** command sets the number of columns to be displayed (possible values range from 24 to 256; default is 80)

- When setting the terminal length and width, you should select values that match your display window (or physical terminal) size. Selecting values outside the possible range, may cause problems with the system and the display.
- If you are using a terminal emulator that supports its own length and width settings, these may override your configuration settings.

Windows Telnet Client

The Windows Telnet Client sends an extra carriage return (CR) by default, resulting in two “Enters” for a single [Enter] keystroke. This behavior may have unintended consequences, causing the default response to be executed without prompting. In the following example, the reload command is automatically aborted:

```
8100f1#reload [CR]
Proceed with reload? [no]: [phantom CR]
Reload aborted
8100f1#
```

To stop this behavior:

1. During a Windows Telnet session, press **CTRL+]** to switch to command mode.
2. Enter Microsoft Telnet> **unset clrf**.

The system responds:

Line feed mode - Causes return key to send CR

3. Press **Enter** to return to the Telnet session.

Configuring Spanning-Tree

Spanning-tree is disabled on the 8100f1 switch by default. Spanning-tree must be enabled on a per port basis. For example:

```
8100f1(config)#interface gig 1/1
8100f1(config-interface-gig1/1)#spanning enable
8100f1(config-interface-gig1/1)#interface gig 1/2
8100f1(config-interface-gig1/2)#spanning enable
8100f1(config-interface-gig1/1)#interface tengigabit 5/1
8100f1(config-interface-10gig5/1)#spanning enable
...
```

Each command for a physical port must be entered individually. There is no provision to configure port lists or to configure ports on a per VLAN basis.

Version 1 configurations of spanning-tree will be automatically translated into the new version 2 spanning-tree syntax. This may require a **write memory** command to save this back to the startup configuration file. For more information, refer to the *Management and Configuration Guide*.

Note

When configuring multiple instances of spanning-tree (MSTP), the default VLAN (VLAN 1) cannot be made part of a configured MSTP Instance. The switch only allows you to work with VLANs 2 to 4094. VLAN 1 must remain in the IST or instance 0.

Enhancements

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

Release CY.02.03.0005

The table below summarizes the enhancements made in release CY.02.03.0005. For more information, refer to the *ProCurve Series 8100fl Switches Management and Configuration Guide*.

| Enhancement | Overview |
|--|---|
| Implementation of MSTP 802.1s | <p>The 802.1s Multiple Spanning Tree protocol (MSTP) uses VLANs to create multiple spanning trees in a network, which significantly improves network resource utilization while maintaining a loop-free environment. MSTP on the 8100fl switch complies with the IEEE 802.1s standard, and extends STP and RSTP functionality to map multiple independent spanning tree instances onto a physical topology.</p> <p>With MSTP, each spanning tree instance can include one or more VLANs and applies a separate, per-instance forwarding topology. Thus, where a port belongs to multiple VLANs, it may be dynamically blocked in one spanning tree instance, but forwarding in another instance. This achieves load-balancing across the network while keeping the switch's CPU load at a moderate level (by aggregating multiple VLANs in a single spanning tree instance).</p> <p>Note: The default VLAN (VLAN 1) cannot be made part of a configured MSTP Instance. The switch only allows you to work with VLANs 2 to 4094. VLAN 1 must remain in the IST or instance 0.</p> |
| Layer 2 IGMP support for multi-cast filtering | <p>In a network where IP multicast traffic is transmitted for various multimedia applications, you can use the switch to reduce unnecessary bandwidth usage on a per-port basis by configuring IGMP (Internet Group Management Protocol controls). In the default state (IGMP disabled), the switch simply floods all IP multicast traffic it receives on a given VLAN through all ports on that VLAN (except the port on which it received the traffic). This can result in significant and unnecessary bandwidth usage in networks where IP multicast traffic is a factor.</p> <p>Enabling IGMP allows the ports to detect IGMP queries and report packets and manage IP multicast traffic through the switch.</p> |
| 15 VRRP instances per interface (VLAN, port, or LAG) | <p>The Virtual Router Redundancy Protocol (VRRP) is used to ensure the availability of an end node's default router by assigning the IP address that end hosts use as their default route to a "virtual router." A Master router is assigned to forward traffic designated for the virtual router. If the Master router should become unavailable, a backup router takes over and begins forwarding traffic for the virtual router. As long as one of the routers in a VRRP configuration is up, the IP addresses assigned to the virtual router are always available, and the end hosts can send packets to these IP addresses without interruption. Physical ports on a router are owned by that router. Using VRRP, you can configure other routers to take over as virtual routers for ports they do not own, but these virtual routers can never be owners of these ports.</p> <p>In this release, the 8100fl switch supports up to 15 VRRP instances per interface (VLAN, port of LAG. With up to 180 active VLANs available for routing on the switch, this allows up to 2700 VRRP IP addresses.</p> <p>Note: Each VRRP instance manages a single IP Default Gateway (DG). Multiple DGs in a VLAN require multiple VRRP instances with a 1:1 correspondence between the DGs and the VRRP Group IDs (which are limited to the numerical range of 1 to 15).</p> |

