Getting Started

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Introduction

This Management and Configuration Guide is intended for use with the following switches:

- ProCurve Switch 5406zl
- ProCurve Switch 5412zl
- ProCurve Switch 3500yl-24G-PWR Intelligent Edge
- ProCurve Switch 3500yl-48G-PWR Intelligent Edge
- ProCurve Switch 6200yl-24G mGBIC Premium Edge

This guide describes how to use the command line interface (CLI), Menu interface, and web browser to configure, manage, monitor, and troubleshoot switch operation.

For an overview of other product documentation for the above switches, refer to “Product Documentation” on page xiii.


Conventions

This guide uses the following conventions for command syntax and displayed information.

Feature Descriptions by Model

In cases where a software feature is not available in all of the switch models covered by this guide, the section heading specifically indicates which product or product series offer the feature.

For example, (the switch is highlighted here in bold italics):

“QoS Pass-Through Mode on the Series 5400zl Switches”.
Command Syntax Statements

**Syntax:** ip < default-gateway < ip-addr >> | routing >

**Syntax:** show interfaces [port-list]

- Vertical bars (|) separate alternative, mutually exclusive elements.
- Square brackets ([ ]) indicate optional elements.
- Braces (< >) enclose required elements.
- Braces within square brackets ([<>]) indicate a required element within an optional choice.
- Boldface indicates use of a CLI command, part of a CLI command syntax, or other displayed element in general text. For example:
  
  “Use the `copy tftp` command to download the key from a TFTP server.”
- Italics indicate variables for which you must supply a value when executing the command. For example, in this command syntax, you must provide one or more port numbers:
  
  **Syntax:** aaa port-access authenticator < port-list >

Command Prompts

In the default configuration, your switch displays a CLI prompt similar to the following:

```
ProCurve 5406zl#
ProCurve 5412zl#
ProCurve 3500yl#
ProCurve 6200yl#
```

To simplify recognition, this guide uses **ProCurve** to represent command prompts for all models. For example:

```
ProCurve#
```

(You can use the **hostname** command to change the text in the CLI prompt.)
Screen Simulations

Displayed Text. Figures containing simulated screen text and command output look like this:

```
ProCurve> show version
Image stamp: /sw/code/build/info
March 1, 2006 13:43:13
K.11.01
139
ProCurve>
```

Figure 1-1. Example of a Figure Showing a Simulated Screen

In some cases, brief command-output sequences appear without figure identification. For example:

```
ProCurve(config)# clear public-key
ProCurve(config)# show ip client-public-key
show_client_public_key: cannot stat keyfile
```

Port Identity Examples

This guide describes software applicable to both chassis-based and stackable ProCurve switches. Where port identities are needed in an example, this guide uses the chassis-based port identity system, such as “A1, “B3-B5”, “C7”, etc. However, unless otherwise noted, such examples apply equally to the stackable switches, which typically use only numbers, such as “1”, “3-5”, “15”, etc. for port identities.

Configuration and Operation Examples

Unless otherwise noted, examples using a particular switch model apply to all switch models covered by this guide.

Keys

Simulations of actual keys use a bold, sans-serif typeface with square brackets. For example, the Tab key appears as [Tab] and the “Y” key appears as [Y].
Sources for More Information

For information about switch operation and features not covered in this guide, consult the following sources:

- **Feature Index**—For information on which product manual to consult for a given software feature, refer to the “Software Feature Index” on page xiv.

**Note**

For the latest version of all ProCurve switch documentation, including Release Notes covering recently added features, visit the ProCurve Networking web site at [www.procurve.com](http://www.procurve.com), click on Technical support, and then click on **Product Manuals (all)**.

- **Software Release Notes**—Release Notes are posted on the ProCurve Networking web site and provide information on new software updates:
  - information on the ProCurve Premium Edge License (This option is used on the 3500yl and 5400zl switches to enable certain software features described in the manual set for these switches. The 6200yl switch is available only as a Premium Edge switch.)
  - new features and how to configure and use them
  - software management, including downloading software to the switch
  - software fixes addressed in current and previous releases

To view and download a copy of the latest software release notes for your switch, refer to “Getting Documentation From the Web” on page 1-7.

- **Product Notes and Software Update Information**—The printed Read Me First shipped with your switch provides software update information, product notes, and other information. For the latest version, refer to “Getting Documentation From the Web” on page 1-7.

