

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

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#### Virtualization

Each Product has its own ordering code. Note that each instance of a Product must be separately licensed and ordered. "Instance" means one unique copy of the Software. For example, if the end user customer or Business Partner would like to install 2 instances of the same type of Products, then 2 Products of that type must be ordered.

#### How to Get Help

For additional support telephone numbers, go to the Avaya support Website: <a href="http://www.avaya.com/support">http://www.avaya.com/support</a>. If you are:

- Within the United States, click the Escalation Contacts link that is located under the Support Tools heading. Then click the appropriate link for the type of support that you need.
- Outside the United States, click the Escalation Contacts link that is located under the Support Tools heading. Then click the

International Services link that includes telephone numbers for the international Centers of Excellence.

#### **Providing Telecommunications Security**

Telecommunications security (of voice, data, and/or video communications) is the prevention of any type of intrusion to (that is, either unauthorized or malicious access to or use of) your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf. Whereas, a "malicious party" is anyone (including someone who may be otherwise authorized) who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time-multiplexed and/or circuit-based), or asynchronous (character-, message-, or packet-based) equipment, or interfaces for reasons of:

- · Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll facility access)
- · Eavesdropping (privacy invasions to humans)
- · Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company (including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

#### Responsibility for Your Company's Telecommunications Security

The final responsibility for securing both this system and its networked equipment rests with you - Avaya's customer system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- · Installation documents
- · System administration documents
- Security documents
- Hardware-/software-based security tools
- · Shared information between you and your peers
- · Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure:

- Your Avaya-provided telecommunications systems and their interfaces
- Your Avaya-provided software applications, as well as their underlying hardware/software platforms and interfaces
- · Any other equipment networked to your Avaya products

#### **TCP/IP Facilities**

Customers may experience differences in product performance, reliability and security depending upon network configurations/design and topologies, even when the product performs as warranted.

#### **Product Safety Standards**

This product complies with and conforms to the following international Product Safety standards as applicable:

- IEC 60950-1 latest edition, including all relevant national deviations as listed in the IECEE Bulletin—Product Category OFF: IT and Office Equipment.
- CAN/CSA-C22.2 No. 60950-1 / UL 60950-1 latest edition.

This product may contain Class 1 laser devices.

- · Class 1 Laser Product
- · Luokan 1 Laserlaite
- Klass 1 Laser Apparat

#### **Electromagnetic Compatibility (EMC) Standards**

This product complies with and conforms to the following international EMC standards, as applicable:

- · CISPR 22, including all national standards based on CISPR 22.
- · CISPR 24, including all national standards based on CISPR 24.
- IEC 61000-3-2 and IEC 61000-3-3.

Avaya Inc. is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Avaya Inc. The correction of interference caused by such unauthorized modifications, substitution or attachment will be the responsibility of the user. Pursuant to Part 15 of the Federal Communications Commission (FCC) Rules, the user is cautioned that changes or modifications not expressly approved by Avaya Inc. could void the user's authority to operate this equipment.

#### **Federal Communications Commission Part 15 Statement:**

For a Class A digital device or peripheral:



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For a Class B digital device or peripheral:



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Equipment With Direct Inward Dialing ("DID"):

Allowing this equipment to be operated in such a manner as to not provide proper answer supervision is a violation of Part 68 of the FCC's rules.

Proper Answer Supervision is when:

- 1. This equipment returns answer supervision to the public switched telephone network (PSTN) when DID calls are:
  - · answered by the called station,
  - · answered by the attendant,
  - routed to a recorded announcement that can be administered by the customer premises equipment (CPE) user
  - · routed to a dial prompt
- 2. This equipment returns answer supervision signals on all (DID) calls forwarded back to the PSTN.

Permissible exceptions are:

- · A call is unanswered
- · A busy tone is received
- · A reorder tone is received

Avaya attests that this registered equipment is capable of providing users access to interstate providers of operator services through the use of access codes. Modification of this equipment by call aggregators to block access dialing codes is a violation of the Telephone Operator Consumers Act of 1990.

#### **Automatic Dialers:**

When programming emergency numbers and (or) making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities in the off-peak hours, such as early morning or late evenings.

#### **Toll Restriction and least Cost Routing Equipment:**

The software contained in this equipment to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

### For equipment approved prior to July 23, 2001:

This equipment complies with Part 68 of the FCC rules. On either the rear or inside the front cover of this equipment is a label that contains, among other information, the FCC registration number, and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

#### For equipment approved after July 23, 2001:

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council on Terminal Attachments (ACTA). On the rear of this equipment is a label that contains, among other information, a product identifier in the format

US:AAAEQ##TXXX. If requested, this number must be provided to the telephone company.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed 5.0.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas cinq.

To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXX. The digits represented by ## are the REN without a decimal point (for example, 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

#### Means of Connection:

Connection of this equipment to the telephone network is shown in the following table:

Manufact urer's Port Identifier	FIC Code	SOC/ REN/A.S. Code	Network Jacks
Off premises station	OL13C	9.0F	RJ2GX, RJ21X, RJ11C
DID trunk	02RV2.T	AS.2	RJ2GX, RJ21X, RJ11C
CO trunk	trunk 02GS2 0.3A		RJ21X, RJ11C
	02LS2	0.3A	RJ21X, RJ11C
Tie trunk	TL31M	9.0F	RJ2GX
Basic Rate Interface	02IS5	6.0F, 6.0Y	RJ49C
1.544 digital interface	04DU9.B N	6.0F	RJ48C, RJ48M
interrace	04DU9.1K N	6.0F	RJ48C, RJ48M
	04DU9.1S N	6.0F	RJ48C, RJ48M
120A4 channel service unit	04DU9.D N	6.0Y	RJ48C

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide

advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact the Technical Service Center at 1-800-242-2121 or contact your local Avaya representative. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

#### Installation and Repairs

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. It is recommended that repairs be performed by Avaya certified technicians.

#### FCC Part 68 Supplier's Declarations of Conformity

Avaya Inc. in the United States of America hereby certifies that the equipment described in this document and bearing a TIA TSB-168 label identification number complies with the FCC's Rules and Regulations 47 CFR Part 68, and the Administrative Council on Terminal Attachments (ACTA) adopted technical criteria.

Avaya further asserts that Avaya handset-equipped terminal equipment described in this document complies with Paragraph 68.316 of the FCC Rules and Regulations defining Hearing Aid Compatibility and is deemed compatible with hearing aids.

Copies of SDoCs signed by the Responsible Party in the U. S. can be obtained by contacting your local sales representative and are available on the following Web site: <a href="http://support.avaya.com/DoC">http://support.avaya.com/DoC</a>.

#### **Canadian Conformity Information**

This Class A (or B) digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A (ou B) est conforme à la norme NMB-003 du Canada.

This product meets the applicable Industry Canada technical specifications/Le présent materiel est conforme aux specifications techniques applicables d'Industrie Canada.

#### **European Union Declarations of Conformity**



Avaya Inc. declares that the equipment specified in this document bearing the "CE" (Conformité Europeénne) mark conforms to the European Union Radio and Telecommunications Terminal Equipment Directive (1999/5/EC), including the Electromagnetic Compatibility Directive (2004/108/EC) and Low Voltage Directive (2006/95/EC).

Copies of these Declarations of Conformity (DoCs) can be obtained by contacting your local sales representative and are available on the following Web site: <a href="http://support.avaya.com/DoC">http://support.avaya.com/DoC</a>.

#### **European Union Battery Directive**



Avaya Inc. supports European Union Battery Directive 2006/66/EC. Certain Avaya Inc. products contain lithium batteries. These batteries are not customer or field replaceable parts. Do not disassemble. Batteries may pose a hazard if mishandled.

#### Japan

The power cord set included in the shipment or associated with the product is meant to be used with the said product only. Do not use the cord set for any other purpose. Any non-recommended usage could lead to hazardous incidents like fire disaster, electric shock, and faulty operation.

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#### If this is a Class A device:

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective actions.

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#### If this is a Class B device:

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

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# **Chapter 1: Introduction**

This document describes the Gateway Traps for the G250, G350, G430,G450, and G700 Avaya Branch 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 Branch gateways. Serious traps trigger alarms which are communicated to an alarm management site.

Introduction

# **Chapter 2: Alarm Format**

Branch Gateways report alarms to the primary server (an S8300D,S8510, or duplicated servers) using SNMP traps. Like the alarms of the primary server, alarms from a Branch Gateway:

- Reside in the primary server 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 Branch Gateway as the maintenance object.
- 1 is the event's ID.

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

- A specific trap (such as Trap number 3) is the SNMP mechanism to clear an alarm logged by another specific trap (in this case, Trap number 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 number is reserved for future use.
- WRN is the event's severity.
- 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 Branch Gateway Processor (MGP).
- cmgMultipleFanFault is the trap name.

Alarm Format

# Chapter 3: SNMP alarm reporting for **Branch Gateways**

Setting up SNMP alarm reporting involves configuring the primary server to report alarms and configuring the Branch Gateway to send SNMP traps.

# Configuration of the primary server to send SNMP alarms

The primary server may be either an S8300D, S8510, and duplicated servers. The server supports two methods for reporting alarms. Either method, both, or no alarm-reporting method may be used at a given site.

### ■ Note:

The new S8800 servers do not support modem, instead report alarms to SAL gateway over LAN

- 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 System View 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.

### Adding INADS phone numbers and enabling alarms to INADS

#### About this task

Using the primary server's Linux shell command, you can administer the dial-out modem to send alarms in the OSS method. In this example, the primary server is S8300D, and the services support agency is Avaya's Initialization and Administration System (INADS).

### Before you begin

Ensure that:

- Communication Manager administration is complete.
- a USB modem is installed.
- the S8300D server is the primary controller. Use the information acquired from the ART tool. For information about the ART tool, see *Installing and Upgrading the Avaya S8300D Server*, 555-234-100 and *Installing and Upgrading the Avaya G700 Branch Gateway*, 03-603333.

#### **Procedure**

To add INADS phone numbers and enable alarms to INADS:

### **Procedure**

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

# Chapter 4: G250, G350, G430, and G450 traps

This section describes the set of traps that are defined for the Avaya G250, G350, and G450 Branch Gateway. The Avaya G250, G350, and G450 Branch Gateway uses SNMPv3 for traps and alarms.

The Dynamic Trap Manager feature of the G250, G350, G430, and G450 ensures that SNMP traps and alarms are always sent to the currently active Branch Gateway Controller. By default, the Dynamic Trap Manager sends all SNMP messages to the currently active MGC. Using the snmp-server dynamictrap-manager CLI command, you can configure the Dynamic Trap Manager to manage only a subset of SNMP messages.

