



MML Commands

This appendix describes the following MML commands:

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ack-alm

The **ack-alm** command acknowledges that an alarm event is recognized but does not clear the alarm.

ack-alm:event=*alarm event*

Syntax Description

<i>alarm event</i>	The alarm category or the text that appears in the body of the alarm. Alarm event names are defined in Chapter 6, “Cisco HSI Alarms and Troubleshooting.”
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Usage Guidelines

The format of the alarm category name must be the same as the format of the alarm category name that the **rtrv-arms** command displays. It is case sensitive.

Examples

This example recognizes the **VSC_FAILURE** alarm event but does not clear the alarm:

```

gw mml> ack-alm:event=VSC_FAILURE

GW Signaling Interface    2000-12-05 14:19:22
M   SUCC

mml>

```

Related Commands

Command	Description
clr-alm	Clears an alarm event
rtrv-arms	Displays all active alarms.

clr-alm

The **clr-alm** command clears an alarm event.

clr-alm:event=alarm event

Syntax Description	<i>alarm event</i>	The alarm event name or the text that appears in the body of the alarm. Alarm names are defined in Chapter 6, “Cisco HSI Alarms and Troubleshooting.”
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Usage Guidelines The alarm category must match the format shown in the alarm when the **rtrv-arms** command displays it. It is case sensitive.

Examples This example clears the alarm event **VSC_FAILURE**.

```

gw mml> clr-alm:event=VSC_FAILURE

GW Signaling Interface    2000-12-05 14:19:22
M   SUCC

mml>

```

Related Commands	Command	Description
	ack-alm	Acknowledges that an alarm event is recognized but does not clear the alarm.
	rtrv-arms	Displays all active alarms

clr-meas

The **clr-meas** command resets a measurement counter.

clr-meas:counter group:name=measurement name

clr-meas:counter group

Syntax Description	<i>counter group</i>	Valid counter groups are: <ul style="list-style-type: none"> • RAS • Q931 • H245
	<i>measurement name</i>	For a list of measurement names, see Table 4-1 , Table 4-2 , and Table 4-3 .

Examples

This example resets a measurement counter GK_DISC_ATT_TOT (Gatekeeper Discovery Attempts) in the counter group RAS.

```
gw mml> clr-meas:RAS

GW Signaling Interface    2000-12-05 14:19:22
M   SUCC
mml>

mml> clr-meas:RAS:name=GK_DISC_ATT_TOT

GW Signaling Interface    2000-12-05 14:19:22
M   SUCC
```

Related Commands

Command	Description
rtrv-ctr	Displays the measurements for a counter group.

diaglog

The **diaglog** command starts and stops event logging into a diagnostics log.

diaglog:*file name:start | stop*

Syntax Description

<i>file name</i>	The user-defined name of the log file. The actual file name has a .log suffix applied. The file is located in the logging directory defined in the configuration data (see Chapter 5, “Provisioning the Cisco HSI”).
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Examples

This example starts event logging into a diagnostics log named **test5**.

```
gw mml> diaglog:test5:start
test5_davek15823_20010130053323.log
```

In this example, davek is the user who runs the command, and 15823 is the process ID of the MML process from which the command is run.

Related Commands

Command	Description
radlog	Starts and stops RADVision logging into a specified log file.
rtrv-log	Displays the logging level of a package or all packages.
set-log	Sets the logging level of a package or all packages.

h

The **h** command redisplay a command or a series of commands, depending on a specified number or range. If no number is specified, only the last command is displayed.

h[::start=*number*[,end=*number*]]

Syntax Description	start	Entered as a number; specifies the first command to redisplay.
	end	Entered as a number; specifies the end of the range of commands to redisplay.

Examples

The MML command in the following example displays the last successful command entered:

```
mml> h
VSC H-323 Signaling Interface - H323-GW1 2000-06-20 10:04:28
M RTRV
  "rtrv-log:all"
  /* command 1 */
```

The MML command in the following example displays the third previous successful command entered:

```
mml> h::3
VSC H-323 Signaling Interface - H323-GW1 2000-06-20 10:04:28
M RTRV
  "rtrv-ne"
  /* command 3 */
```

The MML command in the following example displays the first and second previous commands entered.

```
mml> h::start=1,end=2
VSC H-323 Signaling Interface - H323-GW1 2000-06-20 10:04:28
M RTRV
  "rtrv-log:all"
  /* command 1 */
  "rtrv-ne"
  /* command 2 */
```

help

The help command displays a list of valid system commands and an explanation of their use. If you do not enter a command name as a parameter, the **help** command provides a list of MML commands, descriptions, and values. If you enter a command name as a parameter, a description of that command displays.

help[:*command name*]

Syntax Description	<i>command name</i>	The name of the MML command.
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Examples

The command shown in the following example displays help for a specific command:

```
mml> help:rtrv-ctr
H323 Signalling Gateway  Tue Feb 12 19:09:58 2002
M SUCC

RTRV-CTR -- Display the measurements for a counter group
-----

Purpose:      This MML command displays a measurement counter for a counter group

Format:      rtrv-ctr:<counter group>
```

Description: * counter group -- The name of an MML counter group (RAS, Q931 or H245)

Example: The MML command shown in the following example displays measurement counters for the counter group RAS.

```
mml> rtrv-ctr:ras;
      GW Signalling GateWay 2000-12--5 14:19:32
M RTRV
"H323-GW1:GROUP=RAS,NAME=\"GK_DISC_ATT_TOT\",VAL=1000"
"H323-GW1:GROUP=RAS,NAME=\"GK_REG_ATT_TOT\",VAL=1000"
"H323-GW1:GROUP=RAS,NAME=\"GK_REG_SUCC_TOT\",VAL=1000"

mml>
```

