



**Gateway Traps for the  
G250/G350/G430/G450/G700  
Avaya S8xxx Servers**

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# Contents

Alarm Format . . . . .	5
SNMP Alarming on the Media Gateway. . . . .	6
Configure the primary server to report alarms . . . . .	6
Configure the Media Gateway to send SNMP traps. . . . .	7
G250/G350 Traps . . . . .	8
Configuring the G250/G350 to send SNMPv3 alarms . . . . .	8
G250/G350 traps and resolutions . . . . .	11
G450/G700 Traps . . . . .	27
Configure the G450/G700 to send SNMP traps. . . . .	27
Configure an SNMP community string for traps. . . . .	27
Configure the destination for G450/G700 SNMP traps . . . . .	27
Media Gateway Traps and Resolutions . . . . .	28
G450 R2 Gateway Traps . . . . .	50

## **Contents**

# Avaya Media Gateway Traps

This document describes the Gateway Traps for the G250, G350, G450, and G700 Avaya Media Gateways.

A trap indicates a special condition that exists or an event that occurs within the system. Some traps indicate configuration changes or component modifications and are merely informative. Other traps indicate warning or error conditions that may compromise the performance of the media gateway. Serious traps trigger alarms which are communicated to an alarm management site.

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## Alarm Format

Media Gateways report alarms to the primary server (either an S8300, S8500, or S8700-series Server) using SNMP traps. Like the primary server's own alarms, alarms from a Media Gateway:

- Reside in the primary server's alarm log
- Can be viewed using the SAT command `display alarms`
- Can be viewed using the Web Interface Display Alarms option

However, the format of these displayed alarms is slightly different. As an example, a displayed alarm has the following format:

```
n CMG 1 WRN 07/17/2006:13:45 121.1.1.2:cmgMultipleFanFault
```

Within the above alarm-display string, the value:

- "n" is a sequential alarm ID.
- "CMG" identifies a Media Gateway as the maintenance object.
- "1" is the event's ID (1st column of [Table 5: Media Gateway Traps and Resolutions](#)).

This table also contains each alarm's corresponding SNMP trap # in the 2nd column. However, many of the MIB-defined traps have been excluded, either because:

- A specific trap (such as Trap #3) is the SNMP mechanism to clear an alarm logged by another specific trap (in this case, Trap #2).
- The specific event indicated by a trap is not severe enough to justify an entry in the primary server's alarm log.
- A trap is defined, but not implemented.
- A trap # is reserved for future use.

- “WRN” is the event’s severity (3rd column of [Table 5: Media Gateway Traps and Resolutions](#)).
- “07/17/2006:13:45” is the event’s date and time stamp.
- “121.1.1.2” is the IP address for Telnet access to the alarmed Media Gateway Processor (MGP).
- “cmgMultipleFanFault” is the trap name (4th column of [Table 5: Media Gateway Traps and Resolutions](#)).

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## SNMP Alarming on the Media Gateway

Setting up SNMP alarm reporting involves two main tasks:

- [Configure the primary server to report alarms](#)
- [Configure the Media Gateway to send SNMP traps](#)

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### Configure the primary server to report alarms

The primary server may be either an S8300, S8500, S8710, S8720, or S8730 server. The server supports two methods for reporting alarms. Either method, both, or no alarm-reporting method may be used at a given site.

- **OSS Method** - The server's software applications and hardware devices under its control can generate Operations Support System (OSS) alarms. These alarms are recorded in the server logs, and may be reported to Avaya's Initialization and Administration System (INADS) or another services support agency over the server's modem interface.

To activate OSS alarm notification: The server requires a USB connection to a modem that is connected to an analog line. The modem must be configured using the Web Interface on the Set Modem Interface screen and enabled to send and receive calls using the Enable/Disable Modem screen. Configuration of the OSS alarming method can only be done using Linux shell commands.

- **SNMP Method** - SNMP traps may be sent in User Datagram Protocol (UDP) to a corporate network management system (NMS) using the Configure Trap Destinations screen. The OSS and SNMP alarm-notification methods operate independently of each other. Either or both may be used. Currently, the following NMSs are supported:
  - Communication Manager Fault and Performance Manager, as a standalone application, or integrated within
  - Avaya Network Management Console with VoIP SystemView

- HP Openview

To activate SNMP alarm notification: On the server Web Interface, use the Configure Trap Destinations screen to set up SNMP destinations in the corporate NMS.

### Add INADS Phone Numbers and Enable Alarms to INADS

The following procedure using the primary server's Linux shell commands administers the dial-out modem to send alarms in the OSS method. In this example, the primary server is an S8300, and the services support agency is Avaya's Initialization and Administration System (INADS).

**Note:**

Perform this task after all Communication Manager administration is complete.

To add INADS phone numbers and enable alarms to INADS

1. Connect the laptop to the Services port of the S8300 Server

**Note:**

Perform these steps only if the S8300 is the primary controller and the customer has a maintenance contract with Avaya. Use the information acquired from the ART tool. See "Run the ART Tool for the INADS IP Address" in *Installing and Upgrading the Avaya S8300 Server (555-234-100)* and *Installing and Upgrading the Avaya G700 Media Gateway (03-603333)*. Also, a USB modem must have already been installed. See "Universal Serial Bus (USB) Modems" in the same source.

2. Click **Start > Run** to open the Run dialog box
3. Enter `telnet 192.11.13.6`
4. Log in as **craft**.
5. At the prompt, enter `almcall -f INADS phone number -s second-number`
6. At the prompt, enter `almenable -d b -s y`
7. Enter `almenable` to verify that the alarms are enabled.
8. Log off.

---

## Configure the Media Gateway to send SNMP traps

See [G250/G350 Traps](#) for configuring, sending, and resolving traps specific to the G250/G350 Media Gateway.

See [G450/G700 Traps](#) for configuring, sending, and resolving traps specific to the G450/G700 Media Gateway.

## G250/G350 Traps

This section describes the set of traps that are defined for the Avaya G250/G350 Media Gateway.

SNMP management is a function of the Avaya MultiService Network Manager. For additional information, including information on event logs and trap logs, please refer to the *Avaya P333T User's Guide*.

The Dynamic Trap Manager feature of the G250/G350 insures that SNMP traps and alarms are always sent to the currently active Media Gateway Controller. By default, the Dynamic Trap Manager sends all SNMP messages to the currently active MGC. The Dynamic Trap Manager can be configured to manage only a subset of SNMP messages using the `snmp-server dynamic-trap-manager` CLI command.

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## Configuring the G250/G350 to send SNMPv3 alarms

The Avaya G250/G350 Media Gateway uses SNMPv3 for traps and alarms. In order to configure the Avaya G250/G350 Media Gateway to send SNMP traps to the primary server you must enable the SNMP agent, specify the SNMP host, and setup SNMP authentication. You perform these tasks using the following CLI commands:

- To enable the SNMP agent: `ip snmp-server`
- To specify the SNMP host: `snmp-server host`
- To create an SNMPv3 view: `snmp-server view viewname subtree`
- To create an SNMPv3 group and specify its views: `snmp-server group groupname read readviewname write writeviewname notify notifyviewname`
- To create a user and add the user to a group: `snmp-server user username groupname`

### Configure the host for G250/G350 SNMP traps

Events occurring on the G250/G350 cause SNMP traps to be generated. The Avaya G250/G350 Media Gateway can be configured to send SNMP traps to any network management system (NMS) in the network, including the primary server. You specify the destination host using the G250/G350 CLI `snmp-server host` command. The traps are sent in User Datagram Protocol (UDP) on the customer's IP network.

The command syntax is:

```
snmp-server host {<hostaddress>|<hostname>} {traps|informs}
{{{v1|v2c} <community> | {v3 [auth|noauth|priv] <user>}} [udp-port
<port>] [<notification-type-list>]
```



This command is used both to specify the destination host for SNMP messages, and to define which SNMP messages are to be sent.

For example, to enable the SNMPv3 manager at IP address 192.16.55.126 to receive inform-type messages, to use SNMPv3 authentication, and to receive Ethernet port fault notifications only, enter:

```
G350-001(super)# snmp-server host 192.16.55.126 informs v3 auth localuser
eth-port-faults
```

**Note:**

You must log in to the CLI as **admin** to administer SNMP settings.

