

Read Me First

for the HP Procurve Routing Switches 9304M, 9308M, and 6308M-SX
and the HP Procurve Switch 6208M-SX

Edition 7 (2/01) Covering Software Releases 06.6.32 (or Later 6.X) and 07.1.19 or Later

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Warning: Do not use the handles on the power supply units to lift or carry the routing switch.

Software Updates Are *Free!*

Help Us Help You...Register Now To Keep Up-To-Date on the Latest Software!



Hewlett-Packard provides *free* software updates for all managed HP Procurve networking products. To access the software updates, go to the HP Procurve website at <http://www.hp.com/go/hpprocurve>, then click on **software** to go to the **free software updates** page.

Register for Automatic Notification of Updates. From the **free software updates** page you can also register yourself to automatically receive email notice of new updates for your managed HP Procurve networking products. Just follow the instructions on that page for how to receive the update notices.

To determine whether you have the latest software, compare the software version that is available on the website with the version that is currently installed in your switch or routing switch. To load a new software image, see the chapter titled "Updating Software Images and Configuration Files" in *Book 1: Installation and Getting Started Guide*, which you received with the switch or routing switch.

Note that current product documentation, and any supplements describing how to use any recently released software updates are also available on the above website (click on **technical support**, then **manuals**).

New Software Releases 06.6.32 (or Later 6.X Software) and 07.1.19 (or Later) Are Now Available

- Support for these new modules:
 - J4856A HP Procurve 9300 Mini-GBIC Module
 - J4857A HP Procurve 9300 Mini GBIC Redundant Management Module (software branch 07.X or later)
- Layer 2 enhancements
- Layer 3 enhancements
- System-Level enhancements

If you received this edition (ed. 7) of *Read Me First* with a Redundant Management module, then software release 07.1.19 (or later) is already installed in the device. (To verify the version number for the currently installed software, execute the **show version** command in the CLI (Command Line Interface).

For more information on the features in release 06.6.X and 07.1.X, refer to the release notes and manuals on the CD-ROM shipped with this edition of *Read Me First*. The release notes, manuals, and other information are also available on HP's Procurve website at <http://www.hp.com/go/hpprocurve> (click on **Technical Support**, then **Manuals**).

Software Branches

Beginning with the software releases 6.6.28 and 07.1.10, HP offers two software (Operating System) branches:

- **06.6.28 and later 06.X releases:** These releases typically include only bug fixes, and operate on the following devices:
 - HP 9304M and 9308M routing switches *without* redundant management (that is, with MI modules)
 - HP 6308M-SX routing switch
 - HP 6208M-SX switch
- **07.1.10 and later 07.X and higher releases:** These releases typically include new features, enhancements to existing features, and bug fixes, and operate only with the HP 9304M and 9308M routing switches with redundant management (MII or later modules).

(HP made releases 06.6.28 and 07.1.10 available on the HP Procurve website, but not in management modules shipped from the factory.)

Module Installation

Caution—Routing Switch 9304M and 9308M

To avoid hardware damage during module installation, be careful to properly line up the edges of the module board with the guides built into the module slot on the chassis.

Powering-Up a Device Having Multiple Power Supplies

When you power-up a device that requires multiple power supplies, make sure you apply power to all the supplies (or at least to the minimum number of supplies required for your configuration) at the same time. Otherwise, the device either will not boot at all, or will boot and then repeatedly display a warning message stating that you need to add more power supplies.

Getting Started

You can initially access the switch or routing switch in either of the following ways:

- Via Telnet or FTP *through port 1 on the management module*, using the factory default IP address (209.157.22.254) and subnet mask (255.255.255.0)
- By connecting a terminal device to the serial port on the management module

Note: HP recommends that you use the console cable provided with the routing switch. If you need to use a different cable, please see the "Console Cable" entry under "Accessory Parts List" on page 3.

After you have accessed the device, change the default IP address and subnet mask to correspond to your network's addressing scheme. For more on assigning an IP address and other topics, see the following:

Topic	Chapter	Manual
Installation Procedures and Precautions	2, "Installation"	<i>Book 1: Installation and Getting Started Guide</i>
Attaching a Terminal Device and Assigning an IP Address	2, "Installation"	" " " " " " " "
Using Redundant Management Modules	4, "Using Redundant Management Modules"	" " " " " " " "
System Boot from a Bootp Server	5, "Privileged EXEC Commands"	<i>Book 3: Command Line Interface Reference</i>
Software Overview	6, "Software Overview"	<i>Book 1: Installation and Getting Started Guide</i>
Hardware Overview and Specifications	7, "Hardware Overview"	" " " " " " " "
Enabling Telnet	3 (pp. 3-1 through 3-7)	" " " " " " " "

Your *Free* Ticket to Proactive Networking!