If you enter the help command without a parameter, the help file displays information about all available commands. The following example shows a portion of the help file that displays if you do not enter a parameter:

```
mml> help

VSC H323 signaling interface - H323-GW1 2000-06-20 10:04:28
M RTRV
Available commands (in alphabetical order):
ack-alm:"<alm cat>" Acknowledges an alarm category on a component
clr-alm:"<alm cat>" Clears an alarm category on a component
clr-meas:"<meas cat>" Resets a measurement category on a component
diaglog:<file name>:START|STOP Starts/stops diagnostics log
h[:<number>[,<number>]] Displays a history of commands for a specified backward number or
range; the last command by default
help[:<command name>] Displays the list of MML commands or the help information on a
specified command
prov-add:name=<MML name>,<param name>=<param value>,... Adds the component
prov-cpy Commits provisioning data
prov-dlt:name=<MML name> Deletes the component
```

prov-add

The **prov-add** command adds a component to the Cisco H.323 Signaling Interface (HSI).

prov-add:name=MML name,param name=param value,...

Syntax Description	MML name	MML name for the element you are adding. Valid MML names are:
		<ul style="list-style-type: none"> • sys_config_static • sys_config_dynamic • h323_sys • ras • h245 • q931
	<i>param name</i>	The name of a valid configuration parameter for the specified name.
	<i>param value</i>	The value you want to assign to the parameter.

Usage Guidelines

To define more than one parameter, enter additional *param name=param value* descriptions on the command line. See [Chapter 5, “Provisioning the Cisco HSI,”](#) for the list of MML names, parameter names, and their associated values.

Examples

The command shown in the following example adds a provisioning element with the MML name `ras`, parameter name `maxFail`, and value `3`.

```
gw mml> prov-add:name=ras,maxfail=3
H323 Signaling Interface Sun Jan 7 15:15:02 2001
M SUCC
Successfully added provisioning element(s):
MML Name : ras.
Parameter: maxFail.
Value : 3.
```

Related Commands

Command	Description
prov-cpy	Activates the configuration settings in the current provisioning session.
prov-dlt	Deletes a provisioned component.
prov-ed	Modifies a provisioned component.
prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
prov-rtrv	Retrieves information about an existing provisioning session.
prov-sta	Establishes a provisioning session.
prov-stp	Terminates either a specified or the current provisioning session.

prov-cpy

The **prov-cpy** command copies configuration settings from the current provisioning session to the Cisco HSI to activate the configuration. If this command is successful, it terminates the current provisioning session. If this command fails, there is no active provisioning session. If any client level parsing fails during the data session, a **confirm** is needed for the data to be activated.

prov-cpy[:confirm]

Syntax Description

confirm	If any client level parsing fails during the data session, a confirm is needed for the data to be activated.
----------------	---

Examples

The command shown in the following example copies the configuration changes from the current session to the Cisco HSI.

```
gw mml> prov-cpy
H323 Signaling Interface Sun Jan 7 13:53:42 2001
M SUCC
Successfully activated the provisioning session.
```

Usage Guidelines See [Chapter 5, “Provisioning the Cisco HSI,”](#) for a list of MML names, parameter names and their associated values.

Related Commands	Command	Description
	prov-add	Adds a component.
	prov-dlt	Deletes a provisioned component.
	prov-ed	Modifies a provisioned component.
	prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
	prov-rtrv	Retrieves information about an existing provisioning session.
	prov-sta	Establishes a provisioning session.
	prov-stp	Terminates either a specified or the current provisioning session.

prov-dlt

The **prov-dlt** command deletes a provisioned component. This command allows you to delete a parameter rather than deleting the MML group.

prov-dlt:name=MML name

prov-dlt:name=MML name,param=param name

prov-dlt:name=MML name param name

Syntax Description	<i>MML name</i>	MML name for the element you are deleting. Valid MML names are:
		<ul style="list-style-type: none"> • sys_config_static • sys_config_dynamic • h323_sys • ras • h245 • q931
	<i>param name</i>	The name of a valid configuration parameter for the specified name.

Usage Guidelines See [Chapter 5, “Provisioning the Cisco HSI,”](#) for a list of MML names, parameter names, and their associated values.

Examples The MML command in the following example deletes the **ras** element:

```
gw mml> prov-dlt:name=ras
H323 Signaling Interface Sun Jan 7 14:13:05 2001
M SUCC
Successfully deleted provisioning data for ras
```


The MML command in the following examples delete the **maxCalls** parameter of the **ras** element:

```
gw mml> prov-dlt:name=ras,param=maxCalls
gw mml> prov-dlt:name=ras,maxCalls
H323 Signaling Interface Sun Jan 7 14:46:01 2001
M SUCC
Successfully deleted provisioning data for ras:maxCalls
```

Related Commands

Command	Description
prov-add	Adds a component.
prov-cpy	Activates the configuration settings in the current provisioning session.
prov-ed	Modifies a provisioned component.
prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
prov-rtrv	Retrieves information about an existing provisioning session.
prov-sta	Establishes a provisioning session.
prov-stp	Terminates either a specified or the current provisioning session.

prov-ed

The **prov-ed** command modifies a provisioned component.

prov-ed:name=MML name,param name=param value,...



Note Enter only those parameters that must be modified.

Syntax Description

<i>MML name</i>	MML name for the element you are modifying. Valid MML names are: <ul style="list-style-type: none"> • sys_config_static • sys_config_dynamic • h323_sys • ras • h245 • q931
<i>param name</i>	The name of a valid configuration parameter for the specified name.
<i>param value</i>	The value you want to assign to the parameter.

