Avaya G700 Media Gateway CLI Reference

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Avaya G700 Media Gateway CLI Reference

Introduction

The *Avaya G700 Media Gateway Command Line Interface Reference* describes the commands used to configure and manage the Avaya G700 Media Gateway Processor (MGP) after it is already installed.

The information in this book is intended for use by Avaya technicians, provisioning specialists, business partners, and customers.

> **Note:**
> The Layer 2 Switching Processor on the G700 Media Gateway has its own set of CLI commands. These commands are used primarily in the management of the media gateway stack, if one is present. For information and a complete list of these command line interface commands, see the *Avaya P330 User's Guide* (available at http://www.avaya.com/support).

> **Note:**
> For information on the Avaya G250/G350 Media Gateway Command Line Interface (CLI) and a detailed description of the Avaya G250/G350 Media Gateway CLI commands, see the *Avaya G250 and Avaya G350 CLI Reference*, 03-300437 (available at http://www.avaya.com/support).

CLI Categories

In this section, Media Gateway CLI commands are grouped into the functional categories of Administration, Processor, Call Controller (CC), Quality of Service (QoS), Network, Maintenance, and E1/T1 CSU.

Administration

Use these commands for general administration on the G700 Media Gateway Processor.

Administration commands for the G700 Media Gateway Processor *1 of 2*

clear screen	Clears the screen and homes the cursor
clear sync interface	Disassociates an interface as a sync source
configure	Permits the use of set commands
dir	Shows list of downloadable files
exit	Exit the session or current mode
help	Shows mode-specific command help
hostname	Places 'hostname' in the command prompt
nvram initialize	Clears NVRAM and reload factory defaults
reset	Resets a specified system resource
retstatus	Shows pass/fail status of last command
sat	Sets up a SAT session
set hostname	Places 'hostname' in the command prompt
set logout | timeout	Sets idle time for auto-logout
set sync interface	Permits sync configuration changes
set sync source	Specifies the stratum clock source
set sync switching	Sets automatic switching of sync source
set system contact	Sets the site contact name
set system location	Sets the name of the site location
set system name	Sets the system name
set timeout | logout	Sets idle time for auto-logout
show hostname	Shows the current prompt string
show logout | timeout	Shows the auto-logout time
show mg list_config	Shows installed MG equipment
	1 of 2

Administration commands for the G700 Media Gateway Processor *2 of 2*

show mm	Shows MG Media Module info
show post	Shows Power On Self Test results
show rtp-stat detailed	Shows that SRTP is being used in a given RTP session.
show sync timing	Shows state of clocking sources
show system	Shows system ID information
show timeout | logout	Shows the auto-logout time
tech	Changes to a mode for access to tech level commands
terminal length	Sets the number of terminal lines
terminal width	Sets or displays the number of characters per line
tree	Shows available commands
	2 of 2

Processor Commands

Use these commands to work on the G700 Media Gateway processor.

Processor commands for the G700 Media Gateway

set mgp bootimage	Specifies boot image source
set mgp icc-monitoring	Enables/Disables heartbeat monitoring of an **S8300**/LSP
set mgp reset-times	Sets the MGP recovery process timers
show mgp bootimage	Identifies memory bank used for mgp boot
show mgp icc-monitoring	Displays the current state of the **S8300** monitoring watchdog
show mgp recovery	Shows the MGP monitoring and recovery setup
show restart-log	Retrieves raw restart log entries

CC

Use these commands to set, change, or display the IP address list of the Media Gateway Call Controller. Use `show mediaserver` to display the active MG controller state and setup.

IP list commands for the Media Gateway Call Controller

clear mgc list	Removes one or all entries within the MGC list
set mediaserver	Sets up server management ports
set mgc list	Adds one or more entries to the MGC list
show mediaserver	Shows server management ports
show mgc	Currently active MGC state and setup parameters
show mgc list	Lists available MGCs

QOS

Use these commands to set, change, or display the parameters associated with the bearer-related QoS for the MGP and VoIP engines.

Bearer-related QoS commands for MGP and VoIP engines

set qos bearer	Sets QoS bearer configuration
set qos control	Defines source of QoS parameters
set qos rsvp	Establishes RSVP parameter settings
set qos rtcp	Sets RTCP operation mode and parameters
set qos signal	Sets the DSCP or 802.1Q priority value
show qos-rtcp	Shows QoS parameters
show voip-parameters	Shows a VoIP engine's setup and state

Network

Use these commands to set, display, and change IP parameters associated with the MGC and VoIP engines.

IP parameter commands for the MGP and VoIP engines

clear arp-cache	Deletes all ARP cache entries
clear ip route	Removes entry(ies) from routing table
netstat	Displays all active connections on IP sockets
ping	Tests network path to target IP address
session	Creates a session to the MGC, SAT, or stack
set interface	Sets up IP for MGP or VoIP engine
set ip route	Adds a route to routing table
show interface	Shows defined IP interface
show ip arp	Shows the ARP cache
show ip route	Shows IP routing table
telnet	Initiates a TELNET session
traceroute mgp	Shows route of IP packet from origin to destination

Maintenance

Use these commands to perform maintenance on the MGP to:

- l display voltages, faults, and temperature readings
- l set, change, or display SNMP parameters
- l upload and download configuration files
- l display and reset ISDN links associated with Media Modules

Maintenance command for the Media Gateway Processor

busyout | test | release voip-dsp	Maintenance busyout/test/release a VoIP engine
clear snmp trap	Removes one or all trap receivers
copy mgp-config tftp	Uploads the MG configuration file
copy tftp	Downloads all configuration data to RAM
set snmp trap	Sets up SNMP trap group reporting
show faults	Shows active faults
show isdn bri link	Shows the status of all MM BRI links
show isdn link summary	Displays summary of ISDN links for MG
show isdn pri link	Displays status of MM ISDN PRI link
show snmp	Shows all SNMP trap receivers' setup
show temp	Shows CPU and DSP temperature
show tftp status	Shows TFTP command status
show voltages	Shows power supply status
test led	Tests the MG's LED operation

E1/T1 CSU

Use these commands to display CSU status conditions.

Commands to display CSU status conditions

show csu loopbacks	Shows CSU loopback status
show csu status	Shows CSU operational status

CLI Commands

The following pages contain an alphabetical listing of each of the G700 CLI commands.

busyout | test | release voip-dsp

`busyout voip-dsp` *`voip ID`*

`test voip-dsp` *`voip ID`*

`release voip-dsp` *`voip ID`*

Example: `busyout voip-dsp v1`

Use `busyout/test/release voip-dsp` to administer a VoIP engine on a VoIP media module.

Action/ Object	Object	Qualifier	Qualifier Description	Login
`busyout` `test`* `release`†	`voip-dsp`	*`voip ID`*	slot number where the VoIP engine is installed `v0` to `v4` `v0` = motherboard	Configure

    *. If the VoIP engine is not busied out, test runs only non-disruptive tests. Output for tests shows PASS or FAIL.

    †. Release stops any test in progress and restores the engine to operational state.

Use `show mm` *`mmID`* or `show voip parameters` *`voipID`* to show the current state and most recent test results. Media module status changes create a SNMP trap.