Refer to [Table 1: SNMPv3 Notification Types](#) for a full list of notification types that can be configured.

**Table 1: SNMPv3 Notification Types 1 of 2**

Notification Type	Description
all	All notifications
generic	Generic traps
hardware	Hardware faults
rmon	RMON rising/falling alarm
dhcp server	DHCP server error, such as a DHCP IP conflict detection or notification of no IP address left for specific network
dhcp-clients	DHCP client error, such as a DHCP client conflict detection
rtp-stat-faults	RTP statistics: OWS fault/clear traps
rtp-stat-qos	RTP statistics: end-of-call QoS traps
wan	WAN router traps
media-gateway	Media gateway traps (equivalent to MGP traps)
security	Security traps, such as unAuthAccess, macSecurity, unknownHostCopy, and accountLockout
config	Configuration change notifications
eth-port-faults	Ethernet port fault notifications
sw-redundancy	Software redundancy notifications
<b>1 of 2</b>	

**Table 1: SNMPv3 Notification Types 2 of 2**

Notification Type	Description
temperature	Temperature warning notifications
cam-change	Changes in CAM notifications
policy	Changes in policy (L3 devices) notifications
link-faults	ITC proprietary link down notifications
supply	Power supply (main and backup) notifications
<b>2 of 2</b>	

**Configure SNMPv3 authentication**

In order to use SNMPv3 authentication, you must create users, groups, and views for the G250/G350.

The G250/G350 provides several pre-configured views and groups for setting up SNMP authentication. Refer to [Table 2: G250/G350 pre-configured views](#) and [Table 3: G250/G350 pre-configured groups](#) for a description of these objects and how they can be used.

**Table 2: G250/G350 pre-configured views**

Viewname	Description
snmpv1View	A view for backwards compatibility with v1 SNMP users, providing v1 level access only.
v3ConfigView	A view for an SNMPv3 user with non-administrative privilege. USM and VACM table access is restricted to changing password and all download copy config commands.
restricted	A view providing limited access to SNMP objects. Access is restricted to the system, snmp, snmpEngine, snmpMPDStats, and usmStats subtrees.
iso	A view providing maximal access, for users with admin privileges.

**Table 3: G250/G350 pre-configured groups 1 of 2**

Group Name	Security Model	Security Level	Read View Name	Write View Name	Trap View Name
ReadCommG	v1	1 (noAuthNoPriv)	snmpv1View		snmpv1View
ReadCommG	v2	1 (noAuthNoPriv)	snmpv1View		snmpv1View
WriteCommG	v1	1 (noAuthNoPriv)	snmpv1View	snmpv1View	snmpv1View
<b>1 of 2</b>					

**Table 3: G250/G350 pre-configured groups 2 of 2**

Group Name	Security Model	Security Level	Read View Name	Write View Name	Trap View Name
WriteCommG	v2	1 (noAuthNoPriv)	snmpv1View	snmpv1View	snmpv1View
v3ReadWriteG	v3 (USM)	3 (AuthPriv)	v3configview	v3configview	v3configview
v3ReadOnlyG	v3 (USM)	3 (AuthPriv)	v3configview		v3configview
initial	v3 (USM)	1 (noAuthNoPriv)	restricted	restricted	restricted
v3AdminViewG	v3 (USM)	3 (AuthPriv)	iso	iso	iso

**2 of 2**

## G250/G350 traps and resolutions

Although these alarms can be viewed from the primary server, they are normally resolved from within the Avaya G250/G350 Media Gateway. The G250/G350 generates the following traps. Follow the error resolution procedures in [Table 4: G250/G350 Traps and Resolutions](#) to resolve errors indicated by these traps.

**Table 4: G250/G350 Traps and Resolutions 1 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
snmpTraps	1	coldStart	Boot	Warning	The entity is reinitializing itself in such a way as to potentially cause the alteration of either the agent's configuration or the entity's implementation. This trap is always enabled.
snmpTraps	2	warmStart	Boot	Warning	The entity is reinitializing itself in such a way as to keep both the agent's configuration and the entity's implementation intact. This trap is always enabled.
snmpTrap	3	linkDown	System	Warning	There is a failure in one of the communication links in the agent's configuration.
snmpTraps	4	linkUp	System	Warning	One of the communication links in the agent's configuration has come up.
snmpTrap	5	authenticFailure	Security	Notification	The protocol is not properly authenticated.
rmon	1	risingAlarm	Threshold	Warning	An alarm entry has crossed its rising threshold.
rmon	2	fallingAlarm	Threshold	Warning	An alarm entry has crossed its falling threshold.
frame-relay	1	frDLCIStatusChange			A DLCI has been created or deleted, or has state changes.

**1 of 16**

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 2 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
avayaG350	1	config			The configuration has been changed.
avayaG350	2	fault			A fault has been generated.
avayaG350	12	deleteSWRedundancyTrap	Switch Fabric	Info	A redundancy link has been deleted.
avayaG350	13	createSWRedundancyTrap	Switch Fabric	Info	A redundancy link has been created for the specified ports.
avayaG350	27	duplicateIPTrap	Router	Warning	A duplicate IP address has been identified.
avayaG350	30	wanPhysicalAlarmOn	Wan	Critical	An E1/T1 serial cable has been disconnected.
avayaG350	31	wanPhysicalAlarmOff	Wan	Notification	An E1/T1 serial cable has been reconnected.
avayaG350	32	wanLocalAlarmOn	Wan	Error	A local alarm (such as LOS) has been generated.
avayaG350	33	wanLocalAlarmOff	Wan	Notification	A local alarm (such as LOS) has been cleared.
avayaG350	34	wanRemoteAlarmOn	Wan	Error	A remote alarm (such as AIS) has been generated.
avayaG350	35	wanRemotetAlarmOff	Wan	Notification	A remote alarm (such as AIS) has been cleared.
avayaG350	36	wanMinorAlarmOn	Wan	Warning	
avayaG350	37	wanMinorAlarmOff	Wan	Notification	
avayaG350	60	IntPolicyChangeEvent	Policy	Info	The active policy list for the specified device or module has changed.
avayaG350	62	ipPolicyAccessControlListLvlRuleTrap	Policy		A packet fragment has been denied access on the specified interface
avayaG350	64	IntPolicyAccessControlViolationFit	Policy	Warning	A packet has violated a policy rule on the specified interface. The trap includes information about the slot where the event occurred. The id of the rule that was violated in the current rules table, and the quintuplet that identifies the faulty packet. This trap will not be sent at intervals smaller than one minute for identical information in the varbinds list variables.
avayaG350	68	IntUnAuthorizedAccessEvent			An attempt has been made to logon to the device with an invalid userid/password.
avayaG350	70	ipArpViolationTrap			

Table 4: G250/G350 Traps and Resolutions 3 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
avEntTraps	1	avEntFanFit	Temp		<p>There is a faulty fan on the device.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Avaya G250/G350 Media Gateway CLI command show faults to display any faults on the G250/G350.</li> <li>2. If there is a fan/temperature fault, check to see if the fans are working, and/or if there is sufficient space around the G250/G350 for air circulation.</li> <li>3. Maintenance software monitors voltages applied to the media modules and other components of the G250/G350, and compares these to the general power supply unit (PSU) status bit. If none of these voltages are out of tolerance, but the PSU status indicates failure, this generates the fan fault, which will be indicated in the show faults command output. Replace the entire G250/G350. Fans and the PSU are not field replaceable.</li> </ol>
avEntTraps	2	avEntFanOk	Temp	Notification	A faulty fan has returned to normal functioning.