## Configuring G250, G350, G430, and G450 to send SNMP alarms

#### About this task

Use the following procedure to configure the Avaya G250, G350, and G450 Branch Gateway to send SNMP traps to the primary server.

#### **Procedure**

- 1. Enable the SNMP agent.
- 2. Specify the SNMP host.
- 3. Setup SNMP authentication. Refer to CLI Commands on page 20 to perform these tasks using the CLI commands.



For dynamic trap manager, only v1/v2c traps is supported.

### **CLI** commands

**Table 1: CLI commands** 

Task Name	Command
Enabling the SNMP agent ip snmp-server	ip snmp-server
Specifying the SNMP host snmp-server host	snmp-server host
Creating an SNMPv3 view	snmp-server view viewname subtree
Creating an SNMPv3 group and specifying the views	snmp-server group groupname read readviewname write writeviewname notify notifyviewname
Creating a user and add the user to a group	nmp-server user username groupname

### Host configuration for G250, G350, G430, and G450 SNMP traps

Events occurring on the G250 and G350 Branch Gateways cause SNMP traps to be generated. The Avaya G250, G350, and G450 Branch 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 and G350 Branch Gateways CLI snmp-server host command. The traps are sent in User Datagram Protocol (UDP) on the customer 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

### **3** Note:

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

Refer to SNMPv3 Notification Types on page 21 for a full list of notification types that can be configured.

### **SNMPv3** notification types

Table 2: SNMPv3 notification types

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
branch-gateway	Branch 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
policy	Changes in policy (L3 devices) notifications
link-faults	link down notifications
filesys	Download/upload/backup/restore events.
tftp-server	tftp server events
ipsec	IPSEC events.

# Pre-configured views and groups for SNMPv3 authentication

To use SNMPv3 authentication, you must create users, groups, and views for the G250, G350 gateways.

The G250, G350 Branch Gateways provide several pre-configured views and groups for setting up SNMP authentication. Refer to Table 3 on page 22 and Table 4 on page 22 for a description of these objects and how they can be used.

Table 3: 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 subtreees.		
iso	A view providing maximal access, for users with admin privileges.		

Table 4: G250, G350 pre-configured groups

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
WriteCommG	v2	1 (noAuthNoPriv)	snmpv1View	snmpv1View	snmpv1View
v3ReadWrite G	v3 (USM)	3 (AuthPriv)	v3configview	v3configview	v3configview
v3ReadOnlyG	v3 (USM)	3 (AuthPriv)	v3configview		v3configview
initial	v3 (USM)	1 (noAuthNoPriv)	restricted	restricted	restricted

Group Name	Security Model	Security Level	Read View Name	Write View Name	Trap View Name
v3AdminView G	v3 (USM)	3 (AuthPriv)	iso	iso	iso

### G250, G350, G430, and G450 traps and resolutions

Although these alarms can be viewed from the primary server, they are normally resolved from within the Avaya G250, G350, and G450 Branch Gateway. The G250, G350/G450 generates the following traps. Follow the error resolution procedures in the sections below to resolve errors indicated by these traps.

### coldStart

**Enterprise** snmpTraps

Trap ID 1

Name coldStart

SNMP Filtering Group generic

Severity Warning

**Description** 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.

### warmStart

**Enterprise** snmpTraps

2 Trap ID

Name warmStart

SNMP Filtering Group generic

Severity Warning **Description** 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.

### **linkDown**

Enterprise snmpTrap

Trap ID 3

Name linkDown

SNMP Filtering Group generic

**Severity** Warning

**Description** There is a failure in one of the communication links in the agent's

configuration.

# linkUp

**Enterprise** snmpTraps

Trap ID 4

Name linkUp

SNMP Filtering Group generic

**Severity** Warning

**Description** One of the communication links in the agent's configuration has

come up.

### authenticFailure

**Enterprise** snmpTrap

Trap ID 5

Name authenticFailure

**SNMP Filtering Group** generic

Severity Notification

**Description** The protocol is not properly authenticated.

# risingAlarm

**Enterprise** rmonEventsV2

Trap ID 1

Name risingAlarm

**SNMP Filtering Group** rmon

Severity Warning

**Description** An alarm entry has crossed its rising threshold.

### fallingAlarm

rmonEventsV2 **Enterprise** 

Trap ID 2

Name fallingAlarm

**SNMP Filtering Group** rmon

Severity Warning

**Description** An alarm entry has crossed its falling threshold.

**Procedure** 

### frDLCIStatusChange

**Enterprise** frameRelayTraps

Trap ID 1

Name frDLCIStatusChange

SNMP Filtering Group wan

**Description** A DLCI has been created or deleted, or has state changes.

# IntConfigChangeEvent

Enterprise avayaG350

Trap ID 1

Name IntConfigChangeEvent

Severity Info

**Description** The configuration has been changed.

### deleteSWRedundancyTrap

Enterprise IntSWRedundancyEvents

Trap ID 12

Name deleteSWRedundancyTrap

SNMP Filtering Group sw-redundancy

Severity Info

**Description** A redundancy link has been deleted. Only supported by G350/G450/

G450.

### createSWRedundancyTrap

**Enterprise** avayaG350

Trap ID 13

Name createSWRedundancyTrap

Severity Info

Description A redundancy link has been created for the specified ports.

### duplicatelPTrap

**Enterprise** avayaG350

Trap ID 27

Name duplicateIPTrap

Severity Warning

Description A duplicate IP address has been identified.

### wanPhysicalAlarmOn

**Enterprise** avayaG350

30 Trap ID

Name wanPhysicalAlarmOn

Severity Critical

Description An E1/T1 serial cable has been disconnected.

### wanPhysicalAlarmOff

Enterprise avayaG350

Trap ID 31

Name wanPhysicalAlarmOff

**Severity** Notification

**Description** An E1/T1 serial cable has been reconnected.

### wanLocalAlarmOn

Enterprise avayaG350

Trap ID 32

Name wanLocalAlarmOn

**Severity** Error

**Description** A local alarm (such as LOS) has been generated.

### wanLocalAlarmOff

Enterprise avayaG350

Trap ID 33

Name wanLocalAlarmOff

Severity Notification

**Description** A local alarm (such as LOS) has been cleared.

### wanRemoteAlarmOn

**Enterprise** avayaG350

Trap ID 34

wanRemoteAlarmOn Name

Severity Error

Description A remote alarm (such as AIS) has been generated.

### wanRemoteAlarmOff

**Enterprise** avayaG350

Trap ID 35

wanRemoteAlarmOf Name

Severity Notification

Description A remote alarm (such as AIS) has been cleared.

### wanMinorAlarmOn

**Enterprise** avayaG350

36 Trap ID

Name wanMinorAlarmOn

Severity Warning

### wanMinorAlarmOff

**Enterprise** avayaG350 Trap ID 37

Name wanMinorAlarmOff

Severity Notification

### IntPolicyChangeEvent

**Enterprise** avayaG350

Trap ID 60

Name IntPolicyChangeEvent

Severity Info

The active policy list for the specified device or module has changed. Description

### ipPolicyAccessControlListLvlRuleTrap

**Enterprise** avayaG350

Trap ID 62

Name ipPolicyAccessControlListLvlRuleTrap

Description A packet fragment has been denied access on the specified interface.

### **IntPolicyAccessControlViolationFit**

**Enterprise** avayaG350

Trap ID 64

Name IntPolicyAccessControlViolationFit

Severity Warning

**Description** 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

30

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.

### **IntUnAuthorizedAccessEvent**

**Enterprise** avayaG350

Trap ID 68

IntUnAuthorizedAccessEvent Name

**Description** An attempt has been made to logon to the device with an invalid userid/

password.

### ipArpViolationTrap

**Enterprise** avayaG350

Trap ID 70

Name ipArpViolationTrap

### avEntFanFlt

Enterprise avEntTraps

Trap ID

Name avEntFanFlt

**SNMP Filtering Group** hardware

Severity error

**Description** An attempt has been made to logon to the device with an invalid

userid or password.

### Resolving the malfunctioning fan on the device

#### **Procedure**

- 1. Check if there are faults in the system. Use the Avaya G250, G350, and G450 Branch Gateway CLI command show faults to display any faults on the G250 and G350 Branch Gateways.
- 2. If there is a fan or temperature fault, check if the fans are working, and if there is sufficient space around the G250 and G350 for air circulation.
- 3. Maintenance software monitors voltages applied to the media modules and other components of the G250 and 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 and G350. Fans and the PSU are not field replaceable.

### avEntFanOk

**Enterprise** avEntTraps

Trap ID 2

Name avEntFanOk

Severity Notification

Description A faulty fan has returned to normal functioning.

### avEnt48vPwrFlt

**Enterprise** avEntTraps

Trap ID

avEnt48vPwrFlt Name

**SNMP Filtering Group** hardware

Notification Severity

Description

There is a problem with the 48V power supply.

### Resolving the problem with power supply

#### **Procedure**

- 1. Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250 and G350 Branch Gateways. Voltage may be reduced by a short in one of the media modules or a bad power supply.
- 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.
- 3. If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250 and G350 Branch Gateways. Use a power monitor to monitor the power line.
- 4. If a brown-out condition is suspected, use a power monitor to monitor the power
- 5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250 and G350 Branch Gateways.

### avEnt48vPwrFltOk

avEntTraps **Enterprise** 

Trap ID 5

Name avEnt48vPwrFltOk

SNMP Filtering Group hardware

Severity Error

Description The problem with the 48V power supply has been corrected.

### avEnt5vPwrFlt

**Enterprise** avEntTraps

Trap ID 7

Name avEnt5vPwrFlt

SNMP Filtering Group hardware

**Severity** Error

**Description** There is a problem with the 5V power supply.

### Resolving the problem with power supply

#### **Procedure**

- Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250 and G350 Branch Gateways.
   Voltage may be reduced by a short in one of the media modules or a bad power supply.
- Systematically, remove each media module to determine if one of the media modules is responsible for reducing the voltage levels. Replace faulty media module.
- If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250 and G350 Branch Gateways. Use a power monitor to monitor the power line.
- 4. If a brown-out condition is suspected, use a power monitor to monitor the power line.
- 5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250 and G350 Branch Gateways.

