

Using the Menu Interface

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Overview

This chapter describes the following:

- Overview of the Menu Interface
- Starting and ending a Menu session (page 3-3))
- The Main Menu (page 3-7))
- Screen structure and navigation (page 3-9))
- Rebooting the switch (page 3-12))

The menu interface operates through the switch console to provide you with a subset of switch commands in an easy-to-use menu format enabling you to:

- Perform a quick configuration of basic parameters, such as the IP addressing needed to provide management access through your network
- Configure these features:
 - Manager and Operator passwords
 - System parameters
 - IP addressing
 - Time protocol
 - Ports
 - Trunk groups
 - A network monitoring port
 - Stack Management
 - Spanning Tree operation
 - SNMP community names
 - IP authorized managers
 - VLANs (Virtual LANs) and GVRP
- View status, counters, and Event Log information
- Update switch software
- Reboot the switch

For a detailed list of menu features, see the “Menu Features List” on page 3-14).

Privilege Levels and Password Security. *ProCurve strongly recommends that you configure a Manager password to help prevent unauthorized access to your network.* A Manager password grants full read-write access to the switch. An Operator password, if configured, grants access to status and counter, Event Log, and the Operator level in the CLI. After you configure passwords on the switch and log off of the interface, access to the menu interface (and the CLI and web browser interface) will require entry of either the Manager or Operator password. (If the switch has only a Manager password, then someone without a password can still gain read-only access.)

Note

If the switch has neither a Manager nor an Operator password, anyone having access to the console interface can operate the console with full manager privileges. Also, if you configure only an Operator password, entering the Operator password enables full manager privileges.

For more information on passwords, see the chapter on local passwords in the Access Security Guide for your switch.

- The menu interface displays the current running-config parameter settings. You can use the menu interface to save configuration changes made in the CLI only if the CLI changes are in the running config when you save changes made in the menu interface. (For more on how switch memory manages configuration changes, see Chapter 6, “Switch Memory and Configuration”.)
- A configuration change made through any switch interface overwrites earlier changes made through any other interface.
- The Menu Interface and the CLI (Command Line Interface) both use the switch console. To enter the menu from the CLI, use the **menu** command. To enter the CLI from the Menu interface, select **Command Line (CLI)** option.)

Starting and Ending a Menu Session

You can access the menu interface using any of the following:

- A direct serial connection to the switch’s console port, as described in the installation guide you received with the switch
- A Telnet connection to the switch console from a networked PC or the switch’s web browser interface. Telnet requires that an IP address and subnet mask compatible with your network have already been configured on the switch.
- The stack Commander, if the switch is a stack member

Note

This section assumes that either a terminal device is already configured and connected to the switch (see the *Installation and Getting Started Guide* shipped with your switch) or that you have already configured an IP address on the switch (required for Telnet access).

How To Start a Menu Interface Session

In its factory default configuration, the switch console starts with the CLI prompt. To use the menu interface with Manager privileges, go to the Manager level prompt and enter the **menu** command.

1. Use one of these methods to connect to the switch:

- A PC terminal emulator or terminal
- Telnet

(You can also use the stack Commander if the switch is a stack member).

2. Do one of the following:

- If you are using Telnet, go to step 3.
- If you are using a PC terminal emulator or a terminal, press **[Enter]** one or more times until a prompt appears.

3. When the switch screen appears, do one of the following:

- If a password has been configured, the password prompt appears.

```
Password: _
```

Type the Manager password and press **[Enter]**. Entering the Manager password gives you manager-level access to the switch. (Entering the Operator password gives you operator-level access to the switch. Refer to the chapter on local manager and operator usernames and passwords in the *Access Security Guide* for your switch.)

- If no password has been configured, the CLI prompt appears. Go to the next step.

4. When the CLI prompt appears, display the Menu interface by entering the **menu** command. For example:

```
ProCurve# menu [Enter]
```

results in:

```
----- CONSOLE - MANAGER MODE -----  
Main Menu  
  
1. Status and Counters...  
2. Switch Configuration...  
3. Console Passwords...  
4. Event Log  
5. Command Line (CLI)  
6. Reboot Switch  
7. Download OS  
8. Run Setup  
9. Stacking...  
0. Logout  
  
Provides the menu to display configuration, status, and counters.  
To select menu item, press item number, or highlight item and press <Enter>.
```

Figure 3-1. The Main Menu with Manager Privileges

For a description of Main Menu features, see “Main Menu Features” on page 3-7).