Use SAT commands to busyout/test/release T1/Analog/BRI media modules.

For more information, see the `busyout` and `release` SAT commands in *Maintenance Commands for Avaya Communication Manager, Media Gateways and Servers (03-300431).*

Administration | Processor Commands | CC | QOS | Network | Maintenance | E1/T1 CSU

clear arp-cache

`clear arp-cache`

Use `clear arp-cache` to remove non-permanent entries from the ARP cache.

Action/Object	Object	Qualifier	Description	Login	Default	Notes
`clear`	`arp-cache`			All		

Administration | Processor Commands | CC | QOS | Network | Maintenance | E1/T1 CSU

clear ip route

`clear ip route <ipaddress> <ipgateway> *`

Example: `clear ip route *`

Use `clear ip route` to delete IP routing table entries for the MGP or for specified VoIP engine.

Action/Object	Object	Qualifier	Description	Login
`clear`	`ip route`	*`ipaddress`* *`ipgateway`* `*`	ip address default gateway clears all routes from the routing table	Privileged

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clear mgc list

`clear mgc list` *`ipaddr`*

Example: `clear mgc list 132.236.73.2`

Use `clear mgc list` *`ipaddr`* to remove one or more entries on the MGC list. Multiple entries can be removed at one time provided each entry matches an entry in the table. If no arguments are provided, all entries are removed.

Action/Object	Object	Qualifier	Description	Login
`clear`	`mgc list`	*`ipaddr`*	INET address of an administered call controller in the MGC list	Configure

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clear screen

`clear screen`

Use `clear screen` to erase the screen, and see a welcome message showing the firmware version number.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default	Notes
`clear`	`screen`			All		

Sample output for clear screen -

```
MG-001-3>clear screen
                                Welcome to Media Gateway Processor
                                         FW version 100
MG-001-3>
```

Administration | Processor Commands | CC | QOS | Network | Maintenance | E1/T1 CSU

clear snmp trap

clear snmp trap *ipaddress* **| all**

Examples: **clear snmp trap all**
clear snmp trap 132.236.73.1

Use **clear snmp trap** to remove a trap receiver table entry, or to clear all trap receiver table entries.

Action/Object	Object	Qualifier	Qualifier Description	Login
clear	**snmp trap**	*ipaddress* **all**	IP address of a trap receiver all trap receiver table entries	Configure

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clear sync interface

clear sync interface <primary> <secondary >

Use **clear sync interface** to disassociate a previously specified interface as the primary or secondary sync source.

Action/Object	Object	Qualifier	Qualifier Description	Login
clear	**sync interface**	**primary secondary**	Disassociate the primary interface before the secondary interface is disassociated.	Configure

Administration | Processor Commands | CC | QOS | Network | Maintenance | E1/T1 CSU

configure

`configure`

Add `configure` to a command prompt string to use a `set` command. To return to the previous mode, enter `exit`.

Action/Object	Object	Qualifier	Login
`configure`			Privileged: a sub-level within Privileged/Supervisor

Administration | Processor Commands | CC | QOS | Network | Maintenance | E1/T1 CSU

copy mgp-config tftp

`copy mgp-config tftp <filename> <ipaddress>`

Example: `copy mgp-config tftp tffs.dat 128.256.98.211`

Use `copy mgp-config tftp` to upload a customer's configuration file from NVRAM to a destination via TFTP.

Action/Object	Object	Qualifier	Qualifier Description	Login
`copy`	`mgp-config tftp`	`filename` `ipaddress`	destination file name destination IP address	Configure

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copy tftp

`copy tftp {mgp-config | [mgp-image {A | B}] | [mm-image <mmID>]} <filename> <ipaddress>`

Use `copy tftp` to download:

- a Media Gateway configuration from a source to NVRAM

- a firmware image from a source to flash memory for the Media Gateway Processor or the Media Modules

Action/Object	Object	Qualifier	Qualifier Description	Login

`copy`	`tftp`	`mgp-config`
		`mgp-image {A|B}`
		`mm-image`
		`mmID`
		`filename`
		`ipaddress`
			destination media module slot number
			origin file name
			source host IP address
				Configure

Sample output for copy tftp -

```
MG-001-3 (configure) # copy tftp mgp-config tffs.dat 123.456.98.765

MG-001-3 (configure) # copy tftp mgp-image b MgpBuild12.bin 123.456.98.765

TFTP STATUS
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _

Module          : MGP
Source [File]   : MgpBuild12.bin
Desitnation File: BANK B
Host            : 123.456.98.765
Running State   : idle
Last Failure    : No Error
Last Warning    : null)
Progress        : [102/7089] 1%
```

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dir

dir

Use **dir** to show the files that have been downloaded to the Media Gateway per the G700 MG Download interface and the SNMP MIB.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
dir				All	

Sample output for dir -

```
MG-001-1 (super) # dir

NAME      VERSION   TYPE          LOCATION   MODULE   DESCRIPTION
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _

MGP       100       Runtime Img   Bank A     100      Avaya G700 Media Gateway
MGP       100       Runtime Img   Bank B     100      Avaya G700 Media Gateway
VoIP      58        Component     NVRAM      100      VoIP Main Board Engine
MGP       0         Runtime Cfg   NVRAM      100      Avaya G700 Media Gateway
MGP       56        Runtime Img   NVRAM      2        DCP Telephone Port Board
MGP       55        Runtime Img   NVRAM      4        T1E1 Media Module
```

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exit

exit

Use **exit** to leave the current mode or exit the session.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
exit				All	

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help

help [keyword] or **<command> help**

Example: **P330-N(super)# exit ?**

Use help to display a mode-specific alphabetical list of available commands and the terse help string.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
help		**x**	**key word**	All	

Sample output for help -

```
MG-014-1 (super) # help show mgp

show mgp bootimage                       Identifies memory bank used for MGP reboot
show mgp icc-monitoring                  Shows the state of the ICC monitoring process
show mgp recovery                        Shows the MGP monitoring and recovery setup

The following command is equivalent to the previous example:
MC 014 1 (super)# show mgp ?
show mgp commands:
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
show mgp bootimage                        Identifies memory bank used for MGP reboot
show mgp icc-monitoring                  Shows the state of the ICC monitoring process
show mgp recovery                        Shows the MGP monitoring and recovery setup

If the user request a help on a completed/full command the Usage will be displayed


MG-014-1 (super) # set ip route help
set ip route command:
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Usage: set ip route <destination> <mask> <gateway>
<destination> - INET address for route destination
<mask> - Mask for the destination
<gateway> - INTET address of the gateway to destination

Example: set ip route 123.4.56.0 255.255.254.0 123.4.56.98

MG-014-1 (configure) # help
```

```
Commands:
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
System help
busyout                       Use 'busyout help' for more info
clear                         Use 'clear help' for more info
configure                     Enters to configure mode
copy                          Use 'copy help' for more info
dir                           Shows the list of downloadable files
exit                          Close session
help                          System help
hostname                      Display or set the new host name
netstat                       Display al active connections on IP sockets
no                            Use 'no help' for more info
nvram                         Use 'nvram help' for more info
ping                          Use 'ping help' for more info
release                       Use 'release help' for more info
reset                         Use 'reset help' for more info
retstatus                     Shows the return status of the last executed command
sat                           Connects to SAT of the registered controller
send                          Use 'send help' for more info
session                       Use 'session help' for more info
set                           Use 'set help' for more info
show                          Use 'show help' for more info
tech                          Enter tech mode
telnet                        Establish a telnet connection to a host
terminal                      Use 'terminal help' for more info
test                          Use 'test help' for more info
traceroute                    Use 'traceroute help' for more info
tree                          Display command tree
```

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hostname

[no] hostname [<*hostname_string*>]

Use **hostname** to see the current hostname, and set the 'MG' moniker in the command line prompt with the entered string.