### avEnt5vPwrFltOk

Enterprise avEntTraps

Trap ID 8

Name avEnt5vPwrFltOk

SNMP Filtering Group hardware

Severity Notification

**Description** The problem with the 5V power supply has been corrected.

### avEnt3300mvPwrFlt

**Enterprise** avEntTraps

Trap ID 10

Name avEnt3300mvPwrFlt

**SNMP Filtering Group** hardware

**Severity** error

**Description** There is a problem with the 3.3V power supply.

### Resolving the problem with power supply

#### **Procedure**

- Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250 and G350 Branch Gateways.
   Voltage may be reduced by a short in one of the media modules or a bad power supply.
- 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.
- 3. If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250 and G350 Branch Gateways. Use a power monitor to monitor the power line.
- 4. If a brown-out condition is suspected, use a power monitor to monitor the power line.
- 5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250 and G350 Branch Gateways.

### avEnt3300mvPwrFltOk

**Enterprise** avEntTraps

Trap ID 11

Name avEnt3300mvPwrFltOk

**SNMP Filtering Group** hardware

**Severity** Notification

**Description** The problem with the 3.3V power supply has been corrected.

### avEnt2500mvPwrFlt

**Enterprise** avEntTraps

Trap ID 13

Name avEnt2500mvPwrFlt

**SNMP Filtering Group** hardware

**Severity** Error

**Description** There is a problem with the 2.5V power supply.

### Resolving the problem with power supply

### **Procedure**

- Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250 and G350 Branch Gateways.
   Voltage may be reduced by a short in one of the media modules or a bad power supply.
- Systematically, remove each media module to determine if one of the media modules is responsible for reducing the voltage levels. Replace faulty media module.

- 3. If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250 and G350 Branch Gateways. Use a power monitor to monitor the power line.
- 4. If a brown-out condition is suspected, use a power monitor to monitor the power
- 5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250 and G350 Branch Gateways.

#### avEnt1800mvPwrFlt

**Enterprise** avEntTraps

Trap ID 16

Name avEnt1800mvPwrFlt

**SNMP Filtering Group** Hardware

Severity Error

Description There is a problem with the 1.8V power supply.

#### Resolving the problem with power supply

#### **Procedure**

- 1. Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250 and G350 Branch Gateways. Voltage may be reduced by a short in one of the media modules or a bad power supply.
- 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.
- 3. If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250 and G350 Branch Gateways. Use a power monitor to monitor the power line.
- 4. If a brown-out condition is suspected, use a power monitor to monitor the power line.

5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250 and G350 Branch Gateways.

#### avEnt2500mvPwrFltOk

**Enterprise** avEntTraps

Trap ID 14

Name avEnt2500mvPwrFltOk

**SNMP Filtering Group** Hardware

Severity Notification

**Description** The problem with the 2.5V power supply has been corrected.

#### avEnt1800mvPwrFltOk

**Enterprise** avEntTraps

Trap ID 17

Name avEnt1800mvPwrFltOk

**SNMP Filtering Group** Hardware

Severity Notification

**Description** The problem with the 1.8V power supply has been corrected.

#### avEnt1600mvPwrFlt

**Enterprise** avEntTraps

Trap ID 19

Name avEnt1600mvPwrFlt

**SNMP Filtering Group** Hardware

Severity Error

Description There is a problem with the 1.6V power supply.

#### Resolving the problem with power supply

#### **Procedure**

- 1. Check voltages. Use the CLI command show voltages to determine voltages for media modules and other components of the G250 and G350 Branch Gateways. Voltage may be reduced by a short in one of the media modules or a bad power supply.
- 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.
- 3. If the alarm clears in 10-20 seconds, it most likely was a voltage spike. Do not replace the G250 and G350 Branch Gateways. Use a power monitor to monitor the power line.
- 4. If a brown-out condition is suspected, use a power monitor to monitor the power
- 5. If the fault persists and the show voltages command continues to show the level is out of tolerance, replace the G250 and G350 Branch Gateways.

#### avEnt1600mvPwrFltOk

Enterprise avEntTraps

Trap ID 20

avEnt1600mvPwrFltOk Name

SNMP Filtering Group Hardware

Severity Notification

Description The problem with the 1.6V power supply has been corrected.

### avEntAmbientHiThresholdTempFlt

**Enterprise** avEntTraps

Trap ID 22

Name avEntAmbientHiThresholdTempFlt

**SNMP Filtering Group** Hardware

**Severity** Error

**Description** The ambient temperature in the device is above the acceptable

temperature range.

#### Resolving the problem with the ambient temperature in the device

#### **Procedure**

- 1. Verify there are faults in the system. Use the Avaya G250/G350/G450 Branch Gateway CLI command show faults to display any faults on the G250/G350.
- 2. If there is a temperature fault, turn off the G250/G350 and allow it to cool.
- 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.
- 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.
- 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.
- 6. If no media module is found to be bad, the power supply is suspect. Replace the G250 and G350 Branch Gateways.

### avEntAmbientHiThresholdTempOk

**Enterprise** avEntTraps

Trap ID 23

Name avEntAmbientHiThresholdTempFlt

**SNMP Filtering Group** Hardware

Severity Notification

**Description** The ambient temperature in the device has returned to the

acceptable range.

## avEntAmbientLoThresholdTempFlt

**Enterprise** avEntTraps

Trap ID 24

avEntAmbientHiThresholdTempFlt Name

SNMP Filtering Group Hardware

Severity Error

The ambient temperature in the device is below the acceptable Description

temperature range.

## av Ent Ambient Lo Threshold Temp Ok

**Enterprise** avEntTraps

Trap ID 25

Name avEntAmbientLoThresholdTempOk

**SNMP Filtering Group** Hardware

Severity Notification **Description** The ambient temperature in the device has returned to the

acceptable range.

## cmgSyncSignalFault

**Enterprise** cmgTrapTypes

Trap ID 30

Name cmgSyncSignalFault

SNMP Filtering Group media-gateway

**Severity** Major

**Description** The synchronization signal has been lost.

#### Resolving the issue with the synchronization signal

#### **Procedure**

- 1. Check that the provisioned clock-sync source has a good signal using the Branch Gateway CLI command show sync timing.
- 2. To set synchronization timing sources on E1/T1 MM or MM710:
  - a. If the E1/T1 MM has not been added properly on the server, you must use the SAT command ADD DS1 before using the Branch Gateway CLI commands set sync interface or set sync source.
  - b. Specify the primary and secondary clock sources for synchronizing the E1/T1 span, using the CLI command set synch interface.



The local clock is built-in and not provisionable.

- c. Use a set sync source command to set to the specific MM710 E1/T1 media module to be used as the active clock reference.
- d. 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.



When the yellow LED is on 2.7 seconds and off 0.3 seconds, the tone-clock synchronizer is in the active mode, and an external synchronization source is being used as a synchronization reference. Setting the synchronization 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.

3. 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.

## cmgSyncSignalClear

cmgTrapTypes **Enterprise** 

Trap ID 31

Name cmgSyncSignalClear

**SNMP Filtering Group** media-gateway

Severity Notification

Description The synchronization signal has been regained.

## cmgVoipHardwareFault

**Enterprise** cmgTrapTypes

Trap ID 32

Name cmgVoipHardwareFault

**SNMP Filtering Group** media-gateway

Severity Warning

Description A DSP complex serving the VoIP engines has failed.

## cmgVoipHardwareClear

**Enterprise** cmgTrapTypes Trap ID 33

Name cmgVoipHardwareClear

SNMP Filtering Group media-gateway

**Severity** Warning

**Description** The DSP complex serving the VoIP engines has returned to normal

functioning.

## cmgSyncSignalWarn

**Enterprise** cmgTrapTypes

Trap ID 34

Name cmgSyncSignalWarn

SNMP Filtering Group media-gateway

**Severity** Error

**Description** Synchronization signal lost.

## cmgSyncWarnClear

**Enterprise** cmgTrapTypes

Trap ID 35

Name cmgSyncWarnClear

SNMP Filtering Group media-gateway

**Severity** Notification

**Description** Synchronization signal normal.

## cmgSyncSignalExcess

**Enterprise** cmgTrapTypes

Trap ID 36

Name cmgSyncSignalExcess

SNMP Filtering Group media-gateway

Severity Error

**Description** The synchronization signal source (primary or secondary) is

experiencing excessive failures in a short period causing excessive

switching to an alternate source.

## cmgSyncExcessClear

**Enterprise** cmgTrapTypes

Trap ID 37

Name cmgSyncExcessClear

SNMP Filtering Group media-gateway

Notification Severity

**Description** Synchronization signal source which was causing excessive

switching due to excessive failures is now normal.

### cmgModuleRemove

**Enterprise** cmgTrapTypes

Trap ID 50

Name cmgModuleRemove

**SNMP Filtering Group** media-gateway

Notification Severity

**Description** A media module has been removed.

## cmgModuleInsertFault

**Enterprise** cmgTrapTypes

Trap ID 52

Name cmgModuleInsertFault

**SNMP Filtering Group** media-gateway

**Severity** Alert

**Description** The insertion sequence for a media module has failed.

### cmgModuleInsertSuccess

**Enterprise** cmgTrapTypes

Trap ID 53

Name cmgModuleInsertSuccess

SNMP Filtering Group media-gateway

**Severity** Notification

**Description** A media module has been inserted.

### cmgDataModuleAwohConflict

**Enterprise** cmgTrapTypes

Trap ID 57

Name cmgDataModuleAwohConflict

SNMP Filtering Group media-gateway

**Severity** Error

**Description** This event is generated when a data module is found in a slot that

was Administered without hardware as a voice module in the call

controller.

## cmgFirmwareDownloadSuccess

**Enterprise** cmgTrapTypes

Trap ID 71

Name cmgFirmwareDownloadSuccess

SNMP Filtering Group media-gateway

Severity Notification

**Description** The Branch Gateway successfully downloaded a software or

configuration file.

### cmgRegistrationSuccess

**Enterprise** cmgTrapTypes

Trap ID 73

Name cmgRegistrationSuccess

SNMP Filtering Group media-gateway

Severity Notification

**Description** The Branch Gateway has successfully registered with a Media

Controller.

## cmgMgManualReset

**Enterprise** cmgTrapTypes

Trap ID 74 Name cmgMgManualReset

SNMP Filtering Group media-gateway

Severity Notification

**Description** The Branch Gateway is beginning a user-requested reset

operation.