Note

To configure the switch to start with the menu interface instead of the CLI, go to the Manager level prompt in the CLI, enter the **setup** command, and in the resulting display, change the **Logon Default** parameter to **Menu**. For more information, see the *Installation and Getting Started Guide* you received with the switch.

How To End a Menu Session and Exit from the Console:

The method for ending a menu session and exiting from the console depends on whether, during the session, you made any changes to the switch configuration that require a switch reboot to activate. (Most changes via the menu interface need only a **Save**, and do not require a switch reboot.) Configuration changes needing a reboot are marked with an asterisk (*) next to the configured item in the menu and also next to the **Switch Configuration** item in the Main Menu.

Asterisk indicates a configuration change that requires a reboot to activate.

```
----- CONSOLE - MANAGER MODE -----  
Main Menu  
  
1. Status and Counters...  
*2. Switch Configuration...  
3. Console Passwords...  
4. Event Log  
5. Command Line (CLI)  
6. Reboot Switch  
7. Download OS  
8. Run Setup  
9. Stacking...  
0. Logout  
  
Displays the menu for customizing the switch configuration.  
To select menu item, press item number, or highlight item and press <Enter>.  
(*Needs reboot to activate changes.)
```

Figure 3-2. An Asterisk Indicates a Configuration Change Requiring a Reboot

1. In the current session, if you have not made configuration changes that require a switch reboot to activate, return to the Main Menu and press [0] (zero) to log out. Then just exit from the terminal program, turn off the terminal, or quit the Telnet session.
2. If you *have* made configuration changes that require a switch reboot—that is, if an asterisk (*) appears next to a configured item or next to **Switch Configuration** in the Main Menu:
 - a. Return to the Main Menu.
 - b. Press [6] to select **Reboot Switch** and follow the instructions on the reboot screen.

Rebooting the switch terminates the menu session, and, if you are using Telnet, disconnects the Telnet session.

(See “Rebooting To Activate Configuration Changes” on page 3-13.)

3. Exit from the terminal program, turn off the terminal, or close the Telnet application program.

Main Menu Features

```
----- CONSOLE - MANAGER MODE -----  
Main Menu  
  
1. Status and Counters...  
2. Switch Configuration...  
3. Console Passwords...  
4. Event Log  
5. Command Line (CLI)  
6. Reboot Switch  
7. Download OS  
8. Run Setup  
9. Stacking...  
0. Logout  
  
Provides the menu to display configuration, status, and counters.  
To select menu item, press item number, or highlight item and press <Enter>.
```

Figure 3-3. The Main Menu View with Manager Privileges

The Main Menu gives you access to these Menu interface features:

- **Status and Counters:** Provides access to display screens showing switch information, port status and counters, port and VLAN address tables, and spanning tree information. (See Appendix B, “Monitoring and Analyzing Switch Operation”.)
- **Switch Configuration:** Provides access to configuration screens for displaying and changing the current configuration settings. (See the Contents listing at the front of this manual.) For a listing of features and parameters configurable through the menu interface, see the “Menu Features List” on page 3-14).
- **Console Passwords:** Provides access to the screen used to set or change Manager-level and Operator-level passwords, and to delete Manager and Operator password protection. (See the local password chapter in the Access Security Guide shipped with your switch.)
- **Event Log:** Enables you to read progress and error messages that are useful for checking and troubleshooting switch operation. (See “Using Logging To Identify Problem Sources” on page C-23.)

- **Command Line (CLI):** Selects the Command Line Interface at the same level (Manager or Operator) that you are accessing in the Menu interface. (See chapter 4, “Using the Command Line Interface (CLI)”.)
- **Reboot Switch:** Performs a “warm” reboot of the switch, which clears most temporary error conditions, resets the network activity counters to zero, and resets the system up-time to zero. A reboot is required to activate a change in the VLAN Support parameter. (See “Rebooting from the Menu Interface” on page 6-10.)
- **Download OS:** Enables you to download a new software version to the switch. (See Appendix A, “File Transfers”.)
- **Run Setup:** Displays the Switch Setup screen for quickly configuring basic switch parameters such as IP addressing, default gateway, logon default interface, spanning tree, and others. (See the *Installation and Getting Started* guide shipped with your switch.)
- **Stacking:** Enables you to use a single IP address and standard network cabling to manage a group of up to 16 switches in the same subnet (broadcast domain). See the chapter on stack management in the *Advanced Traffic Management Guide*.
- **Logout:** Closes the Menu interface and console session, and disconnects Telnet access to the switch. (See “How to End a Menu Session and Exit from the Console” on page 3-5.)

