

## Release Notes:

### Version T.11.11 Software

*for the ProCurve Series 2900 Switches*

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The T.11.11 software supports these switches:

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

These release notes include information on the following:

- Downloading switch software and documentation from the Web ([page 1](#))
- A listing of software fixes included in releases T.11.10 through T.11.11 ([page 8](#))

#### **Related Publications**

For the latest version of any of the publications listed below, visit the ProCurve Networking Web site at [//www.procurve.com](http://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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### **Publication Number**

5991-4790  
October 2006 -B

### **Applicable Products**

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

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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

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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

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## Software Updates

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

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## 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](http://www.procurve.com).
2. Click on **Software updates** (in the sidebar).
3. Under **Latest software**, click on **Switches**.

**To Download Product Documentation:** You will need the Adobe® Acrobat® Reader to view, print, and/or copy the product documentation.

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

- For a TFTP transfer from a server, do either of the following:
  - 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.

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### 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.

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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.

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## 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] ?
```

## Software Management

ProCurve Switch, Routing Switch, and Router Software Keys

# ProCurve Switch, Routing Switch, and Router Software Keys

<b>Software Letter</b>	<b>ProCurve Networking Products</b>
<b>C</b>	1600M, 2400M, 2424M, 4000M, and 8000M
<b>CY</b>	Switch 8100fl Series (8108fl and 8116fl)
<b>E</b>	Switch 5300xl Series (5304xl, 5308xl, 5348xl, and 5372xl)
<b>F</b>	Switch 2500 Series (2512 and 2524), Switch 2312, and Switch 2324
<b>G</b>	Switch 4100gl Series (4104gl, 4108gl, and 4148gl)
<b>H</b>	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
<b>I</b>	Switch 2800 Series (2824 and 2848)
<b>J</b>	Secure Router 7000dl Series (7102dl and 7203dl)
<b>K</b>	Switch 3500yl Series (3500yl-24G-PWR and 3500yl-48G-PWR), Switch 6200yl-24G, and 5400zl Series (5406zl, 5406zl-48G, 5412zl, and 5412zl-96G)
<b>L</b>	Switch 4200vl Series (4204vl, 4208vl, 4202vl-72, and 4202vl-48G)
<b>M</b>	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.
<b>N</b>	Switch 2810 Series (2810-24G and 2810-48G)
<b>P</b>	Switch 1800 Series (Switch 1800-8G – PA.xx; Switch 1800-24G – PB.xx)
<b>Q</b>	Switch 2510 Series (2510-24)
<b>T</b>	Switch 2900 Series (2900-24G, and 2900-48G)
<b>WA</b>	ProCurve Access Point 530
<b>WS</b>	ProCurve Wireless Edge Services xl Module and the ProCurve Redundant Wireless Services xl Module
<b>numeric</b>	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:

<b>Operating System</b>	<b>Internet Explorer</b>	<b>Java</b>
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	

## Software Fixes in Release T.11.10 - T.11.1x

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Software fixes are listed in chronological order, oldest to newest.

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.

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### 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 enhancement, 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.



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October 2006, -B  
Manual Part Number  
5991-4790