### cmgModuleManualReset

**Enterprise** cmgTrapTypes

Trap ID 75

Name cmgModuleManualReset

SNMP Filtering Group media-gateway

**Severity** Error

**Description** A media module is beginning a user-requested reset operation.

### cmgMemoryFault

**Enterprise** cmgTrapTypes

Trap ID 90

Name cmgMemoryFault

SNMP Filtering Group media-gateway

**Severity** Alert

**Description** The Branch 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.

#### Resolving the problem of low memory

#### **Procedure**

- 1. Check the Branch Gateway and ensure that it has the latest version of firmware installed. Install the latest version of firmware and continue to monitor if not installed.
- 2. If the trap occurs infrequently and is automatically cleared, the trap may be due to an unusual transient condition. Monitor future traps.
- 3. If the trap occurs frequently and is automatically cleared, it is likely that the Branch 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.
- 4. If the trap occurs and does not clear, the Branch Gateway may be functionally impaired. Do not reset the Branch Gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.
- 5. If the trap occurs and the Branch 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.

## cmgMemoryClear

**Enterprise** cmgTrapTypes

Trap ID 91

Name cmgMemoryClear

SNMP Filtering Group media-gateway

Severity Notification

Description The low memory condition has been cleared. This occurs when the

available memory rises above 5 MB.

## cmgFirmwareDownloadFault

**Enterprise** cmgTrapTypes Trap ID 94

Name cmgFirmwareDownloadFault

SNMP Filtering Group media-gateway

**Severity** Error

**Description** An attempt to download a software module has failed.

#### Downloading a software module

#### **Procedure**

- 1. Check the event log to find the specific error.
- Troubleshoot the specific error according to the information found.For example, if the string File not found appears in the log, then verify that the image file:
  - Exists
  - · Has the correct name
  - · Resides in the correct directory

## cmglccMissingFault

**Enterprise** cmgTrapTypes

Trap ID 98

Name cmglccMissingFault

SNMP Filtering Group media-gateway

**Severity** Error

**Description** An internal communications controller (S8300D), expected in slot 1,

is missing.

## cmglccMissingClear

**Enterprise** cmgTrapTypes

Trap ID 99

Name cmglccMissingClear

SNMP Filtering Group media-gateway

Notification Severity

A missing internal communications controller (S8300D) has been **Description** 

## cmglccAutoReset

**Enterprise** cmgTrapTypes

Trap ID 100

Name cmglccAutoReset

SNMP Filtering Group media-gateway

Severity Error

**Description** The Branch Gateway automatically reset the internal

communications controller.

## cmglccAutoResetClear

cmgTrapTypes **Enterprise** 

Trap ID 101

Name cmglccAutoResetClear

**SNMP Filtering Group** media-gateway

Severity Notification **Description** The Internal Communications Controller is running normally.

## cmgPrimaryControllerFault

**Enterprise** cmgTrapTypes

Trap ID 102

Name cmgPrimaryControllerFault

SNMP Filtering Group media-gateway

**Severity** Error

**Description** The Branch Gateway cannot contact the first controller in its

controller list.

#### Contacting the first controller

#### **Procedure**

- 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.
- 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.
- 3. Verify that the primary controller is up. If so, shut down every LSP.

### cmgPrimaryControllerClear

**Enterprise** cmgTrapTypes

**Trap ID** 103

Name cmgPrimaryControllerClear

SNMP Filtering Group media-gateway

Severity Notification

Description The Branch Gateway has successfully contacted the first controller

in its controller list.

### cmgNoControllerFault

**Enterprise** cmgTrapTypes

Trap ID 104

Name cmgNoControllerFault

SNMP Filtering Group media-gateway

Error Severity

Description The Branch Gateway does not have any controllers in its controller

#### Checking the controller list

#### **Procedure**

1. Verify that the controller list is empty. From the CLI, use the command show mgc list to verify that there are no controllers listed.

2. If none are listed, correct this by adding the correct IP address of the primary server. In the CLI 'configure' mode, use a set mgc list command with the correct IP address.

## cmgnoControllerClear

**Enterprise** cmgTrapTypes

Trap ID 105

Name cmgnoControllerClear

**SNMP Filtering Group** media-gateway

Notification Severity

**Description** The cmgNoControllerFault trap has been cleared.

### cmgRegistrationFault

**Enterprise** cmgTrapTypes

Trap ID 106

Name cmgRegistrationFault

SNMP Filtering Group media-gateway

**Severity** Error

**Description** The Branch Gateway cannot register with any controllers in its

controller list.

#### Registering controllers in the controller list

#### **Procedure**

- 1. Verify that the controller list is correct. From the CLI, use the command **show mgc** list. The IP address must match the server CLAN or the server IP addresses.
- If needed, correct this in the CLI configure mode. Clear the mgc list with the clear mgc list command. Then, use the set mgc list command with the correct IP addresses.
- 3. If the IP address in the mgc list matches the server CLAN or the server IP addresses, there may be a network problem. Verify that the primary controller is up.

## cmgRegistrationSuccess

**Enterprise** cmgTrapTypes

Trap ID 107

Name cmgRegistrationSuccess

SNMP Filtering Group media-gateway

Severity Notification

The Branch Gateway has successfully registered with a controller. Description

### cmgH248LinkDown

**Enterprise** cmgTrapTypes

Trap ID 108

Name cmgH248LinkDown

SNMP Filtering Group media-gateway

Severity Error

Description An H.248 link between the Branch Gateway and its controller is

down.

#### Fixing the H.248 link between the Branch Gateway and its controller

#### **Procedure**

1. Check the server power. If down, bring up. If not, check the G250 and G350 administration.

Since the following command causes a brief service outage, it should only be executed at the customer's convenience.

- 2. If the administration is correct, reboot the G250 and G350 Branch Gateways.
- 3. If the problem persists, check network connectivity. Use ping or traceroute to the server to check connectivity.
- 4. If the problem persists, contact an Avaya technical professional.

## cmgH248LinkUp

**Enterprise** cmgTrapTypes

Trap ID 109 Name cmgH248LinkUp

SNMP Filtering Group media-gateway

Severity Notification

**Description** An H.248 link between the Branch Gateway and its controller that

was down has been restored.

### cmgMgAutoReset

**Enterprise** cmgTrapTypes

Trap ID 114

Name cmgMgAutoReset

**SNMP Filtering** 

Group

media-gateway

**Severity** Error

**Description** The Branch Gateway automatically reset. This may be due to a critical

error from which the Branch Gateway could not recover. It may be due to a maintenance test running on the call controller. It may also be due to the Branch Gateway re-registration with a call controller after being

out of contact for too long.

#### Resolving the automatic reset problem of the Branch Gateway

#### **Procedure**

- 1. Check if a maintenance test that resets the processor was run.
- 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.
- Check the Branch Gateway and ensure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.
- 4. If the trap occurs infrequently, the trap might be due to an unusual transient condition. Monitor future traps.
- 5. If the trap occurs and the Branch Gateway is frequently resetting, manually reset the Branch Gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.

6. If the trap occurs frequently and the Branch Gateway is not resetting, the Branch Gateway may be functionally impaired, and is not capable of resetting itself to restore service. If the service is impaired, reset the Branch Gateway manually. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.

## cmgModuleAutoReset

**Enterprise** cmgTrapTypes

Trap ID 116

Name cmgMgAutoReset

SNMP Filtering Group media-gateway

Error Severity

Description A media module in the Branch Gateway automatically reset

(rebooted).

### Resolving the automatic reset problem of a media module in the Branch **Gateway**

#### **Procedure**

- 1. Check if a maintenance test that resets the media module was run.
- 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.
- 3. If the trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.
- 4. If the trap occurs and the media module does not return to service, or if the trap occurs frequently, attempt to reset the failing module from the SAT or CLI and see if this returns it to stable service.
- 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.
- 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 Branch 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 Branch Gateway itself. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.

## cmgModuleAutoResetClear

**Enterprise** cmgTrapTypes

Trap ID 117

Name cmgModuleAutoResetClear

**SNMP Filtering Group** media-gateway

**Severity** Notification

**Description** The reset media module is running normally.

## cmgModulePostFault

**Enterprise** cmgTrapTypes

Trap ID 118

Name cmgModulePostFault

SNMP Filtering Group media-gateway

**Severity** Warning

**Description** A media module failed its power-on start-up test.

## cmgModulePostClear

**Enterprise** cmgTrapTypes

**Trap ID** 119

Name cmgModulePostClear

SNMP Filtering Group media-gateway

Severity Notification

Description Media module power-on startup test successful.

## cmgConfigUpoadFault

cmgTrapTypes **Enterprise** 

Trap ID 122

Name cmgConfigUpoadFault

**SNMP Filtering Group** media-gateway

Severity Error

**Description** An attempt to upload a configuration file failed.

#### Uploading a configuration file

#### **Procedure**

- 1. Check the event log for an error message during the backup and restore process.
- 2. Troubleshoot the specific error according to the information found.
- 3. Retry the upload (backup) command. For example: copy startup-config tftp<filename> <ip address>



#### Caution:

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 G250 and G350 Branch Gateways.

## cmgVoipOccFault

**Enterprise** cmgTrapTypes Trap ID 124

Name cmgVoipOccFault

SNMP Filtering Group media-gateway

Severity Notification

**Description** One or more of the VoIP engines in the Branch Gateway is over its

occupancy threshold, as measured by a snapshot: (Channels In

Use)/(Total Channels).

### cmgVoipOccClear

**Enterprise** cmgTrapTypes

Trap ID 125

Name cmgVoipOccClear

SNMP Filtering Group media-gateway

Severity Informational

**Description** All the VoIP engines in the Branch Gateway are operating below

occupancy threshold, as measured by a snapshot: (Channels In

Use) / (Total Channels).

### cmgVoipAvgOccFault

**Enterprise** cmgTrapTypes

Trap ID 126

Name cmgVoipAvgOccFault

SNMP Filtering Group media-gateway

Severity Informational

**Description** One or more of the VoIP engines in the Branch Gateway is over its

average occupancy threshold.

## cmgVoipAvgOccClear

**Enterprise** cmgTrapTypes

Trap ID 127

Name cmgVoipAvgOccClear

SNMP Filtering Group media-gateway

Severity Informational

Description All the VoIP engines in the Branch Gateway are operating below

occupancy threshold, as measured by a snapshot: (Channels In

Use) / (Total Channels).

## cmgVoipAutoReset

**Enterprise** cmgTrapTypes

Trap ID 128

Name cmgVoipAutoReset

SNMP Filtering Group media-gateway

Severity Warning

Description The VoIP module in the Branch Gateway automatically reset.

### Resolving the automatic reset problem of a VOIP module in the Branch **Gateway**

#### **Procedure**

- 1. Check if a maintenance test that resets the VoIP module was run.
- 2. Check to see if the VoIP module had its IP address re-administered.
- 3. Check to see if the IP address administered on the VoIP module is correct.
- 4. Check to see if the IP address of the Branch Gateway itself can be pinged.