3 of 16

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 4 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
avEntTraps	4	avEnt48vPwrFlt	Supply		<p>There is a problem with the 48V power supply.</p> <ol style="list-style-type: none"> <li>1. Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250/G350. Voltage may be reduced by a short in one of the media modules or a bad power supply.</li> <li>2. Systematically, remove each media module to determine if one of the media modules is responsible for reducing the voltage levels. Replace faulty media module.</li> <li>3. If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250/G350. Use a power monitor to monitor the power line.</li> <li>4. If a brown-out condition is suspected, use a power monitor to monitor the power line.</li> <li>5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250/G350.</li> </ol>
avEntTraps	5	avEnt48vPwrFltOk	Supply		The problem with the 48V power supply has been corrected.
avEntTraps	7	avEnt5vPwrFlt	Supply		<p>There is a problem with the 5V power supply.</p> <p>To resolve the problem, follow the steps for the avEnt48vPwrFlt trap.</p>
avEntTraps	8	avEnt5vPwrFltOk	Supply		The problem with the 5V power supply has been corrected.
avEntTraps	10	avEnt3300mvPwrFlt	Supply		<p>There is a problem with the 3.3V power supply.</p> <p>To resolve the problem, follow the steps for the avEnt48vPwrFlt trap.</p>
avEntTraps	11	avEnt3300mvPwrFltOk	Supply		The problem with the 3.3V power supply has been corrected.
avEntTraps	13	avEnt2500mvPwrFlt	Supply		<p>There is a problem with the 2.5V power supply.</p> <p>To resolve the problem, follow the steps for the avEnt48vPwrFlt trap.</p>
avEntTraps	16	avEnt1800mvPwrFlt	Supply		<p>There is a problem with the 1.8V power supply.</p> <p>To resolve the problem, follow the steps for the avEnt48vPwrFlt trap.</p>

4 of 16

Table 4: G250/G350 Traps and Resolutions 5 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
avEntTraps	14	avEnt2500mvPwrFltOk	Supply		The problem with the 2.5V power supply has been corrected.
avEntTraps	17	avEnt1800mvPwrFltOk	Supply		The problem with the 1.8V power supply has been corrected.
avEntTraps	19	avEnt1600mvPwrFlt	Supply		There is a problem with the 1.6V power supply. To resolve the problem, follow the steps for the avEnt48vPwrFlt trap.
avEntTraps	20	avEnt1600mvPwrFltOk	Supply		The problem with the 1.6V power supply has been corrected.
avEntTraps	22	avEntAmbientHiThresholdTempFlt	Temp		<p>The ambient temperature in the device is above the acceptable temperature range.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Avaya G250/G350 Media Gateway CLI command show faults to display any faults on the G250/G350.</li> <li>2. If there is a temperature fault, turn off the G250/G350 and allow it to cool.</li> <li>3. Reboot the G250/G350. Check to see if the fans are working and/or if there is sufficient space around the G250/G350 for air circulation. Use the CLI show faults command to check for fan problems.</li> <li>4. Low voltage may be responsible for slower fans. Voltage may be reduced by a short in one of the media modules or a bad power supply. If there are no fan faults, use the CLI command show voltages to display voltages applied to components on the motherboard and to the media modules.</li> <li>5. If the media module voltage is out of tolerance, systematically, remove each media module to determine if one of the media modules is responsible for reducing the voltage level. If one is found, replace the media module.</li> </ol> <p>If no media module is found to be bad, the power supply is suspect. Replace the G250/G350.</p>
avEntTraps	23	avEntAmbientHiThresholdTempOk	Temp		The ambient temperature in the device has returned to the acceptable range.

5 of 16

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 6 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
avEntTraps	24	avEntAmbientLoThresholdTempFlt	Temp		The ambient temperature in the device is below the acceptable temperature range.
avEntTraps	25	avEntAmbientLoThresholdTempOk	Temp		The ambient temperature in the device has returned to the acceptable range.

**6 of 16**



Table 4: G250/G350 Traps and Resolutions 7 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	30	cmgSyncSignalFault		Major	<p>The synchronization signal has been lost. Check that the provisioned clock-sync source has a good signal using the Media Gateway CLI command show sync timing. To set synchronization timing sources on E1/T1 MM or MM710:</p> <ol style="list-style-type: none"> <li>1. If the E1/T1 MM has not been added properly on the server, you must use the SAT command ADD DS1 before using the Media Gateway CLI commands set sync interface or set sync source.</li> <li>2. Specify the primary and secondary clock sources for synchronizing the E1/T1 span, using the CLI command set synch interface. Note: The local clock is "built-in" and not provisionable.</li> <li>3. Use a set sync source command to set to the specific MM710 E1/T1 media module to be used as the active clock reference.</li> <li>4. Use a show sync timing command to ensure that the source is provisioned and active, or visually inspect the Yellow LED on the MM710 media module. Note: When the Yellow LED is on 2.7 seconds and off 0.3 seconds, this means the tone-clock synchronizer is in "active" mode, and an external synchronization source is being used as a synchronization reference. Setting the sync timing was successful. When the Yellow LED is on 0.3 seconds and off 2.7 seconds, this means the tone-clock synchronizer is in "active" mode and the internal (on-board) clock is being used as a synchronization reference. Setting the sync timing was not successful.</li> <li>5. If there is more than one MM710 media module, and they have been set up as primary and secondary, this behavior could be on the second and not the timing of the bus.</li> </ol>
cmgTrapTypes	31	cmgSyncSignalClear			The synchronization signal has been regained.

7 of 16

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 8 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	32	cmgVoipHardwareFault		Major	A DSP complex serving the VoIP engines has failed.
cmgTrapTypes	33	cmgVoipHardwareClear			The DSP complex serving the VoIP engines has returned to normal functioning.
cmgTrapTypes	34	cmgSyncSignalWarn			
cmgTrapTypes	35	cmgSyncWarnClear			
cmgTrapTypes	36	cmgSyncSignalExcess			
cmgTrapTypes	37	cmgSyncExcessClear			
cmgTrapTypes	50	cmgModuleRemove			A media module has been removed.
cmgTrapTypes	52	cmgModuleInsertFault			The insertion sequence for a media module has failed.
cmgTrapTypes	53	cmgModuleInsertSuccess			A media module has been inserted.
cmgTrapTypes	57	cmgDataModuleAwohConflict			
cmgTrapTypes	71	cmgFirmwareDownloadSuccess			The Media Gateway successfully downloaded a software or configuration file.
cmgTrapTypes	73	cmgRegistrationSuccess			The Media Gateway has successfully registered with a Media Controller.
cmgTrapTypes	74	cmgMgManualReset			The Media Gateway is beginning a user-requested reset operation.
cmgTrapTypes	75	cmgModuleManualReset			A media module is beginning a user-requested reset operation.

**8 of 16**

Table 4: G250/G350 Traps and Resolutions 9 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	90	cmgMemoryFault		Major	<p>The Media Gateway has detected a low memory condition. This occurs when a software module is unable to allocate memory, or the available memory falls below 4 MB.</p> <ol style="list-style-type: none"> <li>1. Check the Media Gateway and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>2. If this trap occurs infrequently and is automatically cleared, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>3. If this trap occurs frequently and is automatically cleared, it is likely that the Media Gateway software has the wrong limits set for its memory monitoring. These limits are hard coded in the software. Speak to an Avaya technical professional.</li> <li>4. If this trap occurs and does not clear, the Media Gateway may be functionally impaired. Do not reset the Media Gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> <li>5. If this trap occurs and the Media Gateway Processor automatically resets, then a severe processor memory shortage occurred. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>
cmgTrapTypes	91	cmgMemoryClear			<p>The low memory condition has been cleared. This occurs when the available memory rises above 5 MB.</p>

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 10 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	94	cmgFirmwareDownloadFault		Major	<p>An attempt to download a software module has failed.</p> <ol style="list-style-type: none"> <li>1. Check the event log to find the specific error.</li> <li>2. Troubleshoot the specific error according to the information found.</li> </ol> <p>For example, if the string "File not found" appears in the log, then verify that the image file:</p> <ol style="list-style-type: none"> <li>a. Exists</li> <li>b. Has the correct name</li> <li>c. Resides in the correct directory</li> </ol>
cmgTrapTypes	98	cmglccMissingFault		Major	An internal communications controller (S8300), expected in slot 1, is missing.
cmgTrapTypes	99	cmglccMissingClear			A missing internal communications controller (S8300) has been found.
cmgTrapTypes	100	cmglccAutoReset		Major	The Media Gateway automatically reset the internal communications controller.
cmgTrapTypes	101	cmglccAutoResetClear			
cmgTrapTypes	102	cmgPrimaryControllerFault		Major	<p>The Media Gateway cannot contact the first controller in its controller list.</p> <ol style="list-style-type: none"> <li>1. Verify that the controller list is correct. From the CLI, use the command show mgc list. The IP address should match the server or the server IP addresses.</li> <li>2. If needed, correct this in configure mode in the CLI. Clear the mgc list first with the clear mgc list command. Then use a set mgc list with the correct IP addresses.</li> <li>3. Verify that the primary controller is up.</li> <li>4. If so, shut down every LSP</li> </ol>
cmgTrapTypes	103	cmgPrimaryControllerClear			

