Release Notes:
Version T.12.02 Software
for the ProCurve Series 2900 Switches

The T.12.02 software supports these switches:

- ProCurve Switch 2900-24G (J9049A) and 2900-48G (J9050A)

These release notes include information on the following:

Related Publications

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

- Management and Configuration Guide
- Advanced Traffic Management Guide
- Access Security Guide
- Multicast and Routing Guide

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Applicable Products

ProCurve Switch 2900-24G (J9049A)
ProCurve Switch 2900-48G (J9050A)

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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

www.openssl.org.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com)

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Software Management

Software Updates

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

Downloading Switch Documentation and Software from the Web

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

To Download a Software Version:

1. Go to the ProCurve Networking Web site at:

   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 **www.procurve.com**.
2. Click on **Technical support**, then **Product manuals**.
3. Click on the name of the product for which you want documentation. For the ProCurve Series 2900 switches, the link for the manuals pages is: **www.hp.com/rnd/support/manuals/2900.htm**
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 (**www.procurve.com**). After you acquire the new software file, you can use one of the following methods for downloading it to the switch:

- For a TFTP transfer from a server, do either of the following:
  - Select **Download OS** in the Main Menu of the switch's menu interface and use the (default) **TFTP** option.
  - Use the **copy tftp** command in the switch's CLI (see below).
- For an Xmodem transfer from a PC or Unix workstation, do either of the following:
  - Select **Download OS** in the Main Menu of the switch's menu interface and select the **Xmodem** option.
  - Use the **copy xmodem** command in the switch's CLI (page 4).
- Use the download utility in ProCurve Manager Plus.

Note

Downloading new software does not change the current switch configuration. The switch configuration is contained in a separate file that can also be transferred, for example, for archive purposes or to be used in another switch of the same model.

This section describes how to use the CLI to download software to the switch. You can also use the menu interface for software downloads. For more information, refer to the *Management and Configuration Guide* for your switch.

TFTP Download from a Server

Syntax: copy tftp flash <*ip-address*> <*remote-os-file*> [< primary | secondary >]

Note that if you do not specify the flash destination, the TFTP download defaults to the primary flash.

For example, to download a software file named T_11_1x.swi from a TFTP server with the IP address of 10.28.227.103:

1. Execute the copy command as shown below:

   ```
   ProCurve # copy tftp flash 10.28.227.103 T_11_1x.swi
   The primary OS image will be deleted. continue [y/n]? Y
   03125K
   ```

2. When the switch finishes downloading the software file from the server, it displays the progress message

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

3. When the CLI prompt re-appears, the switch is ready to reboot to activate the downloaded software:

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

5. Reboot the switch from the flash area that holds the new software (primary or secondary).

   After the switch reboots, it displays the CLI or Main Menu, depending on the **Logon Default** setting last configured in the menu's Switch Setup screen.

Xmodem Download From a PC or Unix Workstation

This procedure assumes that:

- The switch is connected via the Console RS-232 port to a PC operating as a terminal. (Refer to the Installation and Getting Started Guide you received with the switch for information on connecting a PC as a terminal and running the switch console interface.)
- The switch software is stored on a disk drive in the PC.
- The terminal emulator you are using includes the Xmodem binary transfer feature. (For example, in the HyperTerminal application included with Windows NT, you would use the Send File option in the Transfer dropdown menu.)

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

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

1. To reduce the download time, you may want to increase the baud rate in your terminal emulator and in the switch to a value such as 115200 bits per second. (The baud rate must be the same in both devices.) For example, to change the baud rate in the switch to 115200, execute this command:

   ```
   ProCurve(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:

   ```
   ProCurve # 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. (ProCurve recommends a baud rate of 9600 bits per second for most applications.) Remember to return your terminal emulator to the same baud rate as the switch.)

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

   After the switch reboots, it displays the CLI or Main Menu, depending on the **Logon Default** setting last configured in the menu's Switch Setup screen.

Saving Configurations While Using the CLI

The switch operates with two configuration files:

- **Running-Config File:** Exists in volatile memory and controls switch operation. Rebooting the switch erases the current running-config file and replaces it with an exact copy of the current startup-config file. To save a configuration change, you must save the running configuration to the startup-config file.
- **Startup-Config File:** Exists in flash (non-volatile) memory and preserves the most recently-saved configuration as the "permanent" configuration. When the switch reboots for any reason, an exact copy of the current startup-config file becomes the new running-config file in volatile memory.