Release CY.02.03.0006 through CY.02.03.0029

Software fixes only; no new enhancements.

Software Fixes

Release CY.02.03.0005 was the first software release for the ProCurve Series 8100fl switches.

Release CY.02.03.0006 (Never released)

Problems Resolved in Release CY.02.03.0006

- **Config (PR_1000319074)** — After editing a configuration file on a DOS/Windows system and issuing the command **copy <file> startup-config**, some characters may not be recognized by the switch and the commands will not be executed correctly.
- **IGMP (PR_1000313250)** — When an active Querier is downstream of a LAG, removing and then adding a port into the LAG causes an error message.
- **MSTP (PR_1000316122)** — Configuration changes made to the Spanning Tree Link type are not saved by the switch, and revert back to default values.
- **Routing (PR_1000315826)** — IPv4 packet traffic is not routed properly after a reboot.
- **SMAC (PR_1000315604)** — In a triangle topology sending Layer 2 traffic, the switch does not learn the source MAC address (SMAC). This occurs with L2-only traffic, and results in traffic being flooded through all ports in the VLAN. This does not affect Layer 3 or routed traffic.

Release CY.02.03.0007 (Never released)

Problems Resolved in Release CY.02.03.0007

- **CLI (PR_1000320562)** — The commands **show process** and **show memory** give “permission denied” for logins using a customer-created login account.
- **MSTP (PR_1000321812)** — After an MSTP topology change with VRRP enabled, ARP entries do not refresh causing routing errors.

Release CY.02.03.0008 (Never released)

Problems Resolved in Release CY.02.03.0008

- **MSTP (PR_1000319387)** — When adding a VLAN to a MSTP instance, spanning tree does not function properly.
- **MSTP (PR_1000324674)** — The command **debug vpm-dump-hw-pvid-info** displays incorrect output information.
- **MSTP (PR_1000324677)** — The command **show span tree instance x** displays incorrect output information.
- **MSTP (PR_1000324680)** — Common Instance Spanning Tree (CIST) does not confine itself to programming only those VLANs that are configured on the port.
- **MSTP/LAG (PR_1000324683)** — Inter-Module LAG ports do not inherit the correct STP state when an interface module is restarted.
- **Restart (PR_1000317536)** — After an unexpected management module restart, other modules are listed as UNKNOWN in the output of the **show module** command.
- **System (PR_1000322250)** — The lchm process reboots constantly after a reload.

Release CY.02.03.0009 (Never released)

Problems Resolved in Release CY.02.03.0009

- **VLAN/TRUNK (PR_1000325384)** — Changing a VLAN from being a Q-tagged trunk VLAN to untagged native-VLAN mode does not work properly.

Release CY.02.03.0010 (Never released)

Problems Resolved in Release CY.02.03.0010

- **CLI (PR_1000326862)** — Overlapped VLAN range commands are not processed properly.
- **CLI (PR_1000326950)** — The command **no spanning tree path cost** has no effect and does not get executed by the switch.