Usage Guidelines

To change more than one parameter, enter additional *param name=value* descriptions on the command line. See [Chapter 5, “Provisioning the Cisco HSI,”](#) for a list of MML names, parameter names, and their associated values.

Examples

Use the MML command shown in the following example to edit a provisioning element with the MML name `ras`, parameter name `maxFail`, and value `7`:

```
gw mml> prov-ed:name=ras,maxfail=7
H323 Signaling Interface Sun Jan 7 15:22:02 2001
M SUCC
Successfully edited provisioning element(s):
MML Name : ras.
Parameter: maxFail.
Value : 7.
```

Related Commands

Command	Description
prov-add	Adds a component.
prov-cpy	Activates the configuration settings in the current provisioning session.
prov-dlt	Deletes a provisioned component.
prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
prov-rtrv	Retrieves information about an existing provisioning session.
prov-sta	Establishes a provisioning session.
prov-stp	Terminates either a specified or the current provisioning session.

prov-exp

The **prov-exp** command exports the current provisioned configuration of the Cisco HSI in MML command form to a file. This configuration file allows a system to be primed with a cloned configuration from an existing system or to be restored to a baseline configuration. You can use the MML batch feature to import the exported data.

Start a dummy provisioning session with the **prov-sta** command before you use the **prov-exp** command.

```
prov-sta:srcver=active, dstver=dummy1
```

```
prov-exp:dirname=export directory name
```

```
prov-stp
```

Syntax Description

<i>export directory name</i>	Name of the directory to which the data is exported. This directory is a subdirectory within the <code>/opt/GoldWing/export</code> directory established at installation.
------------------------------	---

Examples

The MML command shown in the following example saves the active file as `config.mml` to the `export/uk9/` directory:

```
gw mml> prov-exp:dirname=uk9
H323 Signaling Interface Sun Jan 7 14:29:11 2001
M SUCC
Successfully exported "active" to export/uk9/config.mml
```

The UNIX command shown in the following example executes MML in batch mode and imports the configuration file that was exported in the previous example:

```
mm1> -b /opt/GoldWing/currentGW/export/uk9/config.mml
```

Related Commands	Command	Description
	prov-add	Adds a component.
	prov-cpy	Activates the configuration settings in the current provisioning session.
	prov-dlt	Deletes a provisioned component.
	prov-ed	Modifies a provisioned component.
	prov-rtrv	Retrieves information about an existing provisioning session.
	prov-sta	Establishes a provisioning session.
	prov-stp	Terminates either a specified or the current provisioning session.

prov-rtrv

This command retrieves information about an existing provisioning session.

prov-rtrv:name=*MML name*

prov-rtrv:all

prov-rtrv:session

prov-rtrv:list



Note

The **prov-rtrv:list** command is the only **prov-rtrv** command that can be executed outside of a provisioning session. The other **prov-rtrv** commands must be executed within a provisioning session. Use the **prov-sta** command to start a provisioning command.

Syntax Description	name	The MML name for the elements that you want to display.
	<i>MML name</i>	The MML component name for the component you want to display. Valid MML names are: <ul style="list-style-type: none"> • sys_config_static • sys_config_dynamic • h323_sys • ras • h245 • q931
	all	Displays all components that have been provisioned.

session	Displays information about the provisioning session.
list	Provides a list of possible session names that you can use as the srcver parameter to prov-sta:srcver=uk9,dstver=uk10.

Usage Guidelines

See [Chapter 5, “Provisioning the Cisco HSI,”](#) for a list of MML names, parameter names and their associated values.

Examples

The MML command shown in the following example displays information about the MML name ras:

```
gw mml> prov-rtrv:name=ras
H323 Signaling Interface Sun Jan 7 14:46:01 2001
M SUCC
MML Name : ras.
Parameter: maxFail.
Value : 33.
```

The MML command shown in the following example displays information about the MML session:

```
gw mml> prov-rtrv:session
H323 Signaling Interface Sun Jan 7 14:46:01 2001
M RTRV
Session ID = mml 6 | davek
SRCVER = uk9
DSTVER = inter
```

```
gw mml> prov-rtrv:list
H323 Signaling Interface Sun Jan 7 14:46:01 2001
M RTRV
```

The following provisioning sessions are available:
uk9 matt inter
gw mml>

Related Commands

Command	Description
prov-add	Adds a component.
prov-cpy	Activates the configuration settings in the current provisioning session.
prov-dlt	Deletes a provisioned component.
prov-ed	Modifies a provisioned component.
prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
prov-sta	Establishes a provisioning session.
prov-stp	Terminates either a specified or the current provisioning session.

prov-sta

The **prov-sta** command establishes a provisioning session. The data files are copied from the source version to the destination version.

prov-sta::srcver=version,dstver=version

Syntax Description

srcver=version	Selects a specific configuration version as the source for configuration changes. The srcver variable represents a directory that exists in \$GWBASE/var/prov/. In place of the configuration version, you can also enter: <ul style="list-style-type: none"> new—Specifies a new default session configuration; no existing source configuration is used. active—Selects the active configuration as the source for configuration changes.
dstver=version	Specifies the output version directory for the configuration session results. The dstver variable represents a directory stored in \$GWBASE/var/prov/.

Usage Guidelines

If the source and destination filenames are the same, the new configuration overwrites the old configuration. It is a good practice to copy an existing configuration instead of overwriting it so that you can return to a known configuration if there are problems with the new one.

If the source provisioning session has not been verified, the message “Note: This provisioning session has not been verified” is displayed, but the session starts normally.