Action/ Object	Object	Qualifier	Qualifier Description	Login
	hostname	**no** **hostname_string**	prefix sets the prompt to the default string ('MG') hostname to be displayed	All

Sample output for hostname -

```
MG-001-3> hostname daffyduck
daffyduck-001-3>
daffyduck-001-3> hostname
Session hostname is 'daffyduck'
daffyduck-001-3> no hostname
MG-001-3>
```

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netstat

netstat

Use **netstat** to show all active connections on IP sockets.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
netstat				All	

Sample output for netstat -

```
MG-001-1> (configure)# netstat

Active Internet connections (including servers)
PCD         Proto  Recv Q  Send Q  Local Address       Foreign Address       (state)

_____    _____  _____  _____  _____   _____  _____

3f13e93     TCP         0       2  123.4.56.789.12     123.9.38.63.4523      ESTABLISHED
3f14234     TCP         0       2  123.4.56.789.1025   123.9.38.63.4523      ESTABLISHED
3f1412C     TCP         0       2  0.0.0.0.5012        0.0.0.0.0             LISTEN
3f13FA0     TCP         0       2  0.0.0.0.5011        0.0.0.0.0             LISTEN
3f13F1C     TCP         0       2  0.0.0.0.5010        0.0.0.0.0             LISTEN
3f13b80     TCP         0       2  0.0.0.0.23          0.0.0.0.0             LISTEN
3f141b0     UDP         0       2  0.0.0.0.0           0.0.0.0.0
3f140a8     UDP         0       2  0.0.0.0.2050        0.0.0.0.0
3f14024     UDP         0       2  0.0.0.0.151         0.0.0.0.0
3f13d90     UDP         0       2  0.0.0.0.12345       0.0.0.0.0
```

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nvram initialize

nvram initialize

Use **nvram initialize** to clear out the NVRAM areas, and reload them with the factory default.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
nvram initialize				Configure	

Sample output for nvram initialize -

```
MG-001-1(configure)# nvram initialize

This command will reset the MGP to Factory Default.
Do you want to continue (Y/N)? n
```

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ping

ping {mgp | [voip <*mmid*>]} <*ipaddress*> [*number*]

Use **ping** to determine if a two-way transmission path is open between the sending equipment and the target host.

Action/Object	Object	Qualifier	Qualifier Description	Login
ping	**mgp** **voip** *mmid*	*ipaddress* *number*	media module ID. v0 if none is defined. target host IP address number of packets to transmit, 5 packets if none is specified	All

Uses identical command syntax and output as Avaya Cajun P330. For VoIP, the ping returns only the statistics.

Sample output for ping -

```
MG-001-3> ping mgp 123.4.567.213 5

     PING 149.49.48.1 10: 56 databytes
     64 bytes from 149.49.48.1: icmp_seq=0. time=8 ms
     64 bytes from 149.49.48.1: icmp_seq=1. time=8 ms
     64 bytes from 149.49.48.1: icmp_seq=2. time=8 ms
     64 bytes from 149.49.48.1: icmp_seq=3. time=8 ms
     64 bytes from 149.49.48.1: icmp_seq=4. time=9 ms
     ----149.49.48.1 PING Statistics----
     5 packets transmitted, 5 packets received, 0% packet loss
     round-trip (ms) min/avg/max = 8/8/9

MG-014-1(develop)# ping voip v0 127.1.1.1

----127.1.1.1 PING Statistics----
5 packets transmitted, 0 packets received, 5 packet loss
round-trip(ms) min/avg/max = 0/0/0
```

reset

reset {mgp | voip <voipID> | {mm <mmID>}}

Use **reset** to reset a specified system resource. **Reset**:

- ₁ permits a hard reset of the system resource
- ₁ returns any selectable parameters to the configuration in place before the reset
- ₁ sets all hardware and firmware to a known state.

Action/Object	Object	Qualifier	Qualifier Description	Login
reset	**mgp** **voip** **mm**	*voipID* *mmID*	reset the motherboard **v0-v4** **v1-v4** (**v0** is motherboard ID, not allowed)	Configure

Sample output for reset -

```
MG-001-3(configure)# reset mgp
This command will perform a hard reset.
Do you want to continue (Y/N)? y

Connection closed by foreign host.

MG-001-3(configure)# reset voip v0

This command will perform a hard reset.
Do you want to continue (Y/N)? y
```

retstatus

retstatus

Use **retstatus** to see if the previous CLI command was successful.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
retstatus				All	

Sample output for retstatus -

```
MG-001-2> retstatus
Succeeded

MG-01 > retstatus
Failed
```

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sat

sat

Use **sat** to access the SAT (System Administration Terminal) and perform Avaya Communication Manager translation work.

The Server must configure the SAT port to 5023. See session on page 22 for more information.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
sat				All	

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session

```
session {mgc [sat] | icc [sat] | stack}
```

Use **session** to establish a session with the active MGC, SAT, or the stack.

Action/ Object	Object	Qualifier	Qualifier Description	Login	Default
session	**mgc**[*] **icc**[*] **stack**	**sat**[†] **sat**	mgc takes the user to the LINUX shell login SAT takes the user to the SAT login	All	

[*]. For **session mgc** and **session icc**, the Server should allow access to telnet port 23.

[†]. For **session mgc sat**, and for **session icc sat** to access the Server SAT terminal, the SAT port must be configured to 5023 on the Server.

Sample output for session -

```
MG-001-3> session icc

Login: craft
Password: ******
craft@doc-icc1> exit
MG-001-3>
```

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set hostname

```
set hostname [hostname_string]
```

Use **set hostname** to:

- ⌐ place **<hostname_string>** in the command prompt
- ⌐ set the 'MG' moniker in the command line prompt with the entered string.

Action/Object	Object	Qualifier	Qualifier Description	Login
set	**hostname**	**hostname_string**	enclose in quotes if >= 2 words	All

A hostname of an empty string or NULL will not change the prompt.

Enter **set hostname** to display the current hostname.

Sample output for set hostname -

```
MG-001-3> set hostname Mickey
Mickey-001-3>
```

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set interface

```
set interface [mgp <vlan> <ipaddress> <netmask> | voip <voipid>
<ipaddress>]
```

Examples: `set interface voip v2 123.23.44.21`

`set interface mgp 2 132.236.73.23 255.255.255.0`

Use `set interface` to set the local static IP addresses for the Media Gateway Processor and VoIP engines. The VoIP engines inherit the `<netmask>` defined by `set interface mgp`.

