CHAPTER 9

Monitoring the Network with SNMP

This chapter explains monitoring the Catalyst 3000 from a Network Management System (NMS) using the CiscoView or any application that supports Simple Network Management Protocol (SNMP).

The following topics are covered in this chapter:

- SNMP Set-up
- IP Configuration
- SNMP Configuration

SNMP Set-up

Follow these steps to use in-band management:

- Step 1 Attach the Catalyst 3000 to the console and start a console session as described in Chapter 6, "Connecting a Network Management Console."
- **Step 2** Complete the IP Configuration menu.
- **Step 3** Complete the SNMP Configuration menu and following sub-menus:

Community String menu.

Trap Receiver menu.

The following sections describe the SNMP set-up menus.

IP Configuration

The IP Configuration menu sets the IP address, gateway address, subnet mask, and IP state.

The *IP Address and Default Gateway* must be in the same subnet address class—that is, Class A, Class B, or Class C. The system prevents you from entering values from different classes. If you do inadvertently enter an incorrect value, enter 0.0.0.0 in every field, then re-enter the correct values.

Refer to Chapter 7, "Console Configuration," for a complete description on how to configure the IP Configuration menu.

SNMP Configuration

Use the SNMP Configuration Menu to configure specific attributes related to SNMP.

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SNMP Configuration Screen



Send Authentication Traps

Indicates whether SNMP should issue an authentication trap to Trap Receivers whenever an unauthorized request is detected.

Default: Yes

SNMP Configuration

Community String Menu

Changes the community string table. The community string is the name associated with the Catalyst 3000 and a set of SNMP Managers. Entries in the table are saved across resets and power cycles.

Trap Receiver Menu

Displays table of managers to which traps are sent. Entries in the table are saved across resets and power cycles.

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Community String Menu

Use the Community String menu to configure the community string for the Catalyst 3000. The community string is the name associated with the Catalyst 3000 and a set of SNMP managers allowed to manage it with the specified privilege level.



SNMP Configuration

	Note Text within the community string is Upper/Lower case sensitive.			
	Entries are displayed in the order in which they are encountered. There is a limit of community strings.			
	Community String Table entries are saved when you select Return to Previous Menu. Entries are preserved across resets and power cycles.			
Index				
	Sequential number of entries in the table.			
Community Na	ame The specified privilege level of the assigned community.			
Mode	Specific access privileges of the community.			
Add Entry	Adds community string.			
Delete Entry	Deletes community string.			
Change Entry	Modifies community string and/or access mode.			

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Clear Table

Deletes all community strings.

Trap Receiver Menu

Trap Receiver Tables tell the Catalyst 3000 where to send traps. The table contains the IP address associated with an SNMP manager.

			Trap Rece	ivers			
		IP Address	Community I	Name	VL	AN	
	1	192.9.200.1	public		def	ault	
	2 192.9.200.2 private			•			
Return	More	Add Entry	Delete Entry	Change	Entry	Clear Table	Zoom
Return to previous menu							
Use cursor keys to select action. Press <return> to confirm choice.</return>							

The Trap Receiver Table contains a maximum of 20 entries. It is displayed again each time the table changes.

Trap Receiver Table entries are saved when you select Return to Previous Menu. Entries are preserved across resets and power cycles.

SNMP Configuration

IP Address	The IP address associated with an SNMP manager.
Community St	ring The specified privilege level.
VLAN	Specifies a list of VLANs in which the trap is sent out.
More	To view next page of table.
Add Entry	Adds a new entry to the trap receiver table.
Delete Entry	Deletes an entry from the trap receiver table.
Change Entry	Modifies an entry in the trap receiver table.
Clear Table	Deletes all table entries.
Zoom	To display a Trap receiver entry in detail.

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