If you try to start with a provisioning session that does not exist, an error is displayed along with a list of available sessions.

Examples

The MML command in the following example starts a provisioning session named **nowt** and creates a new configuration named **blah**:

```
gw mml> prov-sta::srcver=nowt,dstver=blah
H323 Signaling Interface Sun Jan 7 13:32:07 2000
M DENY
The provisioning session called "nowt" does not exist.
The following configurations are available:
sanfran2 uk9 final
telco mgcpvia miki
transit dave matt
```

The MML command in the following example starts a provisioning session and creates a new configuration named **ver1**:

```
gw mml> PROV-STA::SRCVER="new", DSTVER="ver1"
H323 Signaling Interface Sun Jan 7 13:32:07 2001
M SUCC
Successfully started provisioning session "ver1" from "new".
```

The MML command in the following example starts a provisioning session, opens the existing configuration named **ver1**, and overwrites that configuration:

```
gw mml> PROV-STA::SRCVER="ver1", DSTVER="ver1"
```

The MML command shown in the following example starts a provisioning session, opens the existing configuration named **ver1**, and saves the updated configuration as **ver2**:

```
gw mml> PROV-STA::SRCVER="ver1", DSTVER="ver2"
```

Related Commands

Command	Description
prov-add	Adds a component.
prov-cpy	Activates the configuration settings in the current provisioning session.
prov-dlt	Deletes a provisioned component.
prov-ed	Modifies a provisioned component.
prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
prov-rtrv	Retrieves information about an existing provisioning session.
prov-stp	Terminates either a specified or the current provisioning session.

prov-stp

The **prov-stp** command terminates the provisioning session and saves the configuration.



Note

This command does not activate the new configuration. Use the **prov-cpy** command to activate the configuration. You must also add **confirm** to the **prov-stp** command to successfully complete it.

prov-stp:confirm

prov-stp:session name:confirm

Syntax Description

session name	Use the rtrv-mml command to retrieve the MML name given to the MML process that started the provisioning session.
confirm	If no confirm option is entered, the command is rejected and a message notifies you of the potential performance impact of this command.

Usage Guidelines

You can use the name given to an MML session to stop a provisioning session. Each MML session (not Telnet) gets an MML name: for example, mml1 or mml2. The maximum number of allowable MML sessions is 12.

If you log in to the Cisco HSI from an MML session and start a provisioning session (for example, gw mml> **prov-sta:srcver=new,dstver=uk9**), you can use the MML name (for example, mml2) to stop the session with **prov-stp** (for example, **prov-stp:mml2:confirm**).

Use the **rtrv-mml** command to display all active MML sessions (see [rtrv-mml](#), page A-22).

Examples

The MML command in the following example terminates the current provisioning session:

```
gw mml> prov-stp:confirm
H323 Signaling Interface Sun Jan 7 14:46:01 2001
M SUCC
Successfully stopped provisioning session "ver1"
```

The MML command in the following example terminates the **uk9** provisioning session:

```
gw mml> prov-stp:uk9:confirm
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
Successfully stopped provisioning session "uk9"
gw mml>
```

If the previous session starts from an MML process assigned the name **mml2**, you can use the following MML command:

```
gw mml> prov-stp:mml2:confirm
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
Successfully stopped provisioning session "uk9"
gw mml>
```

Related Commands

Command	Description
prov-add	Adds a component.
prov-cpy	Activates the configuration settings in the current provisioning session.
prov-dlt	Deletes a provisioned component.
prov-ed	Modifies a provisioned component.
prov-exp	Exports the current configuration of the Cisco HSI in MML command form to a file or files.
prov-rtrv	Retrieves information about an existing provisioning session.
prov-sta	Establishes a provisioning session.

quit

The **quit** command ends an MML session.

quit

Syntax Description

This command has no arguments or keywords.

Examples

The command in following example ends an MML session.

```
gw mml> quit
```

radlog

The **radlog** command starts and stops RADVision logging into a specified log file.

radlog:*[file name]:start | stop*



Caution

This command is processor intensive and results in very large log files. Use this command only to retrieve information for single test calls, and do not run on a live network that is processing numerous calls.

Syntax Description.

<i>file name</i>	The user-defined name of the log file. The actual filename has a <i>.log</i> suffix. The file is located in the logging directory defined in the configuration data (see Chapter 5, “Provisioning the Cisco HSI”).
------------------	---

Examples

The command in the following example starts logging into a diagnostics log named file1:

```
gw mml> radlog:file1:start
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
RADLogging requested to start
```

The following command logs RADVision to the standard log file:

```
gw mml> radlog::start
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
RADLogging to standard log file
```

Related Commands

Command	Description
diaglog	Starts and stops event logging into a diagnostics log.
rtrv-log	Displays the logging level of a package or all packages.
set-log	Sets the logging level of a package or all packages.

restart-softw

The **restart-softw** command restarts the call processing application. It applies the provisioning data specified in the `configVersion` (if present) that overrides the existing active provisioning data.

restart-softw`[:configVersion][:confirm]`

Syntax Description

<i>configVersion</i>	In <i>configVersion</i> , init is a keyword, and this command restarts the call processing application applying the <code>etc/GWmain.conf</code> configuration file as the provisioning data. If <code>configVersion</code> is an unverified provisioning session, the command fails.
<i>confirm</i>	If there are active calls, a notification is sent to the craft, and the command must be reentered with the <i>confirm</i> parameter to take effect.