Action/ Object	Object	Qualifier	Qualifier Description	Login

`set`	`interface`	`mgp`
		`vlan`
		`ipaddress`
		`netmask`
		`voip`
		`voipid`
		`ipaddress`
			
			VLAN number
			IP address of the interface
			IP netmask
			v0-v4, v0 = the VoIP engine on the motherboard
			IP address of the interface
				Configure

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set ip route

```
set ip route <destination | mask | gateway>
```

Example: `set ip route 132.236.73.0 255.255.255.0 132.236.73.1`

Use `set ip route` to add IP addresses to the IP routing table. You can configure from one to ten default gateways.

Action/ Object	Object	Qualifier	Qualifier Description	Login

`set`	`ip`
	`route`
		`destination`
		
		`mask`
		
		`gateway`
			IP address of the destination
			
			destination mask
			
			IP address, gateway to the destination
				Privileged

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set logout | timeout

`set [logout | timeout] <minutes>`

Use **`set logout | timeout`** to set the terminal inactivity timer in minutes. This sets the CLI inactivity time-out value. Either **`logout`** or **`timeout`** can be used.

Action/ Object	Object	Qualifier	Qualifier Description	Login
set	**logout timeout**	*minutes*	elapsed minutes for timing out the CLI connection. **0-999** * 0 for no time-out blank = 15 minute time-out	Configure

*. When the timer is set greater than **0**, and if idle time is greater than the set value, the user is automatically logged out.

Sample outputs for set logout | set timeout -

```
MG-001-3(configure)# set logout 20
Sessions will be automatically timed out after 20 minutes of idle time.
```

```
MG-001-3(configure)# set timeout 0
Sessions will not be automatically timed out.
```

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show mediaserver

`show mediaserver`

Use **`show mediaserver`** to see the contents of the Server Table.

The Server Table associates the Server IP addresses specified in the MGC list with:

  l SAT IP address and port
  l TELNET IP address and port

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**mediaserver**			All	

Sample output for show mediaserver - :

```
MG-001-3> show mediaserver

MGC IP ADDRESS    SAT IP ADDRESS   SAT PORT   SERVER IP ADDRESS   SERVER PORT
128.256.173.167   128.256.173.168    5023      128.256.173.128        23
174.144.134.114   174.144.134.104    5023      174.144.134.124        23
115.126.117.118   115.126.117.119    5023      115.126.117.128        23
135.108.165.7     135.108.165.77     5023      135.108.117.128        23
```

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set mediaserver

set mediaserver *<mgcipaddress | ipaddress | port-number | service-name>*

Example: **set mediaserver 135.8.45.120 135.8.45.121 5023 sat**

Use **set mediaserve** to specify a SAT IP address and port, and a TELNET IP address and port, that are associated with a specified Server in the MGC list. The association is made by the IP address of the Server, which resides in both the MGC list and in the Server Table.

Action/ Object	Object	Qualifier	Qualifier Description	Login
set	**mediaserver**	*mgcipaddress* *ipaddress* *port-number* *service-name*	controller IP address used for registration management interface IP address service port number service type, SAT or TELNET	Configure

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set mgc list

set mgc list [*<ipaddr1>* [,*<ipaddr2>* [, *<ipaddr3>* [, *<ipaddr4>*]]]]

Example: **set mgc list 132.236.73.2**

Use **set mgc list** to create a list of valid MGC(s), up to 4 IP addresses separated by commas.

Action/ Object	Object	Qualifier	Qualifier Description	Login
set	**mgc list**	*ipaddr1*	IP address of the first call controller in the list	Configure

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set mgp bootimage

`set mgp bootimage [a | b]`

Example: `set mgp bootimage a`

Use `set mgp bootimage` to specify MGP bootup on either flash memory A or B.

Action/ Object	Object	Qualifier	Qualifier Description	Login
`set`	`mgp bootimage`	`a` `b`	flash memory units in the Media Gateway	All

set mgp icc-monitoring

S8300

`set mgp icc-monitoring [enable | disable]`

Use `set mgp icc-monitoring [enable | disable]` to

Action/Object	Object	Qualifier	Qualifier Description	Login
`set`	`mgp icc-monitoring`	`enable` `disable`		

If S8300/LSP is expected to be present in slot v1 of the MG, the MGP can send a trap if the S8300/LSP heartbeat is not present. Use `set mgp icc-monitoring` to set the MGP to monitor or not monitor the S8300/LSP.

set mgp reset-times

`set mgp reset-times {[[total-search | primary-search] <minutes>] |`
`[transition-point <value>]}`

Example: `set mgp reset-times total-search 24`

Use `set mgp reset-times` to set the 3 timers that are used as part of the recovery process if the MG and MGC lose their connectivity. The timers are configuration dependant.

Action/ Object	Object	Qualifier	Qualifier Description	Login
`set`	`mgp reset-times`	`total-search` *`minutes`* `primary-search` *`minutes`* `transition-point` *`value`*	1-60 [30] minutes 1-60 [15] minutes entry number 1-10 [1]	Configure

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set qos bearer

`set qos bearer {bbedscp | efdscp | 802p | rtpmin | rtpmax} <value>`

Example: `set qos bearer bbedscp 43`

Use `set qos bearer` to set VoIP QoS bearer-related parameters for the MGP and VoIP engines.

Because the MGC and VoIP engines share the same setup, they are set to entered values only when `set qos control local` has been executed.

Action/ Object	Object	Qualifier	Qualifier Description	Login	Default
`set`	`qos bearer`	`bbedscp` *`value`* `efdscp` *`value`* `802p` *`value`* `rtpmin` *`value`* `rtpmax` *`value`*	`0-63 [43]` `0-63 [43]` `0-7 [6]` `1-65533 [2048]` `3-65535[65535]`	Configure	

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set qos control

```
set qos control [local | remote]
```

Use `set qos control` to define the source for QoS control parameters.

Action/Object	Object	Qualifier	Qualifier Description	Login
`set`	`qos control`	`local remote`	configure QoS values via the CLI QoS values come from the media gateway controller	Configure

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set qos rsvp

```
set qos rsvp {enable | disable | refresh <secs> | failure [retry |
noretry] | profile [guaranteed | controlled]}
```

Examples:
```
set qos rsvp enable
set qos rsvp refresh 15
set qos rsvp failure noretry
set qos rsvp profile controlled
```

Use `set qos rsvp` to set the current value(s) for the RSVP parameters of the VoIP engines. QoS source control setup must be `local` in order to `set qos rsvp`.

These settings WILL NOT take effect unless QoS source control setup is `local`.