- **Installation and Getting Started Guide**—Use the Installation and Getting Started Guide shipped with your switch to prepare for and perform the physical installation. This guide also steps you through connecting the switch to your network and assigning IP addressing, as well as describing the LED indications for correct operation and trouble analysis. You can download a copy from the ProCurve Networking web site. (See “Getting Documentation From the Web” on page 1-7.)
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Sources for More Information

- **Management and Configuration Guide**—Use this guide for information on topics such as:
  - various interfaces available on the switch
  - memory and configuration operation
  - interface access
  - IP addressing
  - time protocols
  - port configuration, trunking, traffic control, and PoE operation
  - SNMP, LLDP, and other network management topics
  - file transfers, switch monitoring, troubleshooting, and MAC address management

- **Advanced Traffic Management Guide**—Use this guide for information on topics such as:
  - VLANs: Static port-based and protocol VLANs, and dynamic GVRP VLANs
  - spanning Tree: 802.1D (STP), 802.1w (RSTP), and 802.1s (MSTP)
  - meshing
  - Quality-of-Service (QoS)
  - Access Control Lists (ACLs)

- **Multicast and Routing Guide**—Use this guide for information topics such as:
  - IGMP
  - PIM (SM and DM)
  - IP routing
  - VRRP

- **Access Security Guide**—Use this guide for information on topics such as:
  - Local username and password security
  - Web-Based and MAC-based authentication
  - RADIUS and TACACS+ authentication
  - SSH (Secure Shell) and SSL (Secure Socket Layer) operation
  - 802.1X access control
  - Port security operation with MAC-based control
  - Authorized IP Manager security
  - Key Management System (KMS)
Getting Documentation From the Web

1. Go to the ProCurve Networking web site at www.procurve.com
2. Click on Technical support.
3. Click on Product manuals.
4. Click on the product for which you want to view or download a manual.

If you need further information on ProCurve switch technology, visit the ProCurve Networking web site at:

www.procurve.com

Online Help

Menu Interface

If you need information on specific parameters in the menu interface, refer to the online help provided in the interface. For example:

```
**********************- CONSOLE - MANAGER MODE -********************
Switch Configuration - Internet (IP) Service
IP Routing : Disabled
Default Gateway : 10.35.204.104
Arp Age : 20
Subnet Mask : 255.255.240.0
```

Figure 1-2. Online Help for Menu Interface
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Sources for More Information

Command Line Interface

If you need information on a specific command in the CLI, type the command name followed by `help`. For example:

```
ProCurve# write help
Usage: write <memory|terminal>

Description: View or save the running configuration of the switch.
write terminal - displays the running configuration of the
switch on the terminal
write memory - saves the running configuration of the
switch to flash. The saved configuration
becomes the boot-up configuration of the switch
the next time it is booted.
```

Figure 1-3. CLI Help

Web Browser Interface

If you need information on specific features in the ProCurve Web Browser Interface (hereafter referred to as the “web browser interface”), use the online Help. You can access the Help by clicking on the question mark button in the upper right corner of any of the web browser interface screens.

Figure 1-4. Button for Web Browser Interface Online Help

**Note**

To access the online Help for the ProCurve web browser interface, you need either ProCurve Manager (version 1.5 or greater) installed on your network or an active connection to the World Wide Web. Otherwise, Online help for the web browser interface will not be available.
Need Only a Quick Start?

IP Addressing

If you just want to give the switch an IP address so that it can communicate on your network, or if you are not using VLANs, ProCurve recommends that you use the Switch Setup screen to quickly configure IP addressing. To do so, do one of the following:

- Enter `setup` at the CLI Manager level prompt.
  
  `Procurve# setup`

- In the Main Menu of the Menu interface, select
  
  8. Run Setup

For more on using the Switch Setup screen, see the *Installation and Getting Started Guide* you received with the switch.

To Set Up and Install the Switch in Your Network

Physical Installation

Use the ProCurve *Installation and Getting Started Guide* (shipped with the switch) for the following:

- Notes, cautions, and warnings related to installing and using the switch and its related modules
- Instructions for physically installing the switch in your network
- Quickly assigning an IP address and subnet mask, set a Manager password, and (optionally) configure other basic features.
- Interpreting LED behavior.

For the latest version of the *Installation and Getting Started Guide* for your switch, refer to “Getting Documentation From the Web” on page 1-7.
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Premium Edge Switch Features

The ProCurve 3500yl and 5400zl switches ship with the ProCurve Intelligent Edge software feature set. Additional Premium Edge switch software features for these switches can be acquired by purchasing a Premium Edge license and installing it on the Intelligent Edge version of these switches. Part numbers for the Premium Edge licenses are:

- 3500yl switches: J8993A
- 5400zl switches: J8994A

(Note that the ProCurve 6200yl switch is available only as a Premium Edge switch.)

For the most current information about the features included in the Premium Edge package, refer to the release notes for your product on the ProCurve Networking web site. The Premium Edge License is available from your ProCurve reseller.