Examples

In the following example, the call processing application restarts using the `etc/GWmain.conf` configuration files as the provisioning data.

```
gw mml> restart-softw:init
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
```

```
Application is now restarting using the default provisioning session.
There are no active calls.
New call requests are rejected.
Call Processing now stopped.
Application will restart in 60 seconds
```

In the following example, the application would restart using the active provisioning session. There are no active calls. New call requests are rejected. Call processing is now stopped. The application is set to restart in 12 seconds.

```
gw mml> restart-softw
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
```

In the following example, a restart passes an unverified provisioning session. The command fails. You cannot use an unverified provisioning session:

```
gw mml> restart-softw:config2
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M DENY
```

In the following example, a restart uses a specified verified provisioning session. The application restarts by using `original` as the provisioning session. There are no active calls. New call requests are rejected. Call processing is now stopped. The application is set to restart in 12 seconds.

```
gw mml> restart-softw:original
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
```

rtrv-alms

The **rtrv-alms** command retrieves all active alarms.

rtrv-alms

rtrv-alms:cont

Syntax Description

cont	This parameter displays alarm events until you press Ctrl-C . All active alarms are displayed, and then a message appears (for example: “/* Listening for alarm events . . . (Ctrl-C to stop) */”).
-------------	--

Examples

In the following example, the output contains the standard alarm definition and also NACK or ACK for noninformational alarms to indicate the acknowledgement status of the alarm.

```
gw mml> rtrv-alms
GW Signaling Interface      2000-12-05 14:19:22
M   RTRV
"H323-GW1: 2000-11-27 11:25:12.259, ** ALM=\"VSC FAILURE\",SEV=MJ" NACK
"H323-GW1: 2000-11-27 11:25:13.260, ** ALM=\"CONFIGURATION FAILURE\",SEV=MJ" ACK
"H323-GW1: 2000-11-27 11:25:14.011, A^ ALM=\"ENDPOINT CHANNEL INTERFACE FAILURE\",SEV=IF"
"H323-GW1: 2000-11-27 11:25:14.012, A^ ALM=\"ENDPOINT CHANNEL INTERFACE FAILURE\",SEV=IF"
```

In the following example, the output displays alarm events until you press **Ctrl-C**.

```
gw mml> rtrv-alms:cont
GW Signaling Interface      2000-12-05 14:19:22
M   RTRV
"H323-GW1: 2000-11-27 11:25:12.259, ** ALM=\"VSC FAILURE\",SEV=MJ"
"H323-GW1: 2000-11-27 11:25:13.259,     ALM=\"VSC FAILURE\",SEV=MJ" STATE=CLEARED
"H323-GW1: 2000-11-27 11:25:13.260, ** ALM=\"CONFIGURATION FAILURE\",SEV=MJ"
"H323-GW1: 2000-11-27 11:25:14.011, A^ ALM=\"ENDPOINT CHANNEL INTERFACE FAILURE\",SEV=IF"
"H323-GW1: 2000-11-27 11:25:14.012, A^ ALM=\"ENDPOINT CHANNEL INTERFACE FAILURE\",SEV=IF"

/* Listening for alarm events... (Ctrl-C to stop) */

"H323-GW1: 2000-11-27 11:25:13.259, ** ALM=\"VSC FAILURE\",SEV=MJ"

/* Ctrl-C pressed */
```

Related Commands

Command	Description
ack-alm	Acknowledges that an alarm event is recognized but does not clear the alarm.
clr-alm	Clears an alarm event.

rtrv-calls

The **rtrv-calls** command displays all actively connected calls. If the *time elapsed* parameter is provided (in units of minutes), calls display only if they exceed the specified time. The format of the output includes the call direction, time connected, calling and called address, and call reference.

rtrv-calls*[:time elapsed]*

Syntax Description	<i>time elapsed</i>	If the time elapsed parameter is provided (in units of minutes), calls display only if they have exceeded the specified time.
---------------------------	---------------------	---

Examples

In the following example, the command displays all actively connected calls.

```
gw mml> rtrv-calls
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC

CallId SrcAddr DestAddr StartTime
124 04161234567 0299598125 2000-11-27 11:25:13.259
```

rtrv-ctr

The **rtrv-ctr** command displays the measurements for a counter group.

rtrv-ctr*:counter group*

Syntax Description	<i>counter group</i>	The name of an MML counter group (RAS, Q931, or H245).
---------------------------	----------------------	--

Examples

In the following example, the command displays the measurements for the **RAS** counter group.

```
gw mml> rtrv-ctr:RAS
GW Signaling Interface 2000-12-05 14:19:22
M RTRV
"H323-GW1:GROUP=\"RAS\",NAME=\"GK DISC ATT TOT\",VAL=10"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK REG ATT TOT\",VAL=0"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK REG SUCC TOT\",VAL=12"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK RCV UNR ATT TOT\",VAL=100"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK XMIT UNR SUCC TOT \",VAL=2000"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK XMIT UNR ATT TOT\",VAL=20"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK RCV UNR SUCC TOT\",VAL=10"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK RLS ATT TOT\",VAL=20"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK RLS SUCC TOT\",VAL=30"
"H323-GW1:GROUP=\"RAS\",NAME=\"GK INFO REPORT TOT\",VAL=40"
```

Related Commands

Command	Description
clr-meas	Resets a measurement counter.

rtrv-dest

The **rtrv-dest** command retrieves status information about the IP links and E-ISUP signaling path to the PGW 2200.

rtrv-dest:*point code*

rtrv-dest:*sig path*

rtrv-dest:**all**

Syntax Description		
	<i>point code</i>	The MML component name of a point code component.
	<i>sig path</i>	The MML name of the logical signaling channel for which you want to display information. This path should be made up of sig path DSS IP or sig path NAS entities. Use the help:prov-add command to obtain a description of sig path components.
	all	Displays information about all external point codes and signal paths.