When you use the CLI to make a configuration change, the switch places the change in the running-config file. If you want to preserve the change across reboots, you must save the change to the startup-config file. Otherwise, the next time the switch reboots, the change will be lost. There are two ways to save configuration changes while using the CLI:

- Execute **write memory** from the Manager, Global, or Context configuration level.
- When exiting from the CLI to the Main Menu, press **[Y]** (for `Yes`) when you see the "save configuration" prompt:

```
Do you want to save current configuration [y/n] ?
```

ProCurve Switch, Routing Switch, and Router Software Keys

Software Letter	ProCurve Networking Products
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. Switch 6108: H.07.xx and earlier
I	Switch 2800 Series (2824 and 2848)
J	Secure Router 7000dl Series (7102dl and 7203dl)
K	Switch 3500yl Series (3500yl-24G-PWR and 3500yl-48G-PWR), Switch 6200yl-24G, and 5400zl Series (5406zl, 5406zl-48G, 5412zl, and 5412zl-96G)
L	Switch 4200vl Series (4204vl, 4208vl, 4202vl-72, and 4202vl-48G)
M	Switch 3400cl Series (3400-24G and 3400-48G): M.08.51 though M.08.97, or M.10.01 and greater; Series 6400cl (6400cl-6XG CX4, and 6410cl-6XG X2): M.08.51 though M.08.95, or M.08.99 to M.08.100 and greater.
N	Switch 2810 Series (2810-24G and 2810-48G)
P	Switch 1800 Series (Switch 1800-8G – PA.xx; Switch 1800-24G – PB.xx)
Q	Switch 2510 Series (2510-24)
T	Switch 2900 Series (2900-24G, and 2900-48G)
WA	ProCurve Access Point 530
WS	ProCurve Wireless Edge Services xl Module and the ProCurve Redundant Wireless Services xl Module
numeric	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.)

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

The following clarifications apply to series 2900 switch documentation as of the T.12.00 release.

- **Enabling Jumbo Frames and Flow Control**
  The 2900 series switches support simultaneous use of Jumbo Frames and Flow Control, and the switch allows flow control and jumbo packet capability to co-exist on a port. (The earlier version of the Management and Configuration Guide incorrectly stated that these features could not be enabled at the same time.)

- **TACACS+ Encryption Key Exclusion from TFTP Copies**
  When using the copy command to transfer a configuration to a TFTP server, any server-specific or global encryption keys in the TACACS+ configuration will not be included in the transferred file. Otherwise, a security breach could occur, allowing access to the TACACS+ username/password information.

Enhancements

Unless otherwise noted, each new release includes the enhancements added in all previous releases. Enhancments are listed in chronological order, oldest to newest software release.

Descriptions and instructions for enhancements included in Release T.12.00 or earlier are included in the latest release of manuals for the ProCurve 2900 Series switches (February 2007), available on the web at www.hp.com/rnd/support/manuals

Release T.11.01 was the first production software release for the ProCurve 2900 Series switches. Releases T.11.02 through T.11.09 were never built.

Release T.11.13 is the last release of the T.11.xx software. The switch 2900 series software code was rolled to the T.12.01 code branch with no intervening releases.

Release T.11.10 through T.11.12 Enhancements

No new enhancements, software fixes only.

Release T.11.13 Enhancements

The following enhancements are included in the T.11.13 release.

- Loop Protection feature additions, including packet authentication, loop detected trap, and receiver port configuration.
- Historical information about MAC addresses that have been moved has been added to the "show tech" command output.

Release T.12.01 Enhancements

The following enhancements are included in the T.12.01 release documentation. The enhancements are listed by the title of the switch guide that includes the full description and instructions for that enhancement.

Advanced Traffic Management Guide

- **Loop Protection**—Detects the formation of loops when there is an unmanaged device on the network by transmitting loop protection protocol packets.
- **Qos Queue Config**—Allows you to reduce the number of outbound queues that all switch ports will use to buffer packets for 802.1p user priorities.

- **BPDU Protection**—A security feature designed to protect the active STP topology by preventing spoofed BPDU packets from entering the STP domain.
- **BPDU Filtering**—Allows control of spanning-tree participation on a per-port basis. It can be used to exclude specific ports from becoming part of spanning tree operations.