Action/ Object	Object	Qualifier	Qualifier Description	Login	Default

`set`	`qos rsvp`	`enable`
		`disable`
		`refresh secs`
		`failure retry |`
		`noretry`
		`profile guaranteed`
		`profile controlled`
			
			1-99 [15]
			
			guaranteed service
			controlled load service
				Configure	

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set qos rtcp

```
set qos rtcp [enable | disable | monip <ipaddress> | reportper
<seconds> | listenport <portno>]
```

Examples:
```
set qos rtcp monip 132.123.23.12
set qos rtcp reportper 10
set qos rtcp listenport 5000
set qos rtcp enable
```

Use `set qos rtcp` to:

   l set RTCP parameters

   l enable or disable RTCP reporting capability

   l set the IP address of the monitor

   l set the reporting period

   l define the listening port number

Action/ Object	Object	Qualifier	Qualifier Description	Login
`set`	`qos rtcp`	`enable` `disable` monip `ipaddress` reportper `seconds` listenport portno	IP address of the monitor reporting period, 5-30 seconds) listening port number, 1-65535 [5005]	Configure

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set qos signal

```
set qos signal [dscp | 802q] <value>
```

Example: `set qos signal dscp 43`

Use `set qos signal` to set up QoS signaling parameters (DSCP, 802.1Q) for the Media Gateway Processor.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`set`	`qos signal`	`dscp value` `802q value`	0-63, [34] 0-7, [7]	Configure	

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set snmp trap

```
set snmp trap <ipaddress> [enable | disable]
[ { all| power| temp| app| module| config| voice| operations } ]
```

Example: `set snmp trap 132.236.73.3 enable`

Use `set snmp trap <ipaddress>` to:

ₗ set the IP address of the SNMP trap receiver that will receive the traps from this media gateway

ₗ set what group's traps are sent to the specified receiver

Up to 10 trap receivers can be configured.

Action/ Object	Object	Qualifier	Qualifier Description	Login

`set`	`snmp trap`	`<ipaddress>`
		
		 `enable | disable`
		 `all`
		 `power`
		 `temp`
		 `app`
		 `module`
		 `config`
		 `voice`
		 `operations`
			IP address of the trap receiver that will receive the designated trap(s)
			
			 enable or disable all traps for the receiver	

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set sync interface

```
set sync interface [primary | secondary] [<mmID>|<portID>]
```

Examples:`set sync interface primary v2`
`set sync interface secondary v403`

Use `set sync interface` to define a potential stratum clock source (E1/T1 MM, ISDN-BRI).

Action/ Object	Object	Qualifier	Qualifier Description	Login
set	**sync interface**	**primary secondary** *mmID* *portID*	normal failover overrides normal failover, generates a trap, and asserts a fault. Not stored in persistent storage media module ID of a MM stratum clock source For Avaya BRI MM720, *portID* is the mmID of the MM720 and the port number of the BRI port furnishing the source	Configure

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set sync source

`set sync source [primary | secondary | local]`

Use `set sync source` to:

  ₁ define the stratum clock source (E1/T1 MM, ISDN-BRI)

  ₁ unlock the referenced source and clear the alarm.

Action/ Object	Object	Qualifier	Qualifier Description	Login
set	**sync source**	**primary secondary**[*] **local**	normal failover override normal failover, generate a trap, assert a fault. Not stored in persistent storage. default	Configure

  *. If the secondary interface is not configured, the sync source set operation fails.

A source is automatically "locked out" after 5 incidents of switching sync to an alternate source (secondary or local). When the unstable source is locked out, a MINOR alarm and SNMP trap are raised.

Also use `show sync timing` to see that the source is locked out.

Sample output for set sync source -

```
MG-001-3(configure)# set sync source secondary

Operation Failed

Cannot set the secondary clock source
to be the active clock source
```

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set sync switching

set sync switching [enable | disable]

Use **set sync switching** to enable or disable automatic sync source switching from active source. This switching normally occurs when the active sync source has a detectable fault.

Use **set sync switching disable** to prevent the MGP from switching the sync source. Then, when you inject jitter on the line, it will not switch to another source, and you can look at the frame.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
set	**sync switching**	**enable disable**		All	

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set system contact

set system contact [<*string*>]

Example: **set system contact "Jon Smith"**

Use **set system contact** to set a contact name for the system. Leave empty to erase the current system contact name.

Action/ Object	Object	Qualifier	Qualifier Description	Login
set	**system contact**	*string*	name of the system 1 - 20 characters, use quotes if >= 2 words	All

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set system location

```
set system location [<string>]
```

Use `set system location` to set the name of the site location. Leave empty to erase the current location name.

Action/ Object	Object	Qualifier	Qualifier Description	Login
`set`	`system location`	*string*	name of the system 1 - 20 characters, use quotes if >= 2 words	All

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set system name

```
set system name [<string>]
```

Use `set system name` to set the system name. Leave empty to erase the current system name.

Action/ Object	Object	Qualifier	Qualifier Description	Login
`set`	`system name`	*string*	name of the system 1 - 20 characters, use quotes if >= 2 words	All

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set timeout | logout

See <u>set logout | timeout</u> on page 24

show csu loopbacks

```
show csu loopbacks [<mmID>]
```

Use `show csu loopbacks` to see the state of the server SAT-controlled CSU loopbacks for a specified media module.

Action/ Object	Object	Qualifier	Qualifier Description	Login
show	**csu loopbacks**	*mmID*	slot number where the CSU is installed, **v1** - **v4**	All

.Sample output for show csu loopbacks -

```
MG-001-3> show csu loopbacks v4
CSU LOOPBACK STATUS
 -------------------------------

Towards DTE port -
       Digital Diagnostic: OFF
Towards Network-
       Payload: OFF
       Line:    OFF
```

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show csu status

```
show csu status
```

For TI: Loss of Signal (LOS), Out-of-Frame (OOF), Excessive Error Rate (EER), Alarm Present (ALRM), Loss of Frame (LOF), Alarm Indication Signal (AIS), Yellow (YEL), Pulse Density Violation (PDV) Note: equates to "BPV", Looped (LOOPD).

For E1: Local Multiframe Alignment (LMA), Remote Multiframe Alignment (RMA), Loss of CRC Multiframe (LCM).

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**csu status**			All	

Sample output for show csu status -

```
MG-001-3> show csu status v4
T1 version of csu status:

CSU NETWORK INTERFACE STATUS
------------------------------
LOS: ON        OOF  : OFF
EER: OFF       LOOPD: OFF
AIS: OFF       PDV  : OFF
LOS: OFF       YEL  : ON

E1 version of csu status

CSU NETWORK INTERFACE STATUS
------------------------------

LOS: ON        OOF  : OFF
EER: OFF       LOOPD: OFF
AIS: OFF       PDV  : OFF
LOS: OFF       YEL  : ON
```

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show faults

`show faults [all]`

Use `show faults` to see all currently active faults, traps identified as such in the SNMP MIB fault masks. For G700 Release 2, additional key words are added to help filter the output.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`faults`			All	

Sample output for show faults -

```
MG-001-3> show faults

Currently Active Faults
=========================
PSU Fan
CPU temperature: Warning
```

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show hostname

`show hostname`

Use `show hostname` to see he current command line prompt string.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`hostname`			All	

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show interface

`show interface [mgp | {voip <mmID>}]`

Use `show interface` to see IP interface configurations.