Examples

The MML command in the following example retrieves the destination of point code dpcl:

```
gw mml> rtrv-dest:dpcl
MGC-01 Media Gateway Controller 2000-01-12 15:19:51
M RTRV
"dpcl:PKG=SS7-ANSI,ASSOC=UNK,PST=IS
```

Related Commands

Command	Description
set-dest-state	Changes the service state of an IP link or E-ISUP signaling path to in service (IS) or out of service (OOS).

rtrv-gapping

The **rtrv-gapping** command retrieves information about overload-triggered call gapping.

In both cases, the following information displays:

- The active/inactive status of call gapping
- The percentage of calls that are gapped
- The type of calls to which gapping is applied

rtrv-gapping

Syntax Description

This command has no arguments or keywords

Examples

The following MML command retrieves the current levels of call gapping for all gapping clients:

```
gw mml> rtrv-gapping
```

Client Name	Direction	Level	Call Type	Active
Overload	Outgoing	10	Normal	No
Overload	Incoming	10	Normal	No
MML	Outgoing	20	All	Yes
MML	Incoming	30	All	Yes

Related Commands

Command	Description
set-gapping	Sets the type of calls to be gapped.

rtrv-log

The **rtrv-log** command displays the logging level of a package or all packages.

```
rtrv-log:package=x
```

```
rtrv-log:all
```

Syntax Description

package=x	Displays the logging level for the various packages that make up the Cisco HSI. For package names, see the “Log Message Packages” section on page 4-9 .
all	Displays the logging levels of all packages.

Examples

In the following example, the command displays the logging levels of all packages.

```
gw mml> rtrv-log:all
H323 Signaling Interface Thu Dec 14 16:28:44 2000
M RTRV
```

```
Logging levels:
Application.....0x0000
CallControl.....0xFFFF
Connection.....0x0000
DataManager.....0x0000
Eisup.....0xFFFF
FaultManager.....0x0000
Gapping.....0x0000
H323.....0xFFFF
Infrastructure....0x0000
OverLoad.....0x0000
ProcessManager....0x0000
Provisioning.....0x0000
Signal.....0x0000
Snmp.....0x0000
SnmpSubagent.....0x0000
Statistics.....0x0000
Trace.....0x0000
UserInterface.....0x0000
```

Related Commands	Command	Description
	diaglog	Starts and stops event logging into a diagnostics log.
	radlog	Starts and stops RADVision logging into a specified log file.
	set-log	Sets the logging level of a package or all packages.

rtrv-mml

The **rtrv-mml** command displays the following information:

- All active MML sessions
- Session numbers of all active MML sessions
- User IDs of the session originators

rtrv-mml

Syntax Description	Description
	This command has no arguments or keywords.

Examples In the following example, the command displays all active MML sessions and their sessions numbers and the user IDs of the session originators.

```
gw mml> rtrv-mml

VSC H-323 Signaling Interface - H323-GW1 2000-06-20 10:04:28
M RTRV
mml1:matthewl
mml2:davek
```

rtrv-ne

The **rtrv-ne** command displays the type, hardware platform, vendor, location, version, and status of the Cisco HSI.

rtrv-ne

Syntax Description	Description
	This command has no arguments or keywords.

Examples In the following example, the command displays the type, hardware platform, vendor, location, version, and status of the Cisco HSI.

```
gw mml> rtrv-ne

H323 Signaling Interface Thu Dec 14 16:29:19 2000
M RTRV

Type: H323 Signaling Interface
```

```

Hardware platform: Sun netra t1
Vendor: Cisco Systems, Inc.
Location: H323 - GW1
Version: R1_1_0
Platform Status:
Signaling interface: Active
Call processing: Running

```

rtrv-ne-health

The **rtrv-ne-health** command displays the following information about the Cisco HSI status:

- CPU load
- Disk space
- Number of currently connected calls
- Number of calls in setup

rtrv-ne-health

Syntax Description

This command has no arguments or keywords.

Examples

In the following example, the command displays information about the Cisco HSI status:

```
gw mml> rtrv-ne-health
```

```
VSC H-323 Signaling Interface - H323-GW1 2000-06-20 10:04:28
M RTRV
```

```

CPU Load:                23%
Disk space:              123456
Number of connected calls: 23
Number of calls in setup: 12

```

rtrv-overload

The **rtrv-overload** command displays overload status information and value settings for the three provisionable levels of overload.

rtrv-overload

Syntax Description

This command has no arguments or keywords.

Examples

In the following example, the command displays overload status information.

```
gw mml> rtrv-overload
H323 Signaling Interface Tue Jan 30 11:21:45 2001
```

```

M SUCC
Overload/Gapping Information
NumCalls : 0 | CPU : 7% | DiskUsage : 27%
Status : Not in Ovld
Overload Configuration
DiskUsageLimit : 29%
OvldSampleRate : 3000ms
OvldLevel1Percent : 65%
OvldLevel1Filter : NORMAL
OvldLevel1ThreshLowerCpu : 30%
OvldLevel1ThreshUpperCpu : 35%
OvldLevel1ThreshLowerCalls : 800
OvldLevel1ThreshUpperCalls : 1000
OvldLevel2Percent : 75%
OvldLevel2Filter : ALL
OvldLevel2ThreshLowerCpu : 45%
OvldLevel2ThreshUpperCpu : 50%
OvldLevel2ThreshLowerCalls : 1100
OvldLevel2ThreshUpperCalls : 1400
OvldLevel3Percent : 90%
OvldLevel3Filter : NORMAL
OvldLevel3ThreshLowerCpu : 55%
OvldLevel3ThreshUpperCpu : 65%
OvldLevel3ThreshLowerCalls : 1400
OvldLevel3ThreshUpperCalls : 1600

```

Related Commands	Command	Description
	set-overload	Defines the overload handling criteria and behavior.

rtrv-softw

The **rtrv-softw** command displays the status of the Cisco HSI and call processing activity. The following software states can be displayed for the Cisco HSI:

- Not Running
- Starting
- Active
- Restart Pending
- Halt Pending
- Reboot Pending

The following software states can be displayed for call processing:

- Running
- Idle Pending
- Idle

rtrv-softw



Note

When the Cisco HSI is in the restart pending, halt pending, or reboot pending software state, the **sta-callproc** command cancels the pending state.

