



Release Notes:

Version N.11.09 Software

for the ProCurve Series 2810 Switches

Release N.11.09 supports these switches:

- ProCurve Switch 2810-24G (J9021A),
- ProCurve Switch 2810-48G (J9022A)

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 8](#))
- A listing of software fixes included in releases N.10.02 through N.11.09 ([page 12](#))

Related Publications

For the latest version of the product documentation for your switch, visit the ProCurve Networking Web site at www.procurve.com. Click on **Technical support**, then **Product manuals**.

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Applicable Products

ProCurve Switch 2810-24G	(J9021A)
ProCurve Switch 2810-48G	(J9022A)

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<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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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.
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 L_10_0x.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 N_10_0x.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 shown in figure 1. When the CLI prompt re-appears, the switch is ready to reboot to activate the downloaded software:

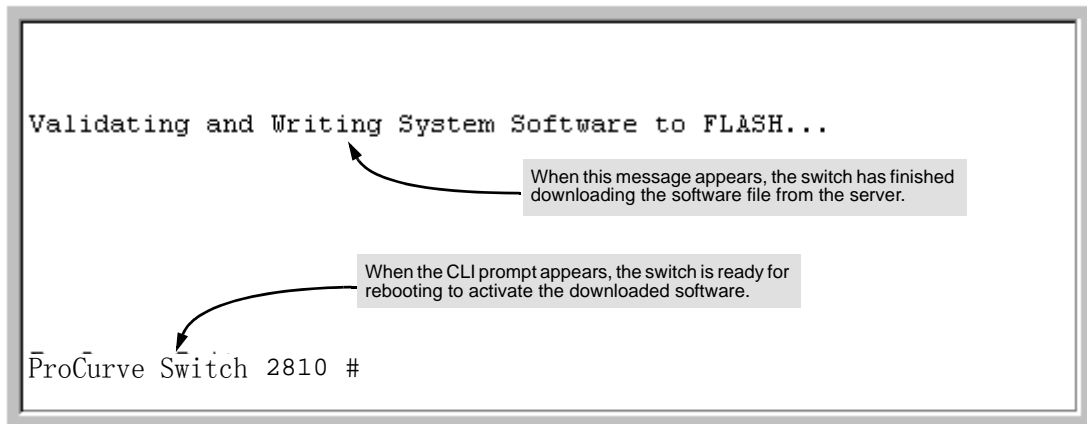


Figure 1. Message Indicating the Switch Is Ready To Activate the Downloaded Software

3. Use the **show flash** command to verify that the new software version is in the expected flash area (primary or secondary)
4. 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 drop-down 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. (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. 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) and Switch 8212zl.
L	Switch 4200vl Series (4204vl, 4208vl, 4202vl-72, and 4202vl-48G)
M	Switch 3400cl Series (3400-24G and 3400-48G): M.08.51 through M.08.97, or M.10.01 and greater; Series 6400cl (6400cl-6XG CX4, and 6410cl-6XG X2): M.08.51 through M.08.95, or M.08.99 to M.08.100 and greater.
N	Switch 2810 Series (2810-24G and 2810-48G)
PA/PB	Switch 1800 Series (Switch 1800-8G – PA.xx; Switch 1800-24G – PB.xx)
Q	Switch 2510 (2510-24)
R	Switch 2610 Series (2610-24; 2610-48; 2610-24-PWR; 2610-24/12PWR; 2610-48-PWR)
T	Switch 2900 Series (2900-24G, and 2900-48G)
U	Switch 2510-48
VA/VB	Switch 1700 Series (Switch 1700-8 - VA and 1700-24 - VB)
WA	ProCurve Access Point 530
WS	ProCurve Wireless Edge Services xl Module and the ProCurve Redundant Wireless Services xl Module
WT	ProCurve Wireless Edge Services zl Module and the ProCurve Redundant Wireless Services zl 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.)

Version N.10.02 is the first software release for the ProCurve Series 2810 switches.

