Monitoring and Analyzing Switch Operation

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Overview

The switch has several built-in tools for monitoring, analyzing, and troubleshooting switch and network operation:

- **Status:** Includes options for displaying general switch information, management address data, port status, port and trunk group statistics, MAC addresses detected on each port or VLAN, and STP, IGMP, and VLAN data (*page B-4*).
- **Counters:** Display details of traffic volume on individual ports (*page B-10*).
- Event Log: Lists switch operating events ("Using Logging To Identify Problem Sources" on page C-23).
- Alert Log: Lists network occurrences detected by the switch—in the Status | Overview screen of the web browser interface (*page 5-6*).
- **Configurable trap receivers:** Uses SNMP to enable management stations on your network to receive SNMP traps from the switch (*"SNMP Notification and Traps" on page 13-18*).
- **Port monitoring (mirroring):** Copy all traffic from the specified ports to a designated monitoring port (*page B-24*).

Note

Link test and ping test—analysis tools in troubleshooting situations—are described in chapter 18, "Troubleshooting". See page C-35.

Status and Counters Data

This section describes the status and counters screens available through the switch console interface and/or the web browser interface.

Note You can access all console screens from the web browser interface via Telnet to the console. Telnet access to the switch is available in the Device View window under the **Configuration** tab.

Status or Counters Type	Interface	Purpose	Page
Menu Access to Status and Counters	Menu	Access menu interface for status and counter data.	B-5
General System Information	Menu, CLI	Lists switch-level operating information.	B-6
Management Address Information	Menu, CLI	Lists the MAC address, IP address, and IPX network number for each VLAN or, if no VLANs are configured, for the switch.	B-7
Module Information	Menu, CLI	Lists the module type and description for each slot in which a module is installed.	B-8
Port Status	Menu, CLI, Web	Displays the operational status of each port.	B-9
Port and Trunk Statistics and Flow Control Status	Menu, CLI, Web	Summarizes port activity and lists per-port flow control status.	B-10
VLAN Address Table	Menu, CLI	Lists the MAC addresses of nodes the switch has detected on specific VLANs, with the corresponding switch port.	B-13
Port Address Table	Menu, CLI	Lists the MAC addresses that the switch has learned from the selected port.	B-13
STP Information	Menu, CLI	Lists Spanning Tree Protocol data for the switch and for individual ports. If VLANs are configured, reports on a per-VLAN basis.	B-18
IGMP Status	Menu, CLI	Lists IGMP groups, reports, queries, and port on which querier is located.	B-20
VLAN Information	Menu, CLI	For each VLAN configured in the switch, lists 802.10 VLAN ID and up/down status.	B-21
Port Status Overview and Port Counters	Web	Shows port utilization and counters, and the Alert Log.	B-23

Menu Access To Status and Counters

Beginning at the Main Menu, display the Status and Counters menu by selecting:

1. Status and Counters

	Status and Counters Menu
1.	General System Information
2.	Switch Management Address Information
з.	Module Information
4.	Port Status
5.	Port Counters
6.	Vlan Address Table
7.	Port Address Table
8.	Spanning Tree Information
Ο.	Return to Main Menu
spl	ays switch management information including software versions.

Figure B-1. The Status and Counters Menu

Each of the above menu items accesses the read-only screens described on the following pages. Refer to the online help for a description of the entries displayed in these screens.

General System Information

Menu Access

From the console Main Menu, select:

1. Status and Counters

1. General System Information

System Contact System Location	:		
- Firmware revision		Base MAC Addr	• 0001e7-a09900
ROM Version		Serial Number	
Up Time CPU Util (%)		Memory - Total Free	
IP Mgmt – Pkts Rx Pkts Tx		Packet – Total Buffers Free Lowest Missed	: 793 : 769
ctions-> Back	Help		

Figure B-2. Example of General Switch Information

This screen dynamically indicates how individual switch resources are being used. See the online Help for details.