HP TopTools for Hubs & Switches is a breakthrough in network management software that gives you more network with less work. The HP TopTools for Hubs & Switches CD is included at no extra charge with your HP Procurve routing switch. See the system requirements printed on the sleeve containing the HP TopTools CD.

Accessory Parts List

Unless otherwise indicated, these accessories are included with your HP Procurve Routing Switches 9304M and 9308M.

Accessory	Notes
Power Cord Kit	The HP Procurve 9304M: Either three power cords (one each for the U.S.A., the U.K., and continental Europe) or one power cord for Australia or Japan. The HP Procurve 9308M: Either six power cords (two each for the U.S.A., the U.K., and continental Europe) or two power cords for Australia or Japan. Caution: If the installation requires a different power cord than the one supplied with the switch or routing switch, be sure to use a shielded power cord displaying the mark of the safety agency that defines the regulations for power cords in your country. The mark is your assurance that the power cord can be used safely with the switch or routing switch.
Console Cable	Connects terminal, PC, or modem to serial port on any HP 9300 management module for direct-connect or modem access management using the Command Line Interface (CLI). If you need to use a different cable, select a "straight-through" serial cable with a female DB-9 to DB-9 connector for the connection to the switch or routing switch. For more information, see "Attaching a PC or Terminal" in chapter 2, "Installation".
Rack Mount Kit	Contains two mounting brackets and the screws required to attach the brackets to the switch or routing switch.
HP TopTools for Hubs & Switches	For system requirements, see the sleeve containing the CD.
Product Documentation (for software release 06.6.X (or later 6.X release) or software release 7.1.X or later)	<ul style="list-style-type: none"> <i>Read Me First</i> (this document) Updates are periodically posted on the HP Procurve website. Go to http://www.hp.com/go/hpprocurve, click on technical support, and then click on manuals. <i>Book 1: Installation and Getting Started Guide</i> (Shipped with the 9304M and 9308M chassis.) <i>Product Documentation and Software CD-ROM</i> includes PDF files of the installation, configuration/management, and command line interface guides, plus other information Manual Supplements describing software features (if any) added after the last revision of the manuals (For the latest information, go to http://www.hp.com/go/hpprocurve, click on technical support, and then click on manuals.)
HP TopTools for Hubs & Switches CD-ROM	Provides HP's SNMP-based network management software.
Warranty and Support Booklet	Included with routing switch chassis shipments

Product Documentation Set

The following product documentation is available for software releases 06.6.28 and 07.1.10 or later:

Document:	Where Provided:
<i>Read Me First</i> (this document)	<ul style="list-style-type: none">Printed version included with your 9308M, 9304M, and management module devices. This document is periodically revised. The latest edition is on the HP Procurve website.*
<i>Book 1: Installation and Getting Started Guide</i>	<ul style="list-style-type: none">Printed manual included with the 9304M and 9308M chassis.Portable document format (PDF) file included on the <i>Product Documentation and Software CD-ROM</i> shipped with management modules, and also available on the HP Procurve website*.
<i>Book 2: Advanced Configuration and Management Guide</i>	<ul style="list-style-type: none">Portable document format (PDF) file included on the <i>Product Documentation and Software CD-ROM</i> shipped with management modules, and also available on the HP Procurve website*.
<i>Book 3: HP Procurve Command Line Interface Reference</i>	<ul style="list-style-type: none">Portable document format (PDF) file included on the <i>Product Documentation and Software CD-ROM</i> shipped with management modules, and also available on the HP Procurve website*.
<i>Release Notes for Version 06.6.32 and 07.1.19 or later</i>	<ul style="list-style-type: none">Portable document format (PDF) file included on the <i>Product Documentation and Software CD-ROM</i> shipped with the device, and also available on the HP Procurve website*.

* Go to <http://www.hp.com/go/hpprocurve>, click on **technical support**, then **manuals**, and select the appropriate product.