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

There are currently no clarification or updates to existing documentation related to the Series 2810 Switches or software release N.11.08.

Enhancements

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

Enhancements are listed in chronological order, oldest to newest software release.

Release N.10.03 and N.10.04 Enhancements

No enhancements, software fixes only.

Release N.10.05 Enhancements

Release N.10.05 contains the following enhancements:

- The **show tech transceiver** CLI command output now contains the HP part number and revision information for all transceivers on the switch.

Release N.10.06 Enhancements

Release N.10.06 contains the following enhancements:

- Historical information about MAC addresses that have been moved has been added to the **show tech** command output.

Release N10.07 Enhancements

Release N.10.07 includes the following enhancements:

- **Enhancement (PR_1000365862)** — This enhancement added the option of configuring ports that had been previously disabled by BPDU Protection to be automatically re-enabled.
- **Enhancement (PR_1000373226)** — Support was added for the J9054B 100-FX SFP-LC transceiver.

Release N10.08 Enhancements

Release N.10.08 includes the following enhancements:

- **Protected Ports:** To provide internet access to users but prevent them from accessing each other, use the **protected-ports** command. The command applies per-port and filters the outbound traffic from the port. See “Configuring Protected Ports” in the “Configuring and Monitoring Port Security” chapter of the *Access Security Guide* for more information.
- **Show tech transceivers:** The show tech transceivers command allows you to remotely identify transceiver type and revision number without having to physically remove an installed transceiver from its slot. Additionally, the command displays real-time status information about all installed transceivers, including non-operational transceivers. See the chapter titled “Port Status and Basic Configuration” in the *Management and Configuration Guide* for your switch.
- **Scheduled reload:** The scheduled reload feature allows you to reboot the switch at times that are more convenient. The new parameters are “**at**” and “**after**”. The **reload at** command allows you to specify a specific time for the reboot. The **reload after** command allows you to reboot the switch after a specified amount of time has passed. See the chapter titled “Switch Memory and Configuration” in the *Management and Configuration Guide* for your switch.
- **Spanning-tree admin-edge-port:** During spanning tree establishment, ports with **admin-edge-port** enabled transition immediately to the forwarding state. If a bridge or switch is detected on the segment, the port automatically operates as non-edge, not enabled. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Spanning-tree auto-edge-port:** Supports the automatic identification of edge ports. The port will look for BPDUs for 3 seconds; if there are none it begins forwarding packets. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Spanning-tree BPDU Filtering:** The bpd-filter option forces a port to **always** stay in the forwarding state and be excluded from standard STP operation. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Spanning-tree BPDU Protection:** A security feature designed to protect the active STP topology by preventing spoofed BPDU packets from entering the STP domain. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.

Enhancements

Release N.10.09 Enhancements

- **Spanning-tree root-guard:** When a port is enabled as **root-guard**, it cannot be selected as the root port even if it receives superior STP BPDUs. The port is assigned an “alternate” port role and enters a blocking state if it receives superior STP BPDUs. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Spanning-tree tcn-guard:** Causes the port to stop propagating received topology change notifications and topology changes to other ports. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Loop Protection:** Protects against the formation of loops when an unmanaged device on the network drops spanning tree packets. Transmits loop protocol packets out ports on which loop protection has been enabled. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Show spanning-tree root-history:** Displays the spanning-tree root changes history information. See the chapter titled “Multiple Instance Spanning Tree Operation” in the *Advanced Traffic Management Guide* for your switch.
- **Added 802.1X Client-based Access Control:** Provides client-level security that allows LAN access to individual 802.1X clients (up to 2 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. See the chapter titled “Configuring Port-Based and Client-Based Access Control (802.1X)” in the *Access Security Guide* for your switch.

Release N.10.09 Enhancements

No enhancements, software fixes only.

Release N.11.01 Enhancements

No enhancements, software fixes only.

Release N.11.02 Enhancements

No enhancements, software fixes only.