- Physical or logical connectivity issues (cabling or routing problems) in the data network can cause ping failures.
- 5. Check the VoIP module and ensure that it has the latest version of firmware installed. If not, install the latest version of firmware and continue to monitor.
- 6. If the trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.
- 7. If the trap occurs and the VoIP module does not return to service, or if the trap occurs frequently, attempt to reset the failing module from the SAT or CLI.
- 8. Manually, reset the Branch Gateway at a time convenient to the customer. If this restores service, the problem is probably with the Branch Gateway itself. Capture the trap information. If possible, capture the event logs, using the show eventlog CLI command, for analysis. Escalate.
- 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.

## cmgVoipAutoResetClear

**Enterprise** cmgTrapTypes

Trap ID 129

Name cmgVoipAutoResetClear

SNMP Filtering Group media-gateway

Severity Informational

**Description** A VoIP engine has completed automatic reset, and is running

normally.

## G430 and G450 traps

Table 5: G430 and G450 traps

Enterprise	Trap Id	Name	SNMP filtering group	Severity	Description
avEntPhyChF ru	1	avEntPhyCh FruRemoval	Hardware	Minor	Removal of FRU (Expansion unit in G430), Fan Tray and Power Supply in G450.
avEntPhyChF ru	2	avEntPhyCh FruInsertion	Hardware	Minor	Insertion of FRU (Expansion unit in G430), Fan Tray and Power Supply in G450.
avEntPhyChF ru	3	avEntPhyCh FruPsuFlt	Hardware	Minor	PSU failure (G450 only).
avEntPhyChF ru	4	avEntPhyCh FruPsuFltOk	Hardware	Minor	PSU is OK (G450 only).
avEntPhyChF ru	5	avEntPhyCh FruExpansio nTestFailure	Hardware	Minor	Expansion unit test failed (G430 only)
avEntPhyChF ru	6	avEntPhyCh FruExpansio nTestClear	Hardware	Minor	Expansion test unit pass (G430 only)

# 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 Avaya Aura® CM syslog and generates a warning on FPM at 90% and 100% occupancy.

G250, G350, G430, and G450 traps

# **Chapter 5: G700 Traps**

## Configuration of G700 to send SNMP traps

Configuring the G700 Branch 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]
- Branch Gateway Processor (MGP) CLI command: set snmp trap IP address enable

## Configuring an SNMP community string for traps

#### About this task

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:

#### Procedure

- 1. Open the Rundialog 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.

## **Destination for G700 SNMP traps**

Events occurring on the 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 traps are sent in User Datagram Protocol (UDP) on the customer IP network.

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 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 are assumed. Up to ten trap receivers can be configured.

## Configuring the destination for G700 SNMP traps

#### About this task

To configure the destination for Branch Gateway SNMP traps:

#### **Procedure**

- 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.

# Chapter 6: GEM alarm rules

Most fault traps have a corresponding clear trap that indicates an error condition has ceased to exist. The alarm rules for the clear traps generate a resolved (RES) alarm, which in the future may result in the GAM and NAM notifying INADS that the alarm has been resolved and removing the alarm from its alarm list.

## Important:

Event IDs pertain to a particular condition and are associated with a specific fault/clear trap pair.

After initial deployment, the event ID for a given condition should not change. Consequently, alarm rules for new traps from the respective sources should be added with new event ids.

#### Classification of GEM alarm rules

Alarm rules that indicate a level of MAJ or MIN will result in an alarm report sent to INADS (subject to abbreviated alarming policies). In addition, services personnel record such alarms in the GAM and NAM alarm list for examination.

Alarm rules that indicate a level of WRN will not result in an alarm being reported to INADS, but the GAM and NAM will contain an alarm record for such an alarm.

The following general principles are used in classifying the alarm level of alarms pertaining to various faults.

- If a fault would lead to failures in call processing, the condition should result in a MAJ alarm.
- If a fault would lead to decreased capacity for call processing, the condition should result in a MIN alarm.

#### W Note:

If a fault may not lead to any impairment in call processing, the condition should result in a WRN alarm.

Alarm rules are listed for the following:

- GEM alarm rules for generic Private Avaya Enterprise gateway traps on page 68.
- GEM alarm rules for the standard traps defined by IETF MIBs on page 69
- GEM alarm rules for WAN Traps on page 70

- GEM alarm rules for clock sync and Media Module events on page 70
- GEM alarm rules for Power over Ethernet traps on page 71

## GEM alarm rules for generic Private Avaya Enterprise gateway traps

These traps apply to the G350 Branch Gateway. The table has some rules that are unique to G350.



The sources of all the below rules is GW\_ENV.

Table 6: Alarm rules

Device	Token 1	evntld	Level	son	type	logl d	des t	Description
snmptrap d	AvEntFanFlt	1	MAJ	Х	ACT	А	YY	
snmptrap d	AvEntFanOk	1	MAJ	Х	RES	А	YY	
snmptrap d	AvEnt48vPwrFl t	2	MAJ	Х	ACT	A	YY	
snmptrap d	AvEnt48vPwrFl tOK	2	MAJ	Х	RES	Α	YY	
snmptrap d	AvEnt5vPwrFlt	3	MAJ	Х	ACT	Α	YY	
snmptrap d	AvEnt5vPwrFlt OK	3	MAJ	Х	RES	A	YY	
snmptrap d	AvEnt3300mvP wrFlt	4	MAJ	Х	ACT	А	YY	
snmptrap d	AvEnt3300mvP wrFltOK	4	MAJ	Х	RES	А	YY	
snmptrap d	AvEnt2500mvP wrFlt	5	MAJ	Х	ACT	А	YY	
snmptrap d	AvEnt2500mvP wrFltOK	5	MAJ	Х	RES	Α	YY	Field Replaceable Unit Removal
snmptrap d	AvEnt1800mvP wrFlt	6	MAJ	Х	ACT	Α	YY	Field Replaceable Unit Insertion
snmptrap d	AvEnt1800mvP wrFltOK	6	MAJ	Х	RES	Α	YY	Power Supply Fault

Device	Token 1	evntld	Level	son	type	logl d	des t	Description
snmptrap d	AvEnt1600mvP wrFlt	7	MAJ	X	ACT	Α	YY	Power Supply Ok
snmptrap d	AvEnt1600mvP wrFltOK	7	MAJ	Х	RES	А	YY	
snmptrap d	AvEntAmbientT empFlt	8	MAJ	Х	ACT	Α	YY	
snmptrap d	AvEntAmbientT empOk	8	MAJ	Х	RES	Α	YY	
snmptrap d	avEntPhyChFru Removal	9	MAJ	Х	ACT	A	YY	
snmptrap d	avEntPhyChFru Insertion	9	MAJ	Х	RES	Α	YY	
snmptrap d	avEntPhyChFru PsuFlt	10	MAj	Х	ACT	Α	YY	
snmptrap d	avEntPhyChFru PsuFltOk	10	MAJ	Х	RES	А	YY	

## GEM alarm rules for the standard traps defined by IETF MIBs

These traps apply to G250/G350/G430/G450 Branch Gateway. All the entries in this file, the syslog entry is should have a unique SNMP trap name. Since there is a unique key in the syslog, the Token2 and Token3 are set to NOT\_NEEDED in this file. Token1 in this file will always have the trap name in it.

### Note:

The source for all the below rules is STD.

Table 7: Alarm rules

Device	Token 1	evntld	Level	son	type	logl d	des t	Description
snmptrap d	coldStart	1	MIN	X	ACT	Α	YY	
snmptrap d	warmStart	2	MIN	Х	ACT	Α	YY	
snmptrap d	linkDown	3	MIN	Х	ACT	Α	YY	
snmptrap d	linkUp	3	MIN	Х	RES	Α	YY	

## **GEM alarm rules for WAN Traps**

These traps apply to the G250, G350, and G450 Branch Gateways.



The source of all the below rules is WAN.

Table 8: Alarm rules

Device	Token 1	evntld	Level	son	type	logl d	des t	Description
snmptrap d	wanPhysicalAla rmOn	1	MAJ	Х	ACT	A	YY	
snmptrap d	wanPhysicalAla rmOff	1	MAJ	Х	RES	Α	YY	
snmptrap d	wanLocalAlarm On	2	MAJ	Х	ACT	A	YY	
snmptrap d	wanLocalAlarm Off	2	MAJ	Х	RES	А	YY	
snmptrap d	wanRemoteAla rmOn	3	WRN	Х	ACT	A	YY	
snmptrap d	wanRemoteAla rmoff	3	WRN	Х	RES	A	YY	
snmptrap d	wanMinorAlarm On	4	WRN	Х	ACT	Α	YY	
snmptrap d	wanMinorAlarm Off	4	WRN	Х	RES	A	YY	
snmptrap d	wanDS1_dup_i p	5	WRN	Х	ACT	Α	YY	
snmptrap d	wanDS1_ip_vla n	6	WRN	Х	ACT	Α	YY	
snmptrap d	wanDS1_policy ChangeTrap	7	WRN	Х	ACT	Α	YY	

## **GEM** alarm rules for clock sync and Media Module events

These traps apply to the G250, G350, G430, and G450 Branch Gateways.



The source of all the below rules is G350.

Table 9: Alarm rules

Device	Token 1	evntld	Level	son	type	logl d	des t	Description
snmptrap d	cmgSyncSignal Excess	1	MIN	Х	ACT	А	YY	
snmptrap d	cmgSyncExces sClear	1	MIN	Х	RES	А	YY	
snmptrap d	IcmgUnsupport edMMEnrollme nt	3	MAJ	Х	ACT	А	YY	
snmptrap d	cmgDataModul eAwohConflict	3	MAJ	Х	ACT	Α	YY	

## **GEM** alarm rules for Power over Ethernet traps

These traps apply to the G250 and G350 Branch Gateways. All the entries in this file, the syslog entry is has a unique the SNMP trap name. The Token2 and Token3 are, set to NOT\_NEEDED in this file. Token1 in this file will always have the trap name in it.



The source of all the below rules is POE.

Table 10: Alarm rules

Device	Token 1	evntld	Level	son	type	log ld	des t	Description
snmptrap d	pethPsePortOn OffNotification	1	WRN	X	ACT	А	YY	
snmptrap d	pethMainPower UsageOnNotific ation	2	MIN	Х	ACT	A	YY	
snmptrap d	pethMainPower UsageOffNotific ation	2	MIN	Х	RES	A	YY	

GEM alarm rules

# Chapter 7: Other Branch Gateway traps and resolutions

Although alarms can be viewed from the primary server, they are normally resolved from within the Branch Gateway. The Branch Gateway generates the traps listed in the sections below. The sections also provide references to the recommended course of action to resolve the errors indicated by these traps.