Screen Structure and Navigation

Menu interface screens include these three elements:

- Parameter fields and/or read-only information such as statistics
- Navigation and configuration actions, such as Save, Edit, and Cancel
- Help line to describe navigation options, individual parameters, and read-only data

For example, in the following System Information screen:

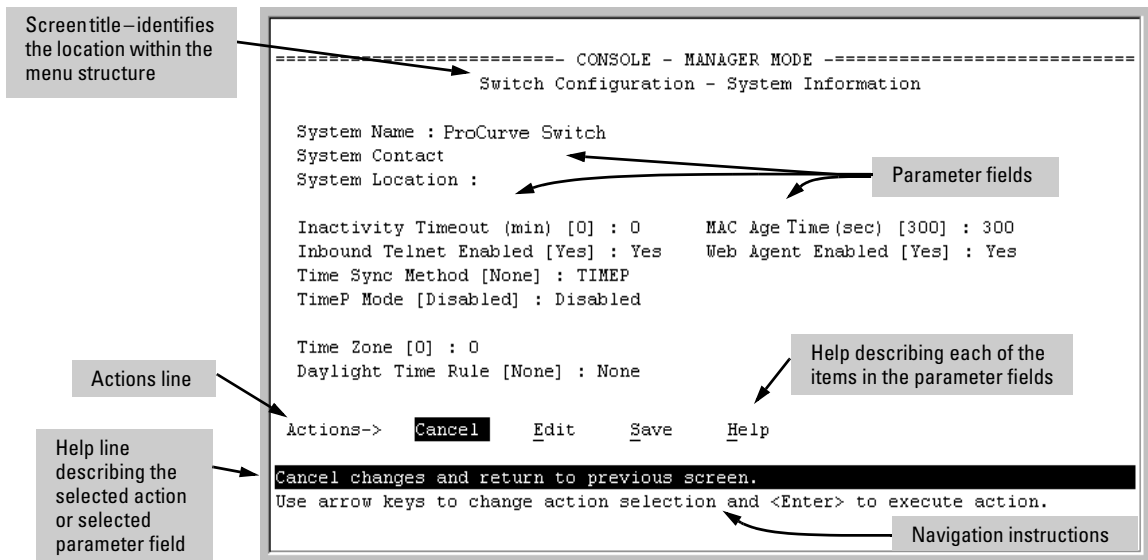


Figure 3-4. Elements of the Screen Structure

“Forms” Design. The configuration screens, in particular, operate similarly to a number of PC applications that use forms for data entry. When you first enter these screens, you see the current configuration for the item you have selected. To change the configuration, the basic operation is to:

1. Press **[E]** to select the **Edit** action.
2. Navigate through the screen making all the necessary configuration changes. (See table 3-1 on page 3-10.)
3. Press **[Enter]** to return to the **Actions** line. From there you can save the configuration changes or cancel the changes. Cancel returns the configuration to the values you saw when you first entered the screen.

Table 3-1. How To Navigate in the Menu Interface

Task:	Actions:
Execute an action from the “Actions →” list at the bottom of the screen:	<p>Use either of the following methods:</p> <ul style="list-style-type: none"> • Use the arrow keys (←) or (→) to highlight the action you want to execute, then press [Enter]. • Press the key corresponding to the capital letter in the action name. For example, in a configuration menu, press [E] to select Edit and begin editing parameter values.
Reconfigure (edit) a parameter setting or a field:	<ol style="list-style-type: none"> 1. Select a configuration item, such as System Name. (See figure 2-4.) 2. Press [E] (for Edit on the Actions line). 3. Use [Tab] or the arrow keys (←, →, ↑, or ↓) to highlight the item or field. 4. Do one of the following: <ul style="list-style-type: none"> – If the parameter has preconfigured values, either use the Space bar to select a new option or type the first part of your selection and the rest of the selection appears automatically. (The help line instructs you to “Select” a value.) – If there are no preconfigured values, type in a value (the Help line instructs you to “Enter” a value). 5. If you want to change another parameter value, return to step 3. 6. If you are finished editing parameters in the displayed screen, press [Enter] to return to the Actions line and do one of the following: <ul style="list-style-type: none"> – To save and activate configuration changes, press [S] (for the Save action). This saves the changes in the startup configuration and also implements the change in the currently running configuration. (See Chapter 6, “Switch Memory and Configuration”.) – To exit from the screen without saving any changes that you have made (or if you have not made changes), press [C] (for the Cancel action). <p>Note: In the menu interface, executing Save activates most parameter changes and saves them in the startup configuration (or flash) memory, and it is therefore not necessary to reboot the switch after making these changes. But if an asterisk appears next to any menu item you reconfigure, the switch will not activate or save the change for that item until you reboot the switch. In this case, rebooting should be done after you have made all desired changes and then returned to the Main Menu.</p> 7. When you finish editing parameters, return to the Main Menu. 8. If necessary, reboot the switch by highlighting Reboot Switch in the Main Menu and pressing [Enter]. (See the Note, above.)
Exit from a read-only screen.	Press [B] (for the Back action).