Release N.11.03 Enhancements

No enhancements, software fixes only.

Release N.11.04 Enhancements

No enhancements, software fixes only.

Release N.11.05 Enhancements

No enhancements, software fixes only.

Release N.11.06 Enhancements

No enhancements, software fixes only.

Release N.11.07 Enhancements

No enhancements, software fixes only.

Release N.11.08 Enhancements

No enhancements, software fixes only.

Release N.11.09 Enhancements

No enhancements, software fixes only.

Software Fixes

Software fixes are listed in chronological order, from the oldest to the newest software release.

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

ReleaseN.10.02 is the first software release for the ProCurve 2810 Series switches.

Release N.10.03

Problems Resolved in Release N.10.03 *(Never released.)*

- **Auto-TFTP (PR_1000353270)** — The "auto-tftp" feature does not consistently download the configured file upon reboot.
- **CLI/Web UI (PR_1000281397)** — Passwords longer than 16 characters are truncated without user notification.

- **Crash/Software (PR_1000344998)** — The switch may crash with a message similar to:

```
Software exception at sme.c:103 -- in 'mSess1', task ID = 0x8e05520  
-> ASSERT: failed
```

- **Crash (PR_1000345064)** — Attempting to use TFTP to transfer a pub-key-file with the following command:

```
copy tftp pub-key-file <ip-addr> <file-name>
```

causes the switch to crash with a message similar to:

```
TLB Miss: Virtual Addr=0x00000000 IP=0x805bf714 Task='mftTask' Task  
ID=0x81dc2000
```

- **Crash (PR_1000355366)** — A TLB Miss crash occurs when an LACP protocol packet is received out of order. The crash message may be similar to:

```
TLB Miss: Virtual Addr=0x00000000 IP=0x80254498 Task='mLACPctrl'  
Task ID=0x8347bb40 fp:0x00000000 sp:0x8347ba98 ra:0x80254478  
sr:0x1000fc01
```

- **Login (PR_1000347300)** — Login failures do not result in an "Invalid Password" response.

- **RADIUS EAP (PR_1000334731)** — PEAP/TLS EAP types fail to authenticate with Microsoft IAS Radius Server. The switch event log will report:

```
can't reach RADIUS server
```

- **SSH (PR_1000350999)** — The SSH login prompts user to **press any key to continue** twice before providing a prompt.

Release N.10.04

Problems Resolved in Release N.10.04 *(Never released.)*

- **802.1x (PR_1000353479)** — Changing the supplicant start period (e.g., "aaa port-access supplicant A1 start-period 15") corrupts the supplicant password on a switch that is configured as a supplicant.

Release N.10.05

Problems Resolved in Release N.10.05 *(Not a general release.)*

- **802.1x (PR_1000366179)** — Open VLAN supplicants that fail 802.1X authentication can access the authorized VLAN.
- **802.1x (PR_1000366395)** — Enabling port-access authentication on gig ports causes the switch to crash.
- **Authorization (PR_1000365285)** — IP Authorized Managers behaves incorrectly with regard to telnet access.
- **Auto-TFTP (PR_1000362661)** — When auto-TFTP is enabled, after a **reload** command is issued from the CLI, the switch crashes after displaying the message **Rebooting the System**.
- **CLI (PR_1000358129)** — The command line interface (CLI) becomes unresponsive after running RMON traps code.
- **Crash (PR_1000360267)** — Removing a VLAN that is assigned as the unauthorized VID may cause the switch to crash with a message similar to:

```
Software exception at vls_dyn_reconfig.c:2640 -- in 'mSnmpCtrl',  
task ID = 0x170 -> ASSERT: failed.
```
- **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_1000365567)** — Switch may hang and ports not link up.
- **Hang (PR_1000346328)** — RMON alarms/events configuration files may become corrupt and prevent initialization, resulting in failure to boot.
- **RADIUS (PR_1000358525)** — Attributes that were overridden by RADIUS (CoS, Rate, and ACL) remain active if an authenticated user fails to send EAP-LOGOFF.