The source of all the below traps is CMG.

# cmgMultipleFanClear

**Event ID** 

Trap# 3

Alarm Level WRN

Alarm Name cmgMultipleFanClear

**Description** At least three fans are operating normally. The system should be operable

indefinitely without overheating.

## cmgPsuFanBriefFault

**Event ID** 2

Trap#

Alarm Level MIN

Alarm Name cmgPsuFanBriefFault

**Description** 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.

#### Resolving the problem of a fan operating sub optimally

#### **Procedure**

- 1. Check if there are faults in the system. Use the Branch Gateway Processor (MGP) Command Line Interface (CLI) command show faults to display any faults on the Branch 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.
- 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 Branch Gateway for air circulation.
- 3. If none of the voltages are out of tolerance, but the PSU status indicates failure, replace the entire Branch Gateway. Fans and the PSU are not field replaceable.

### cmgPsuFanBriefClear

**Event ID** 2

5 Trap#

MIN Alarm Level

**Alarm Name** cmgPsuFanBriefClear

Description The power supply fan is operating normally.

## cmgPsuFanProlongedFault

**Event ID** 3 Trap# 6

Alarm Level MIN

Alarm Name cmgPsuFanProlongedFault

**Description** 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.

#### Resolving the problem of a fan operating sub optimally

#### **Procedure**

- Check if there are faults in the system. Use the Branch Gateway Processor (MGP) Command Line Interface (CLI) command show faults to display any faults on the Branch 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.
- 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 Branch Gateway for air circulation.
- 3. If none of the voltages are out of tolerance, but the PSU status indicates failure, replace the entire Branch Gateway. Fans and the PSU are not field replaceable.

# cmgPsuFanProlongedClear

**Event ID** 3

7 Trap#

**Alarm Level** MIN

**Alarm Name** cmgPsuFanProlongedClear

**Description** The power supply fan is operating normally.

# cmgCpuTempWarningFault

Event ID 4

**Trap#** 10

Alarm Level MIN

Alarm Name cmgCpuTempWarningFault

**Description** The temperature sensor at the CPU has exceeded its warning threshold.

#### Resolving the rising temperature problem of the CPU

#### **Procedure**

- Check if there are faults in the system. Use the Branch Gateway Processor (MGP)
   Command Line Interface (CLI) command show faults to display any faults on
   the Branch Gateway.
- 2. If there is a temperature fault, turn off the Branch Gateway and allow it to cool.
- Reboot the Branch Gateway. Check to see if the fans are working and/or if there is sufficient space around the Branch Gateway for air circulation. Use the MGP CLI show faults command to check for fan problems.
- 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 show voltages to display voltages applied to components on the motherboard and to the Media Modules.
- 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.
- 6. If no Media Module is found to be bad, the power supply is suspect. Replace the Branch Gateway.

# cmgCpuTempWarningClear

**Event ID** 4

Trap# 11

Alarm Level MIN

**Alarm Name** cmgCpuTempWarningClear

**Description** The temperature sensor at the CPU has dropped below its warning

threshold.

## cmgDspTempWarningFault

**Event ID** 5

12 Trap#

Alarm Level MIN

Alarm Name cmgDspTempWarningFault

**Description** The temperature sensor at the DSP complex has exceeded its warning

threshold.

#### Resolving the rising temperature problem of the DSP complex

#### **Procedure**

- 1. Check if there are faults in the system. Use the Branch Gateway Processor (MGP) Command Line Interface (CLI) command show faults to display any faults on the Branch Gateway.
- 2. If there is a temperature fault, turn off the Branch Gateway and allow it to cool.
- 3. Reboot the Branch Gateway. Check if the fans are working and/or if there is sufficient space around the Branch Gateway for air circulation.
- 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 **show voltages** to display voltages applied to components on the motherboard and to the Media Modules.
- 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.
- 6. If no Media Module is found to be bad, the power supply is suspect. Replace the Branch Gateway.

# cmgDspTempWarningClear

Event ID 5

**Trap#** 13

Alarm Level MIN

Alarm Name cmgDspTempWarningClear

**Description** The temperature sensor at the DSP complex has dropped below its warning

threshold.

# cmgMgpPowerFault

Event ID 7

**Trap#** 16

Alarm Level MAJ

Alarm Name cmgMgpPowerFault

**Description** The voltage reading at the +5.1V power source serving the Branch Gateway

processor is out of tolerance.

#### **Procedure**

Replace the power supply only if the problem persists. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.

### cmgMgpPowerClear

**Event ID** 7

17 Trap#

Alarm Level MAJ

Alarm Name cmgMgpPowerClear

**Description** The voltage reading at the +5.1V power source serving the Branch Gateway

processor is back within its tolerance range.

# cmg Media Module Power Fault

**Event ID** 8

Trap# 18

Alarm Level MAJ

Alarm Name cmgMediaModulePowerFault

**Description** The voltage reading at the -48V power source serving the media modules is

out of tolerance.

#### **Procedure**

Replace the power supply only if the problem persists. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.

### cmgMediaModulePowerClear

Event ID 8

**Trap#** 19

Alarm Level MAJ

Alarm Name cmgMediaModulePowerClear

**Description** The voltage reading at the -48V power source serving the media modules is

back within its tolerance range.

## cmgVoipPowerFault

Event ID 9

**Trap#** 20

Alarm Level MAJ

Alarm Name cmgVoipPowerFault

**Description** The voltage reading at the +3.4V power source serving the VoIP complexes is

out of tolerance.

#### **Procedure**

Replace the power supply only if the problem persists. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.

## cmgVoipPowerClear

**Event ID** 9

21 Trap#

Alarm Level MAJ

Alarm Name cmgVoipPowerClear

**Description** The voltage reading at the +3.4V power source serving the VoIP complexes is

back within its tolerance range.

## cmgDspPowerFault

**Event ID** 10

22 Trap#

Alarm Level MAJ

Alarm Name cmgDspPowerFault

**Description** The voltage reading at the +1.58V power source serving the DSP units is out

of tolerance.

#### **Procedure**

Replace the power supply only if the problem persists. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.

### cmgDspPowerClear

**Event ID** 10

23 Trap#

Alarm Level MAJ

Alarm Name cmgDspPowerClear

**Description** The voltage reading at the +1.58V power source serving the DSP units is back

within its tolerance range.

### cmg8260PowerFault

**Event ID** 11

Trap# 24

Alarm Level MAJ

Alarm Name cmg8260PowerFault

**Description** The voltage reading at the +2.5V power source serving the 8260 processor is

out of tolerance.

#### **Procedure**

Replace the power supply only if the problem persists. Do not replace the power supply if there is a suspected voltage spike or temporary brown-out.

### cmg8260PowerClear

**Event ID** 11

Trap# 25

Alarm Level MAJ

Alarm Name cmg8260PowerClear

**Description** The voltage reading at the +2.5V power source serving the 8260 processor is

back within its tolerance range.

## cmgAuxPowerFault

**Event ID** 12

26 Trap#

Alarm Level MAJ

Alarm Name cmgAuxPowerFault

**Description** The voltage reading at the -48V auxiliary power source serving the end points

is out of tolerance.

## cmgAuxPowerClear

**Event ID** 12

Trap# 27

Alarm Level MAJ

Alarm Name cmgAuxPowerClear

**Description** The voltage reading at the -48V auxiliary power source serving the end points

is back within its tolerance range.

## cmgFanPowerFault

**Event ID** 13

Trap# 28

Alarm Level MAJ

Alarm Name cmgFanPowerFault

**Description** The voltage reading at the +12V auxiliary power source serving the fans is out

of tolerance.

# cmgFanPowerClear

**Event ID** 13

29 Trap#

Alarm Level MAJ

Alarm Name cmgFanPowerClear

84

**Description** The voltage reading at the +12V auxiliary power source serving the fans has returned to within its tolerance range.

#### Branch Gateway cmgSyncSignalFault

**Event ID** 14

Trap# 30

Alarm Level MAJ

**Alarm Name** cmgSyncSignalFault

Synchronization signal lost. Description

#### Restoring the synchronization signal

#### **Procedure**

- 1. Check that the provisioned clock-sync source has a good signal by entering the Branch Gateway Processor (MGP) Command Line Interface (CLI) command show sync timing.
- 2. Ensure that the E1/T1 MM has been added properly on the server, otherwise, using the System Access Terminal (SAT), enter the add DS1 command before using the MGP CLI and entering a set sync interface Or set sync source command. Otherwise, the MGP CLI will not allow these commands to be executed.
- 3. Using the MGP's CLI, first specify the primary and secondary clock sources for synchronizing the E1/T1 span with the set synch interface command.



The internal clock source is not specified from the CLI - only the primary and secondary. The local clock is built-in and not.

- 4. Enter a set sync source command to set to the specific MM710 E1/T1 Media Module to be used as the active clock reference.
- 5. Verify whether or not these commands were executed by entering show sync timing to ensure that the source is provisioned and active, or visually inspect the vellow LED on the MM710 Media Module.

#### 🐯 Note:

When the yellow LED is on for 2.7 seconds and off for 0.3 seconds, the toneclock synchronizer is in the 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 for 0.3 seconds and off for 2.7 seconds. the tone-clock synchronizer is in the active mode and the internal (on-board) clock is being used as a synchronization reference. Setting the sync timing was not successful.

6. Verify whether or not these commands were executed by entering show sync timing 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 for 2.7 seconds and off for 0.3 seconds, the toneclock synchronizer is in the 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 for 0.3 seconds and off for 2.7 seconds, the tone-clock synchronizer is in the **active** mode and the internal (on-board) clock is being used as a synchronization reference. Setting the sync timing was not successful.

7. 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.

#### Branch Gateway cmgSyncSignalClear

14 **Event ID** 

Trap# 31

Alarm Level MAJ

Alarm Name cmgSyncSignalClear

Description Synchronization signal normal.

