



CHAPTER 2

List of Cisco RF Gateway 10 Commands

This chapter lists Cisco RF Gateway 10 (RFGW-10) commands. [Table 2-1](#) contains the commands by functional group. [Table 2-2](#) lists the commands in alphabetical order.

Cisco RF Gateway 10 Commands by Functional Group

The following table lists Cisco RFGW-10 commands by functional category. Each command references the page in Chapter 3 in which the command is described in detail.

[Table 2-1](#) lists commands that relate to the Cisco RF Gateway 10 platform and not a particular feature or function.

Table 2-1 Cisco RF Gateway 10 Commands by Function

Command Name	Command Description	Reference
Bundled Image Upgrade		
<code>show cable image-upgrade bundle</code>	Displays the upgraded images of all the devices on the Supervisor.	show cable image-upgrade bundle, page 3-108
<code>show cable image-upgrade status</code>	Displays the upgrade status for a line card.	show cable image-upgrade status, page 3-110
<code>show cable image-upgrade version</code>	Displays all the upgraded image versions on the line card.	show cable image-upgrade version, page 3-111
DOCSIS Timing Interface (DTI)		
<code>cable clock free-run</code>	Allows the clock to be in free-run mode.	cable clock free-run, page 3-8
<code>clear cable clock counters</code>	Clears DTI client transition counters of a TCC DTI client and server.	clear cable clock counters, page 3-50
<code>show cable clock</code>	Displays information about displaying Timing, Communication and Control (TCC) card DTI client and server statistic counts.	show cable clock, page 3-96
DOCSIS Timing Interface (DTI) Offset		
<code>cable depi offset</code>	Sets the DOCSIS timing offset on the QAM channel for a line card in DEPI mode.	cable depi offset, page 3-10
<code>show cable depi-sessions offset</code>	Displays the DTI timing value on the QAM channels.	show cable heartbeat, page 3-106
Modular Cable Modem Termination System (M-CMTS)		

Table 2-1 Cisco RF Gateway 10 Commands by Function (continued)

Command Name	Command Description	Reference
cable depi dest-ip	Configures Downstream External PHY Interface (DEPI) sessions manually on QAM line cards.	cable depi dest-ip, page 3-9
depi class	Creates a template of DEPI control plane configuration settings and enters DEPI class configuration mode.	depi-class, page 3-57
depi tunnel	Creates a template of DEPI tunnel configuration settings and enters DEPI data session configuration mode.	depi-tunnel, page 3-59
dest-ip	Assigns an IP address to the EQAM.	dest-ip, page 3-62
depi eqam-stats	Enables debugging information for DEPI EQAM statistics on the Cisco RFGW-10.	depi eqam-stats, page 3-63
l2tp-class	Creates a template of Layer 2 Tunnel Protocol (L2TP) control plane configuration settings and enters L2TP class configuration mode.	l2tp-class, page 3-70
protect-tunnel	Configures a DEPI tunnel on the Cisco RFGW-10.	protect-tunnel, page 3-79
show cable depi-sessions	Displays DEPI sessions configured on the line card.	show cable depi-sessions, page 3-100
show cable depi-sessions slot count	Displays the DEPI session count on all QAMs on a line card.	show cable depi-sessions slot count, page 3-105
show controllers linecard	Displays information about used bandwidth and total bandwidth on all QAMs on a line card interface.	show controllers linecard, page 3-142
show depi	Displays DEPI information.	show depi, page 3-145
show depi session	Displays DEPI session information.	show depi session, page 3-147
Platform		
banner lcd	Configures the string on the front panel display.	banner lcd, page 3-7
hw-module module power	Powers on a cable interface line card manually.	hw-module module power, page 3-64
show cable heartbeat	Displays the number of heartbeats received from the line cards.	show cable heartbeat, page 3-106
show cable linecard coreinfo	Copies the core file information from line card flash directory to the bootflash.	show cable linecard coreinfo, page 3-113
show cable linecard cpuload	Displays the CPU utilization information of the line card.	show cable linecard cpuload, page 3-115
show cable linecard logs	Displays the system log information of the line card at bootup.	show cable linecard logs, page 3-117
show cable linecard process	Displays all the processes running on the line card.	show cable linecard process, page 3-119
show cable linecard version	Displays image version information of the line card.	show cable linecard version, page 3-121
Redundancy		

