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5

Overview

The web browser interface built into the switch lets you easily access the switch from a browser-based PC on your network. This lets you do the following:

- Optimize your network uptime by using the Alert Log and other diagnostic tools
- Make configuration changes to the switch
- Maintain security by configuring usernames and passwords

This chapter covers the following:

- General features (page 5-3).
- Starting a web browser interface session (page 5-4)
- Tasks for your first web browser interface session (page 5-7):
 - Creating usernames and passwords in the web browser interface (page 5-8)
 - Selecting the fault detection configuration for the Alert Log operation (page 5-24)
 - Getting access to online help for the web browser interface (page 5-11)
- Description of the web browser interface:
 - Overview window and tabs (page 5-16)
 - Port Utilization and Status displays (page 5-17)
 - Alert Log and Alert types (page 5-20)
 - Setting the Fault Detection Policy (page 5-24)
- **Note** You can disable access to the web browser interface by either executing **no web-management** at the Command Prompt or changing the **Web Agent Enabled** parameter setting to **No** (page 7-4).

General Features

The Web Browser Interface includes these features:

Switch Identity and Status:

- General system data
- Software version
- IP address
- Status Overview
- Port utilization
- Port counters
- Port status
- Alert log

Switch Configuration:

- Device view
- Port configuration
- VLAN configuration
- Fault detection
- Quality of service (QoS)
- Port monitoring (mirroring)
- System information
- IP configuration
- Support and management server URLs
- Device features (Spanning Tree On/Off, VLAN selection, and IGMP)
- Stacking (3400cl, 6400cl and 4200vl switches)

Switch Security:

- User names and passwords
- Authorized Addresses
- Intrusion Log
- SSL
- RADIUS authentication (Refer to the *Access Security Guide*.)

Switch Diagnostics:

- Ping/Link Test
- Device reset
- Configuration report

Starting an Web Browser Interface Session with the Switch

You can start a web browser session in the following ways:

- Using a standalone web browser on a network connection from a PC or UNIX workstation:
 - Directly connected to your network
 - Connected through remote access to your network
- Using a network management station running ProCurve Manager on your network

Using a Standalone Web Browser in a PC or UNIX Workstation

This procedure assumes that you are using a compatible web browser and that the switch is configured with an IP address accessible from your PC or workstation. (For more on assigning an IP address, refer to "IP Configuration" on page 8-2.)

- 1. Ensure that the JavaTM applets are enabled for your browser. For more information on this topic, refer to your browser's online Help.
- 2. Use the web browser to access the switch. If your network includes a Domain Name Server (DNS), your switch's IP address may have a name associated with it (for example, **switch5308**) that you can type in the **Location or Address** field instead of the IP address. Using DNS names typically improves browser performance. Contact your network administrator to enquire about DNS names associated with your ProCurve switch.

Type the IP address (or DNS name) of the switch in the browser **Location** or **Address** (URL) field and press [Enter]. (It is not necessary to include http://.)

| switch5308 | [Enter] | (example of a DNS-type name) |
|--------------|---------|------------------------------|
| 10.11.12.195 | [Enter] | (example of an IP address) |

Using ProCurve Manager (PCM) or ProCurve Manager Plus (PCM+)

ProCurve Manager and ProCurve Manager Plus are designed for installation on a network management workstation. For this reason, the system requirements are different from the system requirements for accessing the switch's web browser interface from a non-management PC or workstation. For PCM and PCM+ requirements, refer to the information provided with the software.

This procedure assumes that:

- You have installed the recommended web browser on a PC or workstation that serves as your network management station.
- The networked device you want to access has been assigned an IP address and (optionally) a DNS name, and has been discovered by PCM or PCM+. (For more on assigning an IP address, refer to "IP Configuration" on page 8-2.)

To establish a web browser session with PCM or PCM+ running, do the following on the network management station:

- 1. Make sure the JavaTM applets are enabled for your web browser. If they are not, refer to the web browser online Help for specific information on enabling the Java applets.
- 2. In the **Interconnected Devices** listing under **Network Manager Home** (in the PCM/PCM+ sidebar), right-click on the model number of the device you want to access.
- 3. The web browser interface automatically starts with the Status Overview window displayed for the selected device, as shown in figure 5-1.

If the Registration window appears, click on the **Status** tab.