Release CY.02.03.0011 (Never released)

Problems Resolved in Release CY.02.03.0011

- **CLI (PR_1000318794)** — FIB entries for ARPs are incomplete on all but one Interface Module (IM). The Management Module exit info is incomplete, and is synch'd up to IMs other than the originating IM, causing continuous MlM_l3_l3helper__get_missing_nbrinfo from the IMs.
- **CLI (PR_1000329796)** — l3helper stuck in a endless loop trying to update FIT entries when in l3helper_handle_kernel_fitupd_msg() function.
- **MSTP (PR_1000326654)** — During startup, processing of the startup-configuration file causes the spanning tree process to crash.
- **Routing (PR_1000329410)** — Changing interface IP addresses causes inconsistent information to be stored in the route table.
- **STP (PR_1000324670)** — ARP packets can be received over a blocked port causing MAC Move log messages.
- **VRRP (PR_1000329390)** — The command **show vrrp 1** causes the switch to crash.

Release CY.02.03.0012 (Never released)

Problems Resolved in Release CY.02.03.0012

- **Crash (PR_1000330525)** — System crash with an “mlnameserver” message.
- **Enhancement (PR_1000330533)** — Added image version information to be displayed in the name of the core file.
- **MSTP/VLAN (PR_1000326993)** — IP VLAN interface is down if the CIST is blocking on a port for a VLAN that is forwarding on another instance.
- **Crash (PR_1000330527)** - The switch may crash during an "rosrd" process.

Release CY.02.03.0013 (Never released)

Problems Resolved in Release CY.02.03.0013

- **Link (PR_1000331464)** — Cannot establish a link with 10/100 port on a Cisco 7200.

Release CY.02.03.0015 (Never released)

Problems Resolved in Release CY.02.03.0015

- **CLI (PR_1000331854)** — The **no ntp server** <ip> command does not get executed by the switch.
- **CLI (PR_1000331866)** — The CLI may crash after the command **debug ip ospf db** outputs for some time.
- **CLI (PR_1000332430)** — The **show ARP entries** display page misspells the word “entries” as “enteries”.
- **CLI (PR_1000334002)** — The **show log** command does not correctly display STP state transitions.
- **Enhancement (PR_1000333920)** — Added additional show commands in the **show tech** output.
- **Environment (PR_1000330810)** — Occasional false reports (via console messages and output of **show environment temperature** command) of the management module temperature of 79C. This problem only applies to the Switch 8116fl.
- **Management (PR_1000328758)** — The management module’s ethernet interface port may become inoperative after experiencing high traffic loads.
- **Statistics (PR_1000246077)** — In the 'Statistics' section, the Receive and Transmit columns are too close together and the number of bytes Received and Transmitted run together.
- **STP (PR_1000331466)** — Spanning Tree port instance priorities revert back to default (0) when configured through the CLI.
- **STP (PR_1000331824)** — When an STP blocked LAG toggles up and down, the VLAN interface protocol stays in a down state.
- **VRRP (PR_1000315841)** — VRRP instances within an interface can only have one IP address associated with them.

Release CY.02.03.0016 (Never released)

Problems Resolved in Release CY.02.03.0016

- **VLAN/STP (PR_1000334141)** — Using the CLI to configure multiple VLANs on a non-connected port with STP enabled may cause dropped packets..

Release CY.02.03.0017 (Never released)

Problems Resolved in Release CY.02.03.0017

- **Enhancement (PR_1000334137)** — VRRP state transitions not logged to the Event Log.

Release CY.02.03.0018 (Never released)

Problems Resolved in Release CY.02.03.0018

- **VLANs (PR_1000311424)** — When new ranges of vlans are configured, if they overlap with existing vlans, the subcommands from the existing vlans will be copied into the new vlans.
- **CLI (PR_1000335681)** — The commands **telnet**, **ssh**, **ping** or **traceroute** will exit config mode before running.
- **VLANs (PR_1000335693)** — The **no vlan** command may incorrectly remove some vlans.

