



Dialogic® IP Media Server Release 2.4.0

Installation and Operations Guide

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About this Publication

The Dialogic® IP Media Server is a standards-based SIP and VoiceXML server that performs a wide variety of media processing functions.

This media sever also provides a cost-effective and scalable IP media option, as it can power a broad range of voice and video services for next generation wireline, wireless, and broadband services.

This section describes this manual and the contents of the manual set and consists of the following sections:

- ◆ Using this Publication
- ◆ Dialogic® IP Media Server Documentation Set
- ◆ Contacting Dialogic Technical Support

Using this Publication

Audience and Purpose

This manual is for network or system administrators responsible for installing and configuring the Dialogic® IP Media Server .

Organization and Content

Chapter 1, “Introduction”, provides an overview of the structure and operation Dialogic® IP Media Server .

Chapter 2, “Installing the Media Server”, explains how to install and configure the IP Media Server.

Chapter 3, “Using the Web User Interface (Web UI)”, explains how to use the Web User Interface.

Chapter 4, “Configuring the Dialogic® IP Media Server”, describes procedures for configuring the IP Media Server for operation.

Chapter 5, “Operations, Administration, and Maintenance”, describes procedures for operating, administering, and maintaining the IP Media Server.

Appendix A, “Compliance and Standards Information”, describes the IP Media Server’s compliance with standards.

Appendix B, “Troubleshooting”, provides troubleshooting procedures for the IP Media Server.

Appendix C, “Required Red Hat Enterprise Linux Packages” lists the software packages that are required for installation of release 2.4 of the Dialogic® IP Media Server .

Appendix D, “VXML 2.0 SNMP Traps and MIBs”, provides information about SNMP MIBs and traps that are related to VXML 2.0 processes or which are generated when running VXML 2.0 on the IP Media Server.

Dialogic® IP Media Server Documentation Set

The Dialogic® IP Media Server is documented in the following publications:

- ◆ The *Installation and Operations Guide* provides instructions for configuring, administering, and maintaining the IP Media Server.
- ◆ The *Application Developer's Guide* provides information for application developers who choose to use the IP Media Server to deploy network announcements, conferences, and Interactive Voice Response (IVR) in a voice over IP (VoIP) environment.
- ◆ The *License Activation Guide* describes how to activate the license for your Dialogic® IP Media Server .
- ◆ *VoiceXML 2.0 Reference* is provided in HTML format on the IP Media Server documentation CD and provides descriptions of supported VXML 2.0 tags and attributes.

Printed and Electronic Document Formats

The documentation package for the IP Media Server contains a printed copy of Release Notes and a CD including electronic versions of both IP Media Server manuals, Release Notes, hardware compliance documentation, and the Intel reference documentation, all in .PDF format. The PDF files require the Adobe Acrobat reader, a free download from www.adobe.com.

Release notes are updated when software changes are made, and are distributed by email and on the following Web site:

<http://www.dialogic/support>

The software and documentation are password protected. You will need to contact technical support to get the username and password.

Document Conventions

Notes, Cautions, and Warnings

Notes contain tips and information of general interest, for example:

Cautions and warnings appear when appropriate throughout the manual.

Cautions alert you to situations that can make system administration less effective or can compromise system performance or security. For example:



Before changing the configuration of a running system, always back up the current configuration using the System→Config Backups command.

Warnings alert you to situations that could cause physical harm to an operator, or damage to the IP Media Server. For example:



If an interface is deactivated, all traffic on that interface will be dropped.

Links in PDF

Hypertext links in the PDF version of this manual use non-serif font. You can click on a cross reference to move to the information it references.

Index entries and Table of Contents listings are also clickable links in the PDF format. After you jump to a link, use the Back button on the Acrobat Reader toolbar to return to your prior location.

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- ◆ Full description of the issue.
- ◆ Version of the IP Media Server software you are using.
- ◆ IP Media Server log files.
- ◆ Whether the issue is reproducible; the steps that you took.

Please note that the latest software update and release notes are available from Dialogic support page.

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1 - Introduction

This chapter provides an overview of the Dialogic® IP Media Server (which is referred to in this document as the “IP Media Server” or “Media Server” or IPMS” or “MS”).

This chapter includes the following sections:

- ◆ [Overview of the IP Media Server](#)
- ◆ [Supported Applications](#)

Overview of the IP Media Server

The Dialogic® IP Media Server is capable of handling processing tasks associated with next generation voice, video, and data applications. The IP Media Server processes, manages, and delivers media resources for IP-based services when one or more third-party application servers, softswitches, or telephony applications provide direction to do so.

The IP Media Server is capable of handling media in various forms. Streaming media, such as real-time voice, most often takes the form of Real Time Protocol (RTP) streams encapsulated in UDP/IP packets. Other media, such as recorded announcement files, are stored locally or on remote servers and retrieved using the Network File System (NFS) or HTTP protocol.

Figure 1 illustrates the role of the Dialogic® IP Media Server in a network and how it communicates with other network resources and devices.

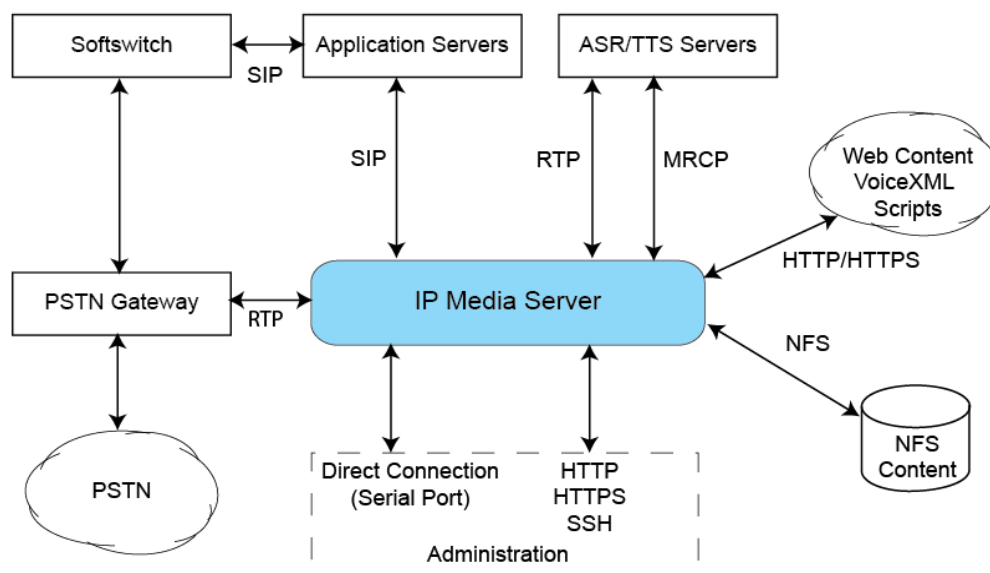


Figure 1. The IP Media Server in a Network

IP Media Server Components

The IP Media Server consists of several stand-alone processes and integrations with standard Linux applications such as Apache. Figure 2 illustrates these major components.

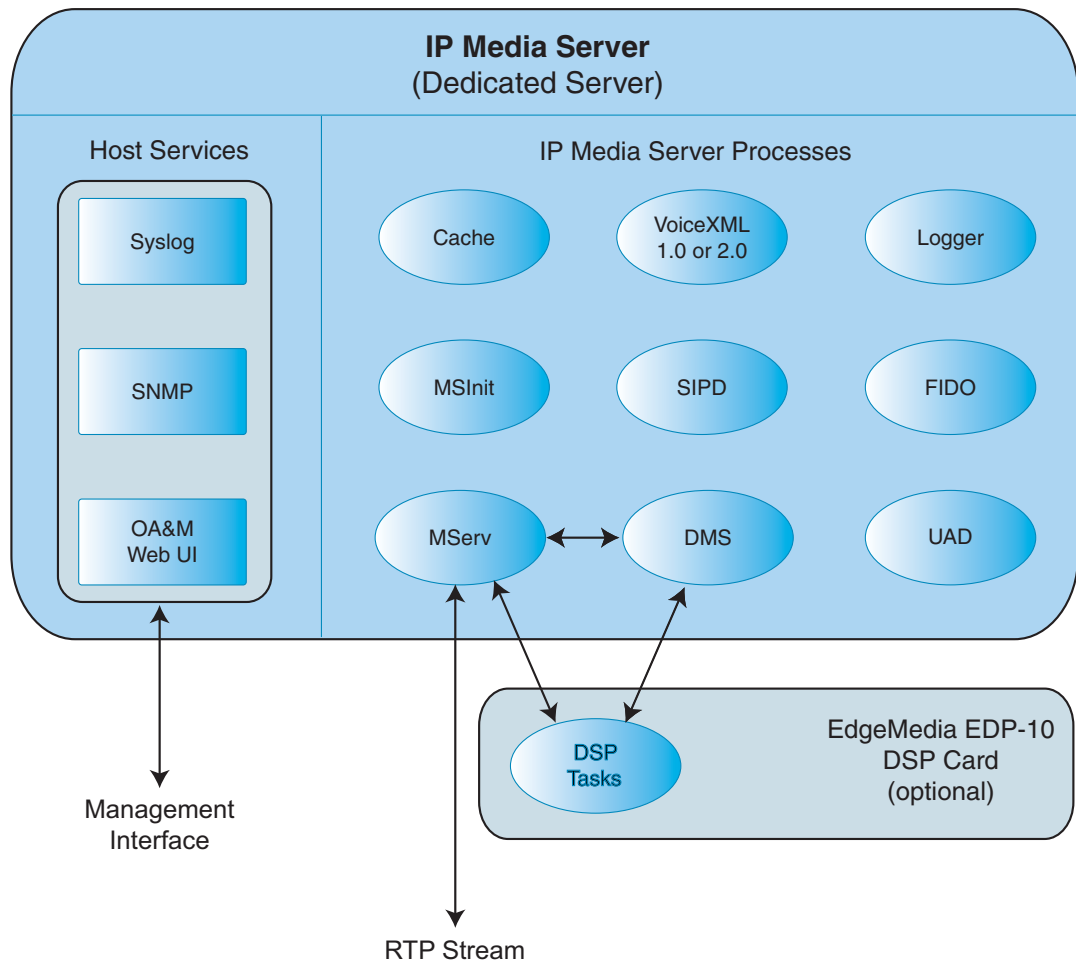


Figure 2. IP Media Server Components

The IP Media Server components are described in the following sections.

DMS

DMS (DSP Management Service) manages requests from MServ for DSP resources when the optional DSP processor is available. The EdgeMedia EDP-10 DSP card is required for processing advanced codes such as G.726, G.729, and AMR.

FIDO

FIDO (Fetcher of Internet Domain Objects) is an HTTP/HTTPS client used to retrieve prompts and VoiceXML scripts and to post recordings and VoiceXML results.

Cache

The cache component is an HTTP caching proxy server used by other processes that retrieve content using the HTTP and HTTPS protocols.

MServ

The MServ process is responsible for all RTP processing and the handling of audio and video media (e.g., conference mixing, playing prompts, etc.).

MSInit

This component tracks and logs initialization of other IP Media Server components.

MSProvider

This process handles licensing services on the IP Media Server.

SIPD

SIPD processes SIP requests received by the IP Media Server.

SNMPDaemon

The SNMPDaemon process handles SNMP traps and activities on the IP Media Server.

UAD

The User Agent Daemon (UAD) generates outbound SIP requests and is used in conjunction with the VoiceXML <transfer> tag.

VXML 1.0 and VXML 2.0

The IP Media Server provides VoiceXML 1.0 and VoiceXML 2.0 compliant browsers. VoiceXML browsers interpret and execute VoiceXML scripts generated by applications.

When VXML 1.0 is enabled on the IP Media Server, the VXMLD process runs. When VXML 2.0 is enabled on the IP Media Server, multiple processes are invoked.

IP Media Server Components and Related Logs

Table 1 lists components that run on the IP Media Server, and the log file(s) associated with each component. The information contained in the logs is useful to troubleshooting issues that may be encountered during application development and deployment. Tracing a call through the logs is also can help one to become familiar with the detailed operation of the IP Media Server. All of the logs are stored in the directory `/var/snowshore/logs`.

Table 1. IP Media Server Components and Related Logs

IP Media Server Components	Related Log Files
Cache	cache_access.log
DMS	dms.log
Email to Fax	email_to_fax.log
FIDO	fido.log
HTTP	cache.log
MServ	mserv.log
MSInit	msinit.log
MSPProvider	msprovider.log
Recoveryd (VXML 1.0)	recoveryd.log
SIPD	sipd.log
SNMPDaemon	snmpdaemon.log
SR140	sr140app.log
Syslog	messages.log
UAD	uad.log
VXML 1.0	vxmld.log
VXML 2.0	cmp-prefixed logs pw_metricsfile vxml2.0_health.log vxml2.0install.log
Web UI	audit.log

Supported Applications

The Dialogic® IP Media Server supports the various application services including the following:

- ◆ Network Announcements
- ◆ Conferencing
- ◆ IVR
- ◆ VoiceXML

SIP Implementation

All application services are implemented through the Session Initiation Protocol (SIP) protocol and optional XML-based directives. The SIP Request-URI indicates the service to receive a request.

Service Indicator

The Dialogic® IP Media Server takes advantage of the fact that the SIP standard has a ‘user’ component on the left-hand side of the Uniform Resource Identifier (URI) and that the IP Media Server does not have ‘users’.