Note

Using the Web Browser Interface Starting an Web Browser Interface Session with the Switch

| | HP J48 | 19A | ProCu | rve Sw | itch 53 | 08XL | | | | | | | | | | | | |
|---|-----------------------|-----|----------|---------|---------|----------------|-----------------|----------|----------------|----------|----------|----------|---------|----------|-------------|------------------|-------------------------------------|---|
| | Identity | | | Stat | us: | | 10 | Configu | ration | | Secu | ırity | | D | iagnostics | s | Support | |
| | Overvi | ew | | | | Port | Count | ers | | | Port | Status | ; | | | | | |
| | ¥ 40% | | | | | | F | Port Uti | lizatio | ı | | | | | | % Un | Legend icast R× or All T× |] |
| | 25% | _ | | | | | | | | | | | | | | - % No - % En | n-Unicast Pkts R× ror Packets R× | |
| | 10% | | | | | | | | | | | | | _ | | O Port I | Connected Not Connected | |
| | | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 O | A9 () | A10 Ø | A11 Ø | A12 | A13 | A14 | ØPort | Disabled | |
| | Status | A | lert | | | | Date / | Time | | | |)escrip | tion | | | | | |
| | - 3696 - 🕄 | F | irst Tir | ne Inst | all | | 16-Ju | n-044: | 01:53 F | РМ | lı | mporta | nt inst | allation | n informati | ion for you | ur switch | - |
| ┢ | | | h | | F | irst- nstal | Time I Alert | : | | | | | | | | | | - |
| | Refr | esh | | Open | Event | | | Ackr | nowled | ge Se | lected | Event: | 5 | | Dele | te Selec | ted Events | |

Figure 5-1. Example of Status Overview Screen

Tasks for Your First Web Browser Interface Session

The first time you access the web browser interface, there are three tasks you should perform:

- Review the "First Time Install" window
- Set Manager and Operator passwords
- Set access to the web browser interface online help

Viewing the "First Time Install" Window

When you access the switch's web browser interface for the first time, the Alert log contains a "First Time Install" alert, as shown in figure 5-2. This gives you information about first time installations, and provides an immediate opportunity to set passwords for security and to specify a Fault Detection policy, which determines the types of messages that will be displayed in the Alert Log.

Double click on **First Time Install** in the Alert log (figure 5-1 on page 5-6). The web browser interface then displays the "First Time Install" window, below.

| First-Time Install | | | | | | |
|---|--|--|--|--|--|--|
| Description: The following information presents possible first time settings which can be configured. | | | | | | |
| Steps to take during first time installation: It is recommended that you secure access to the device to prevent unauthorized users from manipulating device configuration. You are also encouraged to select the fault detection configuration which best suits your network environment. | | | | | | |
| Cancel Acknowledge Event Delete Event | | | | | | |

Figure 5-2. First-Time Install Window

This window is the launching point for the basic configuration you need to perform to set web browser interface passwords for maintaining security and a fault detection policy, which determines the types of messages that the Alert Log displays.

To set web browser interface passwords, click on **secure access to the device** to display the Device Passwords screen, and then go to the next page. (You can also access the password screen by clicking on the **Security** tab.)

To set Fault Detection policy, click on **select the fault detection configuration** in the second bullet in the window and go to the section, "Setting Fault Detection Policy" on page 5-24. (You can also access the password screen by clicking on the **Configuration** tab, and then the **[Fault Detection]** key.)

Security: Creating Usernames and Passwords in the Browser Interface

Note On 5300xl switches running software release E.09.xx, you can also configure RADIUS authentication for web browser interface access. For more information, refer to the chapter titled "RADIUS Authentication and Accounting" in the Access Security Guide for your switch.

You may want to create both a username and a password to create access security for your switch. There are two levels of access to the interface that can be controlled by setting user names and passwords:

- **Operator Setting.** An Operator-level user name and password allows read-only access to most of the web browser interface, but prevents access to the Security window.
- **Manager Setting.** A Manager-level user name and password allows full read/write access to the web browser interface.

Using the Web Browser Interface

| Tasks for Your First Web Browser Interface Session |
|--|
|--|

| Switch-1 - Status: Information HP J4850A ProCurve Switch | tion h 5304XL | | | | (p) |
|--|---|---|----------|--------------|---------------|
| Identity State | us Conf | iguration | Security | Diagnostics | Support |
| Device Passwords | Authorized Addresses | Port Security | Intrus | ion Log | SSL |
| | Read-Only Operator Operator Confirm (Read-Write Manager | Access User Name: Password: Operator Passwor Access User Name: | d: | | |
| | Manager Confirm I | Password: Aanager Passwor | d: | | |
| | | | A | pply Changes | Clear Changes |

Figure 5-3. The Device Passwords Window

To set the passwords:

- 1. Access the Device Passwords screen by one of the following methods:
 - If the Alert Log includes a "First Time Install" event entry, double click on this event, then, in the resulting display, click on the **secure access to the device** link.
 - Select the **Security** tab.
- 2. Click in the appropriate box in the **Device Passwords** window and enter user names and passwords. You will be required to repeat the password strings in the confirmation boxes.