To get Help on individual parameter descriptions. In most screens there is a **Help** option in the **Actions** line. Whenever any of the items in the **Actions** line is highlighted, press **[H]**, and a separate help screen is displayed. For example:

The screenshot shows a terminal window titled "CONSOLE - MANAGER MODE" and "Switch Configuration - System Information". The screen displays various system parameters such as System Name, System Contact, System Location, Inactivity Timeout, Inbound Telnet Enabled, Time Sync Method, TimeP Mode, Time Zone, Daylight Time Rule, MAC Age Time, and Web Agent Enabled. At the bottom, there is an "Actions->" line with four options: "Cancel", "Edit", "Save", and "Help". The "Cancel" option is highlighted. Below the Actions line, a help line is displayed: "Cancel changes and return to previous screen. Use arrow keys to change action selection and <Enter> to execute action." Three callout boxes provide additional context: one points to the "Cancel" option in the Actions line, another points to the "Help" option, and a third points to the help line text.

Highlight on any item in the Actions line indicates that the Actions line is active.

The Help line provides a brief descriptor of the highlighted Action item or parameter.

Pressing **[H]** or highlighting **Help** and pressing **[Enter]** displays Help for the parameters listed in the upper part of the screen

Figure 3-5. Example Showing How To Display Help

To get Help on the actions or data fields in each screen: Use the arrow keys (←, →, ↑, or ↓) to select an action or data field. The help line under the **Actions** items describes the currently selected action or data field.

For guidance on how to navigate in a screen: See the instructions provided at the bottom of the screen, or refer to “Screen Structure and Navigation” on page 3-9.)

Rebooting the Switch

Rebooting the switch from the menu interface

- Terminates all current sessions and performs a reset of the operating system
- Activates any menu interface configuration changes that require a reboot
- Resets statistical counters to zero

(Note that statistical counters can be reset to zero without rebooting the switch.)

To Reboot the switch, use the **Reboot Switch** option in the Main Menu. (Note that the Reboot Switch option is not available if you log on in Operator mode; that is, if you enter an Operator password instead of a manager password at the password prompt.)

