CHAPTER 3

Using the CMP

This chapter explains how to use the Connectivity Management Processor (CMP) to monitor the supervisor engine remote processor (RP) on the active supervisor engine and to reboot the RP or Cisco IOS switch. It also explains how you can reboot the CMP from the RP or the CMP.

This chapter includes the following sections:

Note The USB host port is not supported. The CLI might display **usbflash0:**, but use of it is not supported.

Attaching to and Detaching From the RP

To attach to or detach from the supervisor engine RP, use the following optional commands from SSH or Telnet sessions:

Command	Purpose
`switch-cmp# attach`	Takes control of the local supervisor engine RP console port.
`switch# Ctrl X` `switch-cmp#`	Exits from the RP console and returns to CMP.

Copying Files from the CMP to External Hosts

To transfer files from syslog: on the CMP to external servers, perform this task:

Command	Purpose
`switch-cmp# copy syslog [scp: | sftp: | tftp:]`	Transfers files from syslog: on the CMP to external servers.

Copying Files from the CMP to RP Disk0: or Bootdisk:

To copy files from a TFTP server on teh CMP to a compact flash disk in disk0: or bootdisk: on the RP, perform this task:

Command	Purpose
`switch-cmp# copy tftp: [rp-bootdisk: | rp-bootdisk:]`	Transfers files from a TFTP server on the CMP to a compact flash disk in disk0: or bootdisk: on the RP.

Rebooting the RP

To reboot the supervisor engine RP from the CMP, perform this task:

	Command	Purpose
Step 1	`switch-cmp# reload route-processor {hard | soft}`	Reboots the supervisor engine.
Step 2	`switch-cmp# show system reset-reason`	Displays all recorded reboot causes for CMP and RP.

Rebooting the CMP from the RP

To reboot the CMP from Cisco IOS on the supervisor engine RP, perform this task:

	Command	Purpose
Step 1	`switch# hw-module cmp slot reset {hard | soft}`	Reboots the CMP.
Step 2	`switch-cmp# show system reset-reason`	Displays all recorded reboot causes for CMP and RP.

Rebooting the CMP from the CMP

To reboot the CMP from the CMP, perform this task:

	Command	Purpose
Step 1	`switch-cmp# reload`	Reboots the CMP.
Step 2	`switch-cmp# show system reset-reason`	Displays all recorded reboot causes for CMP and RP.

Verifying the Status of the CMP

You can verify the status of the CMP by entering one or more of the following commands:

Command	Purpose
switch-cmp# **show interface cmpmgmt**	Displays information for the interface ‘eth0’.
switch-cmp# **show interface loopback**	Displays information for the interface ‘lo’.
switch-cmp# **show kernel upgrade**	Displays version and status of the GOLD image.
switch-cmp# **show line console**	Displays information for the front panel console.
switch-cmp# **show logging cmp app**	Displays the last 200 lines of the CMP application log.
switch-cmp# **show logging cmp kernel**	Displays the last 200 lines of the CMP Linux kernel log.
switch-cmp# **show logging route-processor console**	Displays the last 500 lines of the RP console log.
switch-cmp# **show logging route-processor epcinfo**	Displays the last RP crash info data.
switch-cmp# **show running-config**	Displays the configuration in use by the CMP.
switch-cmp# **show software authenticity debug**	Displays the debug mode settings for digital signature verification.
switch-cmp# **show software authenticity file** *filepath*	Displays the signature information of the specificed file.
switch-cmp# **show software authenticity keys**	Displays the information of the keys sotred in bootflash.
switch-cmp# **show software authenticity running**	Displays the signature information of the running image.
switch-cmp# **show system reset-reason**	Displays the recent reset causes for both RP and CMP.

Recovering the RP Using TFTP boot

To reboot the RP with TFTP boot, perform this task:

Command	Purpose
rommon> **boot tftp://***server ip-addr/path to image*	Reboots the RP using its boot loader ROMMON.