Both the user names and passwords can be up to 16 printable ASCII characters.

3. Click on [Apply Changes] to activate the user names and passwords.

NotePasswords you assign in the web browser interface will overwrite previous
passwords assigned in either the web browser interface, the CLI, or the menu
interface. That is, the most recently assigned passwords are the switch's
passwords, regardless of which interface was used to assign the string.

Entering a User Name and Password

| Connect to 15.30.14 | 8.184 ? × |
|---------------------|----------------------|
| | G |
| HP J4850A | |
| <u>U</u> ser name: | |
| Password: | |
| | Remember my password |
| | OK Cancel |

Figure 5-4. Example of the Password Prompt in the Web Browser Interface

The manager and operator passwords are used to control access to all switch interfaces. Once set, you will be prompted to supply the password every time you try to access the switch through any of its interfaces. The password you enter determines the capability you have during that session:

- Entering the manager password gives you full read/write/troubleshooting capabilities
- Entering the operator password gives you read and limited troubleshooting capabilities.

Using a User Name

If you also set user names in the web browser interface screen, you must supply the correct user name for web browser interface access. If a user name has not been set, then leave the User Name field in the password window blank.

Note that the Command Prompt and switch console interfaces use only the password, and do not prompt you for the User Name.

If You Lose the Password

If you lose the passwords, you can clear them by pressing the Clear button on the front of the switch. *This action deletes all password and user name protection from all of the switch's interfaces*.

The Clear button is provided for your convenience, but its presence means that if you are concerned with the security of the switch configuration and operation, you should make sure the switch is installed in a secure location, such as a locked wiring closet. (For more information, refer to "Front Panel Security" in the chapter titled "Configuring Username and Password Security" in the Access Security Guide for your switch.)

Online Help for the Web Browser Interface

Online Help is available for the web browser interface. You can use it by clicking on the question mark button in the upper right corner of any of the web browser interface screens.

| | | | | | The H | lelp Button | À |
|------------------------------------|-----------------------------------|-------------------|------------------|-------------|-------------|---|---|
| HPswitch - State HP J4819A ProC | us: Informatio Curve Switch 53 | n 308XL | | | | <i>(p</i>) | ? |
| Identity | Status | ľ | Configuration | Security | Diagnostics | Support | |
| Overview | | Port Coun | ters | Port Status | | | |
| 40 % | | | Port Utilization | | | Legend | |
| 25% | | | | | | ₩ Unicast R× or All T× % Non-Unicast Pkts R× | |

Figure 5-5. The Help Button

Context-sensitive help is provided for the screen you are on.

Note To access the online Help for the 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.

For more on Help access and operation, refer to "Help and the Management Server URL" on page 5-13.

Support/Mgmt URLs Feature

The Support/Mgmt URLs window enables you to change the World Wide Web Universal Resource Locator (URL) for two functions:

- **Support URL** A support information site for your switch
- Management Server URL The web site for web browser online Help

| HP J4819A Pro | Status | Configuration | Security | Diagnostic | s Support | |
|--|-------------------------|---|-----------------------------|------------|------------------------------|--|
| Device View Port Configura VLAN Configur | tion Mo ation Su | IIt Detection nitor Port pport/Mgmt URL | System Info Device Features | | IP Configuration Stacking | |
| | Managemer Server URL | nt http://www.hp.co | m/md/device_help | | | |
| | | | Apply | / Changes | Clear Changes | |

Figure 5-6. The Default Support/Mgmt URLs Window

Support URL

This is the site the switch accesses when you click on the **Support** tab on the web browser interface. The default URL is:

www.procurve.com

which is the World Wide Web site for ProCurve networking products. Click on **technical support** on that page to get support information regarding your switch, including white papers, software updates, and more.

As an alternative, you can replace the ProCurve URL with the URL for a local site used for logging reports on network performance or other support activities.

Help and the Management Server URL

The **Management Server URL** field specifies the URL the switch uses to find online Help for the web browser interface.