Table 4: G250/G350 Traps and Resolutions 11 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	104	cmgNoControllerFault		Major	<p>The Media Gateway does not have any controllers in its controller list.</p> <ol style="list-style-type: none"> <li>1. Verify that the controller list is empty. From the CLI, use the command <code>show mgc list</code> to verify that there are no controllers listed.</li> <li>2. If none are listed, correct this by adding the correct IP address of the primary server. In the CLI's 'configure' mode, use a <code>set mgc list</code> command with the correct IP address.</li> </ol>
cmgTrapTypes	105	cmgnoControllerClear			The <code>cmgNoControllerFault</code> trap has been cleared.
cmgTrapTypes	106	cmgRegistrationFault		Major	<p>The Media Gateway cannot register with any controllers in its controller list.</p> <ol style="list-style-type: none"> <li>1. Verify that the controller list is correct. From the CLI, use the command <code>show mgc list</code>. The IP address should match the server CLAN or the server IP addresses.</li> <li>2. If needed, correct this in the CLI's 'configure' mode. Clear the mgc list with the <code>clear mgc list</code> command. Then use a <code>set mgc list</code> with the correct IP addresses.</li> <li>3. If the IP address in the mgc list matches the server CLAN or the server IP addresses, there may be a network problem.</li> <li>4. Verify that the primary controller is up.</li> </ol>

11 of 16

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 12 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	108	cmgH248LinkDown		Minor	An H.248 link between the Media Gateway and its controller is down. <ol style="list-style-type: none"><li>1. Check the server. If down, bring up.</li><li>2. If not, check the G250/G350 administration. <i>Since the following command causes a brief service outage, it should only be executed at the customer's convenience.</i></li><li>3. If the administration is correct, reboot the G250/G350.</li><li>4. If the problem persists, check network connectivity. Use ping or traceroute to the server to check connectivity.</li><li>5. If the problem persists, speak to an Avaya technical professional.</li></ol>
cmgTrapTypes	109	cmgH248LinkUp			An H.248 link between the Media Gateway and its controller that was down has come back up.

**12 of 16**

Table 4: G250/G350 Traps and Resolutions 13 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	114	cmgMgAutoReset		Warning	<p>The Media Gateway automatically reset. This may be due to a critical error from which the Media Gateway could not recover. It may be due to a maintenance test running on the call controller. It may also be due to the Media Gateway's reregistration with a call controller after being out of contact for too long.</p> <ol style="list-style-type: none"> <li>1. Check to see if a maintenance test that resets the processor was run.</li> <li>2. Check to see if the reset was due to the link with the call controller going down. If so, follow call controller link failure troubleshooting procedures.</li> <li>3. Check the Media Gateway and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>4. If this trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>5. If this trap occurs and the Media Gateway is frequently resetting, manually reset the media gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> <li>6. If this trap occurs frequently and the Media Gateway is not resetting, the Media Gateway may be functionally impaired, and is not capable of resetting itself to restore service. If service is impaired, reset the Media Gateway manually. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 14 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	116	cmgModuleAutoReste		Warning	<p>cmgModuleAutoReset — A media module in the Media Gateway automatically reset (rebooted). To resolve the problem, take the following steps:</p> <ol style="list-style-type: none"> <li>1. Check if a maintenance test that resets the media module was run.</li> <li>2. Check the media module and insure that it has the latest version of firmware installed. If not, install the latest version of firmware and continue to monitor.</li> <li>3. If this trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>4. If this trap occurs and the media module does not return to service, or if this trap occurs frequently, attempt to reset the failing module from the SAT or CLI and see if this returns it to stable service.</li> <li>5. If manually resetting the media module does not return it to service, and if a spare media module of the same time is available, replace the failing media module with the spare and see if the spare media module goes into service. If so, follow procedures for dealing with the original bad media module.</li> <li>6. If the spare media module fails to go into service, it is possible that the spare media module is also bad. If not, manually reset the Media Gateway at a time convenient to the customer. If this restores service, both the original and the spare media modules can be considered okay. The problem is probably with the Media Gateway itself. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>
cmgTrapTypes	117	cmgModuleAutoResetClear			
cmgTrapTypes	118	cmgModulePostFault		Minor	A media module failed its power-on start-up test.

14 of 16



Table 4: G250/G350 Traps and Resolutions 15 of 16

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	119	cmgModulePostClear			
cmgTrapTypes	122	cmgConfigUpoadFault		Major	<p>An attempt to upload a configuration file failed.</p> <ol style="list-style-type: none"> <li>1. Check the event log for an error message during the backup/restore process.</li> <li>2. Troubleshoot the specific error according to the information found.</li> <li>3. Retry the upload (backup) command; for example:           <pre>copy startup-config tftp &lt;filename&gt; &lt;ip address&gt;</pre> <p>CAUTION: Since the following command causes a brief service outage, it should only be executed at the customer's convenience.</p> </li> <li>4. If the problem persists, reboot the G250/G350.</li> </ol>
cmgTrapTypes	124	cmgVoipOccFault			
cmgTrapTypes	125	cmgVoipOccClear			
cmgTrapTypes	126	cmgVoipAvgOccFault			
cmgTrapTypes	127	cmgVoipAvgOccClear			

15 of 16

## Avaya Media Gateway Traps

**Table 4: G250/G350 Traps and Resolutions 16 of 16**

Enterprise	Trap ID	Name	Msg Facility	Severity	Description / Resolution
cmgTrapTypes	128	cmgVoipAutoReset		Warning	<p>The VoIP module in the Media Gateway automatically reset. To resolve the problem, take the following steps:</p> <ol style="list-style-type: none"> <li>1. Check if a maintenance test that resets the VoIP module was run.</li> <li>2. Check to see if the VoIP module had its IP address re-administered.</li> <li>3. Check to see if the IP address administered on the VoIP module is correct.</li> <li>4. Check to see if the IP address of the Media Gateway itself can be pinged. Physical or logical connectivity issues (cabling or routing problems) in the data network can cause ping failures.</li> <li>5. Check the VoIP module and insure that it has the latest version of firmware installed. If not, install the latest version of firmware and continue to monitor.</li> <li>6. If this trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>7. If this trap occurs and the VoIP module does not return to service, or if this trap occurs frequently, attempt to reset the failing module from the SAT or CLI.</li> <li>8. Manually reset the Media Gateway at a time convenient to the customer. If this restores service, the problem is probably with the Media Gateway itself. Capture the trap information. If possible, capture the event logs, using the show event-log CLI command, for analysis. Escalate.</li> <li>9. If none of this works, capture the trap information. If possible, capture the event logs, using the show event-log CLI command, for analysis. Escalate.</li> </ol>
cmgTrapTypes	129	cmgVoipAutoResetClear			

16 of 16

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## G450/G700 Traps

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### Configure the G450/G700 to send SNMP traps

Configuring the G450/G700 Media Gateway to send SNMP traps to the primary server can be accomplished by two commands:

- Layer 2 Switching Processor CLI command: `set snmp community trap [community string]`
- Media Gateway Processor (MGP) CLI command: `set snmp trap <IP address> enable`

---

### Configure an SNMP community string for traps

SNMP requires community strings to be used for each SNMP "request". Only three community strings can be set — one each for read requests, write requests, and traps. The command for traps is `set snmp community trap [community string]`.

To configure an SNMP community string for traps

1. Open the Run dialog box.
2. Enter `telnet <IP address of L2 Processor>`
3. Log in as **root**.
4. At the L2 Processor CLI prompt, enter `set snmp community trap [community string]`
5. Enter **exit**

---

### Configure the destination for G450/G700 SNMP traps

Events occurring on the G450/G700 cause SNMP traps to be generated. The MGP can be configured to send SNMP traps to any network management system (NMS) in the network, including the primary server. The MGP CLI `set snmp trap` command is the way to configure the NMS network element that will receive those traps. The traps are sent in User Datagram Protocol (UDP) on the customer's IP network.