Management and Configuration Guide

- **Unidirectional Link Detection (UDLD)**—Monitors a link between two ProCurve switches and blocks the ports on both ends of the link if the link fails at any point between the two devices. This feature is particularly useful for detecting failures in fiber links and trunks.
- **Loopback Interface**—A virtual interface that is always up and reachable as long as at least one of the IP interfaces on the switch is operational. By default, each switch has an internal loopback interface (**lo0**). You can configure up to seven other loopback interfaces on the switch.
- **sFlow**— can be configured via the CLI for up to three distinct sFlow instances. Once enabled, an sFlow receiver/destination can be independently configured for full flow-sampling and counter-polling. (Introduced in Software Release K.11.34)
- **Clear Logging Command**—Causes event log entries to be hidden from display when using the standard **show logging** command.
- **Reload After/At Command**—**after:** Schedules a warm reboot of the switch after a given amount of time has passed.
  at: *S*chedules a warm reboot of the switch at a given time.

Multicast and Routing Guide

- **DHCP Option 82 Enhancement**—Specifies the IP address of the (optional) Management VLAN configured on the routing switch.
- **RIP**—the Routing Exchange Protocol (RIP) is now supported. RIP is an IP route exchange protocol that uses a ***distance vector*** (a number representing distance) to measure the cost of a given route.

Security Guide

- **RADIUS AAA**—Allows you to limit the services for a user by enabling AAA RADIUS authorization. The NAS uses the information set up on the RADIUS server to control the user's access to CLI commands.

- **Client-based Access Control**—provides client-level security that allows LAN access to individual 802.1X clients (up to 8 per port), where each client gains access to the LAN by entering valid user credentials. This operation improves security by opening a given port only to individually authenticated clients, while simultaneously blocking access to the same port for clients that cannot be authenticated.
- **Controlled Directions 802.1X and Web/MAC Auth**— allows you to use the **aaa port-access controlled-directions** command to configure how a port transmits traffic before it successfully authenticates a client and enters the authenticated state. Available for 802.1X and Web/MAC authorization. (Added in T.11.10, now documented)

The following enhancements included in Release T.12.01 are not covered in the February 2007 version of the switch 2900 series documentation.

- **Enhancement (PR_1000298920)** — A ping request issued to a VLAN which is down will now return a more specific message; instead of "request timed out," the message "The destination address is unreachable" will be displayed.
- **Enhancement (PR_1000373226)** — Support was added for a future SFP.
- **Enhancement (PR_1000376626)** — Enhanced CLI "qos dscp-map he" help and "show dscp-map" text to warn the user that inbound classification based on DSCP codepoints only occurs if "qos type-of-service diff-services" is also configured.

Release T.12.02 Enhancements

The following enhancements are included in the T.12.02 release.

- **Enhancement (PR_1000379804)** — Historical information about MAC addresses that have been moved has been added to the "show tech" command output.

Software Fixes in Release T.11.10 - T.12.02

Software fixes are listed in chronological order, oldest to newest. To review the list of fixes included since the last general release that was published, go to "Release T.12.02" on page 15.

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

Release T.11.01 was the first production software release for the ProCurve 2900 Series switches.

Releases T.11.02 through T.11.09 were never built.

Release T.11.13 is the last release of the T.11.xx software. The switch 2900 series software code was rolled to the T.12.01 code branch with no intervening releases.

Release T.11.10

The following problems were resolved in release T.11.10 (never released)

- **802.1X (PR_1000359976)** — Changed the maximum number of 802.1X users to 8.
- **802.1x (PR_1000358534)** — For the Controlled Directions feature of 802.1X to operate correctly, spanning tree must be enabled and authenticator ports must be set as edge ports.
- **CLI (PR_1000345301)** — The output from the "show config state" CLI command doesn't always report changes made to the configuration.
- **Crash (PR_1000346971)** — When stacking is disabled, the switch may crash with a message similar to:

  ```
  PPC Data Storage (Bus Error) exception vector 0x300: Stack Frame=0x08895e48
  HW Addr=0x39200000 IP=0x007132f8 Task='mSnmpCtrl'
  ```

- **Crash (PR_1000357083)** — The switch may crash with a message similar to:

  ```
  Software exception at ngDmaTx.c:722 -- in 'tDevPollTx', task ID = 0x4305c504
  -> HW DMA DRIVER unable.
  ```

- **Enhancement (PR_1000358903)** — 802.1X Controlled Directions enhancement. With this enhancment, administrators can use "Wake-on-LAN" with computers that are connected to ports configured for 802.1X authentication. No further information on using this feature is available at this time.
- **Enhancement (PR_1000351445)** — The "show tech transceiver" CLI command output now contains the HP part number and revision information for all transceivers on the switch.
- **Hang (PR_1000359640)** — Switch hangs on initialization and becomes unresponsive.