Syntax Description	This command has no arguments or keywords.
---------------------------	--

Examples	In the following example, the command displays the status of the Cisco HSI and call processing activity.
-----------------	--

```

gw mml> rtrv-softw
VSC H-323 Signaling Interface - H323-GW1 2000-06-20 10:04:28
M RTRV
Platform Status:
Signaling interface: Active
Call processing:      Running

```

set-dest-state

The **set-dest-state** command changes the service state of an IP link or E-ISUP signaling path to IS (in service) or OOS (out of service).

set-dest-state:ipLink1toVscA:IS|OOS

set-dest-state:ipLink2toVscA:IS|OOS

set-dest-state:ipLink1toVscB:IS|OOS

set-dest-state:ipLink2toVscB:IS|OOS

set-dest-state:EisupPath:IS|OOS

set-dest-state:ipLinkNms:IS|OOS

Syntax Description	IS	In service.
	OOS	Out of service.

Examples	In the following example, the command changes the service state of an IP link signaling path to IS.
-----------------	---

```

gw mml> set-dest-state:ipLink1toVscA:state=IS
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC

Initiating state change of ipLink1toVscA to IS
gw mml> set-dest-state:ipLink1toVscA:state=OOS
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC

Initiating state change of ipLink1toVscA to OOS

```

Related Commands	Command	Description
	rtrv-dest	Retrieves status information about the IP links and E-ISUP signaling path to the PGW 2200.

set-gapping

The **set-gapping** command sets the type of calls to be gapped.

set-gapping: inc | otg | both : calltype=normal | all, percent=number

Syntax Description	inc	Description
	inc	Gaps calls from the H.323 network.
	otg	Gaps calls from the PSTN over E-ISUP.
	both	Gaps calls originating from either side.
	normal	Gaps all calls except priority and emergency calls.
	all	Gaps calls of all types.
	<i>number</i>	Specifies the percentage of calls rejected due to call gapping.

Usage Guidelines	
	If call gapping is set to 100 percent, all calls are gapped irrespective of the normal or all parameter setting.
	If the overload condition is active and call gapping is active, the higher of the two percentage values determines whether new call attempts are accepted or rejected.

Examples In the following example, the command sets all calls to be gapped and specifies that 50 percent of the calls be rejected due to call gapping.

```
gw mml> set-gapping:both:calltype=all,percent=50
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
Successfully set gapping for target 'both', calltype 'all', and percentage 50
```

Related Commands	Command	Description
	rtrv-gapping	Retrieves information about overload-triggered call gapping.

set-log

The **set-log** command sets the logging level of a package or all packages.

set-log:package:level=level, [confirm]

set-log:all:level=level, [confirm]

Syntax Description	package	Description
	package	One of the packages in the Cisco HSI. For a list of package names, see the “Log Message Packages” section on page 4-9 .

level	Logging levels are set through the use of hexadecimal numbers between 0x0000 and 0xFFFF. The higher the number, the higher the level of debug.
confirm	If any client level parsing fails on the data session, a confirm is needed for the data to be activated.

Usage Guidelines

Logging at any level implies that upper levels are included. When you are setting logging with the level DEBUG, a confirmation is required because the amount of data logged would affect service. For a list of the packages that can log messages, see the “[Log Message Packages](#)” section on page 4-9.

Examples

In the following example, the command sets the logging level of the package gapping to 0xFFE0:

```
gw mml> set-log:gapping:0xFFE0
M SUCC
logging level for package gapping set to 0xFFE0
```

Related Commands

Command	Description
diaglog	Starts and stops event logging into a diagnostics log.
radlog	Starts and stops RADVision logging into a specified log file.
rtrv-log	Displays the logging level of a package or all packages.

set-overload

The **set-overload** command defines the overload handling criteria and behavior.

set-overload: level1|level2|level3:cpu,lower=number, upper=number

set-overload: level1|level2|level3:calls,lower=number, upper=number

set-overload: level1|level2|level3:gap,normal|all : number

Syntax Description

level 1 level 2 level 3	Overload behavior can be provisioned at three separate levels: 1, 2, and 3 (rising in severity).
lower=number	The lower threshold for overload detection and restoration of normal call handling service.
upper=number	The upper threshold for overload detection and restoration of normal call handling service.

Usage Guidelines

The **set-overload** command defines the upper and lower thresholds for overload detection and restoration of normal call handling service. The percentage of calls to be gapped and the type of calls to be gapped can also be configured. Any changes made become active immediately.

The lower value must always be less than the upper value. If the call gap percentage is set to 0, the system takes no recovery action when overload is encountered, but the appropriate alarm is raised.

Inconsistent threshold settings for different levels can destabilize call processing. For successful execution of this command, ensure that threshold settings are consistent, as follows:

- The number of calls gapped at level 2 must be greater than or equal to the number of calls gapped at level 1.
- The number of calls gapped at level 3 must be greater than or equal to the number of calls gapped at levels 1 and 2.
- The lower level value of CPU occupancy must always be less than the upper level value.
- The lower level value of CPU occupancy and the number of calls for level 2 must be greater than or equal to the corresponding values for level 1.
- The lower level value of CPU occupancy and the number of calls for level 3 must be greater than or equal to the corresponding values for levels 1 and 2.