The Dialogic® IP Media Server employs the user address portion of the Request-URI as a service indicator, which can take any of the values listed in Table 2.

If no service indicator appears in the SIP message, the default application is VoiceXML (the `dialog` service indicator). This default application can be changed through the web interface by selecting the MEDIA SERVER > SIP menu and setting the Default Application under the SIP Parameters section. The default version of VXML is 2.0. This is configured by selecting the MEDIA SERVER > VOICEXML menu.

Table 2. Application Service Indicators

Service	Service Indicator	Example ^a
Announcements	<code>annc</code>	INVITE sip: annc @MS_IP; play=(etc.) SIP/2.0
Conferencing	<code>conf</code>	INVITE sip: conf =confid@MS_IP SIP/2.0
IVR	<code>ivr</code>	INFO sip: ivr @MS_IP SIP/2.0
VoiceXML	<code>dialog</code>	INVITE sip: dialog @MS_IP; voicexml=http://path/ filename.vxml SIP/2.0

a. The Service Indicators are shown in bold text in the Example column of this table.

Media Content and Processing by Applications

For all services, the IP Media Server generates RTP voice packets encoded as G.711 (a-law and μ -law), G.726, G.729, or AMR-NB.

Note: Using the AMR-NB resource in connection with a Dialogic® product does not grant the right to practice the AMR-NB standard. To seek a patent license agreement to practice the standard, contact the VoiceAge Corporation at <http://www.voiceage.com/licensing.php>. For a listing of the AMR codec "essential patents," visit: http://www.voiceage.com/ess_patent.php

Note: RTP encoding is established through SDP negotiation of the media description (which is done using the attribute 'm=').

The announcement and IVR services can retrieve and play files with content encoded in the following formats:

Table 3. Supported Announcement and IVR File Encodings

Service	Encoded Format	File Format
announcement and IVR services	G.711	*.ulaw, *.alaw, *.au, and *.wav
announcement and IVR services	MSGSM	*.msgsm or *.ms_gsm
IVR service	G.711 a-law or μ -law MSGSM	*.au, *.wav
Video	H.263, H.263+, H.264	*.3gp, *.3gpp, *.wav
All services	Convert to RTP stream encoded as G.711 a-law or μ -law	Retrieve an audio file encoded as G.711a-law or μ -law or MSGSM

All services can retrieve an audio file encoded as G.711a-law or μ -law or MSGSM and convert it to an RTP stream encoded as either G.711 a-law or μ -law.

Note: Audio data format and content encoding are specified in the file header and through the prompt encoding parameter in the MSCML interface. If the file format is unknown or unspecified, the IP Media Server assumes headerless μ -law.

The announcement and IVR services can retrieve audio files anywhere they are accessible by the IP Media Server. Files can be in either the file:/// scheme retrieved by NFS or the http:// scheme retrieved by HTTP (version 1.0 or version 1.1).

NFS mount points are automounted.

2 - Installing the Media Server

The Dialogic® IP Media Server is distributed in two forms:

- ◆ An integrated server, including a hardware platform and preinstalled IP Media Server software.
- ◆ A software-only release for installation on an existing hardware platform.

This chapter explains how to install and configure the IP Media Server and includes the following sections:

- ◆ [Installing the Integrated IP Media Server](#)
- ◆ [Installing the Integrated IP Media Server](#)
- ◆ [Installing IP Media Server Software](#)
- ◆ [Configuring a Management Interface](#)



Note: The Dialogic® IP Media Server is suitable for use as a dedicated telephony media server. Other software applications installed on the IP Media Server may adversely affect its performance.

Installing the Integrated IP Media Server

This section provides information for installing the integrated IP Media Server. The IP Media Server is also available as a software-only release that can be installed on a wide range of supported hardware platforms. Installing the software-only version is described in “Installing IP Media Server Software” (page 38).

Description

The integrated IP Media Server is delivered as a 1U system based on an Intel SR1450 chassis with the IP Media Server software already installed. The operating system is Red Hat Enterprise Linux ES 4.0 Update 5.

Details about the Intel SR1450 are available in the Intel technical specifications on the documentation CD. The Release Notes list other supported hardware platforms.

Optional Components

The integrated IP Media Server is available with the following optional component:

- ◆ **EDP-10** The EdgeMedia EDP-10 is a DSP processor card. This card is required when using the G.726, G.729, and AMR-NB codecs. This is a factory-installed option, not a field-upgradable option.

Note: Using the AMR-NB resource in connection with a Dialogic® product does not grant the right to practice the AMR-NB standard. To seek a patent license agreement to practice the standard, contact the VoiceAge Corporation at <http://www.voiceage.com/licensing.php>. For a listing of the AMR codec "essential patents," visit: http://www.voiceage.com/ess_patent.php



Warning: Although your IP Media Server may have open disk drive bays, these must not be upgraded with field-installed drives.

Specifications

The following table provides specifications for the integrated IP Media Server.

Table 4. Integrated IP Media Server Specifications

Processor	Dual Intel Xeon Processors @ 2.8 GHz
Hard Disk	Single 70GB

Table 4. Integrated IP Media Server Specifications (Continued)

Ethernet	Two 1Gb Ethernet Ports (eth0, eth1)
PCI Slot: full-height low-profile	1 1
Memory	2GB
Power	Single or dual 520W power supplies AC Voltage: 100–127 / 200–240 V~; 6.5 / 3.2A
Weight	~28 / 35 lbs.
Dimensions	Height 1.7", Width 16.93", Depth 26.46" (43 mm x 430 mm x 672 mm)
Temperature: Operating Non-operating	+50°F to +95°F (+10°C to +35°C) –40°F to +158°F (–40°C to +70°C)
Humidity: Non-operating	90% (non-condensing) @ +30°C
Cooling Requirements	2322 BTU/hour (based on 520W maximum power, 78% power subsystem efficiency, and 98% power factory correction loss)
EDP-10 (Optional)	EdgeMedia DSP card for G.726, G.729, and AMR-NB Codec Support (LED Indicators: On, Active, Transmit, Receive) Using the AMR-NB resource in connection with a Dialogic® product does not grant the right to practice the AMR-NB standard. To seek a patent license agreement to practice the standard, contact the VoiceAge Corporation at http://www.voiceage.com/licensing.php . For a listing of the AMR codec "essential patents," visit: http://www.voiceage.com/ess_patent.php

Before Installing the IP Media Server

Preparing the Site

Before you install the IP Media Server, make sure the operating environment meets the physical specifications for humidity and temperature described in Table 4 (page 33).

Choose a location where the IP Media Server and all devices that connect to it can be in close proximity to each other and to an electrical outlet. For more information, see the *Quick Install Guide* that came with your IP Media Server.

Checking the Package Contents

The integrated IP Media Server shipment comes in a single box. Unpack it, verifying that you have received the following items:

- ♦ The IP Media Server chassis
- ♦ A front bezel (which must be installed)
- ♦ A North American AC power cord (not NEBS [Network Equipment Building System])
- ♦ A documentation package containing Release Notes, a license, and a CD containing electronic versions of the user documentation
- ♦ A serial cable kit
- ♦ An additional box (below chassis) that contains a bracket kit and installation guide

Tools and Supplies

To install the IP Media Server, you need:

- ◆ A Phillips-head screwdriver for mounting the chassis to the rack
- ◆ Cables for the RJ45 NIC interfaces
- ◆ For the Management Interface configuration, you need either a PC/laptop with a terminal emulation program or a terminal server. Both require use of the included serial cable kit. You can optionally use a keyboard, monitor, or mouse connected directly to the appropriate connectors on the IP Media Server.

Hardware Installation

The integrated version of the IP Media Server is shipped as a user-installable device. It is recommended that the system be powered using a UPS system for reliability and protection from power fluctuations.

Rack Mounting

The integrated version of the IP Media Server can be mounted in any standard rack. The IP Media Server comes with sliding rails and a set of fixed rails for mounting in rack-mount systems. The configuration of your racks may dictate which rails you are able to use. Refer to the installation instructions provided with the rails for more information.

Cabling

Connect all cables to the connectors on the back of the chassis. For the standard Dialogic® IP Media Server, there are two 1Gb Ethernet ports and a serial connector as shown in Figure 3.

Connect the serial port to a terminal server for emergency access to the system or for initial setup.

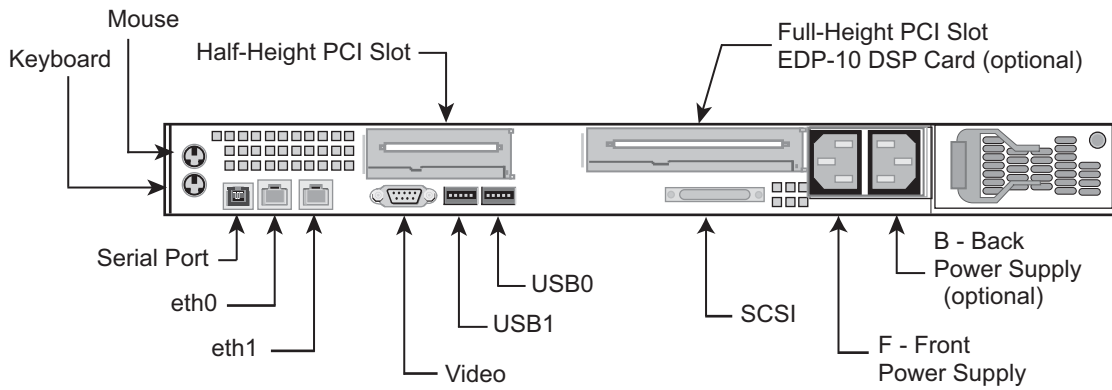


Figure 3. Rear View of the IP Media Server Chassis

Front Panel

The front panel of the integrated IP Media Server is shown below. Each of the front panel features is described in Table 5

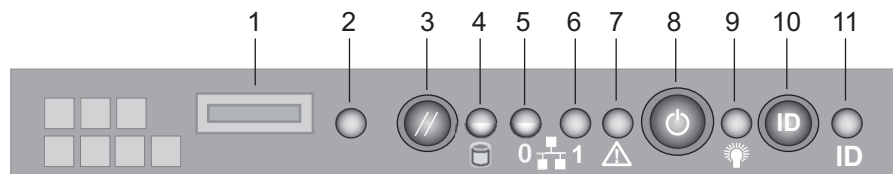


Figure 4. IP Media Server Front Panel

Table 5. Front Panel Features and Functions

Item	Feature	Function
1	USB 2.0 port	Allows you to attach a USB component to the front of the chassis.
2	NMI button	Puts the server in a halt-state for diagnostic purposes.
3	Reset button	Reboots and initializes the system.
4	Hard disk drive activity LED	Random blinking green light indicates hard disk drive activity (SCSI). No light indicates no hard disk drive activity.
5	NIC 0 activity LED	Blinking green light indicates network activity. Continuous green light indicates a link between the system and the network to which it is connected.

Table 5. Front Panel Features and Functions (Continued)

Item	Feature	Function
6	NIC 1 activity LED	Blinking green light indicates network activity. Continuous green light indicates a link between the system and the network to which it is connected.
7	System Status LED	Solid green indicates normal operation. Blinking green indicates degraded performance. Solid amber indicates a critical or non-recoverable condition. Blinking amber indicates a non-critical condition. No light indicates POST is running or the system is off.
8	Power/Sleep button	Toggles the system power on/off. Sleep button for ACPI-compatible operating systems.
9	Power/Sleep LED	Continuous green light indicates the system has power applied to it. Blinking green indicates the system is in S1 sleep state. No light indicates the power is off / is in ACPI S4 or S5 state.
10	System identification button	Illuminates the front panel ID LED and the server board ID LED for 15 seconds.
11	System Identification LED	Solid or blinking blue indicates system identification is active. No light indicates system identification is not activated. Note: The server board LED is visible from the rear of the chassis and allows you to locate the server from the rear of a rack of systems.

Installing IP Media Server Software

This section provides instructions for installing the IP Media Server software on a server that will act as a dedicated IP Media Server platform. The server hardware must meet the minimum system requirements defined below.

Operating System Requirements

IP Media Server Release 2.4.0 can be installed on systems running Red Hat Enterprise Linux ES 4.0 - Update 5.

Server Hardware Requirements

The server on which you install the IP Media Server software must meet the minimum requirements listed in Table 6.

Table 6. Minimum Server Hardware Requirements

Item	Requirement
Processor	Two 64-bit Intel Xeon Processors running at no less than 2.8 GHz, 800 MHz front side bus, 2 MB L2 cache
Memory	2 GB ECC DDR-2 SDRAM
Ethernet	Dual 1000baseT Gigabit Ethernet
Disk	At least 30 GB Ultra320 SCSI 10000 RPM hard drive
DSP Card - Optional (Required for G.726, G.729ab, and AMR-NB processing)	EdgeMedia EDP-10 DSP card



Note: The IP Media Server is suitable for use as a dedicated telephony media server. Other software applications installed on the same physical device that is configured as the IP Media Server may adversely affect the performance of the IP Media Server.

Installing the IP Media Server 2.4.0 Software

This section provides instructions for installing the IP Media Server software on a system that has Red Hat Enterprise Linux ES 4.0 Update installed.

Note: For information on installing and configuring Red Hat, see the Red Hat documentation for ES 4.0 and the Dialogic Technical Note *Installing IP Media Server on Red Hat Enterprise Linux 4.0*.