Action/Object	Object	Qualifier	Qualifier Description	Login
`show`	`interface`	`mgp` `voip mmID`	media module ID of the VoIP engine `v1`-`v4` is a VoIP engine on a media module `v0`=motherboard No parameters = all defined interfaces	All

Sample output for show interface -

```
MG-001-3> show interface

OPERATIONAL STATE: -- Currently in use --

INTERFACE   SRC   VLAN   IP ADDRESS        NETMASK          MAC ADDRESS
---------   ---   ----   ---------------   --------------   -----------------
mgp         S     1      135.8.48.222      255.255.254.0    00-04-0D-02-06-68
voip-v0     S     1      135.8.48.223      255.255.254.0    00-04-0D-02-20-68

OPERATIONAL STATE: -- Pending reboot --

INTERFACE   SRC   VLAN   IP ADDRESS        NETMASK          MAC ADDRESS
---------   ---   ----   ---------------   --------------   -----------------
mgp         S     1      135.8.48.234      255.255.254.0    00-04-0D-02-06-68
voip-v0     S     1      135.8.48.223      255.255.254.0    00-04-0D-02-20-68
```

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show ip arp

```
show ip arp
```

Use `show ip arp` to see a list of ARP resolved MAC/IP addresses.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**ip arp**			All	

Sample output for show ip arp -

```
MG-001-3> show ip arp
LINK LEVEL ARP TABLE
IP Address     MAC Address          flags   Refcnt Use          Interface
-------------------------------------------------------------------------
127.1.1.31     00:00:50:09:bd:b     405     0      389          motfec0
135.8.48.1     00:30:6d:17:fc:2f    405     1      0            motfec0
135.0.40.220   00:00:50:09:bd:b     405     1      1119         motfec0
```

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show ip route

```
show ip route [mgp | static | voip <mmID>]
```

Use `show ip route` to see the contents of the IP routing table.

Action/ Object	Object	Qualifier	Qualifier Description	Login	Default
show	**ip route**	**mgp** **static** **voip** *mmID*	media module identification	All	

Sample output for show ip route mgp -

```
MG-001-3> show ip route mgp

DESTINATION    MASK             GATEWAY          INTERFACE   (F/C/U)
-------------- ---------------- ---------------- ----------  -----------
0.0.0.0        0.0.0.0          135.8.48.1       motfec0     (3/2/1894)
135.8.48.0     255.255.254.0    135.8.48.222     motfec0     (101/0/0)

MG-001-3> show ip route voip v0

DESTINATION    MASK             GATEWAY
-------------- ---------------- ---------------
0.0.0.0        0.0.0.0          135.8.48.1

DESTINATION    MASK             MASK
-------------- ---------------- ---------------
0.0.0.0        0.0.0.0          135.8.48.1
```

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show isdn bri link

show isdn bri link [*<mmID>*]

Use **show isdn bri link** to see the current status of all BRI links in the specified Media Module.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**isdn bri link**	*mmID*	Media Module ID	All	

Sample output for show isdn bri link -

```
MG-001-3> show isdn bri links {<mmID>}

LOCATION  TYPE     LINK ID    DLCI       SIDE STATE
--------  -------  ---------- ---------- ---- -----------
v4        BRI_BC   0x2001     0x07f      A    Link Up
          BRI_BC   0x4001     0x1ff      A    Link Up
          BRI_P2P  0x0080     0x0040     A    Recovery
```

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show isdn link summary

`show isdn link summary`

Use `show isdn link summary` to see a summary of all established links in the current Media Gateway.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`isdn link summary`			All	

Sample output show isdn link summary -

```
MG-001-3> show isdn link summary

LOCATION  TYPE    NO. OF LINKS UP
--------  ------- ---------------
v2        PRI_P2P 1
v4        PRI_BC  2
          BRI_P2P 1
```

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show isdn pri link

`show isdn pri link <mmID>`

Example:

Use `show isdn pri link` to see the current status of all PRI links in the specified Media Module.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`isdn pri link`	*mmID*	Media Module ID	All	

Sample output for show isdn pri link -

```
MG-001-3> show isdn pri links v2

LOCATION  TYPE    LINK ID    DLCI        SIDE  STATE
--------- ------- ---------- ----------- ----- --------
v2        PRI_P2P 0x2001     0x07f       B     Link Up
```

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show logout | timeout

`show [logout | timeout]`

Use `show logout | timeout` to see the auto-logout time, which is the administered value of the terminal inactivity timer. Either logout or timeout can be used.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**logout timeout**			All	

Sample output for show logout | timeout -

```
MG-001-3> show logout

CLI logout is 15 minutes
```

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show mediaserver

`show mediaserver`

Use `show mediaserver` to see the contents of the Server Table, which associates a SAT IP address and port, and a TELNET IP address and port, with the Server IP addresses specified in the MGC list.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**mediaserver**			All	

Sample output for show mediaserver -

```
MG-001-3> show mediaserver

MGC IP ADDRESS    SAT IP ADDRESS    SAT PORT   SERVER IP ADDRESS   SERVER PORT
128.256.173.167  128.256.173.168   5023       128.256.173.128         23
174.144.134.114  174.144.134.104   5023       174.144.134.124         23
115.126.117.118  115.126.117.119   5023       115.126.117.128         23
135.108.165.7    135.108.165.77    5023       135.108.117.128         23
```

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show mgc

`show mgc`

Use `show mgc` to see the currently active Media Gateway Controller state and setup parameters.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`mgc`			All	

Sample output for show mgc -

```
MG-001-3> show mgc

CALL CONTROLLER STATUS
-------------------------------------------------
Registered         : YES
Active Controller  : 135.8.48.220
H248 Link Status   : UP
H248 Link Error Code: 0x0
MGC List Management : Static

CONFIGURED MGC HOST
---------------------
135.8.48.220
--Not Available-
--Not Available-
--Not Available-
```

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show mg list_config

`show mg list_config`

Use `show mg list_config` to see specifications of the installed Media Gateway equipment, including current hardware and firmware configurations.

Also use `list config media-gateway` on the SAT to see similar information.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`mg list_config`			All	

Sample output for show mg list_config -

```
MG-001-3> show mg list_config

SLOT TYPE    CODE   SUFFIX HW VINTAGE FW VINTAGE  VOIP FW
---- ------  -----  ------ ---------- -----------  -------
v0   G700    DAF1   A      00         100(B)       58
v1   ICC     S8300  A      72         86           N/A
v2   DCP     MM712  A      1          56           N/A
v3      --Not Installed--
v4   DS1     MMy10  A      2          55           N/A
```

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show mgc list

show mgc list

Use **show mgc list** to list available MGCs and their respective IP addresses.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**mgc list**			All	

Sample output for show mgc list -

```
MG-001-3> show mgc list

CONFIGURED MGC HOST
--------------------
135.8.48.220
-- Not Available --
-- Not Available --
-- Not Available --
```

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show mgp bootimage

show mgp bootimage

Use **show mgp bootimage** to see which flash memory bank the next boot will occur from, and which image will become active on the next mgp boot.

Use **set mgp bootimage [a | b]** to define flash memory bank for the next boot, **a** or **b**.