## Avaya Media Gateway Traps

The command syntax is:

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

where **<IP address>** is the IP address of the NMS trap receiver that will be receiving the traps from the G450/G700, and

**[*{all|power|temp|app|module|config|voice|operations}*]** indicates the groups whose traps will be sent to the specified receiver. If no keywords follow the IP address entry, then all traps will be enabled for the specified receiver.

If "enable" or "disable" is used without a trap designation keyword, then all traps is assumed. Up to ten trap receivers can be configured.

To configure the destination for media gateway SNMP traps

1. From the L2 Processor CLI, enter **session mgp**
2. At the **mg-xxx-n(super-user)** prompt, enter **configure**
3. At the **mg-xxx-n(configure)** prompt, enter **set snmp trap <IP address> enable**
4. Enter **exit**

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## Media Gateway Traps and Resolutions

Although alarms can be viewed from the primary server, they are normally resolved from within the media gateway. The media gateway generates the following traps. Follow the error

resolution procedures in [Table 5: Media Gateway Traps and Resolutions](#) to resolve errors indicated by these traps.

**Table 5: Media Gateway Traps and Resolutions 1 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
1	2	WRN	<p>cmgMultipleFanFault — At least two media gateway fans have been operating at less than 90% of their nominal speed for 5 minutes or more. This may be an early warning of overheating.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Media Gateway Processor (MGP) Command Line Interface (CLI) command <code>show faults</code> to display any faults on the media gateway. Check for voltage alarms first. If it is a voltage alarm, fix the voltage alarm. Low voltage may be responsible for slower fans. Voltage may be reduced by a short in one of the media modules or there may be a bad power supply. Systematically remove each media module to determine if one of the media modules is responsible for reducing the voltage levels.</li> <li>2. If there is a fan/temperature fault, check to see if the fans are working, and/or if there is sufficient space around the media gateway for air circulation.</li> <li>3. If none of the voltages are out of tolerance, but the PSU status indicates failure, replace the entire media gateway. Fans and the PSU are not field replaceable.</li> </ol>
1	3	WRN	<p>cmgMultipleFanClear - at least three fans are operating normally. The system should be operable indefinitely without overheating.</p>

**1 of 22**

**Table 5: Media Gateway Traps and Resolutions 2 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
2	4	MIN	<p>cmgPsuFanBriefFault — The power supply fan has been operating at less than 90% of its optimal speed for 10 minutes or more, but less than 15 minutes. This may be an early warning of overheating.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Media Gateway Processor (MGP) Command Line Interface (CLI) command <code>show faults</code> to display any faults on the media gateway. Check for voltage alarms first. If it is a voltage alarm, fix the voltage alarm. Low voltage may be responsible for slower fans. Voltage may be reduced by a short in one of the media modules or there may be a bad power supply. Systematically remove each media module to determine if one of the media modules is responsible for reducing the voltage levels.</li> <li>2. If there is a fan/temperature fault, check to see if the fans are working, and/or if there is sufficient space around the media gateway for air circulation.</li> <li>3. If none of the voltages are out of tolerance, but the PSU status indicates failure, replace the entire media gateway. Fans and the PSU are not field replaceable.</li> </ol>
2	5	MIN	<p>cmgPsuFanBriefClear - The power supply fan is operating normally.</p>

Table 5: Media Gateway Traps and Resolutions 3 of 22

Event ID	Trap #	Alarm Level	Description / Recommendation
3	6	MIN	<p>cmgPsuFanProlongedFault — The power supply fan has been operating at less than 90% of its optimal speed for 15 minutes or more. This may be an early warning of overheating.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Media Gateway Processor (MGP) Command Line Interface (CLI) command <code>show faults</code> to display any faults on the media gateway. Check for voltage alarms first. If it is a voltage alarm, fix the voltage alarm. Low voltage may be responsible for slower fans. Voltage may be reduced by a short in one of the media modules or there may be a bad power supply. Systematically remove each media module to determine if one of the media modules is responsible for reducing the voltage levels.</li> <li>2. If there is a fan/temperature fault, check to see if the fans are working, and/or if there is sufficient space around the media gateway for air circulation.</li> <li>3. If none of the voltages are out of tolerance, but the PSU status indicates failure, replace the entire media gateway. Fans and the PSU are not field replaceable.</li> </ol>
3	7	MIN	cmgPsuFanProlongedClear - The power supply fan is operating normally.
	8 - 9		Reserved
			<b>3 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 4 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
4	10	MIN	<p>cmgCpuTempWarningFault — The temperature sensor at the CPU has exceeded its warning threshold.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Media Gateway Processor (MGP) Command Line Interface (CLI) command <b>show faults</b> to display any faults on the media gateway.</li> <li>2. If there is a temperature fault, turn off the media gateway and allow it to cool.</li> <li>3. Reboot the media gateway. Check to see if the fans are working and/or if there is sufficient space around the media gateway for air circulation. Use the MGP CLI <b>show faults</b> command to check for fan problems.</li> <li>4. Low voltage may be responsible for slower fans. Voltage may be reduced by a short in one of the Media Modules or a bad power supply. If there are no fan faults, use the MGP CLI command <b>show voltages</b> to display voltages applied to components on the motherboard and to the Media Modules.</li> <li>5. If the Media Module voltage is out of tolerance, systematically, remove each Media Module to determine if one of the Media Modules is responsible for reducing the voltage level. If one is found, replace the Media Module.</li> <li>6. If no Media Module is found to be bad, the power supply is suspect. Replace the media gateway.</li> </ol>
4	11	MIN	<p>cmgCpuTempWarningClear - The temperature sensor at the CPU has dropped below its warning threshold.</p>



Table 5: Media Gateway Traps and Resolutions 5 of 22

Event ID	Trap #	Alarm Level	Description / Recommendation
5	12	MIN	<p>cmgDspTempWarningFault — The temperature sensor at the DSP complex has exceeded its warning threshold.</p> <ol style="list-style-type: none"> <li>1. Verify there are faults in the system. Use the Media Gateway Processor (MGP) Command Line Interface (CLI) command <b>show faults</b> to display any faults on the media gateway.</li> <li>2. If there is a temperature fault, turn off the media gateway and allow it to cool.</li> <li>3. Reboot the media gateway. Check to see if the fans are working and/or if there is sufficient space around the media gateway for air circulation.</li> <li>4. Low voltage may be responsible for slower fans. Voltage may be reduced by a short in one of the Media Modules or a bad power supply. If there are no fan faults, use the MGP CLI command <b>show voltages</b> to display voltages applied to components on the motherboard and to the Media Modules.</li> <li>5. If the Media Module voltage is out of tolerance, systematically, remove each Media Module to determine if one of the Media Modules is responsible for reducing the voltage level. If one is found, replace the Media Module.</li> <li>6. If no Media Module is found to be bad, the power supply is suspect. Replace the media gateway.</li> </ol>
5	13	MIN	cmgDspTempWarningClear - The temperature sensor at the DSP complex has dropped below its warning threshold.
6	14	MAJ	<p>cmgTempShutdownFault — The CPU temperature sensor has exceeded its shutdown threshold. The system is about to begin controlled shutdown.</p> <ol style="list-style-type: none"> <li>1. Turn off the media gateway and allow it to cool.</li> <li>2. Check the fans and replace the media gateway as necessary. Fans are not field-replaceable.</li> </ol>
6	15		Reserved
			<b>5 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 6 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
7	16	MAJ	cmgMgpPowerFault — The voltage reading at the +5.1V power source serving the media gateway processor is out of tolerance.  1. Replace the power supply only if the problem is persistent. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.
7	17	MAJ	cmgMgpPowerClear - The voltage reading at the +5.1V power source serving the media gateway processor is back within its tolerance range.
8	18	MAJ	cmgMediaModulePowerFault — The voltage reading at the -48V power source serving the media modules is out of tolerance.  1. Replace the power supply only if the problem is persistent. do not replace the power supply if there is a suspected voltage spike or temporary brown-out.
8	19	MAJ	cmgMediaModulePowerClear - The voltage reading at the -48V power source serving the media modules is back within its tolerance range.
9	20	MAJ	cmgVoipPowerFault — The voltage reading at the +3.4V power source serving the VoIP complexes is out of tolerance.  1. Replace the power supply only if the problem is persistent. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.
9	21	MAJ	cmgVoipPowerClear - The voltage reading at the +3.4V power source serving the VoIP complexes is back within its tolerance range.
10	22	MAJ	cmgDspPowerFault — The voltage reading at the +1.58V power source serving the DSP units is out of tolerance.  1. Replace the power supply only if the problem is persistent. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.
10	23	MAJ	cmgDspPowerClear - The voltage reading at the +1.58V power source serving the DSP units is back within its tolerance range.