Note: Before installing the IP Media Server software on the Red Hat operating system, you must disable SELinux. This is done automatically by the kickstart script in the Dialogic Technical Note *Installing IP Media Server on Red Hat Enterprise Linux 4.0*. You can also disable SELinux by editing the file `/etc/sysconfig/selinux` by changing the `selinux` line to `SELINUX=disabled` and rebooting the system.

After installing Red Hat Enterprise Linux ES 4.0 Update 5 on your system, insert the IP Media Server CD-ROM (IP Media Server software only for Red Hat ES 4.0 CD) into the drive.

- 1 Mount the CD-ROM on your system:

```
mount /dev/hda /media/cdrom
```

Note: This command may vary depending on the device names in your system.

- 2 Make a temporary installation directory on your system:

```
mkdir /tmp/install_1
```

- 3 Copy the contents of the CD-ROM to your temporary installation directory:

```
cp /media/cdrom/* /tmp/install_1
```

- 4 Change directory to `install_1`:

```
cd /tmp/install_1
```

- 5 Unzip the tar.gz file:

```
gunzip -d SNOW*.gz
```

- 6 Untar the compressed tar file:

```
tar -xvf SNOW*.tar
```

- 7 Install the Snowshore RPMs:

```
rpm -ivh SNOW*.rpm
```

- 8 Run the `ms_install` script:

```
./ms_install
```

A series of messages appears on the system monitor as the script installs the IP Media Server software.

- 9 When the installation script ends, unmount the CD drive:

```
umount /media/cdrom
```

- 10 Remove the temporary installation directory:

```
cd /tmp
rm -rf /tmp/install_1
```

- 11 Reboot the system (this should take approximately 5 minutes):

```
reboot
```

Refer to [“Configuring a Management Interface” \(page 41\)](#) for information about configuring a management interface on the IP Media Server. You use the management interface to configure and administer the system.

Running the G2Check Utility to Check the Installation

The IP Media Server CD-ROM contains the G2Check utility that you can run to ensure that the Media Server Installation was successful.

- 1 Copy the G2Check utility to the install_1 directory.

- 2 Run the G2Check utility:

```
root@snow-sip snowshore]# perl G2Check
```

- 3 Respond to the prompts.

- 4 When the utility is done, it prints the results to STDOUT and the details to G2Install.log.

Configuring a Management Interface

The system is configured by default to run DHCP on the Ethernet interfaces (eth0, eth1, and optional eth2). If you use DHCP to set the IP address of an interface and you know the IP address, then you can use the Web User Interface (Web UI) immediately.

If you do not know the IP address configured on the system, or to set an IP address for the first time, access the system with a monitor and keyboard or over the serial port. Connect to the serial port using any standard terminal interface.

The serial port on the IP Media Server is configured as:

- ◆ Rate: autosense 9600 baud (press enter several times to autosense)
- ◆ Bits: 8
- ◆ Parity: None
- ◆ Stop Bits: 1
- ◆ Flow Control: None

Logging In

When a connection to the IP Media Server is established, the login prompt appears. The IP Media Server is delivered with a single Administrator access level user defined in the system. The login prompt appears as follows:

{hostname} login:

Use “admin” as the user name to log in through the serial port or through the console.



Navigating through the Web User Interface

Use the keyboard to navigate through the interface. The navigation keys are:

Table 7. Navigation Keys

Navigation Key	Description
Tab, up and down arrows	Navigate through the fields in the display.
Right arrow	Select an option.
Enter	To apply, cancel, or reboot.
H	To access help.

-
- To view the interface configuration:
 - ◆ Select the Interface Configuration command.
 - To change the IP address of an interface:
 - 1 Select the interface to be configured.
 - 2 Tab or mouse over to the IP address field.
 - 3 Enter an IP address.
 - 4 Enter network mask.
 - 5 Note the IP address and apply the change.

Note: Specify an IP address for each interface.

The next page displayed is the original page you saw when you logged in.

- ◆ Tab to the **REBOOT** option and press **ENTER**.

The host reboots and the interface comes up with the specified address.

All further configuration is done through the Web User Interface.

The Web User Interface arrives configured to use HTTP. If HTTPS is preferred, you can install a security certificate and key on the system using the Web User Interface. You can also install a certificate and key using the command options provided over the serial port or monitor/keyboard. Refer to [“Managing Certificates” \(page 141\)](#) for information on how to install a certificate.

License Activation

Note: License activation applies only to IP Media Servers running Red Hat Enterprise Linux Server operating systems.

The IP Media Server has limited functionality unless you activate licenses. The primary method of activation is interactive through use of the Web. To activate your license, you must have the following:

- ◆ Access to the license key from the License Certificate or via an email from Dialogic.
- ◆ Access to the IP Media Server Web User Interface to obtain your Node ID.
- ◆ Access to the Dialogic Web site from a system with a Web browser and Internet access.
- ◆ Access to a local FTP or NFS server.

For detailed information and instructions on activating the license, refer to the *License Activation Guide*.

3 - Using the Web User Interface (Web UI)

This chapter explains how to use the Web User Interface (Web UI). It includes the following sections:

- ◆ [Overview](#)
- ◆ [Navigating the Web User Interface \(UI\)](#)

Overview

The Dialogic® IP Media Server is configured using a standard Web browser. Internet Explorer 6.0 or Netscape 7 or higher is recommended.

Web UI Access Levels

The IP Media Server supports two access levels:

- ◆ Administrator—Can change the configuration of the system and execute administrative tasks.
- ◆ Operator—Can monitor the system, but cannot change configurations or execute administrative tasks.

Commands that are only available to Administrators are noted as such. All other commands are usable by both operators and administrators.

Note: You must be an Administrator to configure the system.

These two levels and the privileges associated with each are described in detail in [Chapter 5](#), “Operations, Administration, and Maintenance”. The IP Media Server comes with a default Administrator user account. The user name and password of this account are:

User Name: admin

Password: <blank>

User names and passwords are case sensitive.



Note: You should immediately change your password after initial login; see “Changing Administrator Password” (page 135).

Logging In

To open the Web User Interface:

- 1 Start your Web browser.
- 2 Enter the fully qualified domain name or IP address (for either eth0 or eth1) of the system in the address field of your browser; for example:

```
https://<your IP address>
```

This displays the Login page.

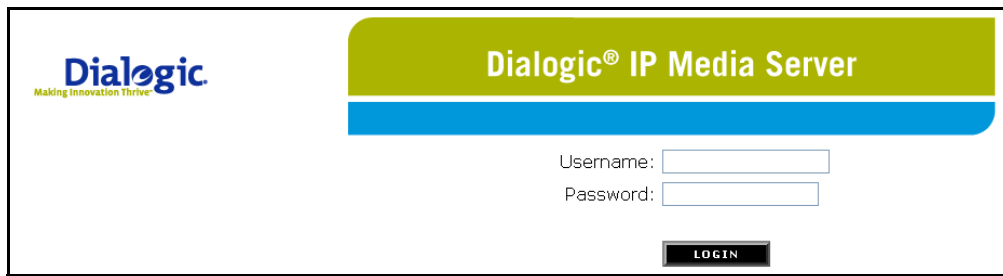


Figure 5. Login page

- 3 To log in, enter your user name and password, then click LOGIN. This displays the Web UI home page.

Web UI Home Page

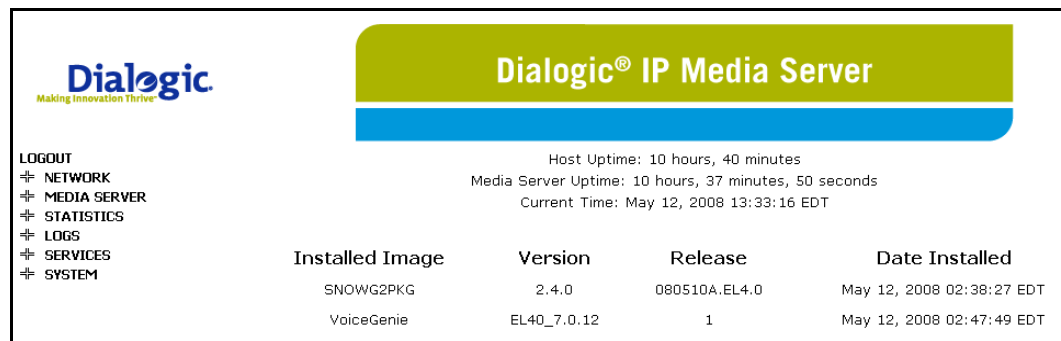


Figure 6. Web UI: Home Page

The Web UI page has three sections:

- ◆ The page title at the top.
- ◆ A menu frame to the left for navigation.
- ◆ A display frame to the right for viewing and changing data.

The display frame of the home page contains the following information about the IP Media Server you have logged into:

Item	Description
Host Uptime	How long the IP Media Server host has been running.
Media Server Uptime	How long the IP Media Server software has been running.
Current Time	The current time.

Item	Description
Installed Images	Information about the IP Media Server and VoiceGenie VXML interpreter images: <ul style="list-style-type: none">• Image name• Image version• Image release number• Date Installed

Navigating the Web User Interface (UI)

This section describes how to use the Web UI to view and change data and perform commands. Under the page title, the Web UI has a menu frame for navigation and a display frame for viewing and changing data.

The left hand frame contains a hierarchical menu system. If a menu item has submenus, a “+” sign appears to the left of the menu text. To expand a menu item with a “+” sign to its left and display the submenus, select the menu item. If the menu item is expanded, a “-” sign appears beside the expanded menu name. If neither a “+” or “-” sign appears to the left of the menu text, the item is a command. Select the menu item to execute the command.

The display frame shows the results for the first item in the expanded menu set, as in the example in Figure 7.

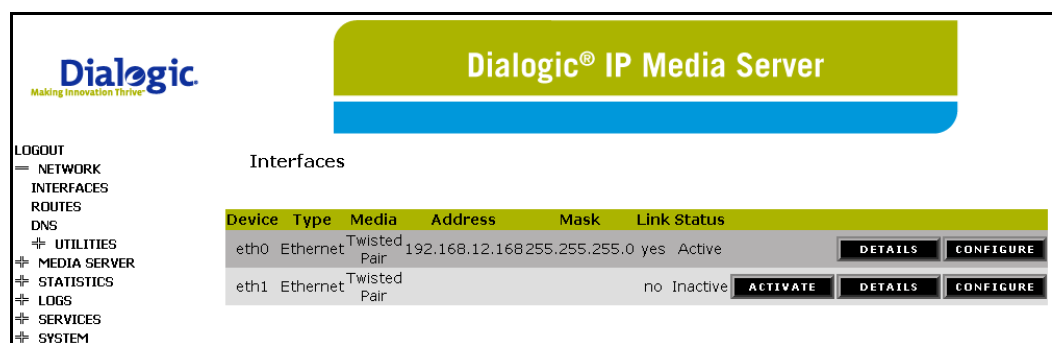


Figure 7. Menu and Display Frames in the Web User Interface

Examples are:

- ◆ The LOGOUT menu item is a command. Select LOGOUT to log out.
- ◆ The NETWORK menu has been expanded in Figure 7. The NETWORK menu contains the INTERFACES command and a sub menu for UTILITIES. The sub menu UTILITIES contains further commands. When the NETWORK menu item is expanded, the INTERFACES command is executed automatically, and displays the data for the interfaces in the display frame.

At any time, you can select another menu item in the left hand frame. This action leaves the current command and goes to the one selected. Many of the displays also have a BACK button located in the display area. To return to the previous display, click this button. You can also use the browser forward and back arrows.

Note: To return to the previous menu, click Back.

4 - Configuring the Dialogic® IP Media Server

This chapter describes procedures for configuring the IP Media Server for operation, and includes the following sections:

- ◆ [Configuration Checklist](#)
- ◆ [Network Configuration](#)
- ◆ [Configuring SIP and SDP](#)
- ◆ [Configuring VoiceXML](#)
- ◆ [Configuring Fax](#)
- ◆ [Halt Active Calls](#)
- ◆ [Shutdown Calls](#)

The Ethernet interfaces and routing table in the IP Media Server must be configured to enable the operation of the IP Media Server. The IP Media Server requires an interface to be designated for RTP traffic and one for SIP traffic. When IP addresses, routes and designated interfaces for SIP and RTP have been established, the IP Media Server is ready to be brought up in its default configuration and to process calls.

Configuration Checklist



Note: Before changing the configuration of a running system, always back up the current configuration using the **SYSTEM→CONFIG FILES→CREATE BACKUP** command.

The following checklist summarizes the minimum configuration steps required to get the IP Media Server up and running.

- 1** Configure the Network Interfaces (**Network→Interfaces: Configure** button):
 - ♦ Assign IP addresses.
 - ♦ Select an interface to be used for RTP traffic.
 - ♦ Select an interface to be used as the SIP contact address.
 - ♦ Add routes to the interfaces (**Network and Routes**).
- 2** Check the IP Media Server default parameter settings:
 - ♦ Check SIP and SDP settings (**Media Server→SIP**).
 - ♦ Check VoiceXML settings (**Media Server→VoiceXML**).
- 3** Reboot the host to ensure all configuration changes take effect:
 - ♦ **System→Reboot Host**
- 4** Test the interfaces:
 - ♦ From another system, ping the IP address of each interface.
 - ♦ From the IP Media Server, use the **Network→Utilities→Ping** command to verify that the IP Media Server can access the network.