Table 2-1 Cisco RF Gateway 10 Commands by Function (continued)

Command Name	Command Description	Reference
auto-sync	Enable automatic synchronization of the configuration files in NVRAM.	auto-sync, page 3-5
class	Configures redundancy class on the line card.	class, page 3-48
description	Adds a description to the line card group.	description, page 3-61
linecard-group internal switch	Configures a redundancy line card group.	linecard-group internal switch, page 3-72
main-cpu	Enters the main CPU redundancy configuration mode.	main-cpu, page 3-73
member slot	Adds a slot to the line card redundancy group.	member slot, page 3-74
mode	Configures the redundancy mode of operation.	mode, page 3-77
redundancy	Enters the redundancy configuration mode.	redundancy, page 3-83
redundancy force-failover main-cpu	Forces a switchover so that a standby Supervisor module becomes the active Supervisor module.	redundancy force-failover main-cpu, page 3-85
redundancy force-switchover	Forces the standby Route Processor (RP) or standby Supervisor to assume the role of an active RP or Supervisor.	redundancy force-switchover, page 3-87
redundancy linecard-group switchover from slot	Initiates a line card switchover.	redundancy linecard-group switchover from slot, page 3-89
redundancy reload	Resets the standby Supervisor to reset both the active and standby Supervisors.	redundancy reload, page 3-90
redundancy tcc-group switchover from slot	Initiates a Timing Control Card (TCC) switchover.	redundancy tcc-group switchover from slot, page 3-92
show redundancy	Displays the current active and standby Supervisor redundancy status.	show redundancy, page 3-157
show redundancy linecard	Displays information on a line card or line card group redundancy status.	show redundancy linecard, page 3-161
show redundancy tcc	Displays information of the TCC cards redundancy status.	show redundancy tcc, page 3-164
Universal QAM		
cable downstream annex	Sets the MPEG framing format for a downstream port on a line card to Annex A (Europe) or Annex B (North America) or Annex C (Japan).	cable downstream annex, page 3-12
cable downstream frequency	Sets the center frequency on the line card.	cable downstream frequency, page 3-13
cable downstream if-output	Activates a downstream port on an interface and generates a standard modulated signal or a test signal.	cable downstream if-output, page 3-15
cable downstream interleave-depth	Sets the downstream interleave depth on the line card.	cable downstream interleave-depth, page 3-17
cable downstream interleaver-level	Sets the downstream interleave level on the line card.	cable downstream interleaver-level, page 3-19

Table 2-1 Cisco RF Gateway 10 Commands by Function (continued)

Command Name	Command Description	Reference
cable downstream lock	Locks the downstream port on the QAM interface.	cable downstream lock, page 3-20
cable downstream modulation	Sets the modulation format for a downstream port on a line card.	cable downstream modulation, page 3-21
cable downstream rf-power	Configures the specified RF output power on the integrated upconverter.	cable downstream rf-power, page 3-22
cable downstream rf-shutdown	Enables or disables the RF output from the integrated upconverter.	cable downstream rf-shutdown, page 3-24
cable downstream stacking	Configures frequency stacking on the line card.	cable downstream stacking, page 3-25
cable downstream tsid	Configures the TSID value on the QAM subinterface.	cable downstream tsid, page 3-26
cable mode	Sets the mode on the QAM channel.	cable mode, page 3-29
interface qam	Configures a QAM interface on the line card.	interface qam, page 3-65
show controllers qam	Displays cable downstream information configured on the QAM channel and port.	show controllers qam, page 3-143
show interfaces qam	Displays information of the QAM interface.	show interfaces qam, page 3-153
show running-config interface qam	Displays the running configuration of the QAM interface.	show running-config interface qam, page 3-165
Video		
active	Activates the video server group on the line card.	active, page 3-2
asm	Configures Any Source Multicast (ASM) label definition.	asm, page 3-3
cable qam-domain	Configures a QAM domain.	cable qam-domain, page 3-31
cable video group	Creates a group of unicast video sessions.	cable video group, page 3-33
cable video labels	Configures video session labels.	cable video labels, page 3-35
cable video multicast	Configures video multicast sessions on a QAM interface.	cable video multicast, page 3-36
cable video multicast uplink	Sets up an uplink port for multicast traffic.	cable video multicast uplink, page 3-38
clear cable video packet	Clears all video packet insertions.	clear cable video packet, page 3-53
clear cable video server-group statistics	Clears all video server-group statistics.	clear cable video server-group statistics, page 3-55
cable video psi-interval	Configures the PSI interval on the QAM subinterface.	cable video psi-interval, page 3-40
cable video servers	Configures server groups for video sessions using external servers.	cable video servers, page 3-41
cable video table	Configures video sessions on a QAM channel using the pre-defined UDP map.	cable video table, page 3-43
cable video timeout	Configures the video session timeout thresholds.	cable video timeout, page 3-44

