CHAPTER 14

Command Summary for Gigabit Ethernet SPAs

Table 14-1 provides an alphabetical list of some of the most significant commands that are needed to configure, monitor, and maintain Gigabit Ethernet SPAs. For more information about the commands, see the *Cisco IOS CMTS Cable Command Reference* at the following URL:
http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

Table 14-1 Command Summary

Command	Purpose
`Router(config-if)# card slot 4jacket-1`	Preprovisions a line card slot in the Cisco uBR10012 router to accept a SIP-600.
`Router# debug hw-module subslot`	Debugs a SPA and all of its interfaces.
`Router(config-if)# flowcontrol receive off`	Disables flow control on the 1-Port 10-Gigabit Ethernet SPA.
`Router(config-if)# hold-queue length in`	Configures the input hold queue in units of packets.
`Router(config)# interface gigabitethernet slot/subslot/port`	Specifies the Gigabit Ethernet interface to configure.

`Router(config-if)# ip address ip-address mask`
or
`Router(config-if)# ipv6 address ipv6-prefix/prefix-length`
	Sets a primary or secondary IP address for an interface.

`Router(config-if)# ip accounting mac-address [input | output]`	Generates accounting information for IP traffic based on the source and destination MAC addresses on LAN interfaces.
`Router(config-if)# mac-address ieee-address`	Modifies the default MAC address of an interface to a user-defined address.
`Router(config-if)# mtu value`	Sets the maximum transmission unit (MTU) value for the interface.
`Router(config-if)# negotiation auto`	Enables advertisement of speed, duplex mode, and flow control on a Gigabit Ethernet interface.
`Router(config-if)# no shutdown`	Enables an interface.
`Router(config-if)# plim qos input map`	Classifies ingress packets into priority and nonpriority queues on Gigabit Ethernet SPAs.
`Router# show controllers interface slot/subslot/port [detail]`	Displays initialization block information, transmit ring, receive ring, transmission statistics and errors, and applicable MAC destination address and VLAN filtering tables for Gigabit Ethernet SPA interface controllers.

Table 14-1 Command Summary (continued)

Command	Purpose
Router# **show hw-module subslot** [**all** | *slot/subslot*] [***fpd*** | *oir* | *sensors* | *transceiver port-number*]	Displays diagnostic information about internal hardware devices for all SPAs or a specific SPA.
Router# **show interfaces**	Displays the configured interface and checks the status of each interface port.
Router# **show running-config**	Displays the router's running configuration and interfaces available in the system.
Router# **show version**	Displays the current software version, and can also be used to confirm that the router recognizes the line card.