After these configuration steps have been done, the IP Media Server can accept calls.

The following sections give details on all of the IP Media Server configuration menus and commands.

System Files Updated

Dialogic recommends using the Web UI (administrator access level) to configure the IP Media Server. The following system files are updated during configuration.

- ◆ `/etc/hosts` (snow-sip and snow-rtp get added)
- ◆ `/etc/resolve.conf` (DNS servers)
- ◆ `/etc/ntp.conf` and `/etc/ntp/step-tickers` (NTP servers)
- ◆ `/etc/sysconfig/network-scripts/ifcfg-eth(x)` (interface configuration settings)

If you create routes on the Media Server:

- ◆ `/etc/sysconfig/network-scripts/route-eth(x)`
- ◆ `/opt/snowshore/etc/snmp.conf` and `/etc/snmp/snmp.conf` (snmp)

You can manually update these files, but be careful because if you manually update a parameter and later change the parameter using the Web UI, you can create a conflict.

Network Configuration

The NETWORK menu provides commands for configuring and activating the Ethernet interfaces on the IP Media Server and for configuring routing and DNS information.

Overview of IP Media Server Ethernet Interfaces

The IP Media Server has two Ethernet interfaces by default, eth0 and eth1.

- ◆ eth0 is typically connected to a DHCP server and acquires its address via DHCP. This port is used for management and configuration access via the Web UI.
- ◆ eth1 is typically configured with a static address dedicated to SIP and RTP traffic.

Configuring Interfaces

There are three default interfaces on the IP Media Server, eth0, eth1, and bond1. To configure an interface:

- 1 Select INTERFACES.

The Interfaces page appears:

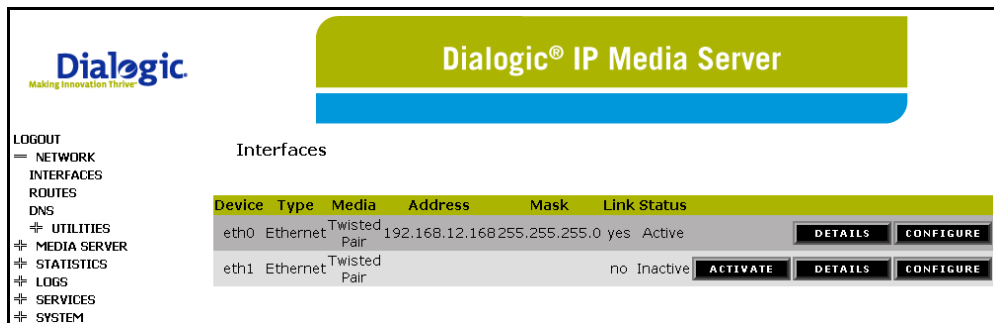


Figure 8. Interfaces Page

The Interfaces page shows the following information:

Item	Description
Device	Device name
Type	Type of the interface: Ethernet
Media	Type of media: normally twisted pair
Address	Current IP address of the IP Media Server host
Mask	Network mask associated with this interface

Item	Description
Link	Whether the interface is linked
Status	Status of the interface. The status can be: <ul style="list-style-type: none"> ◆ Active - the interface is up and running. ◆ Inactive - the interface is not running.

The Interfaces page also enables you to perform several actions on each interface:

- ◆ Change its status (toggle between Active and Inactive)
- ◆ View detailed information about it
- ◆ Configure it

Changing the Status of an Interface

Note: Only Administrators can change the status of an interface.

Each interface except eth0 has a DEACTIVATE or ACTIVATE button next to it, which enables you to change its status.

- ◆ To activate an inactive interface, click ACTIVATE.

The interface comes up with the configuration stored in the configuration file.

- ◆ To deactivate an active interface, click DEACTIVATE.

This action stops all traffic using that interface.

Note: You cannot deactivate the interface eth0, because there must always be an interface available for the Web User Interface.

When you click DEACTIVATE, a warning page appears.

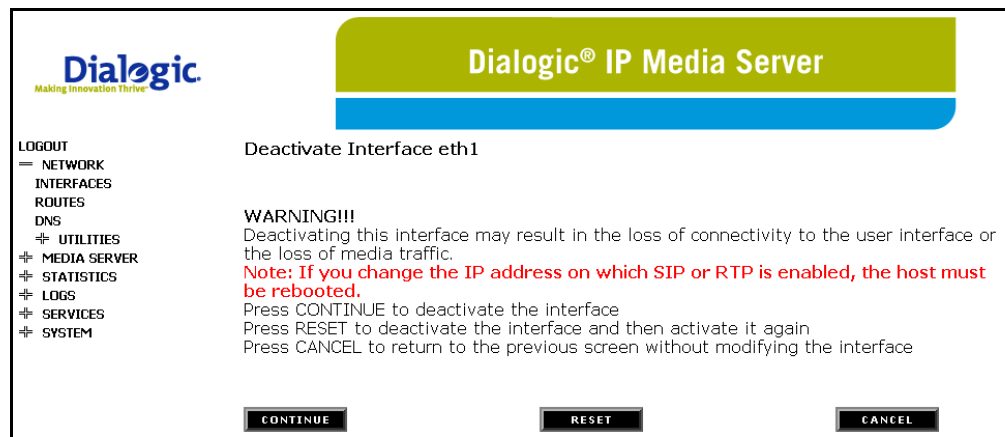


Figure 9. WARNING: Options on DEACTIVATE Interface Command

You have three options:

- ◆ CONTINUE with the deactivation.
- ◆ RESET the interface (take it down and bring it back up immediately).
- ◆ CANCEL the deactivation.



If you deactivate an interface, all traffic on that interface is dropped.

Interface Details

The DETAILS button for an interface displays the Interface Details page (Figure 10), which displays information about the running configuration of the interface and interface statistics.

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Dialogic® IP Media Server

Interface Details

Interface eth0

Encapsulation: Ethernet Hardware Address: 00:0E:0C:67:C6:86 MTU: 1500
Media: Twisted Pair Link: yes
IP Address: 192.168.12.168 Mask: 255.255.255.0 Broadcast: 192.168.12.255

Interface Flags: UP BROADCAST RUNNING MULTICAST
Card Description: Intel Corporation 82546EB Gigabit Ethernet Controller (Copper) (rev 01)

Blink eth0 interface LED **OK**

Statistics

	Receive	Transmit
Packets	93924	93777
Bytes	18108151 (17.2MiB)	17817325 (16.9MiB)
Errors	0	0
Dropped	0	0
Overruns	0	0
Frame Errors	0	-
Carrier Loss	-	0
Collisions	-	0

BACK

Figure 10. Interface Details Page

The configuration includes the following information:

Table 8. Interface Configuration

Item	Description
Encapsulation	Type of network connection (such as Ethernet).
Hardware Address	MAC address of the IP Media Server host.

Table 8. Interface Configuration (Continued)

Item	Description
MTU	Maximum Transmission Unit, the largest physical packet size, measured in bytes, that a network can carry. Ethernet has a fixed MTU of 1500 bytes.
Media	Type of media: normally twisted pair.
Link	Whether the interface is linked.
IP Address	Current IP address of the IP Media Server host.
Mask	Network mask associated with this interface.
Broadcast	Default route.
Interface Flags	Linux flags showing the current status of the interface.
Card Description	Type of hardware card for the interface.

Below the configuration parameters is a button **Blink eth0 interface LED**. Clicking this button lights the system LED (front and back) on the IP Media Server, so that you can identify it in a rack of equipment.

The interface statistics include statistics for all packets received at or sent from the host through the selected interface, including the numbers of the following:

- ◆ Packets
- ◆ Bytes
- ◆ Errors
- ◆ Dropped packets
- ◆ Overruns
- ◆ Frame errors
- ◆ Carrier losses
- ◆ Collisions

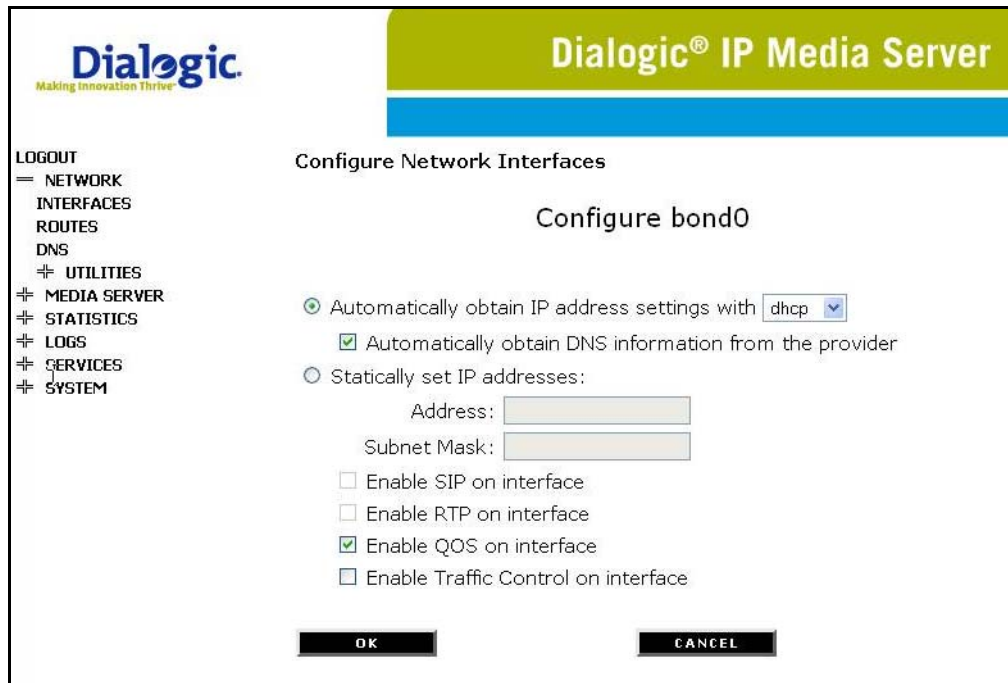
Interface Configuration

Note: Only Administrators can configure interfaces. All users can view the configuration.

To configure an interface:

Note: If you configure a bonded interface, such as bond1, to enable/disable STP and RTP on the interface, the settings apply only to the bonded interface. They do not change any existing settings on the physical interfaces that are combined in the bonded interface.

- 1 Click **CONFIGURE** for the interface you want to configure to display the Configure Network Interfaces page for that interface.



The screenshot shows the 'Configure Network Interfaces' page for interface 'bond0'. The page has a green header with the Dialogic logo and 'Dialogic® IP Media Server'. A left sidebar contains a navigation menu with items like LOGOUT, NETWORK, INTERFACES, ROUTES, DNS, UTILITIES, MEDIA SERVER, STATISTICS, LOGS, SERVICES, and SYSTEM. The main content area is titled 'Configure bond0' and contains the following configuration options:

- Automatically obtain IP address settings with
- Automatically obtain DNS information from the provider
- Statically set IP addresses:
 - Address:
 - Subnet Mask:
- Enable SIP on interface
- Enable RTP on interface
- Enable QOS on interface
- Enable Traffic Control on interface

At the bottom of the form are two buttons: **OK** and **CANCEL**.

Figure 11. Configure Network Interfaces Page

When the Configure Network Interfaces page appears, it shows the current information stored in the configuration file. For an active interface, this information can be different from the running configuration shown in the Interfaces display.

The IP Media Server can be configured to use a particular interface for RTP traffic and for the SIP contact address. Only interfaces configured with static IP addresses can be enabled for RTP and SIP. If DHCP is used to set the IP address for an interface, that interface cannot be enabled for RTP and SIP.

If no interface has been enabled for RTP and SIP, the system tries to use the interface associated with the local host name. If a host name has not been assigned, this attempt fails and the IP Media Server cannot accept calls.



Note: A typical configuration uses DHCP to set the address for eth0 to be used for the Web UI. The second Ethernet interface, eth1, should have a static IP address and be used for RTP and SIP traffic.

- 2 To store the changes made, click **OK**. To cancel the changes, click **CANCEL**.

Accepting the configuration change updates the configuration file, but does not change the running configuration of an active interface:

- When you go back and display the interfaces, the running configuration is shown.
- When you return to the **Configure** page, the stored configuration is shown.

3 To apply a configuration change to an interface, reboot the IP Media Server.

Setting an IP Address for an Interface

Note: Only Administrators can set the IP address of an interface.

By default, the system has DHCP configured on eth0 and eth1. This allows the IP Media Server to automatically receive an IP address from a DHCP server (or from bootp). If the system is automatically obtaining an IP address, it can also obtain other DNS information, such as the network mask and hostname.



Note: If DHCP (or bootp) is used to set the IP address for an interface, you cannot enable that interface for RTP and SIP.

You can also set IP addresses and subnet masks statically. To do this:

- 1 Select **Statically set IP addresses**.
- 2 Enter an IP address and subnet mask in the **Configure Network Interfaces** page.

The system checks to ensure that the addresses entered are valid. If an invalid address is entered (for example, 3 octets instead of four), the system flags the error and does not accept the changes. The error appears in red beside the text field that has the violation. For example, in the case of a wrong IP address, the invalid address error appears in red beside the IP textbox.

The screenshot shows the 'Configure Network Interfaces' page for 'eth0'. The 'Statically set IP addresses' option is selected. The IP address field contains '192.168.12.168.168' with a red 'invalid address' error message next to it. The Subnet Mask field contains '255.255.255.0'. There are checkboxes for 'Enable SIP on interface', 'Enable RTP on interface', 'Enable QOS on interface', and 'Enable Traffic Control on interface'. The 'OK' and 'CANCEL' buttons are at the bottom.