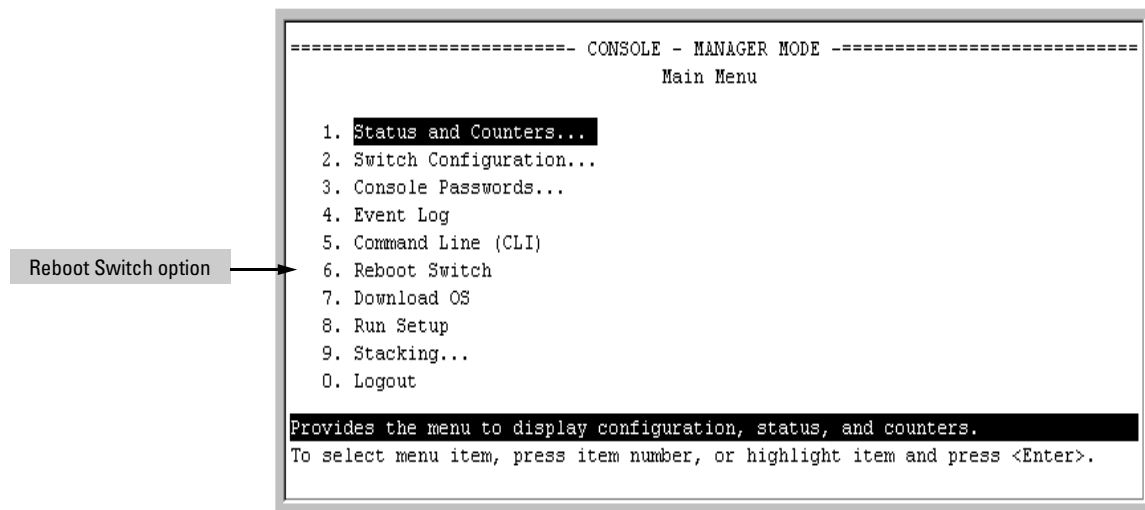


Figure 3-6. The Reboot Switch Option in the Main Menu

Rebooting To Activate Configuration Changes. Configuration changes for most parameters in the menu interface become effective as soon as you save them. However, you must reboot the switch in order to implement a change in the **Maximum VLANs to support parameter**. (To access this parameter, go to the Main Menu and select:

2. Switch Configuration

8. VLAN Menu

1. VLAN Support.)

If you make configuration changes in the menu interface that require a reboot, the switch displays an asterisk (*) next to the menu item in which the change has been made. For example, if you change and save the value for the **Maximum VLANs to support** parameter, an asterisk appears next to the **VLAN Support** entry in the VLAN Menu screen (below), and also next to the **Switch Configuration...** entry in the Main Menu, as shown in figure 3-2 on page 3-6):

The screenshot shows a terminal window titled "CONSOLE - MANAGER MODE" and "Switch Configuration Menu". The menu items are:

- 1. System Information
- 2. Port/Trunk Settings
- 3. Network Monitoring Port
- 4. Spanning Tree Operation
- 5. IP Configuration
- 6. SNMP Community Names
- 7. IP Authorized Managers
- *8. VLAN Menu...
- 0. Return to Main Menu...

Below the menu, a message reads: "Displays the menu to activate and configure, or deactivate VLAN support. To select menu item, press item number, or highlight item and press <Enter>. (*Needs reboot to activate changes.)"

Two callout boxes on the left provide context:

- The top box points to the asterisk on item 8, stating: "Asterisk indicates a configuration change that requires a reboot in order to take effect."
- The bottom box points to the bottom message, stating: "Reminder to reboot the switch to activate configuration changes."

Figure 3-7. Indication of a Configuration Change Requiring a Reboot

To activate changes indicated by the asterisk, go to the Main Menu and select the **Reboot Switch** option.

Note

Executing the **write memory** command in the CLI does not affect pending configuration changes indicated by an asterisk in the menu interface. That is, only a reboot from the menu interface or a **boot** or **reload** command from the CLI will activate a pending configuration change indicated by an asterisk.

Menu Features List

Status and Counters

- General System Information
- Switch Management Address Information
- Port Status
- Port Counters
- Address Table
- Port Address Table
- Spanning Tree Information

Switch Configuration

- System Information
- Port/Trunk Settings
- Network Monitoring Port
- Spanning Tree Operation
- IP Configuration
- SNMP Community Names
- IP authorized Managers
- VLAN Menu

Console Passwords

Event Log

Command Line (CLI)

Reboot Switch

Download OS

Run Setup

Stacking

- Stacking Status (This Switch)
- Stacking Status (All)
- Stack Configuration
- Stack Management (*Available in Stack Commander Only*)
- Stack Access (*Available in Stack Commander Only*)

Logout

Where To Go From Here

This chapter provides an overview of the menu interface and how to use it. The following table indicates where to turn for detailed information on how to use the individual features available through the menu interface.

Option:	Turn to:
To use the Run Setup option	Refer to the <i>Installation and Getting Started Guide</i> shipped with the switch.
To use the ProCurve Stack Manager	See the chapter on stack management in the <i>Advanced Traffic Management Guide</i> .
To view and monitor switch status and counters	Appendix B, "Monitoring and Analyzing Switch Operation"
To learn how to configure and use passwords and other security features	Refer to the <i>Access Security Guide</i> for your switch.
To learn how to use the Event Log	"Using Logging To Identify Problem Sources" on page C-23
To learn how the CLI operates	Chapter 4, "Using the Command Line Interface (CLI)"
To download software (the OS)	Appendix A, "File Transfers"
For a description of how switch memory handles configuration changes	"Switch Memory and Configuration" on page 6-1
For information on other switch features and how to configure them	See the Table of Contents at the front of this manual.

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