- **Source Port Filtering (PR_1000352851)** — Source Port Filtering on trunks does not work, even though the switch accepts the configuration.

Release N.10.06

Problems Resolved in Release N.10.06 *(Not a general release.)*

- **802.1X (PR_1000378481)** — 802.1X authentication needs to be limited to two users per port.
- **CLI (PR_1000364628)** — The command output from **show ip rip peer** yields an incorrectly formatted peer IP address.
- **CLI/Config (PR_1000342824)** — Configuring a port for MDI will cause the port to act as MDI-X, and vice versa.
- **CLI/Config (PR_1000375830)** — When using the **no vlan** command, the user is asked if they want to remove the VLAN. Answering no will result in the VLAN being removed anyway.
- **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_1000382962)** — Executing the CLI command, **sho int** on a miniGBIC that is not linked, may cause the switch to crash with a message similar to:

```
Divide by Zero Error: IP=0x8017becc Task='mSess1' Task ID=0x834b19d0  
fp:0x00000018 sp:0x834b0d20 ra:0x8017be18 sr:0x1000fc01 Division by  
0 Crash at cli_opershow_action.c:1298.
```
- **Crash (PR_1000386489)** — The switch may crash with a message similar to:

```
Unaligned Access: Virtual Addr=0xa3e2dad7 IP=0x801f8234  
Task='eDrvPoll' Task ID=0x81b02650 fp:0x81ecce90 sp:0x81b02538  
ra:0x801f8208
```
- **Enhancement (PR_1000379804)** — Historical information about MAC addresses that have been moved has been added to the **show tech** command output.
- **Syslog (PR_1000379802)** — Forwarding of event log message 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.
- **Web-UI (PR_1000373711)** — Attempting to access the Web UI of a stack member without being logged on as Manager returns a 404 Page Not Found error.

Release N.10.07

Problems Resolved in Release N.10.07

- **Auto MDIX (PR_1000355099)** — Forced mode auto-MDIX on 10/100 ports does not function.
- **CLI (PR_1000380660)** — The **show tech transceivers** CLI command displays the wrong message when inserting an "A" version transceiver into a switch that only supports "B" version transceivers. Also, "B" version CX4 transceivers show up as "A" and "A" version SR, LR, and ER transceivers show up as "B" versions.
- **CLI/config (PR_1000391119)** — Copying a configuration file to a switch with a BPDU protection timeout value set may produce an error similar to:

```
CCCCCline: 10007. 1200: Error setting configuration
```
- **CLI/LLDP (PR_1000377191)** — Output from the CLI command, **show lldp info remote-device <port>** shows a blank field for the chassis ID.
- **CLI (PR_1000390385)** — The CLI help text for **span bpdu-protection-timeout** is incorrect; it erroneously displays the help text for **span hello-time**.
- **CLI/Config (PR_1000377413)** — CLI does not prevent invalid configuration from being loaded. With this fix, configurations with excess IP Address QoS entries will result in an error message and the config file will not load.
- **Crash (PR_1000357252)** — When authenticating with Web UI using a Radius server, the switch may crash with a message similar to:

```
TLB Miss: Virtual Addr=0x00211dc4 IP=0x00211dc4 Task='tHttpd' Task  
ID=0x83413db0 fp:0x00000000 sp:0x83413c68
```
- **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.
- **Enhancement (PR_1000365862)** — This portion of the enhancement added the option of configuring ports that had been previously disabled by BPDU Protection to be automatically re-enabled.
- **Enhancement (PR_1000373226)** — Support was added for the J9054B 100-FX SFP-LC transceiver.
- **GVRP (PR_1000385623)** — The switch does not process GVRP frames when the receiving port is tagged, so no VLANs are learned from that source.
- **Trunking (PR_1000238829)** — Trunks numbered **trk10** and greater cause the output from the CLI command **show span** output to be misaligned.