Figure 12. Setting IP Address: Error Page

Enabling SIP and RTP on an Interface

You can configure the IP Media Server to use a particular interface for RTP traffic and for the SIP contact address. Only interfaces configured with static IP addresses can be enabled for RTP and SIP. You must enable both SIP and RTP on the same interface. Typically, eth0 is configured with DHCP for the management address, and eth1 is configured with a static address and with SIP and RTP enabled.

Enabling QOS and Traffic Control on an Interface

The IP Media Server supports Differentiated Services (DiffServ) as follows:

If you select Enable QOS on interface, the IP Media Server prioritizes outgoing traffic by injecting a QOS stamp in each UDP and HTTP packet. This way, other network devices know how to prioritize the packet for delivery.

If you select Enable Traffic Control on interface, the IP Media Server filters incoming traffic. Incoming traffic that matches SIP, RTP, RTCP, and HTTP get priority over all other types of incoming traffic.

Note: Traffic Control is a system parameter and enabling/disabling it on an interface applies to all system interfaces.

Configuring Routes

Note: Only Administrators can add and delete routes. All users can display the routes.

The NETWORK→ROUTES menu displays the Routes page containing the routing table for eth0 and eth1.

Interface	Network Address	Subnet Mask	Gateway	
eth0	default		192.168.12.1	DELETE
eth0	192.168.12.0	255.255.255.0		

Figure 13. Routes Page

The routing table displays the following information for each route:

- ◆ Interface name

- ◆ Network address
- ◆ Subnet mask
- ◆ Gateway IP address

Routes that have been automatically added to the table are displayed, but they cannot be deleted. Only routes that have been added by users have a **DELETE** button and can be deleted. For example, in Figure 13, one route was added automatically by the system, and the other two routes were added by a user.

Note: Routes created by DHCP do not persist if the system is rebooted. To make a route persistent, when assigning a static IP address to the primary interface eth0, you must add it statically, even if it already appears in the list on the Routes page. This is especially important for default routes. If you are accessing the IP Media Server from a different subnet, you must statically create a default route in order to be able to manage the system following a reboot.

Adding Routes

Note: Only Administrators can add routes.

To add a route to the system:

- 1 Click **ADD ROUTE** to display the Add Route page.

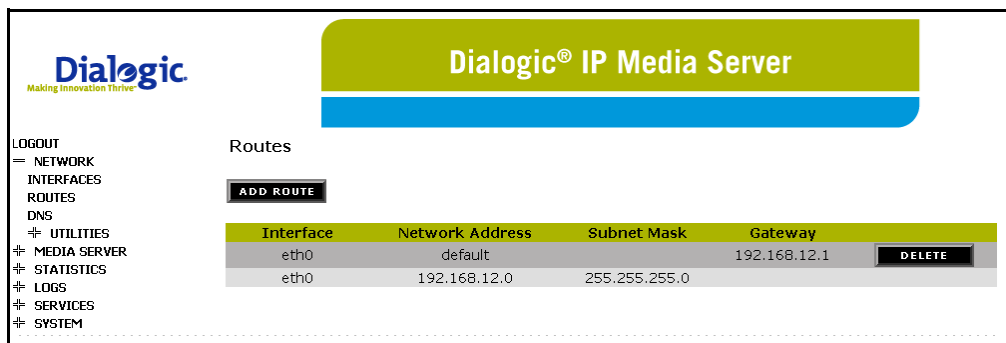


Figure 14. Add Route Page

- 2 Select the interface from the drop-down menu.
- 3 Enter the IP address and subnet mask; leave the Gateway field empty.

If this is a default route:

- a. Type “default” in the IP address field.
- b. Leave the Subnet Mask field empty.
- c. Enter a gateway.

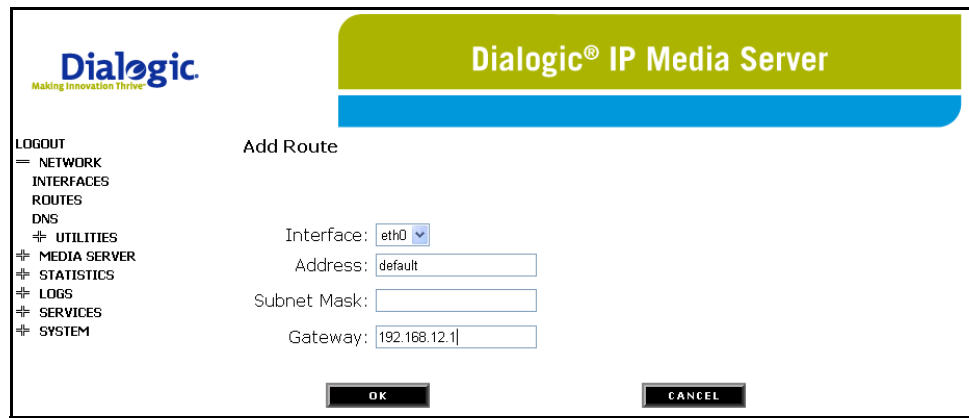


Figure 15. Add Default Route Page

- 4 If you do not want to add the route, click **CANCEL**. When you are satisfied that your entries are correct, click **OK**.

When the **OK** button is selected, the route entry is checked and added to the current routing table and to the configuration file. If the route entry has an error in it, an error message appears in red next to the text field where the error occurred (for example, Figure 16).

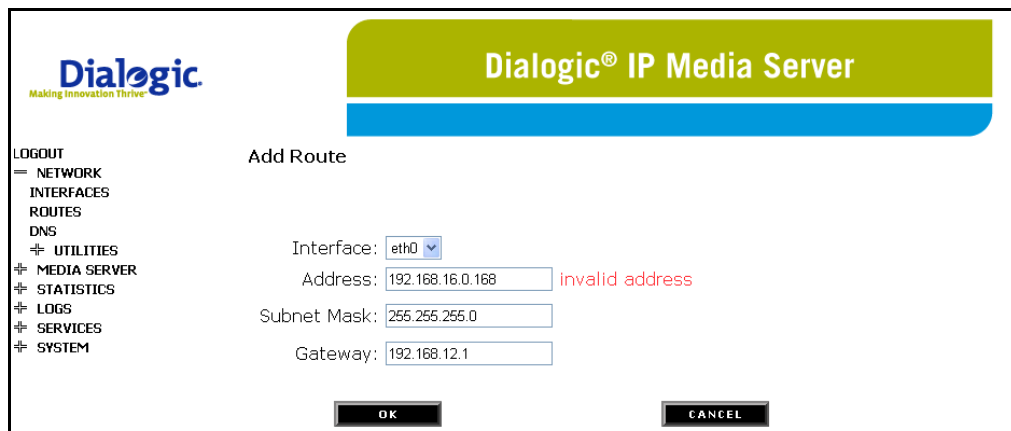


Figure 16. Add Route Error Page

A confirmation page is displayed.

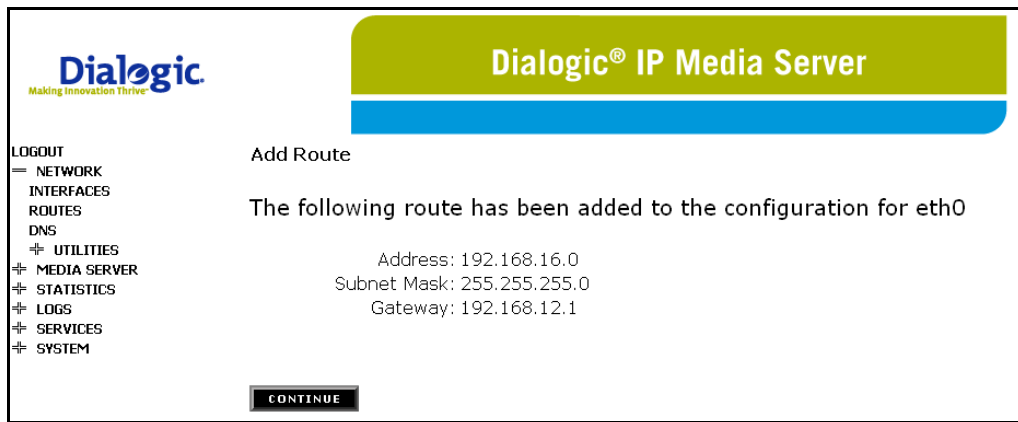


Figure 17. Add Route Confirmation Page

Note: The example in Figure 17 indicates that the gateway specified is not reachable, although the IP address is valid.

- 5 Click **CONTINUE** to return to the routing table display.

Note: The system displays results of the route table update immediately after **OK** is selected.

Deleting Routes

Note: Only Administrators can delete routes. Also, only routes that have been manually added can be deleted.

To delete a route from the system:

- 1 Click **DELETE** next to the route that is to be deleted.
- 2 A confirmation page is displayed:
- 3 Click **OK** to delete the route.
- 4 Click **CONTINUE** to return to the Routes page.

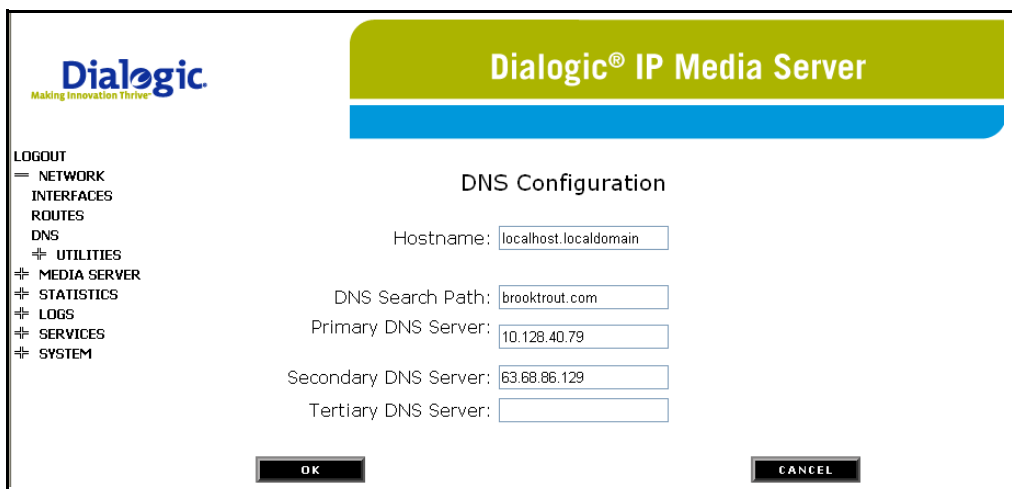
Configuring DNS

Note: Only Administrators can configure DNS. Both Administrators and Operators can display the DNS configuration.

You can configure up to three DNS servers by selecting NETWORK→DNS. The existing configuration appears and can be changed.

To configure DNS:

- 1 Select Network→DNS→DNS Configuration to display the DNS Configuration page.



The screenshot shows the 'Dialogic® IP Media Server' interface. On the left is a navigation menu with options: LOGOUT, NETWORK, INTERFACES, ROUTES, DNS, UTILITIES, MEDIA SERVER, STATISTICS, LOGS, SERVICES, and SYSTEM. The 'DNS' option is selected. The main area is titled 'DNS Configuration' and contains the following fields: Hostname (localhost.localdomain), DNS Search Path (brooktrout.com), Primary DNS Server (10.128.40.79), Secondary DNS Server (63.68.86.129), and Tertiary DNS Server (empty). At the bottom are 'OK' and 'CANCEL' buttons.

Figure 18. DNS Configuration Page

- 2 Make changes to the host name, DNS Search Path, and Primary DNS Server, Secondary DNS Server, and Tertiary DNS Server.
- 3 Click OK to save the changes. To cancel the changes without writing them to the configuration file, click CANCEL.

Note: The IP Media Server must be reset for these changes to take place.

Network Utilities

Use the Network Utilities to determine if access to the network exists.

Ping Utility

The Ping utility is a standard ICMP ping request. It sends out twelve 64-byte packets to the specified IP address.

To use the Ping Utility:

- 1 Select Network→Utilities→Ping to display the Network Ping page.

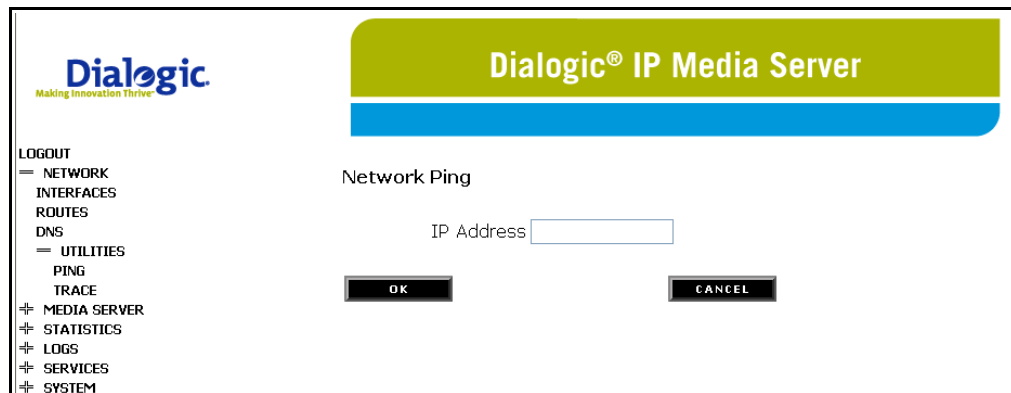


Figure 19. Network Ping Utility Page

- 2 Enter the IP address you want to test.
- 3 Click OK.