Table 2-1 Cisco RF Gateway 10 Commands by Function (continued)

Command Name	Command Description	Reference
cable video udp	Configures a unicast video session.	cable video udp, page 3-46
ip	Configures destination IP address for video sessions on a QAM domain.	ip, page 3-66
ip multicast-routing	Enables video multicast routing.	ip multicast-routing, page 3-67
ip rpc portmapper	Establishes a remote procedure call (RPC) connection between an external server and an EQAM.	ip rpc portmapper, page 3-68
keepalive retry	Sends keepalive message to a remote client with a specified retry interval.	keepalive retry, page 3-69
mgmt-ip-address mac-address	Configures the management port IP address in a cable video server group.	mgmt-ip-address mac-address, page 3-76
protocol	Sets the protocol used by the server in a video server group.	protocol, page 3-81
reset interval	Sets the reset interval in video server configuration mode	reset interval, page 3-93
retry interval	Configures the retry time and interval time on the external server.	retry interval, page 3-94
server	Configures the external server IP address of video server group.	server, page 3-95
show cable video label	Displays the active video labels configured on the chassis.	show cable video label, page 3-123
show cable video multicast uplink	Displays the multicast uplink interfaces configured on the chassis.	show cable video multicast uplink, page 3-126
show cable video packets	Displays the cable video packets on the QAM interface.	show cable video packet, page 3-128
show cable video route	Displays video route information on the chassis.	show cable video route, page 3-130
show cable video server-group	Displays information on a video server group.	show cable video server-group, page 3-132
show cable video session	Displays the video session information.	show cable video session, page 3-134
show cable video statistics packet	Displays unicast and multicast video packets.	show cable video statistics packet, page 3-139
ssm	Configures Specific Source Multicast (SSM) label definition.	ssm, page 3-167
video route	Creates video policy routes to redirect traffic to the line cards.	video route, page 3-170

Cisco RF Gateway 10 Commands in Alphabetical Order

Table 2-2 lists the RF Gateway 10 commands in alphabetical order. Each command references the page in Chapter 3 in which the command is described in detail.

Table 2-2 Cisco RF Gateway 10 Commands in Alphabetical Order

Command Name	Page Reference
active	active, page 3-2
asm	asm, page 3-3
auto-sync	auto-sync, page 3-5
banner lcd	banner lcd, page 3-7
cable clock free-run	cable clock free-run, page 3-8
cable depi dest-ip	cable depi dest-ip, page 3-9
cable depi offset	cable depi offset, page 3-10
cable downstream annex	cable downstream annex, page 3-12
cable downstream frequency	cable downstream frequency, page 3-13
cable downstream if-output	cable downstream if-output, page 3-15
cable downstream interleave-depth	cable downstream interleave-depth, page 3-17
cable downstream interleaver-level	cable downstream interleaver-level, page 3-19
cable downstream lock	cable downstream lock, page 3-20
cable downstream modulation	cable downstream modulation, page 3-21
cable downstream rf-power	cable downstream rf-power, page 3-22
cable downstream rf-shutdown	cable downstream rf-shutdown, page 3-24
cable downstream stacking	cable downstream stacking, page 3-25
cable downstream tsid	cable downstream tsid, page 3-26
cable linecard reset	cable linecard reset, page 3-28
cable mode	cable mode, page 3-29
cable qam-domain	cable qam-domain, page 3-31
cable video group	cable video group, page 3-33
cable video labels	cable video labels, page 3-35
cable video multicast	cable video multicast, page 3-36
cable video multicast uplink	cable video multicast uplink, page 3-38
cable video psi-interval	cable video psi-interval, page 3-40
cable video servers	cable video servers, page 3-41
cable video table	cable video table, page 3-43
cable video timeout	cable video timeout, page 3-44
cable video udp	cable video udp, page 3-46
class	class, page 3-48