CLI Access

Syntax: show system-information

Switch Management Address Information

Menu Access

From the Main Menu, select:

1 Status and Counters . . .

2. Switch Management Address Information

		DLE - MANAGER MODE - 	
Time Server	Address : Disabled		
VLAN Name	MAC Address	IP Address	
DEFAULT_VLAN	0001e7-a09900	10.28.227.101	
VLAN-22	0001e7-a09901	Disabled	
VLAN-33	0001e7-a09902	Disabled	
ctions->	ack <u>H</u> elp		
	ious screen.		
e arrow keys	to change action s	selection and <enter> to execute action.</enter>	

Figure B-3. Example of Management Address Information with VLANs Configured

This screen displays addresses that are important for management of the switch. If multiple VLANs are *not* configured, this screen displays a single IP address for the entire switch. See the online Help for details.

CLI Access

Syntax: show management

Module Information

Use this feature to determine which slots have modules installed and which type(s) of modules are installed.

Menu: Displaying Port Status

From the Main Menu, select:

1. Status and Counters . . . 3. Module Information

		CONSOLE - MANAGER MODE -====================================
Slot	Module Type	Module Description
 A	 HB	J4863A 10/100/1000Base-TX module
в	HP	J4863A 10/100/1000Base-TX module
С	HP	J4863A 10/100/1000Base-TX module
D	HP	J4863A 10/100/1000Base-TX module
Е	HP	J4864A Transceiver module
F	sl	ot Available
G	sl	ot Available
Н	Sl	ot Available
Actions	-> Back <u>H</u> elp	
leturn t	o previous screen.	
-	-	croll to other entries, left/right arrow keys to d <enter> to execute action.</enter>

Figure B-4. Example of Module Information in the Menu Interface

CLI Access

Syntax: show module

Port Status

The web browser interface and the console interface show the same port status data.

Menu: Displaying Port Status

From the Main Menu, select:

1. Status and Counters . . . 4. Port Status

		Intrusion				Flow
Port	Туре	Alert	Enabled	Status	Mode	Ctrl
A1	10/100TX	 No	Yes	Down	10FDx	off
A2	10/100TX	No	Yes	Down	10FDx	off
АЗ	10/100TX	No	Yes	Down	10FDx	off
A4	10/100TX	No	Yes	Down	10FDx	off
A.5	10/100TX	No	Yes	Down	10FDx	off
A6	10/100TX	No	Yes	Down	10FDx	off
A7	10/100TX	No	Yes	Down	10FDx	off
A8	10/100TX	No	Yes	Down	10FDx	off
A9	10/100TX	No	Yes	Down	10FDx	off
A10	10/100TX	No	Yes	Down	10FDx	off
A11	10/100TX	No	Yes	Down	10FDx	off

Figure B-5. Example of Port Status on the Menu Interface

CLI Access

Syntax: show interfaces brief

Web Access

- 1. Click on the **Status** tab.
- 2. Click on **Port Status**.

Viewing Port and Trunk Group Statistics and Flow Control Status

Feature	Default	Menu	CLI	Web
viewing port and trunk statistics for all ports, and flow control status	n/a	page B-11	page B-12	page B-12
viewing a detailed summary for a particular port or trunk	n/a	page B-11	page B-12	page B-12
resetting counters	n/a	page B-11	page B-12	page B-12

These features enable you to determine the traffic patterns for each port since the last reboot or reset of the switch. You can display:

- A general report of traffic on all LAN ports and trunk groups in the switch, along with the per-port flow control status (On or Off).
- A detailed summary of traffic on a selected port or trunk group.

You can also reset the counters for a specific port.

The menu interface and the web browser interface provide a dynamic display of counters summarizing the traffic on each port. The CLI lets you see a static "snapshot" of port or trunk group statistics at a particular moment.

As mentioned above, rebooting or resetting the switch resets the counters to zero. You can also reset the counters to zero for the current session. This is useful for troubleshooting. See the "Note On Reset", below.

Note on Reset The **Reset** action resets the counter display to zero for the current session, but does not affect the cumulative values in the actual hardware counters. (In compliance with the SNMP standard, the values in the hardware counters are not reset to zero unless you reboot the switch.) Thus, using the **Reset** action resets the displayed counters to zero for the current session only. Exiting from the console session and starting a new session restores the counter displays to the accumulated values in the hardware counters.

