

# Getting Started

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## Introduction

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

- ProCurve Switch 2900-24G
- ProCurve Switch 2900-48G

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 xvii.

You can download documentation from the ProCurve Networking web site, [www.procurve.com](http://www.procurve.com).

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### Caution

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Use only the supported genuine ProCurve mini-GBICs with your switch. Non-ProCurve mini-GBICs are not supported.

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## 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 ***Switch 2900***”.

## 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 2900-24G#
```

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
               August 1, 2006 13:43:13
               T.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 additional 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 “Feature Index” on page xviii.

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### 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:
  - 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.)

- *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, and traffic control
  - 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: 802.1s (MSTP)
  - Quality-of-Service (QoS)
- *Multicast and Routing Guide*—Use this guide for information topics such as:
  - IGMP
  - IP routing
- *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)

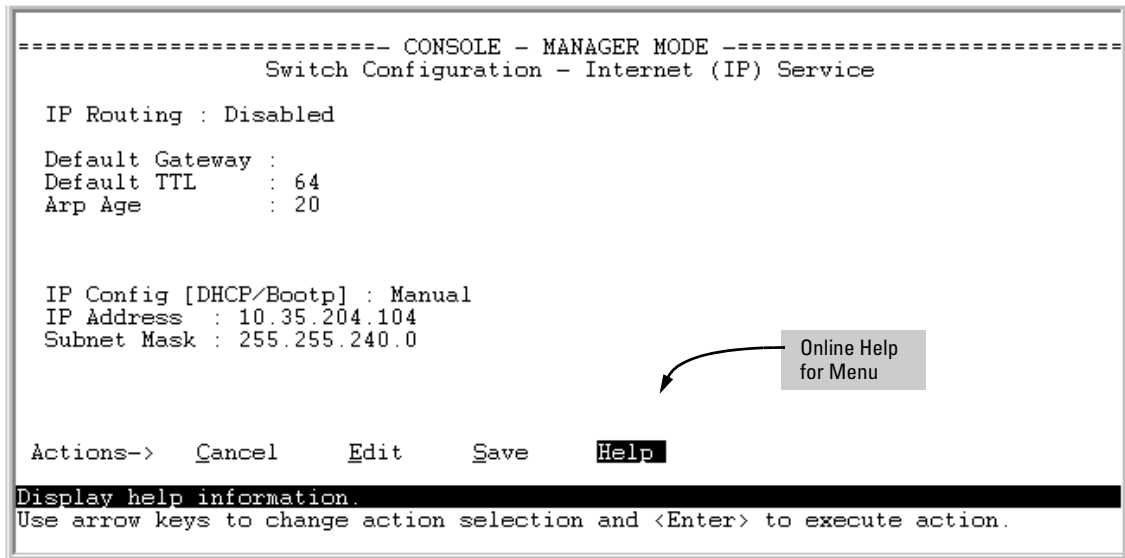
## Getting Documentation From the Web

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.

## Online Help

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 :  
Default TTL    : 64  
Arp Age       : 20  
  
IP Config [DHCP/Bootp] : Manual  
IP Address    : 10.35.204.104  
Subnet Mask   : 255.255.240.0  
  
Actions->  Cancel    Edit    Save    Help  
Display help information.  
Use arrow keys to change action selection and <Enter> to execute action.
```



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.
```

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 available for the web browser interface. For more information on web browser Help options, refer to “Online Help for the ProCurve Web Browser Interface” in the chapter titled “Using the ProCurve Web Browser Interface”.

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

**[www.procurve.com](http://www.procurve.com)**

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## 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.

## **Getting Started**

To Set Up and Install the Switch in Your Network