**6 of 22**

**Table 5: Media Gateway Traps and Resolutions 7 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
11	24	MAJ	cmg8260PowerFault — The voltage reading at the +2.5V power source serving the 8260 processor is out of tolerance.  1. Replace the power supply only if the problem is persistent. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.
11	25	MAJ	cmg8260PowerClear - The voltage reading at the +2.5V power source serving the 8260 processor is back within its tolerance range.
12	26	MAJ	cmgAuxPowerFault - The voltage reading at the -48V auxiliary power source serving the end points is out of tolerance.  1. No action is required.
12	27	MAJ	cmgAuxPowerClear - The voltage reading at the -48V auxiliary power source serving the end points is back within its tolerance range
13	28	MAJ	cmgFanPowerFault - The voltage reading at the +12V auxiliary power source serving the fans is out of tolerance.  1. Replace the power supply only if the problem is persistent. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.
13	29	MAJ	cmgFanPowerClear - The voltage reading at the +12V auxiliary power source serving the fans has returned to within its tolerance range.
			<b>7 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 8 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
14	30	MAJ	<p>cmgSyncSignalFault — Synchronization signal lost.</p> <ol style="list-style-type: none"> <li>1. Check that the provisioned clock-sync source has a good signal by entering the Media Gateway Processor (MGP) Command Line Interface (CLI) command <b>show sync timing</b></li> </ol> <p>Procedure for setting synchronization timing sources on E1/T1 MM or MM710:</p> <ol style="list-style-type: none"> <li>1. Be sure that the E1/T1 MM has been added properly on the server, otherwise, using the System Access Terminal (SAT), enter the <b>add ds1</b> command before using the MGP CLI and entering a <b>set sync interface</b> or <b>set sync source</b> command. Otherwise, the MGP CLI will not allow these commands to be executed.</li> <li>2. Using the MGP's CLI, first specify the primary and secondary clock sources for synchronizing the E1/T1 span with the <b>set synch interface</b> command. Note: The internal clock source is not specified from the CLI - only the primary and secondary. The local clock is "built-in" and not administrable.</li> <li>3. Enter a <b>set sync source</b> command to set to the specific MM710 E1/T1 Media Module to be used as the active clock reference.</li> <li>4. Verify whether or not these commands were executed by entering <b>show sync timing</b> to ensure that the source is provisioned and active, or visually inspect the Yellow LED on the MM710 Media Module. Note: When the Yellow LED is on 2.7 seconds and off 0.3 seconds, this means the tone-clock synchronizer is in "active" mode, and an external synchronization source is being used as a synchronization reference. Setting the sync timing was successful. When the Yellow LED is on 0.3 seconds and off 2.7 seconds, this means the tone-clock synchronizer is in "active" mode and the internal (on-board) clock is being used as a synchronization reference. Setting the sync timing was not successful.</li> </ol>

Table 5: Media Gateway Traps and Resolutions 9 of 22

Event ID	Trap #	Alarm Level	Description / Recommendation
14 (cont'd)	30	MAJ	<p>5. Verify whether or not these commands were executed by entering <code>show sync timing</code> to ensure that the source is provisioned and active, or visually inspect the Yellow LED on the MM710 Media Module.</p> <p>Note: When the Yellow LED is on 2.7 seconds and off 0.3 seconds, this means the tone-clock synchronizer is in “active” mode, and an external synchronization source is being used as a synchronization reference. Setting the sync timing was successful.</p> <p>When the Yellow LED is on 0.3 seconds and off 2.7 seconds, this means the tone-clock synchronizer is in “active” mode and the internal (on-board) clock is being used as a synchronization reference. Setting the sync timing was not successful.</p> <p>6. If there is more than one MM710 Media Module, and they have been set up as primary and secondary, this behavior could be on the second and not the timing of the bus.</p> <p>For more details, please consult the maintenance documentation under LEDs and E1/T1 Media Module, or see <a href="http://support.avaya.com/elmodocs2/S8300/cd/index.htm">http://support.avaya.com/elmodocs2/S8300/cd/index.htm</a></p>
14	31	MAJ	cmgSyncSignalClear - Synchronization signal normal.
15	32	MAJ	<p>cmgVoipHardwareFault — One or more of the DSP complexes serving the VoIP engines has failed.</p> <ol style="list-style-type: none"> <li>1. Check the IP configuration.</li> <li>2. Reset or replace the Media Module.</li> </ol>
15	33	MAJ	cmgVoipHardwareClear - All of the DSP complexes serving the VoIP engines are back in service.
	34 - 49		Reserved
	50		cmgModuleRemove - A media modules has been removed.
	51		Reserved
16	52	MAJ	<p>cmgModuleInsertFault — Media module insertion sequence has failed.</p> <ol style="list-style-type: none"> <li>1. Reset or replace the media module.</li> </ol>
			<b>9 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 10 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
	53		cmgModuleInsertSuccess - A media module has been inserted.
	54		cmgMgBusyout - An administrator has moved a media module or port to the busy-out state.
	55		cmgMgRelease — An administrator has moved a media module or port from the busy-out state back into service.
	56 – 69		Reserved
	70		cmgFirmwareDownloadBegun - The media gateway has begun download of a software module.
	71		cmgFirmwareDownloadSuccess - The media gateway has completed successful download of a software module.
	72		Reserved
	73		cmgRegistrationSuccess - The media gateway has successfully registered with a controller.
	74		cmgMgManualReset - The media gateway is beginning a user-requested reset operation.
	75		cmgModuleManualReset - A media module is beginning a user-requested reset operation.
	76		cmgVoipManualReset - A VoIP engine is beginning a user-requested reset operation.
	77		cmgDsuManualReset - An E1/T1 DSU is beginning a user-requested reset operation.
	78		cmgConfigUploadBegun — The Media Gateway has begun upload of a configuration file.
	79		cmgConfigUploadSuccess — The Media Gateway has completed successful upload of a configuration file.
	80 - 89		Reserved
			<b>10 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 11 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
17	90	MAJ	<p>cmgMemoryFault — The Media Gateway Processor has detected a low processor memory condition.</p> <ol style="list-style-type: none"> <li>1. Check the Media Gateway Processor and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>2. If this trap occurs infrequently and is automatically cleared, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>3. If this trap occurs frequently and is automatically cleared, it is likely that the Media Gateway Processor software has the wrong limits set for its memory monitoring. These limits are hard coded in the software. Escalate the problem.</li> <li>4. If this trap occurs and does not clear, the Media Gateway may be functionally impaired. Do not reset the Media Gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> <li>5. If this trap occurs and the Media Gateway Processor automatically resets, then a severe processor memory shortage occurred. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>
17	91	MAJ	cmgMemoryClear - The main processor memory has returned to normal operation.
18	92	MAJ	<p>cmgDhcpRequestFault — The Media Gateway cannot contact its DHCP server or the server failed to respond to a request.</p> <ol style="list-style-type: none"> <li>1. Correct the DHCP problem, or correct the media gateway configuration file.</li> </ol>
18	93	MAJ	cmgDhcpRequestClear - The media gateway received a successful response to a DHCP request.
			<b>11 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 12 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
19	94	MAJ	<p>cmgFirmwareDownloadFault — An attempt to download a software module has failed.</p> <ol style="list-style-type: none"> <li>1. Check the event log to find the specific error.</li> <li>2. Troubleshoot the specific error according to the information found.  For example, if “File not found” appears in the log, then verify that the image file:                             <ol style="list-style-type: none"> <li>a. Exists</li> <li>b. Has the correct name</li> <li>c. Resides in the correct directory</li> </ol> </li> <li>3. If the error cannot be resolved after following the above procedure, reboot the media gateway.</li> </ol>
19	95		Reserved
20	96	WRN	<p>cmgProcessRestartFault — a software process on the Media Gateway Processor failed. The Media Gateway Processor will attempt to restart the failed process. A successful restart of the process will clear this trap</p> <ol style="list-style-type: none"> <li>1. Check the Media Gateway Processor and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>2. If this trap occurs infrequently and is automatically cleared, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>3. If the trap occurs frequently and is automatically cleared, it may indicate an issue with a particular software module. Reset the Media Gateway at a time convenient with the customer. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> <li>4. If the trap occurs and does not clear, the Media Gateway may be functionally impaired. Reset the Media Gateway at a time convenient with the customer and consistent with the impairment. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>