- **Management VLAN (PR_1000299387)** — The management VLAN does not allow connectivity from valid IP addresses.
- **SNMP (PR_1000358129)** — The command line interface (CLI) becomes unresponsive after running RMON traps code.
- **sFlow (PR_1000361604)** — Changed the maximum sFlow skipcount to 24 bits.

Release T.11.11

The following problems were resolved in release T.11.11

- **802.1X (PR_1000367404)** — CLI allows configuration of more 802.1X users per port than the eight per port supported by the switch.

Release T.11.12

The following problems were resolved in release T.11.12

- **802.1p QoS (PR_1000368188)** — 802.1p prioritization may not work once a trunk is enabled on a module, unless the user issues the commands "qos type-of service ip-precedence" or "qos type-of service diff-services".
- **ACL (PR_1000368901)** — Outbound access control lists (ACLs) do not function after a reboot.
- **Authorization (PR_1000365285)** — IP Authorized Managers behaves incorrectly with regard to telnet access.
- **CLI (PR_1000313916)** — The CLI output for the "show ip" command is misaligned; the proxy-arp column is shifted over to the left by one.
- **CLI (PR_1000368900)** — VLAN names over 12 characters in length cause "show ip route" to be displayed incorrectly.
- **Crash (PR_1000356446)** — When traffic monitoring is in use, the switch may crash with a message similar to this.

  ```
  Data Bus Error: Addr=0x704a6114 Data=0x00000011 flags=0x10000751,
  IP=0x4012eaac Task='mEaseUpdt' TaskID=0x42fef338
  ```

- **Crash (PR_1000368540)** — The switch may crash with a message similar to:

  ```
  Software exception at parser.c:8012 -- in 'mSess2', task ID = 0x90e10e0
  -> ASSERT: failed.
  ```

- **Crash (PR_1000372604)** — When multiple of instances of sFlow have been configured via the CLI, the switch may crash with an error similar to:

  ```
  Software exception at sflow.c:1170 -- in 'mEaseCtrl', task ID =
  0x80e5fe0-> ASSERT:  failed.
  ```

- **Menu/Event Log (PR_1000319407)** — Disabling of event log numbers, via the "no log-numbers" CLI command, doesn't work properly when viewing the event log via the Menu. Using the 'next' and 'prev' buttons causes the log numbers to reappear.
- **Routing (PR_1000350144)** — Adding a VLAN and assigning an IP address to that VLAN through the menu interface takes routing information protocol (RIP) offline in all VLANs.
- **RADIUS (PR_1000358525)** — Attributes that were overridden by RADIUS (CoS, Rate, and ACL) remain active if an authenticated user fails to send EAP-LOGOFF.
- **sFlow (PR_1000361604)** — Changed the maximum sFlow skipcount to 24 bits.
- **Traffic Monitoring/Performance Degradation (PR_1000370061)** — The switch is affected by ProCurve Manager (PCM) traffic monitoring, causing throughput degradation.
- **VLAN (PR_1000356062)** — When configuring from the menu interface, the 3500yl series switches will not allow the following name format for a new VLAN: "VLANx" (where "x" is a VLAN number).

Release T.11.13

The following problems were resolved in release T.11.13 (not a general release)

- **CLI (PR_1000377318)** — The output from the CLI command, 'show dhcp-relay' is truncated.
- **CLI (PR_1000379455)** — The output from some CLI "show" commands produces incorrectly formatted output on the screen.
- **Enhancement (PR_1000376406)** — Loop Protection feature additions, including packet authentication, loop detected trap, and receiver port configuration.
- **Enhancement (PR_1000379804)** — Historical information about MAC addresses that have been moved has been added to the "show tech" command output.
- **Event Log (PR_1000373796)** — Selecting "Save", within the IP Configuration screen of the Menu causes unnecessary Event Log messages.
- **Menu/Counters (PR_1000370619)** — The Menu Interface does not reflect changes to SNMP OIDs for "IP Mgmt - Tx/Rx" counters; the counter always reads "0."