- If you install PCM (ProCurve Manager) in your network, the PCM management station acts as the web browser Help server for the switch and automatically inserts the necessary URL in this field.)
- In the default configuration (and if PCM is not running on your network) this field is set to the URL for accessing online Help from the ProCurve Networking web site:

www.hp.com/rnd/device_help

Using this option, the Help files are automatically available if your workstation can access the World Wide Web. In this case, if Online Help fails to operate, ensure that the above URL appears in the **Management Server URL** field shown in figure 5-7: Support/Mgmt URLs Feature

| uenacy | Status | Configuration | Security | Diagnostics | Support | |
|--------------------|-----------------|------------------|------------------|-------------|-----------|--|
| Device View | | Fault Detection | System Info | IP Conf | iguration | |
| Port Configuration | | Monitor Port | Device Features | Stacki | Stacking | |
| VLAN Configu | Iration | Support/Mgmt URL | | | | |
| | Manag Server | URL: | n/md/device_help | | | |
| | | | | | | |

Figure 5-7. How To Access Web Browser Interface Online Help

Using the PCM Server for Switch Web Help

For ProCurve devices that support the "Web Help" feature, you can use the PCM server to host the switch help files for devices that do not have HTTP access to the ProCurve Support Web site.

1. Go to the ProCurve Support web site to get the Device Help files:

www.hp.com//rnd/device_help/

2. Copy the Web help files to the PCM server, under:

C:\\program files\hewlett-packard\pnm\server\webroot\ rnd\sevice_help\help\hpwnd\webhelp

3. Add an entry, or edit the existing entry in the Discovery portion of the global properties (globalprops.prp) in PCM to redirect the switches to the help files on the PCM server. For example:

```
Global {
TempDir=data/temp
...
Discovery{
...
...
<u>DeviceHelpUrlRedirect=http://15.29.37.12.8040/rnd/device_help</u>
...
}
```

}

You will enter the IP address for your PCM server. 8040 is the standard port number to use.

4. Restart the Discovery process for the change to be applied.

Note Changing the Discovery's Global properties file will redirect the Device Help URL for all devices.

If you just want to change the Device Help URL for a particular device, then go to the Configuration tab on the Web UI for that device and select the "Support/Mgmt URL" button. Edit the entry in the "Management Server URL" field for the device to point to the PCM server; for example:

http://15.29.37.12.8040/rnd/device_help

Status Reporting Features

Browser elements covered in this section include:

- The Overview window (below)
- Port utilization and status (page 5-17)
- The Alert log (page 5-20)
- The Status bar (page 5-22)

The Overview Window

The Overview Window is the home screen for any entry into the web browser interface. The following figure identifies the various parts of the screen.



Figure 5-8. The Status Overview Window

Policy Management and Configuration. PCM can perform network-wide policy management and configuration of your switch. The Management Server URL field (page 5-13) shows the URL for the management station performing that function. For more information, refer to the documentation provided with the PCM software.

The Port Utilization and Status Displays

The Port Utilization and Status displays show an overview of the status of the switch and the amount of network activity on each port. The following figure shows a sample reading of the Port Utilization and Port Status.



Figure 5-9. The Graphs Area

Port Utilization

The Port Utilization bar graphs show the network traffic on the port with a breakdown of the packet types that have been detected (unicast packets, nonunicast packets, and error packets). The Legend identifies traffic types and their associated colors on the bar graph:

- % Unicast Rx & All Tx: This is all unicast traffic received and all transmitted traffic of any type. This indicator (a blue color on many systems) can signify either transmitted or received traffic.
- % Non-Unicast Pkts Rx: All multicast and broadcast traffic received by the port. This indicator (a gold color on many systems) enables you to know "at-a-glance" the source of any non-unicast traffic that is causing high utilization of the switch. For example, if one port is receiving heavy broadcast or multicast traffic, all ports will become highly utilized. By color-coding the received broadcast and multicast utilization, the bar graph quickly and easily identifies the offending port. This makes it faster and easier to discover the exact source of the heavy traffic because you don't have to examine port counter data from several ports.

- Serror Pkts Rx: All error packets received by the port. (This indicator is a reddish color on many systems.) Although errors received on a port are not propagated to the rest of the network, a consistently high number of errors on a specific port may indicate a problem on the device or network segment connected to the indicated port.
- Maximum Activity Indicator: As the bars in the graph area change height to reflect the level of network activity on the corresponding port, they leave an outline to identify the maximum activity level that has been observed on the port.

Utilization Guideline. A network utilization of 40% is considered the maximum that a typical Ethernet-type network can experience before encountering performance difficulties. If you observe utilization that is consistently higher than 40% on any port, click on the Port Counters button to get a detailed set of counters for the port.