Table 5: Media Gateway Traps and Resolutions 13 of 22

Event ID	Trap #	Alarm Level	Description / Recommendation
20	97	WRN	cmgProcessRestartClear - Media gateway software processes are running normally.
21	98	MAJ	cmglccMissingFault — An internal communications controller, expected in Slot 1, is missing. <ol style="list-style-type: none"> <li>1. Check for the presence of an S8300.</li> <li>2. If present, check the media gateway administration.</li> <li>3. If the administration is correct, suspect the S8300.</li> </ol>
21	99	MAJ	cmglccMissingClear - The Internal Communications Controller expected in slot 1 is present.
22	100	MAJ	cmglccAutoReset — The Media Gateway automatically reset the Internal Communications Controller. <ol style="list-style-type: none"> <li>1. If the problem persists, escalate.</li> </ol>
22	101	MAJ	cmglccAutoResetClear - The Internal Communications Controller is running normally.
23	102	MAJ	cmgPrimaryControllerFault — The Media Gateway cannot contact the first controller in its controller list. <ol style="list-style-type: none"> <li>1. Verify that the controller list is correct. From the MGP CLI, enter the command <code>show mgc list</code>. The IP address should match the S8700-series Server C-LAN or the S8300 Server IP address. If the IP addresses match, go to step 3.</li> <li>2. If needed, correct this in 'configure' mode on the MGP's CLI by clearing the mgc list first with the <code>clear mgc list</code> command, and then enter <code>set mgc list</code> with the correct IP addresses.</li> <li>3. Verify that the primary controller is up.</li> <li>4. If so, shut down every LSP.</li> </ol>
23	103	MAJ	cmgPrimaryControllerClear - The media gateway successfully contacted the first controller in its controller list.

13 of 22

Table 5: Media Gateway Traps and Resolutions 14 of 22

Event ID	Trap #	Alarm Level	Description / Recommendation
24	104	MAJ	<p>cmgNoControllerFault — The Media Gateway cannot contact any controller in its controller list.</p> <ol style="list-style-type: none"> <li>1. Verify that the controller list is empty. From the MGP CLI, enter the command <code>show mgc list</code> to verify that there are no controllers listed.</li> <li>2. If none are listed, add the correct IP address of the S8700-series server or S8300. In 'configure' mode on the MGP's CLI, enter <code>set mgc list</code> with the correct IP address.</li> </ol>
24	105	MAJ	<p>cmgNoControllerClear - The media gateway successfully contacted one of the controllers in its controller list.</p>
25	106	MAJ	<p>cmgRegistrationFault — The Media Gateway cannot register with any controllers in its controller list.</p> <ol style="list-style-type: none"> <li>1. Verify that the controller list is correct. From the MGP CLI, enter the command <code>show mgc list</code>. The IP address should match the S8700-series Server C-LAN or the S8300 Server IP addresses.</li> <li>2. If needed, correct this in 'configure' mode on the MGP's CLI by clearing the mgc list with <code>clear mgc list</code>, then entering <code>set mgc list</code> with the correct IP addresses.</li> <li>3. If the IP address in the mgc list matches the S8700-series Server C-LAN or the S8300 Server IP addresses, there may be a network problem.</li> <li>4. Verify that the primary controller is up.</li> <li>5. If the above steps do not fix the problem, reboot the media gateway.</li> </ol>
25	107		Reserved

14 of 22

**Table 5: Media Gateway Traps and Resolutions 15 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
26	108	MIN	<p>cmgH248LinkDown — The H.248 link between the Media Gateway and its controller is down.</p> <ol style="list-style-type: none"> <li>1. Check the S8300 or S8700-series server.</li> <li>2. If it is down, bring it up.</li> <li>3. If it is <b>not</b>, check the media gateway administration.</li> </ol> <p>Since the following command causes a brief service outage, it should only be executed at the customer's convenience.</p> <ol style="list-style-type: none"> <li>4. If the administration is correct, reboot the media gateway.</li> <li>5. If the problem persists, check network connectivity. Use <b>ping</b> or <b>traceroute</b> to the S8700-series server or S8300 to check connectivity.</li> <li>6. If the problem persists, escalate.</li> </ol>
26	109	MIN	cmgH248LinkUp - The H.248 link between the media gateway and its controller is back in service.
27	110	MIN	<p>cmgTestFault - Maintenance tests have failed.</p> <ol style="list-style-type: none"> <li>1. Refer to the specific maintenance object failure for diagnosis.</li> </ol>
27	111	MIN	cmgTestClear - Previously failed maintenance tests have passed.
28	112	MAJ	cmgTestThresholdFault - The maintenance test failure count has exceeded its reporting threshold. No action is required.
28	113	MAJ	cmgTestThresholdClear - The maintenance test failure count has dropped below its reporting threshold.
			<b>15 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 16 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
29	114	WRN	<p>cmgMgAutoReset — The Media Gateway Processor automatically reset (rebooted). The processor automatically resets when a critical error occurs from which it cannot recover. The error may be software or hardware related. It may automatically reset when it reregisters with a call controller after being out of touch for too long. This trap is generated as the Media Gateway Processor comes back up after resetting. If the Media Gateway Processor resets and fails to come back up, this trap will not be generated.</p> <ol style="list-style-type: none"> <li>1. Check to see if a maintenance test that is supposed to reset the processor was run.</li> <li>2. Check that the reset was not due to the link with the call controlling going down. If the reset is due to a link failure with the call controller, follow call controller link failure troubleshooting procedures.</li> <li>3. Check the Media Gateway Processor and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>4. If this trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>5. If this trap occurs and the Media Gateway Processor is frequently resetting, manually reset the media gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> <li>6. If this trap occurs frequently and the Media Gateway Processor is not resetting, the Media Gateway may be functionally impaired and is not capable of resetting itself to restore service. If service is impaired, reset the Media Gateway manually. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>
29	115		Reserved

**16 of 22**

**Table 5: Media Gateway Traps and Resolutions 17 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
30	116	WRN	<p>cmgModuleAutoReset — A Media Module in the Media Gateway automatically reset (rebooted). A Media Module automatically resets when it fails a sanity test performed by the Media Gateway Processor.</p> <ol style="list-style-type: none"> <li>1. Check to see if a maintenance test that is supposed to reset the Media Module was run.</li> <li>2. Check the Media Module and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>3. If this trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>4. If this trap occurs and the Media Module does not return to service, or if this trap occurs frequently, attempt to reset the failing module from the SAT or CLI and see if this returns it to stable service.</li> <li>5. If manually resetting the Media Module does not return it to service, and if a spare Media Module of the same time is available, replace the failing Media Module with the spare and see if the spare Media Module goes into service. If so, follow procedures for dealing with the original, bad, Media Module.</li> <li>6. If the spare Media Module fails to go into service, it is of course possible that the spare Media Module is bad as well. But that aside, try manually resetting the Media Gateway Processor at a time convenient to the customer and see if this restores service. If so, the both the original and the spare Media Modules can probably be considered okay, and the problem is probably with the Media Gateway Processor itself. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.</li> </ol>
30	117	WRN	cmgModuleAutoResetClear - The reset media module is operating normally.
			<b>17 of 22</b>

**Table 5: Media Gateway Traps and Resolutions 18 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
32	118	MIN	cmgModulePostFault — A Media Module failed its power-on start-up test.  1. Reset or replace the Media Module.
32	119	MIN	cmgModulePostClear - The media module power-on start-up test was successful.
33	120	MIN	cmgModuleParameterFault - A media module failed its parameter exchange.  1. Manually reboot the media gateway at a convenient time. 2. If the problem persists, escalate.
33	121	MIN	cmgModuleParameterClear - The media module’s parameter exchange succeeded.
34	122	MAJ	cmgConfigUploadFault — An attempt to upload a configuration file failed.  1. Check the event log for an error message during the backup/restore process. 2. Troubleshoot the specific error according to the information found. 3. Retry the upload (backup) command; for example:  <code>copy mgp-config tftp &lt;filename&gt; &lt;ip address&gt;</code>  Since the following command causes a brief service outage, it should only be executed at the customer’s convenience. 4. If the problem persists, reboot the media gateway.
	123		Reserved
35	124	MIN	cmgVoipOccFault - One or more of the VoIP engines in the media gateway is over its occupancy threshold as measured by a snapshot: (Channels In Use/Total Channels). No action is required.
35	125	MIN	cmgVoipOccClear - All of the VoIP engines in the media gateway are operating below occupancy threshold.