Use `show mg list_config` to see the currently running image source.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**mgp bootimage**			All	

Sample output for set mgp bootimage -

```
MG-001-3> show mgp bootimage

FLASH MEMORY      IMAGE VERSION
-------------     --------------
Bank A            100
Bank B            100


ACTIVE NOW        ACTIVE AFTER REBOOT
------------      --------------------
Bank B            Bank B
```

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show mgp icc-monitoring

S8300

`show mgp icc-monitoring`

Use `show mgp icc-monitoring` to see the current state of the S8300 monitoring watchdog, enabled or disabled.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**mgp icc-monitoring**			All	

Sample output for show mgp icc-monitoring -

```
MG-001-1> show mgp-icc monitoring

ICC Monitoring Status: Disabled
```

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show mgp recovery

`show mgp recovery`

Use `show mgp recovery` to see the configured values associated with the monitoring **Action/Objects** of and recovery parameters used by the MGP.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`mgp recovery`			All	

Sample output for show mgp recovery -

```
MG-001-3> show mgp recovery

MGP RECOVERY TIMES
-------------------------------
Primary Search  : 2
Total Search    : 30
Transition Point: 1
```

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show mm

`show mm [<mmID>]`

Use `show mm` to see G700 media module information, including:

 l type(s) of Media Modules installed on the Media Gateway

 l serial numbers of Media Modules installed on the Media Gateway

 l SNMP MIB Media Module "cmgModule…" group

 l an interpretation of the MM's fault mask (faults field)

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`mm`	*mmID*	Media Module ID blank = all media modules	All	

Sample output show mm -

```
MG-001-3> show mm v2

MEDIA MODULE DESCRIPTION: v2
------------------------------------------------
Type        : DS1
Description : E1T1 Media Module
Serial Number: 01DR10387865
HW Vintage  : 2
HW Suffix   : A
FW Version  : 55
No. of Ports : 1
Faults      : No Fault Messages

This is an ACP controlled Media Module, check
the ACP for additional status information.
```

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show post

`show post`

Use `show post` to see the results of the Power On Self Test (POST) for the G700 Media Gateway Firmware.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`post`				

Sample output for show post -

```
MG-001-3> show post

NCE0 DIAGNOSTICS                        NCE1 DIAGNOSTICS
------------------------                ------------------------

NCE Reset             PASS              NCE Reset             PASS
Internal RAM          PASS              Internal RAM          PASS
F1F0 Loop Around      PASS              F1F0 Loop Around      PASS
Internal CH Loopback  PASS              Internal CH Loopback  PASS
TDM Bus Master LB     PASS              TDM Bus Master LB     PASS
External CH Loopback  PASS              External CH Loopback  PASS

DSP DIAGNOSTICS                         SPITFIRE DIAGNOSTICS
------------------------                ------------------------

DSP Memory            PASS              FIFOs                 PASS
DSP Memory Download   PASS              SPI Loopback          PASS
DSP Checksum          PASS

ENV DIAGNOSTICSS                        MISC DIAGNOSTICS
------------------------                ------------------------
Fan #1                PASS              Ethernet Local LB     PASS
Fan #2                PASS              Ethernet Phys LB      PASS
Fan #3                PASS              HDLC                  PASS
Fan #4                PASS              Port I/O Read         PASS
Main Power Supply     PASS
Aux Power Supply      PASS
ADC                   PASS
```

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show qos-rtcp

qos-rtcp

Use **qos-rtcp** to see the locally configured and downloaded QoS parameters.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**qos-rtcp**			All	

Sample output for show qos-rtcp -

```
MG-001-3> show qos-rtcp
PARAMETERS IN EFFECT: --Downloaded --

QOS PARAMETERS          LOCALLY SET       DOWNLOADED
--------------------    -------------     --------------
Signal 802 Priority:    7                 7
Signal DSCP      :      34                34
Bearer 802 Priority:    6                 6
Bearer BBE DSCP   :     43                43
BEarer EF DSCP    :     46                46
Minimum RTP Port  :     2048              2048
Maximum RTP Port  :     65535             65535


RSVP PARAMETERS         LOCALLY SET       DOWNLOADED
--------------------    -------------     --------------
State            :      Enabled           Enabled
Retry on Failure :      Yes               Yes
Refresh Rate(secs) :    15                15
Service Profile   :     Guaranteed        Guaranteed


RTCP MON PARAMETERS     LOCALLY SET       DOWNLOADED
--------------------    -------------     --------------
State            :      Enabled           Enabled
IP Address       :      0.0.0.0           0.0.0.0
Listening Port   :      5005              5005
Report Period(secs):    5                 30
```

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show restart-log

`show restart-log`

Use `show restart-log` to retrieve raw restart data.

The MGP creates a log of 'reasons for restart' stored in flash memory that is different than the trap log. The trap log might not contain a restart entry if the logging process was non-functional during an insanity cycle. This command retrieves raw restart data.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**restart-log**			All	

Sample output for show restart-log -

```
MG-001-3> show restart-log
RESET ID MM/DD-hh:mm:ss.hs STR
----- ---------------------------------------------------------------------
0000000596 02/02-19:33:38.67 User reboot
0000000595 02/02-19:33:31.67 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
0000000594 02/01-21:35:13.08 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
0000000593 02/01-20:02:20.55 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
0000000592 02/01-19:50:55.88 User reboot
0000000591 02/01-19:50:41.88 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
0000000590 02/01-13:32:16.36 User reboot
0000000589 02/01-13:32:09.36 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
0000000588 01/31-12:53:01.67 User reboot
0000000587 01/31-12:52:54.67 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
0000000586 01/31-08:04:27.94 User reboot
0000000585 01/31-18:04:20.94 MSY-TRPCRINO-0042 REBOOT from Recovery-Engine
Utilty::reboot()
```

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show snmp

show snmp

Use **show snmp** to see the community strings and trap targets for each configured trap receiver, one page per trap receiver.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**snmp**			All	

Sample output for show snmp -

```
MG-001-3> show snmp
COMMUNITY ACCESS      COMMUNITY STRING
----------------      ----------------
read-only             public
read-write            public
trap                  public

TRAP RECEIVER      RECEIVER STATUS      TRAP ENABLED
------------       -----------------    ------------------
11.3.4.5           Enabled              P,T,M,C,O,A
11.3.4.6           Enabled              P,T,M,C,O,A

TRAP CODE/NAMES REFERENCE
---------------------------------
P-Power   T-Temp    A-Application
M=Module  C=Config  O=Operations
V=Voice
```

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show rtp-stat detailed

show rtp-stat detailed

Use **show rtp-stat detailed** on an H.248 gateway to see that SRTP is being used in a given RTP session.

show sync timing

`show sync timing`

Use `show sync timing` to see the status of the primary, secondary, and the local clock sources.