The Display Network Ping page appears with the results of the ping command.

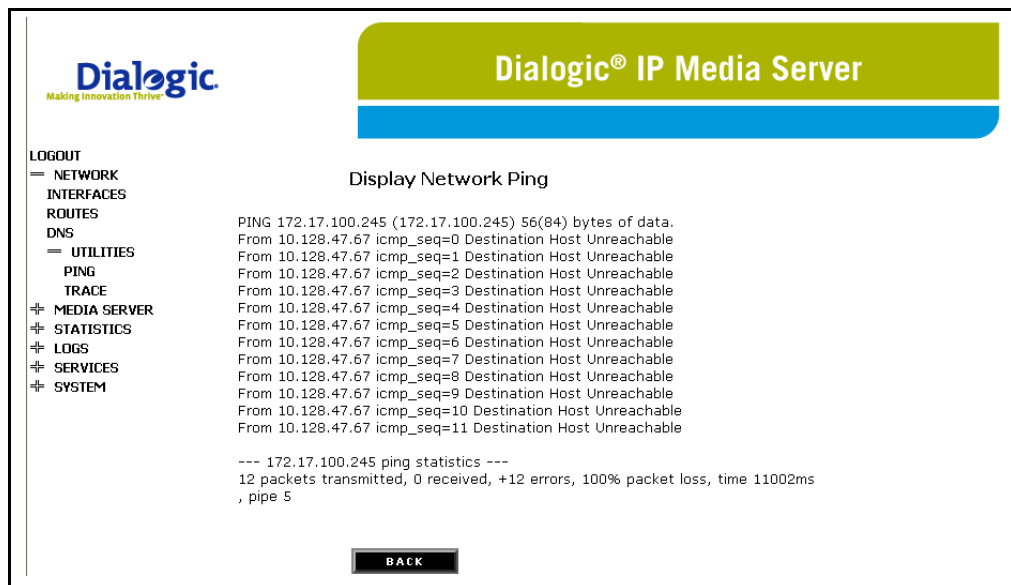


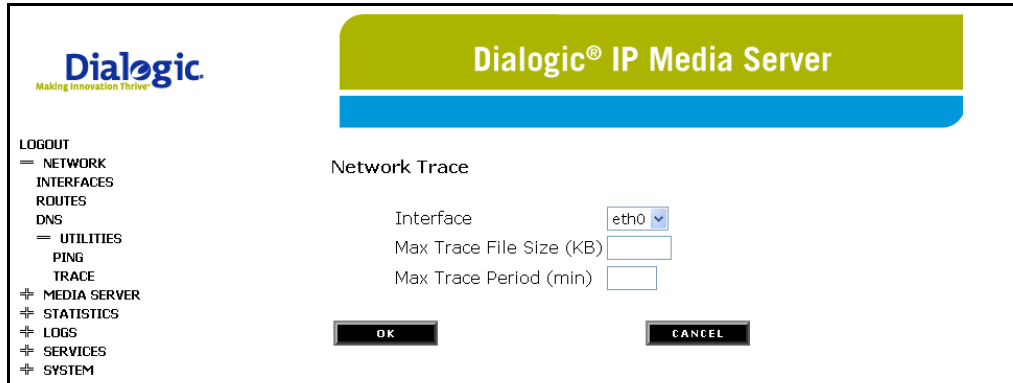
Figure 20. Display Network Ping Page

- 4 Click BACK to return to the Network Ping page.

Trace Utility

The Trace Utility enables you to capture a network trace of all incoming and outgoing IP traffic. you can access the output from this trace from the LOGS→TRACE page. All of the traces are named by a date/timestamp.

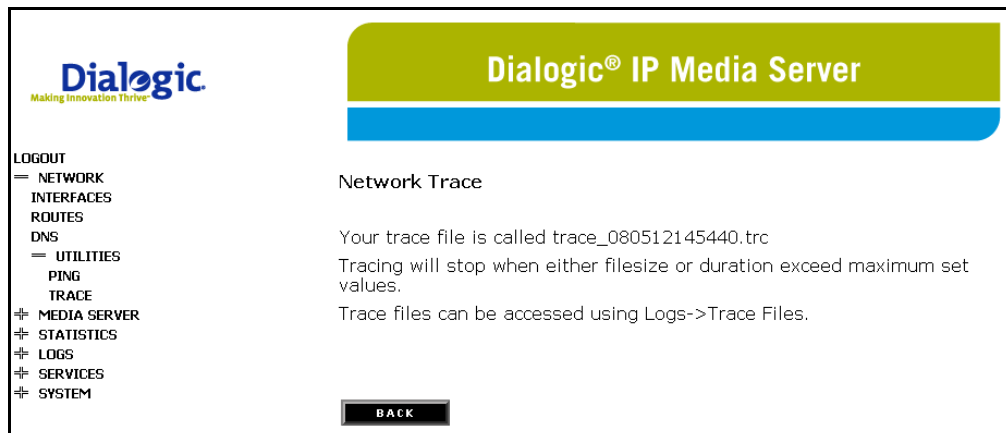
- 1 Select NETWORK→UTILITIES→TRACE to display the Network Trace page:



The screenshot shows the Dialogic IP Media Server web interface. On the left is a navigation menu with options: LOGOUT, NETWORK, INTERFACES, ROUTES, DNS, UTILITIES, PING, TRACE, MEDIA SERVER, STATISTICS, LOGS, SERVICES, and SYSTEM. The main content area is titled "Network Trace" and contains the following fields: "Interface" (a dropdown menu showing "eth0"), "Max Trace File Size (KB)" (an empty text input), and "Max Trace Period (min)" (an empty text input). At the bottom of the form are two buttons: "OK" and "CANCEL".

Figure 21. Network Trace Page

- 2 Enter the Ethernet interface you want to monitor.
- 3 Enter the maximum trace file size in kilobytes.
- 4 Enter the maximum trace time period in minutes.
- 5 Click OK to start the trace. The following page appears, providing status information about the trace:



The screenshot shows the Dialogic IP Media Server web interface displaying the status of the network trace. The navigation menu is the same as in Figure 21. The main content area is titled "Network Trace" and contains the following text: "Your trace file is called trace_080512145440.trc", "Tracing will stop when either filesize or duration exceed maximum set values.", and "Trace files can be accessed using Logs->Trace Files." At the bottom of the page is a "BACK" button.

Figure 22. Network Trace - Status Page

- 6 Click BACK to return to the Network Trace page.
- 7 To view a trace file, select the Logs→Trace Files menu to display the Trace Files page:

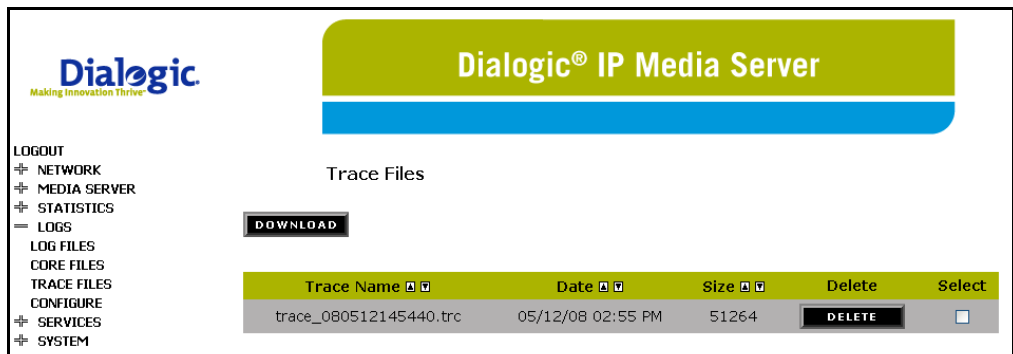


Figure 23. Trace Files Page

- 8 To view the trace file, click **DOWNLOAD**. The trace file is a text file you can view with any network analyzer software.

Configuring SIP and SDP

This section describes the IP Media Server parameters associated with signaling and media services. All user access levels can display the configuration, but only Administrators can change the configuration.



The commands in this configuration section manipulate the configuration file. To apply a new configuration, reboot the IP Media Server.

- 1 Select the MEDIA SERVER→SIP menu to display the Configure SIP page (Figure 24). This page enables you to configure the SIP and SDP parameters described below.

Dialogic
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Dialogic® IP Media Server

LOGOUT
 NETWORK
 MEDIA SERVER
 FAX
 SIP
 VOICEXML
 QUERY ACTIVE CALLS
 HALT ACTIVE CALLS
 SHUTDOWN CALLS
 STATISTICS
 LOGS
 SERVICES
 SYSTEM

Configure SIP

SIP Daemon Status: Running - Accepting new calls

Announcement Parameters :

Base Url: file:///opt/snowshore/prompts/

Max Duration (sec): 1000

Conference Parameters :

Dtmf Clamping: No

Tone Clamping: No

Video Parameters :

Video H263 I Frame Bit: Inverted RFC2190 stream

Video Fast Update Request: No Fast Update

SIP Parameters :

Default Application: Dialog

Session Timer (sec): 120

Listen Port: 5060

Provisional Resp (except Early Annc): None

SDP Parameters :

Prefer Offer Codec: No

Require Offer Codec: No

Offer Codec: Ulaw

Offer Ptime: 20

Offer 2833: No

2833 Payload: 101

Offer Direction: sendreceive

Show Port Count: Yes

Default Ulaw Ptime: 20

Default Alaw Ptime: 20

Default G726 Ptime: 20

Default G729 Ptime: 20

Default AMR Ptime: 20

Default AMR Alignment: Bandwidth-Efficient Mode (bit)

Offer AMR Payload: 96

Offer AMR Octet Align: Bandwidth-Efficient Mode (bit)

Offer AMR Mode: AMR 12.2

Offer Video Codec: None

Offer Video Payload: 97

OK CANCEL

Figure 24. Configure SIP Page

Table 9. Configure SIP Parameters

Parameter	Values	Description
SIP Daemon Status	<ul style="list-style-type: none"> SIPD is running; accepting calls. SIPD is running, but not accepting calls. SIPD is not running. 	Current status of the SIP Daemon (SIPD).

Table 9. Configure SIP Parameters (Continued)

Parameter	Values	Description
Announcement Parameters		
Base URL	<string>	<p>String that is prepended to non-rooted audio URLs. If an INVITE arrives with just a file name, the file name is assumed to be in the location specified in the base URL. For example, if the base URL is:</p> <pre>file:///net/IP_of_nfs_server/path_of_file_storage/</pre> <p>an invite such as:</p> <pre>INVITE sip:annc@172.17.100.157 ;play=circuit_busy.ulaw</pre> <p>rewrites the URL by prepending the Base URL as:</p> <pre>file:///net/IP_of_nfs_server/path_of_file_storage/circuit_busy.ulaw</pre>
Max Duration	<ul style="list-style-type: none"> • 0 • 1-10000 (Default: 0)	<p>System-wide default announcement duration in seconds to be used if no per-call duration parameter is specified in the SIP URI.</p> <p>This parameter is used for both early and normal media announcements. Once the limit is reached, the IP Media Server terminates the call.</p> <p>A setting of 0 indicates no announcement duration limit.</p>

Table 9. Configure SIP Parameters (Continued)

Parameter	Values	Description
Conference Parameters		
DTMF Clamping	<ul style="list-style-type: none"> ◆ Yes ◆ No (Default: No)	Simple conferences do not support DTMF clamping. Enhanced conferences use this parameter as the default when each leg is created in a conference. It can be changed later with an INFO with a new value.
Tone Clamping	<ul style="list-style-type: none"> ◆ Yes ◆ No (Default: No)	Simple conferences do not support tone clamping. Enhanced conferences use this parameter as the default when each leg is created in a conference. It can be changed later with an INFO with a new value.
Video Parameters		
Video H263 I Frame Bit	<ul style="list-style-type: none"> ◆ Inverted RFC2190 Stream ◆ RFC2190 Stream ◆ Inverted H263 Location ◆ H263 Location 	Sets the I-frame bit.
Video Fast Update Request	<ul style="list-style-type: none"> ◆ No Fast Updates ◆ Media XML Updates 	Sets the fast-update request field.
SIP Parameters		
Default Application	<ul style="list-style-type: none"> ◆ Announcement) ◆ Conference ◆ Dialog ◆ IVR (Default: Dialog)	Application (SIP service) used if the INVITE message does not specify an application.

Table 9. Configure SIP Parameters (Continued)

Parameter	Values	Description
Session Timer	integer: <ul style="list-style-type: none"> • 0 • 10 - 6000 (Default: 120)	<p>SIP Session Timer interval in seconds. A setting of 0 turns session timers off.</p> <p>The IP Media Server issues a session timer refresh every $t/2$ seconds, where t is the value set by this command. Setting this timer to a small value can significantly increase the volume of SIP message traffic over the network and can negatively impact overall service delivery and performance.</p>
Listen Port	integer: 1025 - 65535 (Default: 5060)	UDP port used for SIP.
Provisional Response	<ul style="list-style-type: none"> • None • Send 180 (ringing) • Send 183 (progress). 	<p>This parameter only applies to dialog, conference, and announce services. The provisional responses sent for these services never contain SDP information.</p> <p>Early announce always sends 183 Session Progress. The 183 sent for early announce is not affected by this value and always contains SDP information.</p> <p>This feature is normally used when interacting with other protocols that require resource reservation (e.g., PacketCable, NCS) when establishing a session.</p>
SDP Parameters		
Prefer Offer Codec	<ul style="list-style-type: none"> • Yes • No (Default: No)	If Yes, the Offer Codec is used as the highest preference codec in the offer. If the Offer codec is not present, another codec can be used.