- **sFlow/Flow-Control (PR_1000375851)** — To protect performance, egress sFlow sampling will be disabled on all ports if Flow-Control is enabled on any one or more ports, and a CLI/Event Log message will be generated.
- **Syslog (PR_1000379802)** — Forwarding of event log messages to a configured syslog server is not disabled when a specific event log message has been disabled via MIB.
- **Web/RADIUS (PR_1000368520)** — Web Authentication does not authenticate clients due to a failure to send RADIUS requests to the configured server.

Release T.12.01

The following problems were resolved in release T.12.01

- **CLI (PR_1000332352)** — The output of a "show int brief" command should show the negotiated flow control status rather than the flow control configuration setting.
- **Crash (PR_1000378804)** — The switch may crash when the maximum number of QoS rules is exceeded.
- **Crash (PR_1000392105)** — Specific actions in the port status screen of the menu interface may trigger a crash. Scrolling down to the ports on a module in slot L and pressing [enter] may cause the switch to crash with a message similar to:

```
Software exception at exception.c:424 -- in 'mSess1', task ID =
0x8dd1ab0 -> Memory system error at 0x881a480 - memPartFree
```

- **Enhancement (PR_1000373226)** — Support was added for a future SFP.
- **Enhancement (PR_1000298920)** — A ping request issued to a VLAN which is down will now return a more specific message; instead of "request timed out," the message "The destination address is unreachable" will be displayed.
- **Enhancement (PR_1000376626)** — Enhance CLI "qos dscp-map he" help and "show dscp-map" text to warn the user that inbound classification based on DSCP codepoints only occurs if "qos type-of-service diff-services" is also configured.
- **Routing (PR_1000359162)** — When the user configures a static route that overlaps with a local subnet configured on the switch, the router will not respond to packets destined for its own IP address. The packets for its own IP address will be routed using the configured static route.

Release T.12.02

The following problems were resolved in release T.12.02

- **CLI (PR_1000373443)** — The CLI "update" command help text and confirmation message is misleading and confusing.
- **Crash (PR_1000398746)** — The switch may crash with the task "swInitTask". This could result in repeated crashes until the switch configuration is cleared.
- **Crash /Traffic Monitoring (PR_1000396662)** — When Traffic Monitoring is enabled on the switch by a network management station (such as PCM) the switch may crash with a message similar to:

```
Data Bus Error: Addr=0x704a613c Data=0xffffffff flags=0x10000750,
IP=0x4012fa80 Task='tSvcWorkQ' TaskID=0x44b42ad0 cpsr=0x80000013
```

- **Crash (PR_1000392863)** — Switch may crash when "setmib tcpConnState" is used, with a message similar to:

```
NMI event SW:IP=0x0079f4a0 MSR:0x00029210 LR:0x006dca60
Task='eTelnetd' Task ID=0x8a7cbb0 cr: 0x20000042 sp:0x08a7c871
```

- **Crash (PR_1000399448)** — Changes to traffic monitoring settings may trigger the switch to crash with a message similar to:

```
Software exception at ease_ctrl.c:575 -- in 'mEaseCtrl', task ID =
0x8347160
```

- **Daylight Savings (PR_1000364740)** — Due to the passage of the Energy Policy Act of 2005, Pub. L. no. 109-58, 119 Stat 594 (2005), starting in March 2007 daylight time in the United States will begin on the second Sunday in March and end on the first Sunday in November.
- **DHCP (PR_1000397753)** — A unicast DHCP request that has already been relayed by another router is sometimes dropped.
- **Hang (PR_1000397964)** — The switch appears to hang where all routing stops, the switch cannot ping anything, even addresses configured locally.
- **Enhancement (PR_1000379804)** — Historical information about MAC addresses that have been moved has been added to the "show tech" command output.
- **Proxy-ARP (PR_1000393571)** — Proxy-ARP sends responses to gratuitous ARPs.
- **RIP (PR_1000393366)** — The switch does not process RIP (v2) responses containing subnets with a classful subnet mask, when the receiving RIP switch has a connected VLSM network defined that would fall within that classful range.

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