Note: The installation manual and CD-ROM for software releases 06.6.32 and 07.1.19 (and later) include "software release 06.6.x and 07.1.x" on the cover or CD sleeve, and show the following part numbers and date:

- Book 1: Installation and Getting Started Guide*— 5969-2362, December 2000
- Product Documentation and Software CD-ROM*: 5064-9987, 12/00

If you received an earlier version of the above manual and CD-ROM and are running software release 06.6.32 (or later 6.x release) or software release 07.1.19 (or later), you may want to download the latest documentation from the HP Procurve website. (See the footnote to the above table.)

Operating Notes and Troubleshooting

Redundant Management Module Operation

When two redundant management modules are installed in an HP 9304M or 9308M Routing Switch, the two modules work together as active and standby management modules. If the active module becomes unavailable, the standby module automatically takes over system operation. If this occurs, the routing tables, ARP tables, etc. are all updated dynamically, as if the routing switch had been rebooted. As a result of this reconvergence, a noticeable, temporary network disruption will occur. The duration of the disruption depends on the number of routes being utilized through the device, and can be significant.

Auto-Negotiation Between the HP 9300M Routing Switches and Extreme Summit™ Switches

Condition. Auto-Negotiation between the HP 9300M routing switches and Extreme Summit switches may sometimes fail.

Solution. Disable auto-gig on the routing switch port(s) attached to the Extreme Summit switch.

For example, use the following CLI commands to disable auto-gig on port 2 in slot 1 of the HP J9304M Routing Switch:

```
HP 9304M (config)# int e 1/2
HP 9304M (config-if-1/2)# no auto-gig
```

Web Management Interface Running Slow or Failing To Respond

Condition. The Web management interface on the routing switch times out or does not respond. This can occur when the routing switch CPU is processing an excessive amount of broadcast traffic.

Solution. The Web management interface recovers automatically when the CPU is sufficiently free of broadcast traffic. Because the Web management interface is a low priority for the CPU, you may want to take steps to reduce the broadcast traffic on your network. One method for doing this is to use TopTools for Hubs & Switches to determine the "top talkers" on your network, then create VLANs to segment the network for optimum traffic control.

Note: Use TopTools for Hubs & Switches version A04.50 (p/n J2569P) with the P.02.05 patch installed—or a later version. The latest version of TopTools for Hubs & Switches and any recommended patches are also available on the HP Procurve website. (For software downloads, see "Software Updates Are *Free!*" on page 1.)

Web Management Interface "Not Available" or "In Use"

Condition. You are unable to access the Web management interface.

Solution. A routing switch allows only one session of the Web management interface at any given time. Thus, if one user is accessing the routing switch via the Web, the **not available** or **in use** messages will appear to another user who is trying to access that routing switch through the Web management interface. You can, however, limit access via the Web management interface by assigning a password to the routing switch. With a password set, access via the Web management interface will be available only to users who can enter the password. For more on passwords, refer to *Book 1: Installation and Getting Started Guide*. (For information on the latest version, see "Product Documentation Set" on page 4.)

Device Will Not Boot Up Due to Corrupt Operating System

Condition. The operating system (OS) is corrupt on both the primary and secondary flash memory, and the routing switch will not boot up.

Solution. The routing switch will first try to boot up using the primary OS written to flash memory. If this fails, the device automatically tries to boot from the secondary flash memory. If this also fails, the routing switch then tries to connect to a TFTP server and boot from there. This will fail if a TFTP server is not configured to support the routing switch, or is not found. You can perform this solution only if you have access to a TFTP server. Otherwise, there are TFTP applications (available on the World Wide Web) that you can use to enable your PC to appear as a TFTP server to the routing switch. One website where such software can be found is <http://www.walusoft.co.uk>.

1. Using a straight-through cable, directly connect a PC or terminal to the serial port on the routing switch. (For more information on attaching a PC or terminal, refer to chapter 2, "Installation", in the *Installation and Getting Started Guide*.)
2. Reboot the routing switch.
3. While the system is booting up, enter **b** at the CLI to go into the boot monitor mode.
4. Enter the following commands:
 - a. **boot> ip address <ip address> <subnet mask>**
 - b. **boot> ip default_gateway <ip address of tftp server | default gateway to get to tftp server>**
 - c. **boot> boot system tftp <ip address of tftp server> <configuration file name>**

The routing switch will now be able to boot up over the network. A new copy of the operating system can now be downloaded to the primary and secondary flash memories via the TFTP server.

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