



CHAPTER 10

Command Summary for the Cisco Wideband SPA

Table 10-1 provides an alphabetical list of some of the most significant commands that are needed to configure, monitor, and maintain the Cisco Wideband SPA.

For more information about the commands used in this chapter, 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 10-1 Cisco Wideband SPA Command Summary

Command	Purpose
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router(config)# card slot/subslot/bay 24rfchannel-spa-1</pre>	Preprovisions the Cisco Wideband SPA so that it can be configured without being physically present.
<p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router(config)# card slot/bay 24rfchannel-spa-1</pre>	
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router(config)# hw-module bay slot/subslot/bay shutdown unpowered</pre>	Powers down a SPA in the specified slot, subslot, and bay.
<p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router(config)# hw-module bay slot/bay shutdown unpowered</pre>	
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router(config)# no hw-module bay slot/subslot/bay shutdown</pre>	Powers on a SPA in the specified slot, subslot, and bay.
<p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router(config)# no hw-module bay slot/bay shutdown</pre>	
<pre>Router(config-controller)# rf-channel rf-port frequency freq [annex {A B} modulation {64 256} [interleave-depth {8 12 16 32 64 128}]]</pre>	Sets the frequency, annex (MPEG framing format), modulation and interleave depth for the Cisco Wideband SPA.
<pre>Router(config)# cable fiber-node fiber-node-id</pre>	Enters cable fiber-node configuration mode so that you can configure a fiber node.
<pre>Router(config)# cable rf-bandwidth-percent percent_value</pre>	Allocates bandwidth for the modular-cable interfaces.

Table 10-1 Cisco Wideband SPA Command Summary (continued)

Command	Purpose
Router(config-if)# cable rf-channel <i>rf_port</i> [bandwidth-percent <i>bw-percent</i>]	Associates an RF channel on a Cisco Wideband SPA with a wideband channel.
Router(config)# cable wideband auto-reset	Enables wideband auto-reset mode on the CMTS.
Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA Router(config)# controller modular-cable <i>slot/subslot/bay</i>	Enters controller configuration mode to configure the Cisco Wideband SPA controller.
Cisco IOS Release 12.2(33)SCB Router(config)# controller modular-cable <i>slot/bay/port</i>	
Router(config-fiber-node)# description <i>description</i>	Specifies a description for a fiber node.
Router(config-fiber-node)# downstream cable <i>slot/subslot/port</i>	Assigns a primary downstream channel for a fiber node.
Router(config-fiber-node)# upstream cable <i>slot/subslot connector list-of-ports</i>	Specifies the upstream channel ports for a fiber node.
Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA Router(config-if)# downstream modular-cable <i>slot/subslot/bay rf-channel list_of_channels</i> [upstream <i>list_of_upstreams</i>]	Specifies association of a set of uBR10-MC5x20 upstreams with individual modular downstream channels from the SPA into a given cable MAC domain.
Cisco IOS Release 12.2(33)SCB Router(config-if)# downstream modular-cable <i>slot/bay/port rf-channel list_of_channels</i> [upstream <i>list_of_upstreams</i>]	
Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA Router(config-fiber-node)# downstream modular-cable <i>slot/subslot/bay rf-channel</i> { <i>rf-port</i> <i>low-high</i> }	Specifies the RF channels that are available for wideband channels on a fiber node.
Cisco IOS Release 12.2(33)SCB Router(config-fiber-node)# downstream modular-cable <i>slot/bay/port rf-channel</i> { <i>rf-port</i> <i>low-high</i> }	
Router(config-controller)# ip-address <i>ip-address</i>	Sets the IP address of the Cisco Wideband SPA's FPGA.
Router(config-controller)# modular-host <i>subslot</i> <i>slot/subslot</i>	Specifies the modular-host line card that will be used for Wideband protocol operations.
Router(config-controller)# rf-channel <i>rf-port</i> [description <i>description</i>] [frequency <i>freq</i>] [ip-address <i>ip-address</i> mac-address <i>mac-address</i> udp-port <i>portnum</i>]	Configures an RF channel on the Cisco Wideband SPA.
Router(config-controller)# rf-channel <i>rf-port</i> cable downstream channel-id <i>channel-id</i>	Assigns a downstream channel ID to an RF channel.
Router# show cable mac-domain cableslot/subslot/port downstream-service-group	Displays MAC Domain Downstream Service Group information for a primary downstream channel.

Table 10-1 Cisco Wideband SPA Command Summary (continued)

Command	Purpose
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router# show controllers modular-cable slot/subslot/bay {brief fpga_registers {all sfp [port port_num] ge_phy [port port_num] }}</pre> <p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router# show controllers modular-cable slot/bay/port {brief fpga_registers {all sfp [port port_num] ge_phy [port port_num] }}</pre>	Display Cisco Wideband SPA internal state information.
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router# show hw-module bay [slot/subslot/bay all] show-type {wideband-channel rf-channel} [device-index] [verbose]</pre> <p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router# show hw-module bay [slot/bay all] show-type {wideband-channel rf-channel} [device-index] [verbose]</pre>	Displays information about the wideband channels or RF channels on a Cisco Wideband SPA.
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router# show hw-module bay {slot/subslot/bay all} oir [internal]</pre> <p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router# show hw-module bay {slot/bay all} oir [internal]</pre>	Displays the operational status of a Cisco Wideband SPA.
<p>Cisco IOS Releases 12.3(23)BC and 12.2(33)SCA</p> <pre>Router# show interface wideband-cable slot/subslot/bay:wb-channel</pre> <p>Cisco IOS Release 12.2(33)SCB</p> <pre>Router# show interface wideband-cable slot/bay/port:wb-channel</pre>	Displays information about a wideband channel cable interface.