Status can be:

- **Active**
- **Standby**
- **Not Configured** when the clock source has not been defined, as in when there are no T1 cards installed.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`sync timing`			All	

Sample output for show sync timing -

```
MG-001-3> show sync timing

SOURCE      MM    STATUS          FAILURE
---------   ----  --------------  ---------------
Primary           Not Configured
Secondary         Not Configured
Local       v0    Active          None
```

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show system

`show system`

Use `show system` to see the uptime, system name, system location, and contact name for the system.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`show`	`system`			All	

Sample output for show system -

```
MG-001-1 <super># show system

Uptime<d,h:m:s>: 01, 01:07:57

System Name    : --Empty --
System Location: --Empty --
System Contact : --Empty --
MAC Address    : 00-04-0D-02-06-CA
Serial No      : 01DR12310260
Model No       : G700
HW Vintage     : 00
HW Suffix      : A
FW Vintage     : 20.15.0

Media Gateway Power Supplies
                VOLTAGE<V> ACUTAL<V>  STATUS
                ---------- ---------- -----------
DSP Complex     3.4        3.380      OK
MGP             5.1        5.090      OK
Media Modules   -48.0      -47.990    OK
VoIP DSP        1.0        1.570      OK
VoIP CPU        2.5        2.480      OK
```

If VoIP CPU is 8260, Voltage is 2.5. If CPU is 8270, Voltage is 1.5.

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show temp

show temp

Use **show temp** to see the current temperature of the CPU and DSP complex in degrees Celsius and the thresholds for warning and shutdown.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**temp**			All	

Sample output for show temp -

```
MG-001-3> show temp
CPU                             DSP
-----------------------         -------------------------
Temperature:        22C         Temperature:        21C
Warning   :         52C         Warning   :         52C
Shutdown  :         60C         Shutdown  :         60C
```

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show tftp status

```
show tftp [download | upload] [software {<mmID>} | config] status
```

Example: `show tftp download mg013.sft status`

Use `show tftp status` to see the status of the current TFTP file copy process into/from the device.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default

`show`	`tftp status`	`download`
		`upload`
		`software`
		`mmID`
		`config`
			
			Media Module ID
				All	

Sample output for show tftp download status -

```
MG-001-3> show tftp download mg013.sft status

TFTP Status
------------------------------------------------
Module          : MGP
Source File     : mg01_3.com
Destination File: BANK B
Host            : 0.0.0.0
Running State   : idle
Last Failure    : No Error
Last Warning    : (null)
Progress        : [0/0]   0%
```

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show timeout | logout

show voip-parameters

```
show voip-parameters [<mmID>]
```

Use `show voip-parameters` to see information on the specified VoIP engine, including:

- ₁ MAC address
- ₁ static/DHCP IP addresses
- ₁ RTP port
- ₁ whether the VoIP engine setup is controlled via DHCP

Action/ Object	Object	Qualifier	Qualifier Description	Login
show	**voip-parameters**	*mmID*	Media Module ID blank = motherboard VoIP engine	All

Sample output for show voip-parameters -

```
MG-001-1 <super># show voip-parameters

VOIP ENGINE PARAMETERS
----------------------------------------------------------------
Slot Number        : v0
Current IP Address : 135.9.41.119
Static IP Address  : 135.9.41.1119
DHCP Used          : No
DSP Firmware Version: 12
MAC Address        : 00-04-0D-02-20-CA
Fault Status       : No Fault Messages
Additional Status  : No Status Messages


CURRRENT STATE
-----------------------------------------------------------
In Use     : 0 channels, 0 of 64 resources
DSPs State : Idle
Admin State: Release
```

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show voltages

show voltages

Use **show voltages** to see the status of power supply voltages, and whether the voltage is within predefined limits.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
show	**voltages**			All	

Sample output for show voltages -

```
MG-001-3# show voltages

               VOLTAGE(V)  ACTUAL(V)  STATUS

DSP Complex    3.4         3.369      OK
MGP            5.1         5.090      OK
Media Modules  -48.0       -47.990    OK
VoIP DSP       1.6         1.590      OK
VoIP CPU       2.5         2.190      OK
```

If VoIP CPU is 8260, Voltage is 2.5. If CPU is 8270, Voltage is 1.5.

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tech

tech

Use **tech** to change to the tech mode where additional tech-related commands are available.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
tech				Privileged	

Sample output for tech -

```
MG-001-3# tech
Password:

MG-001-3(tech)#
```

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telnet

```
telnet [<hostname] [<port-number>]
```

Example: `telnet 135.9.41.121`

Use `telnet` to initiate a login session via TELNET to a network host.

Action/Object	Object	Qualifier	Qualifier Description	Login
`telnet`		`hostname` `port-number`	IP address of the target host TELNET port number, 23 is the default	All

Sample output for telnet -

```
MG-001-3# telnet 135.9.41.121

login:
```

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terminal length

```
terminal length [<lines>]
```

Use `terminal length` to set the terminal length, expressed in the number of lines per screen. If blank, shows the current terminal length.

Action/ Object	Object	Qualifier	Qualifier Description	Login	Default
`terminal length`		`lines`	terminal length measured in lines per screen, 3-200 [24] If blank, shows the current terminal length	All	24

Sample output terminal length -

```
MG-001-3> terminal length 24

MG-001-3> terminal length

terminal length: 24
```

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terminal width

```
terminal width  [<chars>]
```

Use **terminal width** to set the terminal width in characters. If blank, shows the current terminal width.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
terminal width		*chars*	terminal width in characters, 10-200 [80] If blank, shows the current terminal width.	All	80

Sample output terminal width -

```
MG-001-3> terminal width 80

MG-001-3> terminal width

terminal width: 80
```

test led

```
test led
```

Use **test led** to illuminate the box-level LED on the Media Gateway.

Communication Manager controls the LEDs on the Media Modules, and the Layer 2 Switching Processor controls the others. The LED self-extinguishes.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
test	**led**			All	

Sample output for test led -

```
MG-001-3> test led

Box-level LED should be ON for 5 seconds.
```

traceroute mgp

`traceroute mgp <ipaddress>`

Use **`traceroute mgp`** to diagnose IP routing and network performance. Output includes:

- � TTL
- � address of the gateway
- ⎯ round trip time (in milliseconds) for each of 3 probes

`traceroute mgp` is useful for locating slow routers and for finding IP routing problems.

Action/Object	Object	Qualifier	Qualifier Description	Login
`traceroute`	**`mgp`**	*`ipaddress`*	IP address of the targeted host	All

Sample output for traceroute -

```
MG-001-1 <super># traceroute mgp 135.9.1.76

traceroute to 135.9.1.76 (135.9.1.76): 30 hops max, 16 data bytes
1   135.8.48.1 (135.8.48.1)  5 ms   0 ms   5 ms
2   135.8.2.1 (135.8.2.1)  0 ms   0 ms   5 ms
3   198.152.3.35 (198.152.3.35)  0 ms   5 ms   0 ms
4   198.152.8.22 (198.152.8.22)   55 ms   55 ms   50 ms
5   198.152.2.134 (198.152.2.134)   45 ms   45 ms   50 ms
6   135.9.3.105 (135.9.3.105)   45 ms   45 ms   45 ms
7   135.9.1.76 (135.9.1.76)   45 ms   *   45 ms
```

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tree

`tree`

Use **`tree`** to see an alphabetical list of the commands in the CLI hierarchy available at your location.

Action/Object	Object	Qualifier	Qualifier Description	Login	Default
`tree`				All	

Sample output for tree -

```
MG-001-3> tree

clear screen
session
show dhcp
show interface
terminal length
terminal width
```

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