Menu Access to Port and Trunk Statistics

To access this screen from the Main Menu, select:

1. Status and Counters . . .

4. Port Counters

Port	Total Bytes	Total Frames	Errors Rx	Drops Tx	Flow Ctrl
A1	195,072	323	0	0	off
A2	651,816	871	0	0	off
A3	290,163	500	0	0	off
A4	260,134	501	0	0	off
A5-Trk1	859,363	5147	0	0	off
A6-Trk1	674,574	1693	0	0	off
C1	26,554	246	0	0	off
C2	113,184	276	0	0	off
с3	0	0	0	0	off
ctions->	Back Sho	w details Re	eset Help		

Figure B-6. Example of Port Counters on the Menu Interface

To view details about the traffic on a particular port, use the \downarrow key to highlight that port number, then select **Show Details**. For example, selecting port A2 displays a screen similar to figure B-7, below.

	======= CONSOLE - MANAGER MODE -====================================	
Link Status	: UP	
Bytes Rx	: 630,746 Bytes Tx : 21,070	
Unicast Rx	: 568 Unicast Tx : 285	
Bcast/Mcast Rx	: 18 Bcast/Mcast Tx : O	
FCS Rx	: O Drops Tx : O	
Alignment Rx	: O Collisions Tx : O	
Runts Rx	: O Late Colln Tx : O	
Giants Rx	: O Excessive Colln : O	
Total Rx Errors	: O Deferred Tx : O	
Actions-> Back	Reset Help	
Return to previou:	screen.	
Use arrow keys to	change action selection and <enter> to execute action.</enter>	

Figure B-7. Example of the Display for Show details on a Selected Port

This screen also includes the **Reset** action for the current session. (See the "Note on Reset" on page B-10.)

CLI Access To Port and Trunk Group Statistics

To Display the Port Counter Summary Report. This command provides an overview of port activity for all ports on the switch.

Syntax: show interfaces

To Display a Detailed Traffic Summary for Specific Ports. This command provides traffic details for the port(s) you specify.

Syntax: show interfaces [ethernet] < port-list >

To Reset the Port Counters for a Specific Port. This command resets the counters for the specified ports to zero for the current session. (See the "Note on Reset" on page B-10.)

Syntax: clear statistics < [ethernet] port-list >

Web Browser Access To View Port and Trunk Group Statistics

- 1. Click on the **Status** tab.
- 2. Click on **Port Counters**.
- 3. To reset the counters for a specific port, click anywhere in the row for that port, then click on **Refresh**.

Viewing the Switch's MAC Address Tables

Feature	Default	Menu	CLI	Web
viewing MAC addresses on all ports on a specific VLAN	n/a	page B-14	page B-16	_
viewing MAC addresses on a specific port	n/a	page B-15	page B-16	—
searching for a MAC address	n/a	page B-15	page B-17	_

These features help you to view:

- The MAC addresses that the switch has learned from network devices attached to the switch
- The port on which each MAC address was learned

Menu Access to the MAC Address Views and Searches

Per-VLAN MAC-Address Viewing and Searching. This feature lets you determine which switch port on a selected VLAN is being used to communicate with a specific device on the network. The per-VLAN listing includes:

- The MAC addresses that the switch has learned from network devices attached to the switch
- The port on which each MAC address was learned
- 1. From the Main Menu, select:

1. Status and Counters 5. VLAN Address Table

2. The switch then prompts you to select a VLAN.



3. Use the Space bar to select the VLAN you want, then press [Enter]. The switch then displays the MAC address table for that VLAN:

	CONSOLE - MANAGER MODE CONSOLE - MANAGER MODE Status and Counters - Address Table
MAC Address	Located on Port
0030c1-7f49c0	A 3
0030c1-7fec40	A1
0030c1-b29ac0	A3
0060b0-17de5b	A3
0060b0-880a80	A2
0060b0-df1a00	A3
0060b0-df2a00	A3
0060b0-e9a200	A3
009027-e74f90	A3
080009-21ae84	A3
080009-62c411	A3
080009-6563e2	Å3
Actions-> Bac	k Search Next page Prev page Help
Return to previo	
-	w keys to scroll to other entries, left/right arrow keys to
change action se	election, and <enter> to execute action.</enter>

Figure B-8. Example of the Address Table

To page through the listing, use **<u>N</u>ext page** and **<u>P</u>rev page**.