Release CY.02.03.0019

Problems Resolved in Release CY.02.03.0019

- **VLAN (PR_1000336546)** — In certain circumstances, the command **no vlan<xxx>** does not take effect, although it may have been removed from the running config; a **show vlan** command still indicates that the vlan exists.
- **CLI (PR_1000337424)** — Specifying a Password (**enable secret 0**{cleartext pswd} or **line xxx/password 0**{cleartext pswd}) generates a warning message when the cleartext contains trailing spaces (that is, non-displayable characters) as is generated for the Default case or "encrypt" keyword case.
- **CLI (PR_1000338045)** — Entering **show** [CR] at the config level displays "% scratchpad is empty" at the end of the display (reference to a removed Version 1 feature).
- **System (PR_1000340833)** — The **show VRRP** command is causing a memory leak. The skew time is not being calculated.
- **VRRP (PR_1000341121)** — VRRP state is transitioning continuously (Master to Backup) when large amounts of unknown DA (MAC) traffic cause the switch to lose VRRP control packets being sent to the Management Module.

Release CY.02.03.0020 (Never released)

Problems Resolved in Release CY.02.03.0020

- **CLI (PR_1000311411)** — Added feature to provide visual feedback in the CLI when a command takes too long to complete. After three seconds "Please wait..." will be displayed with a pulsing asterisk (*), once per second until the command completes.
- **CLI (PR_1000314205)** — The virtual-link command, and all of its subcommands, are now available when configuring an area with router ospf.
- **System (PR_1000337778)** — The CLI command **show process restarts <xxx>** command appears to fail for all module types.
- **System (PR_1000340813)** — In the Kernal Diagnostics (Long POST Diagnostics) for the 8-Slot Fabric Module, the SFC Diagnostic fails SIO Port Sync consistently on IM 8.
- **VLAN (PR_1000340876)** — The commands **show interface <port>** and **show lag <lag-id> attributes** display irrelevant Layer 2 attributes for Layer 3 only interfaces.
- **CLI (PR_1000342429)** — Attempting to remove a spanning-tree instance when it is referred to by a LAG leads to a **no spanning-tree** command being saved in the running-config.
- **VLAN (PR_1000343700)** — VID 1 was treated as a special VID and was not able to be added as tagged (trunk mode) on any port configurations. This feature will allow users to add the VID 1 as part of trunk-vlans, enabling them to tag packets with VID 1.

Release CY.02.03.0021 (Never released)

Problems Resolved in Release CY.02.03.0021

- **Config (PR_1000346679)** — The system is unable to detect that the running configuration has been modified for the VRRP timer commands. The user is not given the option to save the startup configuration. This was a general problem with all config commands, not just VRRP timer commands.

Release CY.02.03.0022 (Never released)

Problems Resolved in Release CY.02.03.0022

- **System (PR_1000347445)** — During heavy loads, the system was failing to send protocol packets out from the management module which caused unwarranted STP and VRRP state transitions. This has been taken care of by aligning the cache line size with internal ethernet descriptor size so that the system does not miss sending the protocol packets out.

Release CY.02.03.0023 (Never released)

Problems Resolved in Release CY.02.03.0023

- **Crash (PR_1000357302)** — Prior to release CY.02.03.0023, incidents were reported of the 8100 rebooting after the crash of the MVPM process on the management module. The flash: directory would reveal a core file for the MVPM process after the crash.

Release CY.02.03.0024 (Never released)

Problems Resolved in Release CY.02.03.0024

- **MSTP (PR_1000358695)** — Instrumentation work against this PR, fixed in CY.02.03.0028.

Release CY.02.03.0025 (Never released)

Problems Resolved in Release CY.02.03.0025

- **MSTP (PR_1000358695)** — Instrumentation work against this PR, fixed in CY.02.03.0028.

Release CY.02.03.0026 (Never released)

Problems Resolved in Release CY.02.03.0026

- **System (PR_1000354367)** — VLAN range command failure can leave running-config and backend out of sync. Switchport trunk vlans and spanning tree member vlans commands are susceptible to this problem.

Release CY.02.03.0027 (Never released)

Problems Resolved in Release CY.02.03.0027

- **System (PR_1000332508)** — When a link changes from up to down state, the interface module resets, and causes the following messages to be observed in system event logs: *Mon Apr 17 16:56:30 2006:MM-A:MCHSM-E-CM_EVENT_ERROR: software on IM-6 is down. This problem occurs primarily when link aggregation groups (LAGs) are used in the network, and there are more than a few hundred ARP entries.