To change the amount of bandwidth the Port Utilization bar graph shows. Click on the bandwidth display control button in the upper left corner of the graph. (The button shows the current scale setting, such as 40%.) In the resulting menu, select the bandwidth scale you want the graph to show (3%, 10%, 25%, 40%, 75%, or 100%), as shown in figure figure 5-10.

Note that when viewing activity on a gigabit port, you may want to select a lower value (such as 3% or 10%). This is because the bandwidth utilization of current network applications on gigabit links is typically minimal, and may not appear on the graph if the scale is set to show high bandwidth utilization.



Figure 5-10. Changing the Graph Area Scale

To display values for each graph bar. Hold the mouse cursor over any of the bars in the graph, and a pop-up display is activated showing the port identification and numerical values for each of the sections of the bar, as shown in figure 5-11 (next).



Figure 5-11. Display of Numerical Values for the Bar

Port Status



Figure 5-12. The Port Status Indicators and Legend

The Port Status indicators show a symbol for each port that indicates the general status of the port. There are four possible statuses:

- **Port Connected** the port is enabled and is properly connected to an active network device.
- Port Not Connected the port is enabled but is not connected to an active network device. A cable may not be connected to the port, or the device at the other end may be powered off or inoperable, or the cable or connected device could be faulty.
- Port Disabled the port has been configured as disabled through the web browser interface, the switch console, or SNMP network management.
- Port Fault-Disabled a fault condition has occurred on the port that has caused it to be auto-disabled. Note that the Port Fault-Disabled symbol will be displayed in the legend only if one or more of the ports is in that status. See appendix B, "Monitoring and Analyzing Switch Operation" for more information.

The Alert Log

The web browser interface Alert Log, shown in the lower half of the screen, shows a list of network occurrences, or *alerts*, that were detected by the switch. Typical alerts are **Broadcast Storm**, indicating an excessive number of broadcasts received on a port, and **Problem Cable**, indicating a faulty cable. A full list of alerts is shown in the table on page 5-21.

| Status | Alert | Date / Time | Description | |
|----------------|-------------------------|----------------------|--|----------|
| -1600-0 | Loss of link | 30-Mar-04 5:58:33 PM | Lost connection to multiple devices on port: A1. | <u>^</u> |
| - <u>ww</u> -🔷 | Loss of link | 30-Mar-04 5:56:56 PM | Lost connection to multiple devices on port: A17. | |
| -NEW- | First time installation | 30-Mar-04 4:51:29 PM | Important installation information for your switch | |
| | | | | ¥ |
| Refres | h | Open Event | Acknowledge Selected Events Delete Selected Events | |
| | | | | |

Figure 5-13. Example of the Alert Log

Each alert has the following fields of information:

- Status The level of severity of the event generated. Severity levels can be Information, Normal, Warning, and Critical. If the alert is new (has not yet been acknowledged), the New symbol is also in the Status column.
- **Alert** The specific event identification.
- Date/Time The date and time the event was received by the web browser interface. This value is shown in the format: DD-MM-YY HH:MM:SS AM/PM, for example, 16-Sep-99 7:58:44 AM.
- **Description** A short narrative statement that describes the event. For example, **Excessive CRC/Alignment errors on port: 8**.

Sorting the Alert Log Entries

The alerts are sorted, by default, by the Date/Time field with the most recent alert listed at the top of the list. The second most recent alert is displayed below the top alert and so on. If alerts occurred at the same time, the simultaneous alerts are sorted by order in which they appear in the MIB.

Bold characters in a column heading indicate that the alert field alert log entries. You can sort by any of the other columns by clicking on the column heading. The **Alert** and **Description** columns are sorted alphabetically, while the **Status** column is sorted by severity type, with more critical severity indicators appearing above less critical indicators.

Alert Types and Detailed Views

As of April, 2004, the web browser interface generates the following alert types:

- Auto Partition
- Backup Transition
- Excessive broadcasts
- Excessive CRC/alignment errors Network Loop
- Excessive jabbering
- Excessive late collisions
- First Time Install
- Full-Duplex Mismatch
- Half-Duplex Mismatch

- High collision or drop rate
- Loss of Link
- Mis-Configured SQE
- Polarity Reversal
- Security Violation
- Stuck 10BaseT Port
- Too many undersized (runt)/giant packets
- Transceiver Hot Swap

Note When troubleshooting the sources of alerts, it may be helpful to check the switch's Port Status and Port Counter windows, or use the CLI or menu interface to view the switch's Event Log.