Finding the Port Connection for a Specific Device on a VLAN. This feature uses a device's MAC address that you enter to identify the port used by that device.

1. Proceeding from figure B-8, press **[S]** (for **Search**), to display the following prompt:

Enter MAC address: _

2. Type the MAC address you want to locate and press [Enter]. The address and port number are highlighted if found. If the switch does not find the MAC address on the currently selected VLAN, it leaves the MAC address listing empty.

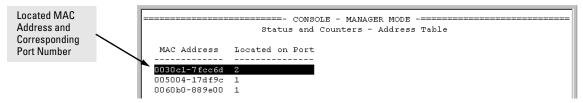


Figure B-9. Example of Menu Indicating Located MAC Address

3. Press [P] (for **Prev page**) to return to the full address table listing.

Port-Level MAC Address Viewing and Searching. This feature displays and searches for MAC addresses on the specified port instead of for all ports on the switch.

- 1. From the Main Menu, select:
 - 1. Status and Counters 7. Port Address Table

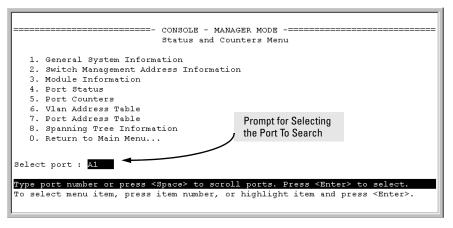


Figure B-10. Listing MAC Addresses for a Specific Port

2. Use the Space bar to select the port you want to list or search for MAC addresses, then press **[Enter]** to list the MAC addresses detected on that port.

Determining Whether a Specific Device Is Connected to the Selected Port. Proceeding from step 2, above:

1. Press [S] (for <u>Search</u>), to display the following prompt:

Enter MAC address:

- 2. Type the MAC address you want to locate and press [Enter]. The address is highlighted if found. If the switch does not find the address, it leaves the MAC address listing empty.
- 3. Press **[P]** (for **<u>P</u>rev page**) to return to the previous per-port listing.

CLI Access for MAC Address Views and Searches

Syntax: show mac-address [vlan < vlan-id >] [ethernet]< port-list >] [< mac-addr >]

To List All Learned MAC Addresses on the Switch, with The Port Number on Which Each MAC Address Was Learned.

ProCurve> show mac-address

To List All Learned MAC Addresses on one or more ports, with Their

Corresponding Port Numbers. For example, to list the learned MAC address on ports A1 through A4 and port A6:

ProCurve> show mac-address al-a4,a6

To List All Learned MAC Addresses on a VLAN, with Their Port Numbers. This command lists the MAC addresses associated with the ports for a given VLAN. For example:

ProCurve> show mac-address vlan 100

Note The switch operates with a multiple forwarding database architecture. For more on this topic, refer to "Duplicate MAC Addresses Across VLANs" on page C-21

To Find the Port On Which the Switch Learned a Specific MAC Address. For example, to find the port on which the switch learns a MAC address of 080009-21ae84:

```
ProCurve#show mac-address 080009-21ae84
Status and Counters - Address Table - 080009-21ae84
MAC Address : 080009-21ae84
Located on Port : A2
```

Figure B-11. List the Port on which the Switch Deleted a MAC Address

Spanning Tree Protocol (STP) Information

Menu Access to STP Data

From the Main Menu, select:

1. Status and Counters . . . 8. Spanning Tree Information

STP must be enabled on the switch to display the following data:

```
----- CONSOLE - MANAGER MODE ------
              Status and Counters - Spanning Tree Information
 STP Enabled
                     : Yes
 Switch Priority
                     : 32,768
 Hello Time
                      : 2
 Max Age
                       : 20
 Forward Delay
                       : 15
 Topology Change Count : 3
 Time Since Last Change : 4 mins
 Root MAC Address : 0030c1-7fcc40
Root Path Cost : 0
Root Port : This switch is
                     : This switch is root
 Root Port
 Root Priority : 32768
Actions-> Back
                    Show ports
                                  Help
Return to previous screen.
Use arrow keys to change action selection and <Enter> to execute action.
```

Figure B-12. Example of Spanning Tree Information

Use this screen to determine current switch-level STP parameter settings and statistics.