Release CY.02.03.0028 (Never released)

Problems Resolved in Release CY.02.03.0028

- **MSTP (PR_1000358695)** — A problem was discovered where the switch would experience extended periods of MAC moves, even though there was no evidence of loops in the network. These events would be logged in the system log. In a lot of these events the problem was not self-correcting. The only way to stop this problem was by bringing down ports.

Release CY.02.03.0029

Problems Resolved in Release CY.02.03.0029

- **System (PR_1000202796)** — This new user-definable feature allows the configuration of multiple IP helper-addresses for each interface. Prior to this release, only a single IP helper-address was allowed per interface.

Known Issues and Feature Limitations

This section lists the known issues and feature limitations in release CY.02.03.0028.

■ Changing an IP address on an already configured Interface (PR_100022073)

Description: ARPs on a pre-existing IP interface are unresolved after moving/changing an IP address. This applies to moving/changing an IP address on VLAN, port, or LAG interfaces.

Workaround: When changing an IP address from one interface to another (or on the same interface), first delete the pre-existing IP address, and then add the new IP address.

For example, if VLAN 1 had an IP address of 40.1.1.1/24 and VLAN 4 had an IP address of 41.1.1.1/24, and you wanted to change VLAN 4 to the 40.1.1.1 address, you would take the following steps:

- a. Remove the ip address that was previously on VLAN 4 (your target Interface).

```
int vlan 4
no ip address 41.1.1.1/24
```

- b. Delete the address from the old interface.

```
int vlan 1
no ip address 40.1.1.1/24
```

- c. Add the IP address to the target interface.

```
int vlan 4
ip address 40.1.1.1/24
```

■ Encrypted Passwords (PR_100232523)

Description: The enable secret password command allows a user to enter an encrypted password restricting access to Exec and Config modes on the switch. The optional encryption parameters [encrypt | 0 | 5] are used to control password encryption in the following ways:

- Specifying **encrypt** causes the switch to encrypt the clear text password (<string>). The encrypted password will appear in the configuration file as enable secret 5 <encrypted string>. This is the same as the default.
- Specifying a **0** forces the switch to display the password entry as clear text in your configuration files.
- Specifying a **5** indicates the string that what follows has already been encrypted.

*Note that to perform password encryption you do not need to enter a 5 to encrypt the password. When you enter the password string, type it as clear text (for example, **enable secret test**). When you press [Enter], the switch will perform the hash algorithm for you and produce the encrypted output. For more information, refer to the *ProCurve Series 8100fl Switches Management and Configuration Guide*.*

■ **L2 Traffic stops if VLAN interface is shutdown (PR_1000205977)**

Description: Layer 2 traffic stops if a corresponding VLAN interface is shutdown. That is, if two physical interfaces (port or LAG) on the switch are forwarding traffic on a specific VLAN with an IP address assigned, and the user then shuts down the VLAN interface, all forwarded traffic will stop on that VLAN.

Workaround: Shut down the IP interface by removing the ip address on the VLAN.

■ **OSPF dead timer issue (PR_1000197576)**

Description: If the switch is using an NTP server and the time source goes bad, the time remaining in the ospf dead timer decreases all of a sudden. When this happens, no routing can occur until the time catches up or is corrected.

Workaround: Enter the **clear ip ospf process** command to reset the OSPF process.

■ **SNMP (PR_1000241256)**

Description: SNMP queries of port speed on Gig-T modules (J8734A) may show speed of "0".

Workaround. None. Issue will be resolved in a future release.

■ **Using RADIUS to authenticate enable mode (PR_1000312635)**

Description: When enable mode is RADIUS authenticated no user name is prompted for.

Workaround: On your RADIUS server, use "\$enab15\$" as the user name entry to authenticate for the 8100fl switch.



© 2006 Hewlett-Packard Development
Company, LP. The information contained
herein is subject to change without notice.

Part Number 5990-8871
October 2006