Table 9. Configure SIP Parameters (Continued)

Parameter	Values	Description
Require Offer Codec	<ul style="list-style-type: none"> ♦ Yes ♦ No (Default: No)	The policy for the SDP offer. <ul style="list-style-type: none"> ♦ If Yes, the offer SDP must match the parameters Offer Codec, Offer 2833, 2833 Payload, and Offer Direction. If the offer does not match, the call is rejected. ♦ If No, the standard offer/answer rules are used, taking into account the setting of the Prefer Offer Codec parameter.
Offer Codec	<ul style="list-style-type: none"> ♦ Ulaw ♦ Alaw ♦ G726 ♦ G729 ♦ AMR (Default: Ulaw)	Codec offered by the IP Media Server in the SDP m= audio line. This setting applies when the inbound initial INVITE does not contain an SDP body, forcing the IP Media Server response to make the initial SDP offer.
Offer Ptime	<ul style="list-style-type: none"> ♦ 10 ♦ 20 ♦ 30 (Default: 20)	Length of time in milliseconds represented by the media in a packet offered by the IP Media Server in the SDP attribute (a=). This setting applies when the inbound initial INVITE does not contain an SDP body, forcing the IP Media Server response to make the initial SDP offer.
Offer 2833	<ul style="list-style-type: none"> ♦ Yes ♦ No (Default: Yes)	Whether 2833 is offered.
2833 Payload	integer: 96–127 (Default: 101)	Dynamic payload type to be used when 2833 is offered.
Offer Direction	<ul style="list-style-type: none"> ♦ sendonly ♦ recvonly ♦ sendrecv (Default: sendrecv)	Direction of the media stream offered by the IP Media Server in the SDP attribute (a=). This setting applies when the inbound initial INVITE does not contain an SDP body, forcing the IP Media Server response to make the initial SDP offer.

Table 9. Configure SIP Parameters (Continued)

Parameter	Values	Description
Show Port Count	<ul style="list-style-type: none"> ♦ Yes ♦ No (Default: Yes)	Whether "/1" is appended to the port number in the SDP attribute (m=).
Default Ulaw Ptime	<ul style="list-style-type: none"> ♦ 10 ♦ 20 ♦ 30 (Default: 20)	Value to use when the SDP offer is received, but the PTIME attribute is not specified. This value appears in the SDP answer sent by the IP Media Server.
Default Alaw Ptime	<ul style="list-style-type: none"> ♦ 10 ♦ 20 ♦ 30 (Default: 20)	Value to use when the SDP offer is received, but the PTIME attribute is not specified. This value appears in the SDP answer sent by the IP Media Server.
Default G726 Ptime	<ul style="list-style-type: none"> ♦ 10 ♦ 20 ♦ 30 (Default: 20)	Value to use when the SDP offer is received, but the PTIME attribute is not specified. This value appears in the SDP answer sent by the IP Media Server.
Default G729 Ptime	<ul style="list-style-type: none"> ♦ 10 ♦ 20 ♦ 40 (Default: 20)	Value to use when the SDP offer is received, but the PTIME attribute is not specified. This value appears in the SDP answer sent by the IP Media Server.
Default AMR Ptime	<ul style="list-style-type: none"> ♦ 20 ♦ 40 (Default: 20)	Value to use when the SDP offer is received, but the PTIME attribute is not specified. This value appears in the SDP answer sent by the IP Media Server.
Default AMR Alignment	<ul style="list-style-type: none"> ♦ Bandwidth-Efficient Mode (bit) ♦ Octet-Aligned Mode (byte) 	Default alignment mode to be used when INVITE SDP specifies AMR encoding, but does not specify the alignment mode.
Offer AMR Payload	integer: 96–127 (Default: 96)	Dynamic payload type to be used when AMR is offered.
Offer AMR Octet Align	<ul style="list-style-type: none"> ♦ Bandwidth-Efficient Mode (bit) ♦ Octet-Aligned Mode (byte) 	Alignment mode to be used when AMR is offered.

Table 9. Configure SIP Parameters (Continued)

Parameter	Values	Description
Offer AMR Mode	<ul style="list-style-type: none"> ♦ AMR 4.75 ♦ AMR 5.15 ♦ AMR 5.9 ♦ AMR 6.7 ♦ AMR 7.4 ♦ AMR 7.95 ♦ AMR 10.2 ♦ AMR 12.2 	<p>Default AMR-NB encoding mode (bit rate).</p> <p>Using the AMR-NB resource in connection with a Dialogic® product does not grant the right to practice the AMR-NB standard. To seek a patent license agreement to practice the standard, contact the VoiceAge Corporation at http://www.voiceage.com/licensing.php.</p> <p>For a listing of the AMR codec "essential patents," visit: http://www.voiceage.com/ess_patent.php</p>
Offer Video Codec	<ul style="list-style-type: none"> ♦ None ♦ H263 ♦ H263-1998 ♦ H263-2000 ♦ H264 	Default video codec for the IP Media Server.
Offer Video Payload	integer: 96–127 (Default: 97)	Dynamic payload type to be used when video is offered.

When you have made your changes, click OK to confirm them. A confirmation page is displayed (Figure 25). Click BACK to return to the IP Media Server home page.

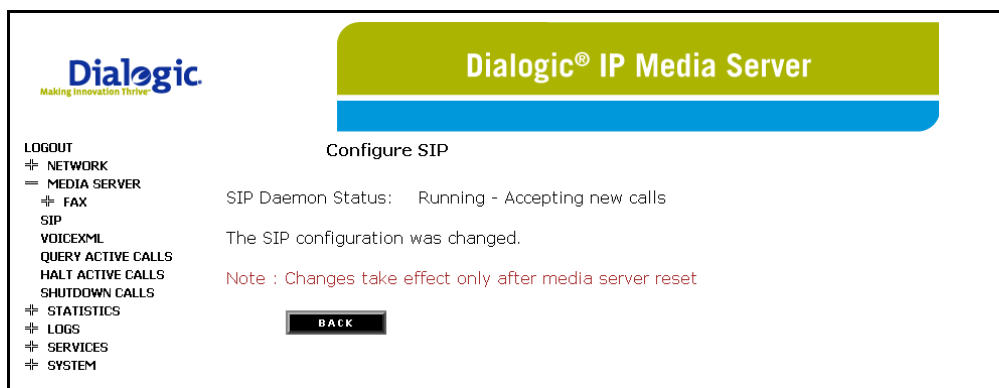


Figure 25. Configure SIP Change Confirmation Page

-
- 2 Click **CANCEL** to return all values to their previous settings and return to the IP Media Server home page.



Note: Your changes to these parameters take effect only after the IP Media Server is rebooted.

Configuring VoiceXML

Use the Media Server→VoiceXML menu to configure VoiceXML support on the IP Media Server. The Configure VoiceXML page (see Figures 26 and 27) appears when you select Media Server→VoiceXML.

VoiceXML Version

The IP Media Server supports VoiceXML 1.0 and VoiceXML 2.0. Use the drop-down list to select the version of VoiceXML that you want to enable on the IP Media Server. The default is VoiceXML version 2.0. The parameters that appear on page depend on which version of VoiceXML you enable.

Each version has its own configuration parameters. The parameters associated with VoiceXML 1.0 and 2.0 configurations are described below.

VoiceXML 1.0 Configuration Parameters

If you select VXML Version 1.0, the Configure VoiceXML page appears as follows:

The screenshot shows the 'Configure VoiceXML' page for version 1.0. The interface includes a navigation sidebar on the left with a tree view containing: LOGOUT, NETWORK, MEDIA SERVER (expanded), FAX, SIP, VOICEXML, QUERY ACTIVE CALLS, HALT ACTIVE CALLS, SHUTDOWN CALLS, STATISTICS, LOGS, SERVICES, and SYSTEM. The main configuration area is titled 'Configure VoiceXML' and contains the following fields:

- Vxml Version: 1.0 (dropdown menu)
- Fetch Timeout (sec): 10 (text input), Infinite
- Default Launch Script: http://localhost/snowshore/nullApp.vxml (text input)
- Last Resort Script: http://localhost/snowshore/mylastresorts (text input)
- Recovery Timeout (sec): 20 (text input)
- Recovery Max Retries: 3 (text input)

Buttons for 'OK' and 'CANCEL' are located at the bottom of the configuration area.

Figure 26. Configure VoiceXML 1.0 Page

Table 10 describes the parameters you can set for VoiceXML Version 1.0.

Table 10. VoiceXML 1.0 Parameters

Parameter	Values	Description
Fetch Timeout	integer: 1–65, infinite (Default: 10)	Time (in seconds) the IP Media Server waits when trying to fetch a VoiceXML script from the network. A value of infinite means that a fetch timeout is not applied.
Default Launch Script	<string>	VXML script that is fetched if a dialog request is received and it does not contain a voicexml= parameter. This parameter allows a call to be accepted and for a VoiceXML script to be launched as a result of the initial SIP invite. A Launch Script is required for both VXML 1.0 and 2.0.
Last Resort Script	<string>	VXML script that is fetched and executed if the VoiceXML browser cannot retrieve the initial VoiceXML script due to a network, server, or other system issue.
Recovery Timeout	integer (Default: 20)	Time (in seconds) after which an attempt to recover media content files will fail. This setting and the Recovery Max Retries setting apply to VXML applications that use the Media Content Recovery extensions in VXML 1.0.

Table 10. VoiceXML 1.0 Parameters

Parameter	Values	Description
Recovery Max Retries	integer (Default: 3)	Number of times to retry the recovery of media content files. If a particular file cannot be delivered within the configured number of retry attempts, a "final failure" state is reached. If this occurs, the recovery daemon writes an error-level log message specifying the file name and associated recovery information. The recovery daemon generates an SNMP trap to inform the operator of this condition.

VoiceXML 2.0 Configuration Parameters

If you select VXML Version 2.0, the Configure VoiceXML page appears:

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LOGOUT
+ NETWORK
= MEDIA SERVER
+ FAX
SIP
VOICEXML
QUERY ACTIVE CALLS
HALT ACTIVE CALLS
SHUTDOWN CALLS
+ STATISTICS
+ LOGS
+ SERVICES
+ SYSTEM

Configure VoiceXML

Vxml Version: 2.0

Default Launch Script:

Vxml Strict Conformance: No

Vxml Input Mode: DTMF / VOICE

Vxml ASR Engine: DEFAULT

Vxml TTS Engine: DEFAULT

Vxml Provisioning

```
<entry id="1" type="1" name="DNIS - URL Mapping" >
<key name="DNIS" value="XXXX"/>
<application module="VXML">
<param name="url"
value="file:///usr/local/phoneweb/samples/helloaudio.vxml"/
>
<param name="default" value="defaults.vxml"/>
<param name="comment" value=""/>
</application>
</entry>

<entry id="103" type="6" name="Speech Resources" >
<param name="vrm.client.resource.name" value="REALSPEAK"/>
<param name="vrm.client.resource.address"
value="192.168.16.32"/>
<param name="vrm.client.resource.port" value="4900"/>
<param name="vrm.client.resource.uri"
value="rtsp://192.168.16.32:4900/media/speechsynthesizer"/>
<param name="vrm.client.resource.type" value="TTS"/>
</entry>
```

OK CANCEL

Figure 27. Configure VoiceXML 2.0 Page

Table 11 describes the parameters you can set for VoiceXML Version 2.0.

Table 11. VoiceXML 2.0 Parameters

Parameter	Values	Description
Default Launch Script	<string>	VXML script that is fetched if a dialog request is received and it does not contain a voicexml= parameter. This parameter allows a call to be accepted and for a VoiceXML script to be launched as a result of the initial SIP invite. A Launch Script is required for both VXML 1.0 and 2.0.
VoiceXML Strict Conformance	<ul style="list-style-type: none"> • Yes • No 	<ul style="list-style-type: none"> • True specifies that the interpreter should conform strictly to the VoiceXML 2.0 specification in certain scenarios, requiring a set of behavior changes from previous versions. • False does not make those changes.
VoiceXML Input Mode	DTMF, VOICE, DTMF VOICE	<p>Which sources of input a VoiceXML script accepts. Its value is a space-separated list of allowed input modes.</p> <p>This setting causes the following behavior:</p> <ul style="list-style-type: none"> • DTMF - the VoiceXML script simply ignores any voice input, regardless of what grammars for handling voice input are active. • VOICE - the script does not ignore DTMF input. Rather, DTMF input generates nomatch events, regardless of what DTMF grammars are active. • DTMF VOICE - DTMF and voice input are both accepted.

Table 11. VoiceXML 2.0 Parameters (Continued)

Parameter	Values	Description
VoiceXML ASR Engine	<User defined>	Default fall-back in the event an ASR engine configured through the VXML Provisioning text box, described below, can not be found or loaded.
VoiceXML TTS Engine	<User defined>	Default fall-back in the event a TTS engine configured through the VXML Provisioning text box, described below, can not be found or loaded.
VoiceXML Provisioning	<User defined>	Configures ASR and TTS engines for use with VXML 2.0 applications. For detailed information, see “VoiceXML Provisioning” (page 82).