You can use the **Show ports** action at the bottom of the screen to display portlevel information and parameter settings for each port in the switch (including port type, cost, priority, operating state, and designated bridge) as shown in figure B-13.

Port	Туре	Cost	Priority	State	Designated Bridge
A1	100/1000T	5	128	Forwarding	0001e7-a09900
A2	100/1000T	5	128	Forwarding	0001e7-a09900
A3	100/1000T	5	128	Disabled	
A4	100/1000T	5	128	Disabled	
A5	100/1000T	5	128	Disabled	
A6	100/1000T	5	128	Disabled	
C1	1000SX	5	128	Forwarding	0001e7-a09900
C2	1000SX	5	128	Forwarding	0001e7-a09900
C3	1000SX	5	128	Forwarding	0001e7-a09900
ction	s-> Back	Help			

Figure B-13. Example of STP Port Information

CLI Access to STP Data

This option lists the STP configuration, root data, and per-port data (cost, priority, state, and designated bridge).

Syntax: show spanning-tree

ProCurve> show spanning-tree

Internet Group Management Protocol (IGMP) Status

The switch uses the CLI to display the following IGMP status on a per-VLAN basis:

Show Command	Output
show ip igmp	 Global command listing IGMP status for all VLANs configured in the switch: VLAN ID (VID) and name Active group addresses per VLAN Number of report and query packets per group Querier access port per VLAN
show ip igmp < <i>vlan-id</i> >	Per-VLAN command listing above IGMP status for specified VLAN (VID)
show ip igmp group < <i>ip-addr></i>	Lists the ports currently participating in the specified group, with port type, Access type, Age Timer data and Leave Timer data.

For example, suppose that **show ip igmp** listed an IGMP group address of 224.0.1.22. You could get additional data on that group by executing the following:

ProCurv	e>show ip	igmp group	224.0.1.22	
IGMP p	orts for g	group 224.0.3	1.22	
Port	Туре	Access	Age Timer	Leave Timer
АЗ	10/100TX	host	0	0

Figure B-14. Example of IGMP Group Data

VLAN Information

The switch uses the CLI to display the following VLAN status:

Syntax: show vlan

Lists:

- Maximum number of VLANs to support
- Existing VLANs
- Status (static or dynamic)
- Primary VLAN

Syntax: show vlan < vlan-id >

For the specified VLAN, lists:

- Name, VID, and status (static/dynamic)
- Per-Port mode (tagged, untagged, forbid, no/ auto)
- "Unknown VLAN" setting (Learn, Block, Disable)
- Port status (up/down)

For example, suppose that your switch has the following VLANs:

Ports	VLAN	VID
1 - 12	DEFAULT_VLAN	1
1, 2	VLAN-33	33
3, 4	VLAN-44	44

The next three figures show how you could list data on the above VLANs.

Listing the VLAN ID (VID) and Status for ALL VLANs in the Switch.

```
ProCurve > show vlan

Status and Counters - VLAN Information

VLAN support : Yes

Maximum VLANs to support : 9

Primary VLAN: DEFAULT_VLAN

802.1Q VLAN ID Name Status

1 DEFAULT_VLAN Static

33 VLAN-33 Static

44 VLAN-44 Static
```

Figure B-15. Example of VLAN Listing for the Entire Switch

Listing the VLAN ID (VID) and Status for Specific Ports.