- **Web UI (PR_1000326265)** — Attempting to access the Web UI of a stack member hangs the browser.

Release N.10.08

Problems Resolved in Release N.10.08 (*Never released.*)

- **CLI (PR_1000240838)** — If an invalid time is entered using **clock set** command, the switch responds with an "invalid date" error.
- **CLI (PR_1000199785)** — Tab help (command-completion) for "IP RIP authentication" is inaccurate.
- **CLI (PR_1000373443)** — The CLI **update** command help and confirmation message is misleading and confusing.
- **Traceroute (PR_1000379199)** — Reported **traceroute** time is inaccurate. It appears to be one decimal place off.
- **sFlow (PR_1000396889)** — If sflow skip count is set greater than the maximum skip count or less than minimum skip count, the switch returns an error, preventing PCM from collecting sampling data.
- **Menu (PR_1000392862)** — The menu will allow values greater than 720 seconds to be entered for the SNMP poll interval without error.
- **BPDU Protection (PR_1000395569)** — BPDU-protection fails after a module is hot-swapped.

Release N.10.09

Problems Resolved in Release N.10.09

- **IP Connectivity (PR_1000418378)** — The switch (incorrectly) updates its ARP table when a client, which is configured with a valid IP address for a valid VLAN, is connected to a port in another VLAN on the switch. This will result in loss of connectivity for the valid client in the appropriate VLAN.
- **Trunking (PR_1000395062)** — When one port of a trunk fails or is disconnected, the trunk does not correctly failover.
- **Trunking (PR_1000410057)** — When a trunk port becomes inactive or a cable is unplugged, it affects communication through other trunks.
- **Crash (PR_1000413907)** — The switch crashes when stacking.

- **CLI (PR_1000413734)** — MDI/MDIX information now reports N/A when doing a **show int brief**. It should report either MDI or MDIX.
- **Crash (PR_1000410959)** — If the SNMP v3 user is deleted on the switch without deleting associated parameters and then rebooted, the switch may reboot continuously. It reports a software exception error similar to:

```
Software exception at exception.c:373 -- in 'mSnmpEvt', task ID =  
0x17d1818 -> Memory system error at 0x17c22e0 - memPartFree
```

Release N.11.01

Problems Resolved in Release N.11.01 (never released)

- **System (PR_1000412897)** — Configuring a port speed to 10 mbps does not work.
- **CLI (PR_1000410952)** — When stacking, accessing a member switch through the commander's CLI may crash switch.
- **Crash (PR_1000412287)** — The switch may crash when receiving a BPDU on a port configured with 802.1x authentication.
- **CLI (PR_1000380660)** — The **show tech transceivers** command may display incorrect information when inserting certain transceivers into switch.
- **System (PR_1000403054)** — The switch does not process CDP packets.
- **STP (PR_1000382901)** — An auto-edge port link down state change may cause an STP topology change.
- **Logging (PR_1000420713)** — The switch does not properly report excessive oversized or undersized packets.
- **Web UI (PR_1000424035)** — Password sent in URL when using web interface
- **Web UI (PR_1000416167)** — CA-signed certificate cannot be installed via the Web interface with the message:

```
error too large
```
- **Crash (PR_1000418699)** — When using Web authentication, authenticating multiple clients on a port may cause a crash.
- **Crash (PR_1000413907)** - The switch may crash when using the stacking menu.
- **CLI (PR_1000416350)** — The **show span root-history msti <x>** does not show the correct priority.
- **Crash (PR_1000420712)** — Enabling both Spanning Tree and MAC authentication may cause the switch to crash.