Table 2-2 Cisco RF Gateway 10 Commands in Alphabetical Order (continued)

Command Name	Page Reference
clear cable clock counters	clear cable clock counters, page 3-50
clear cable depi counters	clear cable depi counters, page 3-52
clear cable video packets	clear cable video packet, page 3-53
clear cable video server-group statistics	clear cable video server-group statistics, page 3-55
description	description, page 3-61
depi-class	depi-class, page 3-57
depi-tunnel	depi-tunnel, page 3-59
dest-ip	dest-ip, page 3-62
depi eqam stats	depi eqam-stats, page 3-63
hw-module module power	hw-module module power, page 3-64
interface qam	interface qam, page 3-65
ip	ip, page 3-66
ip multicast-routing	ip multicast-routing, page 3-67
ip rpc portmapper	ip rpc portmapper, page 3-68
keepalive retry	keepalive retry, page 3-69
l2tp-class	l2tp-class, page 3-70
linecard-group internal switch	linecard-group internal switch, page 3-72
main-cpu	main-cpu, page 3-73
mode	mode, page 3-77
member slot	member slot, page 3-74
mgmt-ip-address mac-address	mgmt-ip-address mac-address, page 3-76
protect-tunnel	protect-tunnel, page 3-79
protocol	protocol, page 3-81
redundancy	redundancy, page 3-83
redundancy force-failover main-cpu	redundancy force-failover main-cpu, page 3-85
redundancy force-switchover	redundancy force-switchover, page 3-87
redundancy linecard-group switchover from slot	redundancy linecard-group switchover from slot, page 3-89
redundancy reload	redundancy reload, page 3-90
redundancy tcc-group switchover from slot	redundancy tcc-group switchover from slot, page 3-92
reset interval	reset interval, page 3-93
retry interval	retry interval, page 3-94
server	server, page 3-95
show cable clock	show cable clock, page 3-96

Table 2-2 Cisco RF Gateway 10 Commands in Alphabetical Order (continued)

Command Name	Page Reference
show cable depi-sessions	show cable depi-sessions, page 3-100
show cable depi-sessions offset	show cable depi-sessions offset, page 3-103
show cable depi-sessions slot count	show cable depi-sessions slot count, page 3-105
show cable heartbeat	show cable heartbeat, page 3-106
show cable image-upgrade bundle	show cable image-upgrade bundle, page 3-108
show cable image-upgrade status	show cable image-upgrade status, page 3-110
show cable image-upgrade version	show cable image-upgrade version, page 3-111
show cable linecard coreinfo	show cable linecard coreinfo, page 3-113
show cable linecard cpupload	show cable linecard cpupload, page 3-115
show cable linecard logs	show cable linecard logs, page 3-117
show cable linecard process	show cable linecard process, page 3-119
show cable linecard version	show cable linecard version, page 3-121
show cable video label	show cable video label, page 3-123
show cable video multicast uplink	show cable video multicast uplink, page 3-126
show cable video packets	show cable video packet, page 3-128
show cable video route	show cable video route, page 3-130
show cable video server-group	show cable video server-group, page 3-132
show cable video session	show cable video session, page 3-134
show cable video statistics packet	show cable video statistics packet, page 3-139
show controllers linecard	show controllers linecard, page 3-142
show controllers qam	show controllers qam, page 3-143
show depi	show depi, page 3-145
show depi session	show depi session, page 3-147
show depi tunnel	show depi tunnel, page 3-151
show interfaces qam	show interfaces qam, page 3-153
show redundancy	show redundancy, page 3-157
show redundancy linecard	show redundancy linecard, page 3-161
show redundancy tcc	show redundancy tcc, page 3-164
show running-config interface qam	show running-config interface qam, page 3-165

Table 2-2 *Cisco RF Gateway 10 Commands in Alphabetical Order (continued)*

Command Name	Page Reference
ssm	ssm, page 3-167
video route	video route, page 3-170