Because ports A1 and A2 are not members of VLAN	Status and Co	ProCurve > show vlan ports A1-A2 Status and Counters - VLAN Information - for ports A1,A2				
44, it does not appe in this listing.		ID Name 	Status 			
	1	DEFAULT_VLAN	Static			
	33	VLAN-33	Static			

Figure B-16. Example of VLAN Listing for Specific Ports

Listing Individual VLAN Status.

	cs - VLAN		- Ports - VLAN 1
Port Information	Mode	Unknown VLAN	Status
A1	Untagged	Learn	Մբ
A2	Tagged	Learn	Ūp
A3	Untagged	Learn	Մբ
Å4	Untagged	Learn	Down
A5	Untagged	Learn	Down
•	•	•	•
•	•	•	•
•	•	•	•

Figure B-17. Example of Port Listing for an Individual VLAN

Web Browser Interface Status Information

The "home" screen for the web browser interface is the Status Overview screen, as shown below. As the title implies, it provides an overview of the status of the switch, including summary graphs indicating the network utilization on each of the switch ports, symbolic port status indicators, and the Alert Log, which informs you of any problems that may have occurred on the switch.

For more information on this screen, see chapter 5, 'Using the Web Browser Interface'.

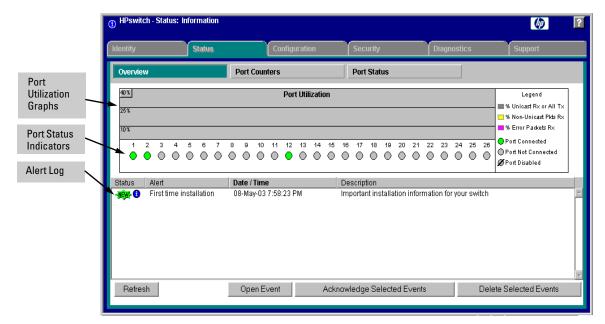


Figure B-18.Example of a Web Browser Interface Status Overview Screen

Port and Static Trunk Monitoring Features

Port Monitoring Features

Feature	Default	Menu	CLI	Web
display monitoring configuration	disabled	page B-25	page B-27	page B-29
configure the monitor port(s)	ports: none	page B-25	page B-27	page B-29
selecting or removing ports	none selected	page B-25	page B-28	page B-29

Switch 6108 and Series 4100gl Switches

You can designate a port for monitoring inbound (ingress) traffic of other ports and of static trunks on the switch. The switch monitors the network activity by copying all traffic inbound on the specified interfaces to the designated monitoring port, to which a network analyzer can be attached.

Series 2600, 2600-PWR, and 2800 Switches

You can designate a port for monitoring inbound (ingress) and outbound (egress) traffic of other ports and of static trunks on the switch. The switch monitors the network activity by copying all inbound and outbound traffic on the specified interfaces to the designated monitoring port, to which a network analyzer can be attached.

All 2600 Series models will support inbound and outbound port monitoring. However, the 2650 and 2650-PWR require that the "mirror port" be within the same grouping as the monitored ports. On the 2650/2650-PWR switches, ports are grouped as follows: 1-24 + 49, and 25-48 + 50. These groupings represent the connections of ports to NetSwitch ASICs within the models.

The instructions below apply to all of the switches covered in this manual.

Note Port trunks cannot be used as a monitoring port.

It is possible, when monitoring multiple interfaces in networks with high traffic levels, to copy more traffic to a monitor port than the link can support. In this case, some packets may not be copied to the monitor port.

Menu: Configuring Port and Static Trunk Monitoring

This procedure describes configuring the switch for monitoring when monitoring is disabled. (If monitoring has already been enabled, the screens will appear differently than shown in this procedure.)

- 1. From the Console Main Menu, Select:
 - 2. Switch Configuration...
 - 3. Network Monitoring Port

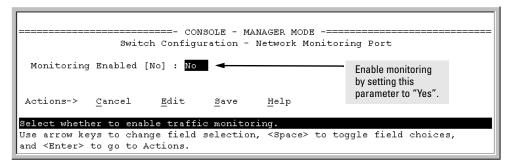


Figure B-19. The Default Network Monitoring Configuration Screen

- 2. In the Actions menu, press [E] (for Edit).
- 3. If monitoring is currently disabled (the default) then enable it by pressing the Space bar (or **[Y]**) to select Yes.
- 4. Press the down arrow key to display a screen similar to the following and move the cursor to the **Monitoring Port** parameter.