Examples

In the following example, the command defines the overload handling criteria and behavior at level 1, and the cpu to the lower threshold of 10, upper threshold of 14.

```
gw mml> set-overload:level1:cpu, lower =10, upper = 14
H323 Signaling Interface Day Mon 1 11:21:28 2001
M SUCC
Successfully added that configuration item.
```

Related Commands

Command	Retrieve
rtrv-overload	Displays the overload status and the data values for the three provisionable levels of overload

sta-callproc

The **sta-callproc** command starts call processing.

sta-callproc

Syntax Description

This command has no arguments or keywords.

Examples

In the following example, the command starts call processing.

```
gw mml> sta-softw
gw mml> sta-callproc

H323 Signaling Interface Thu Dec 14 16:31:09 2000
M SUCC

Starting call processing.
```

Related Commands

Command	Description
sta-softw	Starts the call processing application.

sta-softw

The **sta-softw** command starts the call processing application.

sta-softw

Syntax Description

This command has no arguments or keywords.

Examples

In the following example, the command starts the call processing application.

```
gw mml> sta-softw
```

```
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
```

```
The Call Processing Application is starting.
```

Related Commands

Command	Description
sta-callproc	Starts call processing

sta-trc

The **sta-trc** command starts the call processing tracing function.

**sta-trc:Calltype=calltype,TraceLevel=trace level[,CdAddress=address]
[,CgAddress=address],log=filename[,prd=n]**

Syntax Description

Calltype=calltype	This parameter defines the type of call to be traced. The possible values are: <ul style="list-style-type: none"> inc—For H.323-originated calls otg—For E-ISUP-originated calls both—For calls originating from either side
TraceLevel=trace level	This parameter defines the level of detail that is recorded in the call trace. The possible values are: <ul style="list-style-type: none"> terse—Only incoming/outgoing message names and RADvision API calls are traced. brief—In addition to terse, internal interfaces, and call state changes are traced. verbose—All messages and their contents, RADvision API calls and their contents, internal interfaces and call state changes are displayed.

CdAddress=address	A filter used to trace calls only with the specified leading digits with called address. A match is performed on these digits and the initial called address digits contained within the E-ISUP IAM message or the H225 SETUP message.
CgAddress=address	A filter used to trace calls only with the specified leading digits with calling address. A match is performed on these digits and the initial calling address digits contained within the E-ISUP IAM message or the H.225 SETUP message.
log=filename	The filename for the trace output.
prd=n	The trace period (in seconds). At expiration of this period, the trace log is closed. If no value is specified, the period defaults to 1800 seconds (30 minutes).

Defaults

The default trace for all calls is 30 minutes.

Usage Guidelines

Only one trace command at a time can be active. If an additional request is issued, the command should be rejected with a call trace already active indication.

Examples

In the following example, the command starts the call processing tracing function:

```
gw mml> sta-trc:Calltype=both, TraceLevel=terse, dAddress=012,CgAddress=013, log=tlog.txt,
prd=10
```

```
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
```

Related Commands

Command	Description
stp-trc	Halts the tracing currently active and closes the trace file.

stp-call

The **stp-call** command terminates a currently active call by forcing a release of the call. Disconnect/release messages are sent in both directions.

stp-call:callref=x

stp-call:all

Syntax Description

callref	Refers to a positive integer.
all	Stops all calls.

Examples

In the following example, the command terminates a currently active call by forcing a release of the call with a callref of 33..

```
gw mml> stp-call:callref=33

H323 Signaling Interface Thu Dec 14 16:43:54 2000
M SUCC

Stopped call 33
```

Related Commands

Command	Description
rtrv-calls	Displays all actively connected calls.

stp-callproc

The **stp-callproc** command stops further call processing by immediately terminating the handling of new call requests.

stp-callproc[:timeout=T]

Syntax Description

<i>timeout</i>	If no timeout period is provided, existing calls are released immediately. If a timeout period is provided, existing calls are released after the specified amount of time has elapsed. When all calls have been released, a notification message is sent to the craft terminal.
T	T is in seconds.

Examples

In the following example, the command stops further call processing by immediately terminating the handling of new call requests.

```
gw mml> stp-callproc

H323 Signaling Interface Thu Dec 14 16:27:07 2000
M SUCC

Stopped accepting new calls. Existing calls will be released in 5 seconds.

Stopping Call Processing.
```

stp-softw

The **stp-softw** command stops the call processing application. This command causes the Cisco HSI to terminate.

stp-softw[:confirm]

Syntax Description	confirm	If there are active calls, a notification is sent to the craft. In order for the command to take effect, it must be reentered with the confirm parameter.
---------------------------	----------------	---

Examples In the following example, the command stops the call processing application.

```
gw mml> stp-softw
```

```
H323 Signaling Interface Thu Dec 14 16:27:36 2000
M SUCC
```

```
There are no active calls.
Application is now stopping
```

stp-trc

The **stp-trc** command halts the currently active tracing and closes the trace file.

stp-trc

Syntax Description This command has no arguments or keywords

Examples In the following example, the command halts the currently active tracing and closes the trace file.

```
gw mml> stp-trc
```

```
H323 Signaling Interface Day Mon 1 hh:mm:ss YYYY
M SUCC
Tracing deactivated.
```

Related Commands	Command	Description
	sta-trc	Starts the call processing tracing function.