# Branch Gateway cmgVoipHardwareFault

Event ID 15

Trap# 32

Alarm Level MAJ

Alarm Name cmgVoipHardwareFault

**Description** One or more of the DSP complexes serving the VoIP engines has failed.

#### Resolving hardware problem related to DSP

#### **Procedure**

1. Check the IP configuration.

2. Reset or replace the Media Module.

# Branch Gateway cmgVoipHardwareClear

**Event ID** 15

Trap# 33

Alarm Level MAJ

Alarm Name cmgVoipHardwareClear

**Description** All of the DSP complexes serving the VoIP engines are back in service.

## **Branch Gateway cmgModuleRemove**

**Trap#** 50

Alarm Name cmgModuleRemove

**Description** A media modules has been removed.

# Branch Gateway cmgModuleInsertFault

Event ID 16

**Trap#** 52

Alarm Level MAJ

Alarm Name cmgModuleInsertFault

**Description** Media module insertion sequence has failed.

#### Resolving a failed media module insertion sequence

#### **Procedure**

Reset or replace the media module.

### Branch Gateway cmgModuleInsertSuccess

**Trap#** 53

Alarm Name cmgModuleInsertSuccess

**Description** A media module has been inserted.

### cmgMgBusyout

Trap# 54

Alarm Name cmgMgBusyout

**Description** An administrator has moved a media module or port to the busy-out state.

### cmgMgRelease

Trap# 55

Alarm Name cmgMgRelease

**Description** An administrator has moved a media module or port from the busy-out state

back into service.

## cmgFirmwareDownloadBegun

70 Trap#

Alarm Name cmgFirmwareDownloadBegun

The Branch Gateway has begun download of a software module. Description

# **Branch Gateway cmgFirmwareDownloadSuccess**

71 Trap#

Alarm Name cmgFirmwareDownloadSuccess

**Description** The Branch Gateway has completed successful download of a software

module.

# **Branch Gateway cmgRegistrationSuccess**

**Trap#** 73

Alarm Name cmgRegistrationSuccess

**Description** The Branch Gateway has successfully registered with a controller.

# Branch Gateway cmgMgManualReset

**Trap#** 74

Alarm Name cmgMgManualReset

**Description** The Branch Gateway is beginning a user-requested reset operation.

# Branch Gateway cmgModuleManualReset

**Trap#** 75

Alarm Name cmgModuleManualReset

**Description** A media module is beginning a user-requested reset operation.

# cmgVoipManualReset

**Trap#** 76

**Alarm Name** cmgVoipManualReset

Description A VoIP engine is beginning a user-requested reset operation.

## cmgDsuManualReset

Trap# 77

**Alarm Name** cmgDsuManualReset

Description An E1/T1 DSU is beginning a user-requested reset operation.

# cmgConfigUploadBegun

Trap# 78

**Alarm Name** cmgConfigUploadBegun

Description The Branch Gateway has begun upload of a configuration file.

## cmgConfigUploadSuccess

Trap# 79

Alarm Name cmgConfigUploadSuccess

**Description** The Branch Gateway has completed successful upload of a configuration file.

## **Branch Gateway cmgMemoryFault**

**Event ID** 17 **Trap#** 90

Alarm Level MAJ

**Alarm Name** cmgMemoryFault

**Description** The Branch Gateway Processor has detected a low processor memory

condition.

#### Resolving a low memory problem

#### **Procedure**

- Check the Branch 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.
- 2. If the trap occurs infrequently and is automatically cleared, the trap may be due to an unusual transient condition. Monitor future traps.
- 3. If the trap occurs frequently and is automatically cleared, it is likely that the Branch Gateway Processor software has the wrong limits set for its memory monitoring. These limits are hard coded in the software. Escalate the problem.
- 4. If the trap occurs and does not clear, the Branch Gateway may be functionally impaired. Do not reset the Branch Gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.
- 5. If the trap occurs and the Branch 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.

# **Branch Gateway cmgMemoryClear**

Event ID 17

**Trap#** 91

Alarm Level MAJ

Alarm Name cmgMemoryClear

**Description** The main processor memory has returned to normal operation.

# Branch Gateway cmgFirmwareDownloadFault

**Event ID** 19

Trap# 94

Alarm Level MAJ

Alarm Name cmgFirmwareDownloadFault

An attempt to download a software module has failed. Description

#### Downloading a software module for Branch Gateway

#### **Procedure**

- 1. Check the event log to find the specific error.
- 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:
  - Exists
  - · Has the correct name
  - Resides in the correct directory
- 3. If the error cannot be resolved after following the above procedure, reboot the Branch Gateway.

### cmgProcessRestartFault

**Event ID** 20

Trap# 96

Alarm Level WRN

Alarm Name cmgProcessRestartFault

**Description** A software process on the Branch Gateway Processor failed. The Branch Gateway Processor will attempt to restart the failed process. A successful restart of the process will clear this trap.

#### Restarting a failed software process

#### **Procedure**

- 1. Check the Branch Gateway Processor and ensure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.
- 2. If the trap occurs infrequently and is automatically cleared, the trap may be due to an unusual transient condition. Monitor future traps.
- 3. If the trap occurs frequently and is automatically cleared, it may indicate an issue with a particular software module. Reset the Branch Gateway at a time convenient with the customer. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.
- 4. If the trap occurs and does not clear, the Branch Gateway may be functionally impaired. Reset the Branch 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.

#### cmgProcessRestartClear

**Event ID** 20

Trap# 97

Alarm Level WRN

**Alarm Name** cmgProcessRestartClear

Description Branch Gateway software processes are running normally.

# **Branch Gateway cmglccMissingFault**

**Event ID** 21

Trap# 98

Alarm Level MAJ

Alarm Name cmglccMissingFault

Description An internal communications controller, expected in Slot 1, is missing.

#### Resolving an issue related to missing internal communications controller

#### **Procedure**

- 1. Check for the presence of an S8300D.
- 2. If present, check the Branch Gateway administration. If the administration is correct, the problem is with the S8300D server.

# **Branch Gateway cmglccMissingClear**

**Event ID** 21

Trap# 99

Alarm Level MAJ

Alarm Name cmglccMissingClear

Description The Internal Communications Controller expected in slot 1 is present.

# **Branch Gateway cmglccAutoReset**

Event ID 22

**Trap#** 100

Alarm Level MAJ

Alarm Name cmglccAutoReset

**Description** The Branch Gateway automatically reset the Internal Communications

Controller.

# Resolving the automatic reset problem of the internal communications controller

#### **Procedure**

If the problem persists, escalate

## Branch Gateway cmglccAutoResetClear

Event ID 22

**Trap#** 101

Alarm Level MAJ

Alarm Name cmglccAutoResetClear

**Description** The Internal Communications Controller is running normally.

# Branch Gateway cmgPrimaryControllerFault

**Event ID** 23

Trap# 102

Alarm Level WRN

Alarm Name cmgPrimaryControllerFault

**Description** The Branch Gateway cannot contact the first controller in its controller list.

#### Contacting the first controller in the controller list

#### **Procedure**

- Verify that the controller list is correct. From the MGP CLI, enter the command show mgc list. The IP address should match the S8700-series Server C-LAN or the S8300D Server IP address. If the IP addresses match, go to step 3.
- 2. If needed, correct this in 'configure' mode on the MGP CLI by clearing the mgc list first with the clear mgc list command, and then enter set mgc list with the correct IP addresses.
- 3. Verify that the primary controller is up.
- 4. If so, shut down every LSP.

# Branch Gateway cmgPrimaryControllerClear

**Event ID** 23

Trap# 103

Alarm Level WRN

Alarm Name cmgPrimaryControllerClear

**Description** The Branch Gateway successfully contacted the first controller in its controller

list.

## **Branch Gateway cmgNoControllerFault**

Event ID 24

**Trap#** 104

Alarm Level MAJ

Alarm Name cmgNoControllerFault

**Description** The Branch Gateway cannot contact any controller in its controller list.

#### Contacting any controller in the controller list

#### **Procedure**

- Verify that the controller list is empty. From the MGP CLI, enter the command show mgc list to verify that there are no controllers listed.
- If none are listed, add the correct IP address of the S8700-series server or S8300D.
   In 'configure' mode on the MGP's CLI, enter set mgc list with the correct IP address.

### Branch Gateway cmgNoControllerClear

Event ID 24

**Trap#** 105

Alarm Level MAJ

Alarm Name cmgNoControllerClear

**Description** The Branch Gateway successfully contacted one of the controllers in its controller list.

#### **Branch Gateway cmgRegistrationFault**

**Event ID** 25

Trap# 106

Alarm Level WRN

Alarm Name cmgRegistrationFault

**Description** The Branch Gateway cannot register with any controllers in its controller list.

#### Registering with controllers in the controller list

#### **Procedure**

- 1. Verify that the controller list is correct. From the MGP CLI, enter the command show mgc list. The IP address should match the S8700-series Server C-LAN or the S8300D Server IP addresses.
- 2. If needed, correct this in 'configure' mode on the MGP's CLI by clearing the mgc list with clear mgc list, then entering set mgc list with the correct IP addresses.
- 3. If the IP address in the mgc list matches the S8700-series Server C-LAN or the S8300D Server IP addresses, there may be a network problem.
- 4. Verify that the primary controller is up.
- 5. If the above steps do not fix the problem, reboot the Branch Gateway.

# **Branch Gateway cmgRegistrationSuccess**

Event ID 25 Trap# 73

WRN Alarm Level

Alarm Name cmgRegistrationSuccess

Description The Branch Gateway has successfully registered with a controller.

#### Branch Gateway cmgH248LinkDown

**Event ID** 26

108 Trap#

Alarm Level MIN

Alarm Name cmgH248LinkDown

**Description** The H.248 link between the Branch Gateway and its controller is down.

#### Fixing the link between the Branch Gateway and its controller

#### **Procedure**

- 1. Check the S8300D Server or duplicated servers.
- 2. If it is down, bring it up.
- 3. If it is not, check the Branch Gateway administration. Since the following command causes a brief service outage, it should only be executed at the customer convenience.
- 4. If the administration is correct, reboot the Branch Gateway.
- 5. If the problem persists, check network connectivity. Use ping or traceroute to the S8700-series server or S8300D to check connectivity.
- 6. If the problem persists, escalate.

# Branch Gateway cmgH248LinkUp

Event ID 26

**Trap#** 109

Alarm Level MIN

Alarm Name cmgH248LinkDown

**Description** The H.248 link between the Branch Gateway and its controller is down.

## cmgTestFault

Event ID 27

**Trap#** 110

Alarm Level MIN

Alarm Name cmgTestFault

**Description** Maintenance tests have failed.

### Resolving the problem related to failed maintenance tests

#### **Procedure**

Refer to the specific maintenance object failure for diagnosis.