Port and Static Trunk Monitoring Features

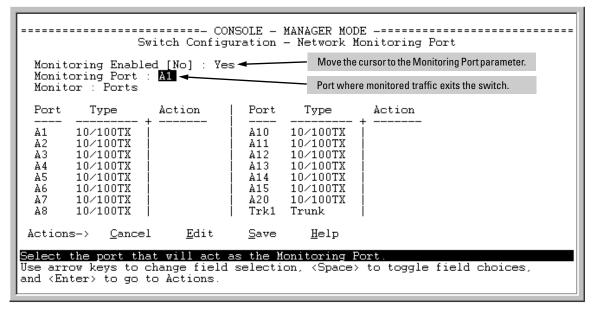


Figure B-20. How To Select a Monitoring Port

- 5. Use the Space bar to select the port to use for monitoring.
- 6. Use the down arrow key to move the cursor to the **Action** column for the individual ports and position the cursor at a port you want to monitor.
- 7. Press the Space bar to select **Monitor** for each port and trunk that you want monitored. (Use the down arrow key to move from one interface to the next in the **Action** column.)
- 8. When you finish selecting ports to monitor, press [Enter], then press [S] (for <u>S</u>ave) to save your changes and exit from the screen.
- 9. Return to the Main Menu.

CLI: Configuring Port and Static Trunk Monitoring

Port and Static Trunk Monitoring Commands Used in This Section

show monitor	below
mirror-port	page B-27
monitor	page B-28

You must use the following configuration sequence to configure port and static trunk monitoring in the CLI:

- 1. Assign a monitoring (mirror) port.
- 2. Designate the port(s) and static trunk(s) to monitor.

Displaying the Monitoring Configuration. This command lists the port assigned to receive monitored traffic and the ports and/or trunks being monitored.

Syntax: show monitor

For example, if you assign port A6 as the monitoring port and configure the switch to monitor ports A1 - A3, **show monitor** displays the following:

ProCurve(config)# show monitor		
Network Monitoring Port		
Mirror Port: A6 🗲	Port receiving monitored traffic.	
Monitoring sources		
A1 A2	Monitored Ports	
A3		

Figure B-21. Example of Monitored Port Listing

Configuring the Monitor Port. This command assigns or removes a monitoring port, and must be executed from the global configuration level. Removing the monitor port disables port monitoring and resets the monitoring parameters to their factory-default settings.

Syntax: [no] mirror-port [< *port-num* >]

For example, to assign port A6 as the monitoring port:

ProCurve(config)# mirror-port a6

To turn off monitoring:

ProCurve(config)# no mirror-port

Selecting or Removing Ports and Static Trunks As Monitoring

Sources. After you configure a monitor port you can use either the global configuration level or the interface context level to select ports and static trunks as monitoring sources. You can also use either level to remove monitoring sources.

Syntax: [no] interface ethernet < *monitor-list* > monitor

where: < *monitor-list* > includes port numbers and static trunk names such as a4, c7, b5-b8, and trk1.

Elements in the monitor list can include port numbers and static trunk names at the same time.

For example, with a port such as port A6 configured as the monitoring (mirror) port, you would use either of the following commands to select these ports and static trunks for monitoring:

- A1 through A3, and A5
- Trunks 1 and 2

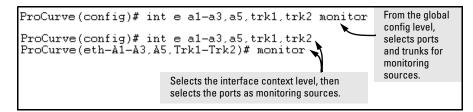


Figure B-22. Examples of Selecting Ports and Static Trunks as Monitoring Sources

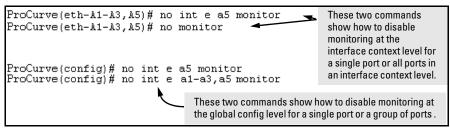


Figure B-23. Examples of Removing Ports as Monitoring Sources

Web: Configuring Port Monitoring

To enable port monitoring:

- 1. Click on the **Configuration** tab.
- 2. Click on Monitor Port.
- 3. To monitor one or more ports.
 - a. Click on the radio button for **Monitor Selected Ports**.
 - b. Select the port(s) to monitor.
- 4. Click on Apply Changes.

To remove port monitoring:

- 1. Click on the **Monitoring Off** radio button.
- 2. Click on **Apply Changes**.

For web-based Help on how to use the web browser interface screen, click on the [?] button provided on the web browser screen.

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