**Table 5: Media Gateway Traps and Resolutions 19 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
36	126	MIN	cmgVoipAvgOccFault - One or more of the VoIP engines in the media gateway is operating above its average occupancy threshold. No action is required.
36	127	MIN	cmgVoipAvgOccClear - All of the VoIP engines in the media gateway are operating below occupancy threshold.
37	128	WRN	<p>cmgVoipAutoReset — A VoIP (Voice Over IP) module in the Media Gateway automatically reset (rebooted). A VoIP module automatically resets when it fails a sanity test performed by the Media Gateway Processor, when its IP address is administered, or when it fails a ping test performed by the Media Gateway Processor against the VoIP module's IP address.</p> <ol style="list-style-type: none"> <li>1. Check to see if a maintenance test that is supposed to reset the VoIP module was run.</li> <li>2. Check to see if the VoIP module had its IP address re-administered.</li> <li>3. Check to see if the IP address administered on the VoIP module is correct.</li> <li>4. Check to see if the IP address of the Media Gateway itself can be pinged. Physical or logical connectivity issues (cabling or routing problems) in the data network can cause ping failures.</li> <li>5. Check the VoIP module and insure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.</li> <li>6. If this trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.</li> <li>7. If this trap occurs and the VoIP module does not return to service, or if this trap occurs frequently, attempt to reset the failing module from the SAT or CLI and see if this returns it to stable service.</li> </ol>

**19 of 22**

Table 5: Media Gateway Traps and Resolutions 20 of 22

Event ID	Trap #	Alarm Level	Description / Recommendation
37 (cont'd)	128	WRN	<p>8. If manually resetting the VoIP module does not return it to service, and if a spare VoIP module of the same type is available, replace the failing VoIP module with the spare and see if the spare VoIP module goes into service. If so, follow procedures for dealing with the original, bad, VoIP module.</p> <p>9. If the spare VoIP module fails to go into service, it is of course possible that the spare VoIP module is bad, as well. There may be a power issue, also.</p> <p>10. Try manually resetting the Media Gateway Processor at a time convenient to the customer and see if this restores service. If so, both the original and the spare VoIP modules can probably be considered okay, and the problem is probably with the Media Gateway Processor itself. Capture the trap information. If possible, capture the event logs, using the <code>show event-log</code> CLI command, for analysis. Escalate.</p> <p>If none of this works, capture the trap information. If possible, capture the event logs, using the <code>show event-log</code> CLI</p>
37	129	WRN	cmgVoipAutoResetClear - A VoIP engine has completed its automatic reset and is running normally.
39	130	MAJ	cmgDsuFpgaConfigureFault - The DSU in one of the E1/T1 media modules failed to configure its Field Programmable Gateway Array. No action is required.
39	131	MAJ	cmgDsuFpgaConfigureClear - The DSU in one of the E1/T1 media modules successfully configured its Field Programmable Gateway Array.
40	132	WRN	cmgDsuAutoReset - A DSU in one of the E1/T1 media modules began an automatic reset. No action is required.
40	133	WRN	cmgDsuAutoClear - A DSU in one of the E1/T1 media modules completed its automatic reset and is running normally.
41	134	MIN	cmgDsuDteDtrFault - One of the E1/T1 media modules has detected that the DTR signal from its DTE is off. This indicates that the DTE is not connected or not functioning.
41	135	MIN	cmgDsuDteDtrClear - One of the E1/T1 media modules has detected that the DTR signal from its DTE has returned to normal.

20 of 22



**Table 5: Media Gateway Traps and Resolutions 21 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
42	136	MIN	cmgDsuDteRtsFault - An E1/T1 media module has detected that the RTS signal from its DTE is off whenever the DTE requests to send data and during data transfer. This indicates that the DTE is not functioning.
42	137	MIN	cmgDsuDteRtsClear - An E1/T1 media module has detected that the RTS signal from its DTE has returned to normal.
43	138	MAJ	cmgDsuTxDFault - An E1/T1 media module has detected that the data received from the local DTE to be sent to the far end is either all ones or all zeroes.
43	139	MAJ	cmgDsuTxDClear - The E1/T1 media module is receiving normal data from the local DTE to be sent to the far end.
44	140	MAJ	cmgDsuRxDFailure - An E1/T1 media module has detected that the data received from the far end to be sent to the local DTE is either all ones or all zeroes.
44	141	MAJ	cmgDsuRxDClear - The E1/T1 media module is receiving normal data from the far end to be sent to the local DTE.
45	34	WRN	cmgSyncSignalWarn - A change to the port status of a board that is providing sync timing has occurred. There is only one good port out of the >1 ports configured. If this port goes out of service, trap # 30, cmgSyncSignalFault, is generated.
45	35	WRN	cmgSyncWarnClear - More than one port is in service on a board that is providing sync timing.
46	142	MIN	cmgVoipIpConfigFault - There are two possible causes: <ol style="list-style-type: none"> <li>1. Duplicate IP address</li> <li>2. VoIP failed to initialize.</li> </ol> <p>Examine the event log to determine which failure caused the event.</p>
46	143	MIN	cmgVoipIpConfigClear - The duplicate IP address has been changed or the VoIP reset to re-initialize.
47	144	RES	The Media Gateway is now registered to the reporting server. Alarm has been cleared.

**21 of 22**

**Table 5: Media Gateway Traps and Resolutions 22 of 22**

Event ID	Trap #	Alarm Level	Description / Recommendation
48	145	MIN	G450/700 Media Gateway has de-registered (transient loss of registration) from the reporting server.
49	146	MAJ	G450/700 Media Gateway has unregistered (registration lost) from the reporting server. All board and call information has been cleared.
50		MAJ	G350 Media Gateway is now registered to the reporting server.
51		MIN	G350 Media Gateway has de-registered (transient loss of registration) from the reporting server.
52		MAJ	G350 Media Gateway has unregistered (registration lost) from the reporting server.
			<b>22 of 22</b>

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## G450 R2 Gateway Traps

If time slots are unavailable for announcement, G450 R2 generates two SNMP traps in the H.248 gateway to report the following:

- time slot occupancy data based on a customer-administered percentage
- time slot occupancy at 100%

G450 R2 then sends the time slot occupancy data to the CM syslog and generates a warning on FPM at 90% and 100% occupancy.

# Index

## A

alarm format	
G700 media gateway . . . . .	<a href="#">5</a>
Alarms	
configuring . . . . .	<a href="#">8</a>
SNMPv3 . . . . .	<a href="#">8</a>

## C

configure	
G700 with S8300 . . . . .	<a href="#">6</a>

## D

diagnostics	
G700 . . . . .	<a href="#">5</a>

## E

Event log . . . . .	<a href="#">8</a>
---------------------	-------------------

## G

G700	
alarm format . . . . .	<a href="#">5</a>
diagnostics . . . . .	<a href="#">5</a>
traps and alarms . . . . .	<a href="#">5</a>
G700 Media Gateway	
SNMP alarming. . . . .	<a href="#">6</a>

## L

Log	
event . . . . .	<a href="#">8</a>
trap . . . . .	<a href="#">8</a>

## S

SNMP. . . . .	<a href="#">8</a>
SNMPv3 alarms . . . . .	<a href="#">8</a>
SNMPv3 authentication . . . . .	<a href="#">9</a>
trap	
log . . . . .	<a href="#">8</a>
SNMP alarming on G700 . . . . .	<a href="#">6</a>

## T

Trap	
error resolution procedures . . . . .	<a href="#">11</a>
resolution . . . . .	<a href="#">11</a>
traps	
G700 . . . . .	<a href="#">5</a>