## cmgTestClear

Event ID 27

111 Trap#

Alarm Level MIN

**Alarm Name** cmgTestClear

**Description** Previously failed maintenance tests have passed.

# cmgTestThresholdFault

**Event ID** 28

Trap# 112

Alarm Level MAJ

Alarm Name cmgTestThresholdFault

The maintenance test failure count has exceeded its reporting threshold. Description

### cmgTestThresholdClear

**Event ID** 28

Trap# 113

Alarm Level MAJ

Alarm Name cmgTestThresholdClear

**Description** The maintenance test failure count has dropped below its reporting threshold.

# **Branch Gateway cmgMgAutoReset**

**Event ID** 29 Trap# 114

Alarm Level WRN

Alarm Name cmgMgAutoReset

**Description** The Branch 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 Branch Gateway Processor comes back up after resetting. If the Branch Gateway Processor resets and fails to come back up, this trap will not be generated.

#### Resolving the automatic reset problem of the Branch Gateway Processor

#### **Procedure**

- 1. Check to see if a maintenance test that is supposed to reset the processor was run.
- 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.
- 3. Check the Branch Gateway Processor and ensure that it has the latest version of firmware installed. If it does not, install the latest version of firmware and continue to monitor.
- 4. If the trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.
- 5. If the trap occurs and the Branch Gateway Processor is frequently resetting, manually reset the Branch Gateway. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.
- 6. If the trap occurs frequently and the Branch Gateway Processor is not resetting, the Branch Gateway does not function properly and is not capable of resetting itself to restore service. If service is impaired, reset the Branch Gateway manually. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.

# Branch Gateway cmgModuleAutoReset

Event ID 30

**Trap#** 116

Alarm Level WRN

Alarm Name cmgModuleAutoReset

**Description** A Media Module in the Branch Gateway automatically reset (rebooted). A Media

Module automatically resets when it fails a sanity test performed by the Branch

Gateway Processor.

#### Resolving the automatic reset problem of a media module

#### **Procedure**

- 1. Check to see if a maintenance test that is supposed to reset the Media Module was run.
- 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.
- 3. If the trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.
- 4. If the trap occurs and the Media Module does not return to service, or if the trap occurs frequently, attempt to reset the failing module from the SAT or CLI and see if this returns it to stable service.
- 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.
- 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 Branch 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 Branch Gateway Processor

itself. Escalate and have Tier 3 personnel capture the trap information and the event logs for analysis.

## Branch Gateway cmgModuleAutoResetClear

Event ID 30

**Trap#** 117

Alarm Level WRN

Alarm Name cmgModuleAutoResetClear

**Description** The reset media module is operating normally.

## **Branch Gateway cmgModulePostFault**

Event ID 32

**Trap#** 118

Alarm Level MIN

Alarm Name cmgModulePostFault

**Description** A Media Module failed its power-on start-up test.

#### Resolving a failed power-on start-up test

#### **Procedure**

Reset or replace the Media Module.

# Branch Gateway cmgModulePostClear

Event ID 32

**Trap#** 119

Alarm Level MIN

Alarm Name cmgModulePostClear

**Description** The media module power-on start-up test was successful.

# cmgModuleParameterFault

Event ID 33

**Trap#** 120

Alarm Level MIN

Alarm Name cmgModuleParameterFault

**Description** A media module failed its parameter exchange.

#### Resolving a failed parameter exchange of the media module

#### **Procedure**

- 1. Manually reboot the Branch Gateway at a convenient time.
- 2. If the problem persists, escalate.

# cmgModuleParameterClear

Event ID 33

**Trap#** 121

Alarm Level MIN

Alarm Name cmgModuleParameterClear

**Description** The media module's parameter exchange succeeded.

## cmgConfigUploadFault

Event ID 34

**Trap#** 122

Alarm Level MAJ

Alarm Name cmgConfigUploadFault

**Description** An attempt to upload a configuration file failed.

#### Resolving a failed attempt to upload a configuration file

#### **Procedure**

- 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: copy mgp-config tftp filename ip address
  - 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 Branch Gateway.

# Branch Gateway cmgVoipOccFault

**Event ID** 35

Trap# 124

Alarm Level MIN

Alarm Name cmgVoipOccFault

**Description** One or more of the VoIP engines in the Branch Gateway is over is its occupancy

threshold as measured by a snapshot: (Channels In Use/Total Channels). No

action is required.

# Branch Gateway cmgVoipOccClear

**Event ID** 35

Trap# 125

Alarm Level MIN

Alarm Name cmgVoipOccClear

**Description** All of the VoIP engines in the Branch Gateway are operating below occupancy

threshold.

# Branch Gateway cmgVoipAvgOccFault

**Event ID** 36

Trap# 126

Alarm Level MIN

Alarm Name cmgVoipAvgOccFault

**Description** One or more of the VoIP engines in the Branch Gateway is operating above its

average occupancy threshold. No action is required.

#### Branch Gateway cmgVoipAvgOccClear

Event ID 36

**Trap#** 127

Alarm Level MIN

Alarm Name cmgVoipAvgOccClear

**Description** All of the VoIP engines in the Branch Gateway are operating below occupancy

threshold.

# Branch Gateway cmgVoipAutoReset

Event ID 37

**Trap#** 128

Alarm Level WRN

Alarm Name cmgVoipAutoReset

**Description** A VoIP (Voice Over IP) module in the Branch Gateway automatically reset

(rebooted). A VoIP module automatically resets when it fails a sanity test performed by the Branch Gateway Processor, when its IP address is administered, or when it fails a ping test performed by the Branch Gateway

Processor against the VoIP module's IP address.

# Resolving the automatic reset of the VOIP module in the Branch Gateway

#### **Procedure**

1. Check if a maintenance test to reset the VoIP module was run.

- 2. Check if the VoIP module had its IP address re-administered.
- 3. Check if the IP address administered on the VoIP module is correct.
- 4. Check if the IP address of the Branch Gateway itself can be pinged. Physical or logical connectivity issues (cabling or routing problems) in the data network can cause ping failures.
- 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.
- 6. If the trap occurs infrequently, the trap may be due to an unusual transient condition. Monitor future traps.
- 7. If the trap occurs and the VoIP module does not return to service, or if the trap occurs frequently, attempt to reset the failing module from the SAT or CLI and see if this returns it to stable service.
- 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.
- 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.
- 10. Manually reset the Branch 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 Branch Gateway Processor itself. Capture the trap information. If possible, capture the event logs, using the show event-log CLI command, for analysis. Escalate.
- 11. If none of this works, capture the trap information. If possible, capture the event logs by using the show event-log CLI.

#### Branch Gateway cmgVoipAutoResetClear

Event ID 37

**Trap#** 129

Alarm Level WRN

Alarm Name cmgVoipAutoResetClear

**Description** A VoIP engine has completed its automatic reset and is running normally.

#### cmgDsuAutoReset

Event ID 40

**Trap#** 132

Alarm Level WRN

Alarm Name cmgDsuAutoReset

**Description** A DSU in one of the E1/T1 media modules began an automatic reset. No action

is required.

#### cmgDsuAutoClear

Event ID 40

**Trap#** 133

Alarm Level WRN

Alarm Name cmgDsuAutoClear

**Description** A DSU in one of the E1/T1 media modules completed its automatic reset and

is running normally.

# cmgDsuDteDtrFault

Event ID 41

**Trap#** 134

Alarm Level MIN

Alarm Name cmgDsuDteDtrFault

**Description** 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.

#### cmgDsuDteDtrClear

**Event ID** 41

Trap# 135

Alarm Level MIN

Alarm Name cmgDsuDteDtrClear

**Description** One of the E1/T1 media modules has detected that the DTR signal from its DTE

has returned to normal.

# cmgDsuDteRtsFault

**Event ID** 42

Trap# 136

Alarm Level MIN

Alarm Name cmgDsuDteRtsFault

**Description** 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.

#### cmgDsuDteRtsClear

**Event ID** 42

Trap# 137 Alarm Level MIN

Alarm Name cmgDsuDteRtsClear

**Description** An E1/T1 media module has detected that the RTS signal from its DTE has

returned to normal.

#### cmgDsuTxDFault

Event ID 42

**Trap#** 138

Alarm Level MAJ

Alarm Name cmgDsuTxDFault

**Description** 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.

## cmgDsuTxDClear

Event ID 43

**Trap#** 139

Alarm Level MAJ

Alarm Name cmgDsuTxDClear

**Description** The E1/T1 media module is receiving normal data from the local DTE to be sent

to the far end.

#### cmgDsuRxDFailure

Event ID 44

**Trap#** 140

Alarm Level MAJ

Alarm Name cmgDsuRxDFailure

**Description** 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.

#### cmgDsuRxDClear

Event ID 44

**Trap#** 141

Alarm Level MAJ

Alarm Name cmgDsuRxDClear

**Description** The E1/T1 media module is receiving normal data from the far end to be sent

to the local DTE.

#### Branch Gateway cmgSyncSignalWarn

Event ID 45

**Trap#** 34

Alarm Level WRN

Alarm Name cmgSyncSignalWarn

**Description** 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 number 30, cmgSyncSignalFault, is generated.

# **Branch Gateway cmgSyncWarnClear**

Event ID 45

**Trap#** 35

Alarm Level WRN

Alarm Name cmgSyncWarnClear

**Description** More than one port is in service on a board that is providing sync timing.

# cmgVoiplpConfigFault

Event ID 46

**Trap#** 142

Alarm Level MIN

Alarm Name cmgVoipIpConfigFault

**Description** There are two possible causes:

a. Duplicate IP address

b. VoIP failed to initialize.

#### **Determining the failure**

#### **Procedure**

Examine the event log to determine the failure that caused the event.

# cmgVoipIpConfigClear

**Event ID** 46

Trap# 143

Alarm Level MIN

Alarm Name cmgVoipIpConfigClear

**Description** The duplicate IP address has been changed or the VoIP reset to re-initialize.

#### **Trap Number 144**

**Event ID** 47

Alarm Level RES

**Description** The Branch Gateway is now registered to the reporting server. Alarm has been

cleared.

# **Trap Number 145**

**Event ID** 48

Alarm Level MIN

**Description** G450/700 Branch Gateway has de-registered (transient loss of registration)

from the reporting server.

# **Trap Number 146**

Event ID 49

Alarm Level MAJ

**Description** G450/700 Branch Gateway has unregistered (registration lost) from the

reporting server. All board and call information has been cleared.

#### **Event ID 50**

Alarm Level MAJ

**Description** G350 Branch Gateway is now registered to the reporting server.

#### **Event ID 51**

Alarm Level MIN

Description G350 Branch Gateway has de-registered (transient loss of registration) from

the reporting server.

#### **Event ID 52**

Alarm Level MAJ

**Description** G350 Branch Gateway has unregistered (registration lost) from the reporting

server.

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