> When you double click on an Alert Entry, the web browser interface displays a separate window showing information about the event. This view includes a description of the problem and a possible solution. It also provides three management buttons:

- Acknowledge Event removes the New symbol from the log entry
- **Delete Event** – removes the alert from the Alert Log
- **Cancel** – closes the detail view with no change to the status of the alert and returns you to the Overview screen.

For example, figure 5-14 shows a sample detail view describing an Excessive CRC/Alignment Error alert.



Figure 5-14.Example of Alert Log Detail View

The Status Bar

The Status Bar appears in the upper left corner of the web browser interface window. Figure 5-15 shows an expanded view of the status bar.



Figure 5-15. Example of the Status Bar

The Status bar includes four objects:

• Status Indicator. Indicates, by icon, the severity of the most critical alert in the current display of the Alert Log. This indicator can be one of four shapes and colors, as shown below.

Table 5-1. Status Indicator Key

| Color | Switch Status | Status Indicator Shape |
|--------|--|------------------------|
| Blue | Normal Activity; "First time installation" information available in the Alert log. | ٢ |
| Green | Normal Activity | 0 |
| Yellow | Warning | |
| Red | Critical | A |

- System Name. The name you can configure for the switch by using the System Info window (under the Configuration tab), the hostname < asciistring > command in the CLI, or the System Name field in the "System Information" screen in the System Info screen of the menu interface.
- Most Critical Alert Description. A brief description of the earliest, unacknowledged alert with the current highest severity in the Alert Log, appearing in the right portion of the Status Bar. In instances where multiple critical alerts have the same severity level, only the earliest unacknowledged alert is deployed in the Status bar.
- **Product Name.** The product name of the switch to which you are connected in the current web browser interface session.

Setting Fault Detection Policy

One of the powerful features in the web browser interface is the Fault Detection facility. For your switch, this feature controls the types of alerts reported to the Alert Log based on their level of severity.

Set this policy in the Fault Detection window (figure 5-16).

| HPswitch - Status: Information HP J4819A ProCurve Switch 5308XL | | | | |
|---|---|--------------------------------|------------------------|---------|
| Identity Status | Configuration | Security | Diagnostics | Support |
| Device View Port Configuration VLAN Configuration | Fault Detection Monitor Port Support/Mgmt URL | System Info Device Features | IP Configu Stacking | ration |
| This switch features automatic fault detection capability which can protect your network from being brought down by problems such as network loops, defective cables, transceivers and faulty network interface cards. Configure the fault detection sensitivity which best suits your network environment. When done, click the Apply Changes button to save your settings to the device. | | | | |
| Log Network Problems Medium Sensitivity Automatically detect network problems and report them, with their causes, in the alert log (located under the <u>Status tab</u>). | | | | |
| <i>High sensitivity</i> setting causes the switch to act on <i>any</i> network problem. <i>Low sensitivity</i> setting causes the switch to act only when <i>severe</i> problems occur. | | | | |
| Reset to Default Settings Apply Changes Clear Changes | | | | |

Figure 5-16. The Fault Detection Window

The Fault Detection screen contains a list box for setting fault detection and response policy, and enables you to set the sensitivity level at which a network problem should generate an alert and send it to the Alert Log.

To provide the most information on network problems in the Alert Log, the recommended sensitivity level for **Log Network Problems** is **High Sensitivity**. The Fault Detection settings are:

- High Sensitivity. This policy directs the switch to send all alerts to the Alert Log. This setting is most effective on networks that have none or few problems.
- Medium Sensitivity. This policy directs the switch to send alerts related to network problems to the Alert Log. If you want to be notified of problems which cause a noticeable slowdown on the network, use this setting.
- Low Sensitivity. This policy directs the switch to send only the most severe alerts to the Alert Log. This policy is most effective on a network where there are normally a lot of problems and you want to be informed of only the most severe ones.
- **Never.** Disables the Alert Log and transmission of alerts (traps) to the management server (in cases where a network management tool such as ProCurve Manager is in use). Use this option when you don't want to use the Alert Log.

The Fault Detection Window also contains three Change Control Buttons:

- **Apply Changes.** This button stores the settings you have selected for all future sessions with the web browser interface until you decide to change them.
- **Clear Changes.** This button removes your settings and returns the settings for the list box to the level it was at in the last saved detection-setting session.
- Reset to Default Settings. This button reverts the policy setting to Medium Sensitivity for Log Network Problems.

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