Software Fixes

Release N.11.02

- **Web UI (PR_1000429039)** — Changing the IP address via the Web interface incorrectly displays the subnet mask as IP address.
- **Crash (PR_1000420722)** — The switch may crash when downloading a configuration report from the Web interface.
- **Web UI (PR_1000405976)** — The Web UI allows deleting the startup-config file without reboot creating an inconsistent state.
- **Web UI (PR_1000427213)** — The Upload/Download screen in Web interface has no scroll bars.
- **Trunk (PR_1000395062)** — Trunking may not fail over properly from one link to the other.
- **Trunk (PR_1000410057)** — Trunk failure may affect communication through other configured trunks.
- **Port Security (PR_1000402594)** — The Switch may allow unauthorized MACs to be learned when using port security.
- **TIMEP (PR_1000427372)** — "Timesync ?" incorrectly refers to the network time protocol. It should be "TIME" protocol.
- **MSTP** — Various MSTP compliance fixes.

Release N.11.02

Problems Resolved in Release N.11.02

- **Web Auth (PR_1000334982)** — A software exception might occur when Web authentication and an open VLAN is configured.

Release N.11.03

Problems Resolved in Release N.11.03

- **Port Counters (PR_1000440553)** — Port counters may erroneously report traffic on port 26.
- **Web-Auth (PR_1000425595)** — Web-Auth is not responding to DNS queries.
- **Network Connectivity (PR_1000436184)** — Using multiple LACP trunks with MSTP may cause a loss of network connectivity.
- **Crash (PR_1000448326)** — MAC-Auth/Web-Auth crashes the switch.

Release N.11.04

Problems Resolved in Release N.11.04

- **Port Security (PR_1000449644)** — Port Security that is used in conjunction with 10-mbps port speed may cause the switch to crash.
- **Port Counters (PR_1000373805)** — Menu port counters "total frames" does not include all transmitted traffic.
- **OID (PR_1000450982)** — The PortSlotOID definitions are incorrect.
- **Auto_MDIX (PR_1000452011)** — Auto-MDIX does not function correctly with fixed-speed ports. Each time that the switch is reloaded, it will give random MDI/MDIX values for each port.
- **Crash (PR_1000453410)** — Stack member crashes repeatedly with a message similar to:

```
TLB Miss: Virtual Addr=0x00000000 IP=0x800a84d4 Task='mSnmpEvt' Task  
ID=0x833edbf0 fp:0x00000000 sp:0x833eda38 ra:0x800a84cc sr:0x1000fc01
```

Release N.11.05

Problems Resolved in Release N.11.05

- **Hang/Reset (PR_1000450986)** — The switch may experience a reset while booting, making the boot time longer. The switch may boot only from the primary flash image.

Release N.11.06

Problems Resolved in Release N.11.06

- **SNMP (PR_1000406398)** — URL-embedded SNMP traps are not sent as SSL (https) when SSL is enabled, but they are instead sent as plain text (http). This may result in the trap receiver (PCM) unable to display the URL when SSL is enabled.
- **CLI (PR_1000451000)** — Cancelling **boot system flash (prilsec)** command sets the default boot image. Issuing a **reload** after canceling causes the switch to boot into the canceled flash image.

Release N.11.07

Problems Resolved in Release N.11.07

- **RX Counters (PR_1000458490)** — The "Drops RX" counters increment on spanning tree-blocked ports.

Release N.11.08

Problems Resolved in Release N.11.08

- **IGMP (PR_1000466842)** — IGMP (PR_1000466842) - IGMP drops multicast streams at random intervals, if there are two or more streams. The first stream is not affected.

Release N.11.09

Problems Resolved in Release N.11.09

- **Mirroring (PR_1000460844)** — Packets to other VLANs are mirrored when the **vlan x monitor** command is used.
- **SNMP (PR_1000715545)** — The switch sends unconfigured traps upon boot.
- **DST (PR_1000467724)** — The DST change-over dates are incorrect for the Western-European time zone.
- **xSTP (PR_1000330684)** — The spanning-tree command help text has been updated.
- **Sflow (PR_1000749192)** — When ports are configured as a trunk, traffic may not be sampled or may be sampled incorrectly.
- **Counters (PR_1000756649)** — The switch is incorrectly incrementing the IfInDiscard error counter.



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