VoiceXML Provisioning

The VoiceXML Provisioning text box enables you to configure the ASR and TTS engines for use with VXML 2.0 applications.



Note: Each ASR and TTS engine must be installed on a dedicated server, not on the IP Media Server. Refer to the documentation provided with the ASR and TTS engines you plan to use for complete information about their installation and configuration.



Note: Use extreme care in editing the VoiceXML Provisioning window. Errors can cause IP Media Server failure. Before editing the VoiceXML Provisioning window, save the existing text.

The header section must be included as it is by default and indicates the location of a default provisioning script.

Configuring ASR and TTS Engines

Each ASR/TTS engine is defined in the VoiceXML 2.0 Provisioning window, as shown in Example 1. Each ASR/TTS engine requires its own entry in the provisioning file. The provisioning information for each ASR/TTS resource includes a unique ID, a type, a name, and information that defines its location (by IP address), access port, and capabilities.

Each entry is surrounded by XML <entry> tags, for example:

```

<entry id="1" type="6" name="Speech Resources" >
.
.
.
</entry>

```

In the above entry there are three attributes: id, type, and name.

- ◆ The id attribute should be unique for all entries and determines precedence.
- ◆ The type attribute can be either 6 or 7:
 - ◆ 6 defines the speech resource as a primary resource.
 - ◆ 7 defines the speech resource as a backup resource.
- ◆ The name attribute identifies the specific configured speech resource.

The remaining contents of the entry vary depending on the resource being used (e.g., IBM, Scansoft, Speechworks). Refer to the documentation provided with the ASR and TTS engines you plan to use for complete information about their installation and configuration.

You must specify the following attributes for each ASR/TTS entry:

- ◆ id
- ◆ type
- ◆ name
- ◆ vrm.client.resource.address
- ◆ vrm.client.resource.uri

Two key parameters are vrm.client.resource.address and vrm.client.resource.uri. They must be changed to specify the location of the speech resource.

Example 1 contains example speech resource entries for some common ASR and TTS servers. To create or define a new one, you can edit the existing entries or cut and paste an entry and then edit it.

Example 1. VoiceXML Provisioning Examples

```

<entry id="1" type="1" name="DNIS - URL Mapping" >
<key name="DNIS" value="XXXX"/>
<application module="VXML">
<param name="url"
value="file:///usr/local/phoneweb/samples/helloaudi
o.vxml"/>
<param name="default" value="defaults.vxml"/>
<param name="comment" value=""/>
</application>
</entry>

<entry id="102" type="6" name="Speech Resources" >
<param name="vrm.client.resource.name"
value="VOCALIZER"/>
<param name="vrm.client.resource.address"
value="IP_ADDRESS"/>

```

```

<param name="vrm.client.resource.port" value="554"/>
<param name="vrm.client.resource.uri"
  value="rtsp://IP_ADDRESS/synthesizer"/>
<param name="vrm.client.resource.type" value="TTS"/>
<param name="vrm.client.SendVGParams" value="false"/>
</entry>

<entry id="103" type="6" name="Speech Resources" >
<param name="vrm.client.resource.name"
  value="REALSPEAK"/>
<param name="vrm.client.resource.address"
  value="IP_ADDRESS"/>
<param name="vrm.client.resource.port" value="4900"/>
<param name="vrm.client.resource.uri"
  value="rtsp://IP_ADDRESS:PORT/media/speechsynthesiz
er"/>
<param name="vrm.client.resource.type" value="TTS"/>
<param name="vrm.client.SendVGParams" value="false"/>
<param name="vrm.client.PassThruTTSPort" value="true"/>
</entry>

<entry id="104" type="6" name="Speech Resources" >
<param name="vrm.client.resource.name"
  value="SPEECHWORKS"/>
<param name="vrm.client.resource.address"
  value="IP_ADDRESS"/>
<param name="vrm.client.resource.port" value="4900"/>
<param name="vrm.client.resource.uri"
  value="rtsp://IP_ADDRESS:PORT/media/speechrecognizer
"/>
<param name="vrm.client.resource.type" value="ASR"/>
<param name="vrm.client.SendVGParams" value="false"/>
<param name="vrm.client.SendSWMSParams" value="true"/>
<param name="vrm.client.HotKeyBasePath"
  value="/vggrammarbase/speechworks/hotkey"/>
<param name="vrm.client.HotKeyLocalPath"
  value="/usr/local/phoneweb/grammar/speechworks/hotk
ey"/>
<param name="vrm.client.NoDuplicatedGramURI"
  value="true"/>
<param name="vrm.client.DisableHotWord" value="true"/>
</entry>

<entry id="105" type="6" name="Speech Resources" >
<param name="vrm.client.resource.name" value="IBM"/>
<param name="vrm.client.resource.address"
  value="IP_ADDRESS"/>
<param name="vrm.client.resource.port" value="554"/>
<param name="vrm.client.resource.uri"
  value="rtsp://IP_ADDRESS/media/recognizer"/>
<param name="vrm.client.resource.type" value="ASR"/>

```

```

<param name="vrm.client.HotKeyBasePath"
  value= "/vggrammarbase/ibm/hotkey" />
<param name="vrm.client.HotKeyLocalPath"
  value= "/usr/local/phoneweb/grammar/ibm/hotkey" />
<param name="vrm.client.ConnectPerSetup" value="true" />
<param name="vrm.client.InsertXmlNs"
  value= "http://www.w3.org/2001/06/grammar" />
<param name="vrm.client.SendLoggingTag" value="true" />
</entry>

<entry id="106" type="6" name="Speech Resources" >
<param name="vrm.client.resource.name" value="IBMTTS" />
<param name="vrm.client.resource.address"
  value= "IP_ADDRESS" />
<param name="vrm.client.resource.port" value="554" />
<param name="vrm.client.resource.uri"
  value= "rtsp://IP_ADDRESS/media/synthesizer" />
<param name="vrm.client.resource.type" value="TTS" />
<param name="vrm.client.ConnectPerSetup" value="true" />
<param name="vrm.client.SendLoggingTag" value="true" />
</entry>

```

Reboot after Changing Parameters

You must reboot the IP Media Server for changes to any of the VoiceXML parameters or settings require to take effect.

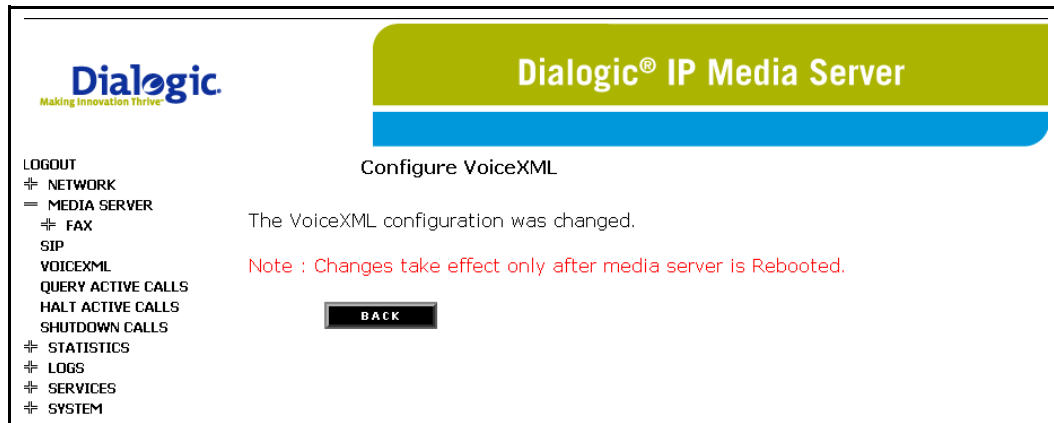


Figure 28. Configure VoiceXML Confirmation Page

Configuring Fax

The fax software in the IP Media Server comes preconfigured. If you want to change any of the default values of the attributes, follow the procedures below to update the following configuration files:

- ◆ btcall
- ◆ Call Control

btcall

Follow the procedure below to edit, add, and/or delete attributes for the btcall configuration file.

Editing btcall Attributes

Follow the steps below to edit BTCALL attributes.

- 1 Select FAX → BTCALL and click the btcall edit config tab. The following screen appears.

Attribute	Value
bt_cparm	BT_CPARM.CFG
call_control	/usr/sys/brooktrout/boston/config/samples.cfg/ipms_callctrl.cfg
ced_timeout	4000
country_code	0010
ecm_enable	1
eff_pt_caps	0
error_mult	40
error_thresh	3
error_enable	1
font_file	../bfv.api/fonts/ibmpcps.fz8 0
font_file	../bfv.api/fonts/ibmpcps.fz8 255
id_string	
line_compression	5
max_width	0
max_pagelist	30
restrict_res	1
subpwdsep	0
v_timeout	60
width_res_behavior	1

OK CANCEL

Figure 29. Edit btcall Configuration

- 2 Complete the screen as indicated in Table 12 below. Click OK when complete.

Table 12. btcall attributes

Attribute	Values	Description
bt_cparm	String Default: BT_CPARM.CFG	Specifies the path and name of the country telephony parameter file to use.
call_control	<User defined>	Specifies the name of the call control configuration file to use.
ced_timeout	Country dependent: 4000 (40 sec) in USA	Specifies the length of time, in 10 ms units, to wait for a fax answer tone (CED tone) from a remote fax machine. This parameter can only be set if the host country permits changing the wait_for_ced_high and wait_for_ced_low
country_code	<Hexadecimal> Default: 0010 (USA)	Specifies the international country code with modifiers. Initial digits (up to 3) identify the host country; the last digit supplies a modifier for properties such as the phone system attached to the board. The ccode.h header file contains the available country codes.
ecm_enable	0 - Turns off ECM 1 - Turns on ECM (256-byte frames) (default) 2 - Turns on ECM (64-byte frames)	Turns ECM (error correction mode) on or off. If disabled, MMR fax compression on the line is unavailable. The normal ECM frame size is 256 bytes. You can enable a frame size of 64 bytes, but the channel uses that frame size on transmit only. On receive, it always uses the frame size the transmitter selects.

Attribute	Values	Description
eff_pt_caps	<p>Values are formed by logically ORing together the base values:</p> <p>0 - Enhanced fax format reception disabled.</p> <p>1 - JPEG.</p> <p>2 - Full color mode (JPEG).</p> <p>4 - Reserved for Huffman tables, do not use.</p> <p>8 - 12 bits/pel, otherwise 8 bits/pel (JPEG).</p> <p>10 - No subsampling (JPEG).</p> <p>20 - Custom illuminant (JPEG).</p> <p>40 - Custom Gamut (JPEG).</p> <p>100 - JBIG.</p> <p>200 - L0 Mode (JBIG).</p>	<p>Specifies the enhanced fax format page types that the channel is permitted to receive.</p> <p>If EFF page reception is enabled, then ECM is automatically enabled for receive faxes regardless of the setting of ecm_enable.</p>
error_mult	<p><Decimal></p> <p>Default: 40 (for 5% error rate)</p>	<p>Specifies an error multiplication value used to determine if the error percentage on a received page is too high. The number of errors per page is multiplied by this number and the product is divided by 2. If this result exceeds the number of lines on the page, the error percentage per page is too high and an RTN signal is returned to the transmitting station.</p> <p>The value set for this parameter should normally be less than that of the error_mult_rtp parameter (corresponding to a larger percentage). The RTN threshold takes precedence over the RTP threshold.</p>
error_thresh	<p><Decimal></p> <p>Default: 3</p>	<p>Specifies an error threshold value of n (2n for fine resolution) number of consecutive bad G3 lines on a received page. A page with errors in this number of consecutive lines is considered bad, regardless of the results from error_mult. An RTN is returned when a "bad" page occurs.</p>

Attribute	Values	Description
error_enable	0 - Off 1 - On (default)	Turns error detection on (1) or off (0) during fax reception in non-ECM mode.
font_file	<String or Decimal> 0 - 6, 255 Default: ibmpcps.fz8 (no path) and 0	<p>Specifies the name of the file that contains the transmit/convert font for ASCII. An optional font number, indicating the downloadable font to use, can be specified (if no font number is specified, 0 is assumed). The font file must be located in the current directory, or the correct path must be included with its name. The file is opened, and the contents downloaded to the module when BfvLineReset is called using the mill_load_fonts option. Multiple occurrences of font file parameters with different font numbers are permitted in the configuration file.</p> <p>When a font number that is specified for ASCII conversion has not been downloaded, a default font is used. This is font 255. Font 255 may be specified using the font_file keyword. If not, it defaults to ibmpcps.fz8 (no path). When font downloads are done as described above, font 255 is always downloaded regardless of whether other font numbers are listed using this keyword. Some font numbers may be reserved for preloaded fonts.</p>
id_string	<String> Default: 20 spaces	<p>Sets the default ID string (up to 20 characters long) for fax machines.</p> <p>The parameter can be overridden by the BfvFaxSetLocalId function if the host country permits changing the ID string.</p>
line_compression	0 - MH only 1 - MR or MH 5 - MMR, MR, or MH (default)	Specifies the permitted compression types for fax transmission or reception on the phone line. This specification is independent of the file format specified for transmission or reception. If ECM is disabled, then MMR fax compression on the line is unavailable.

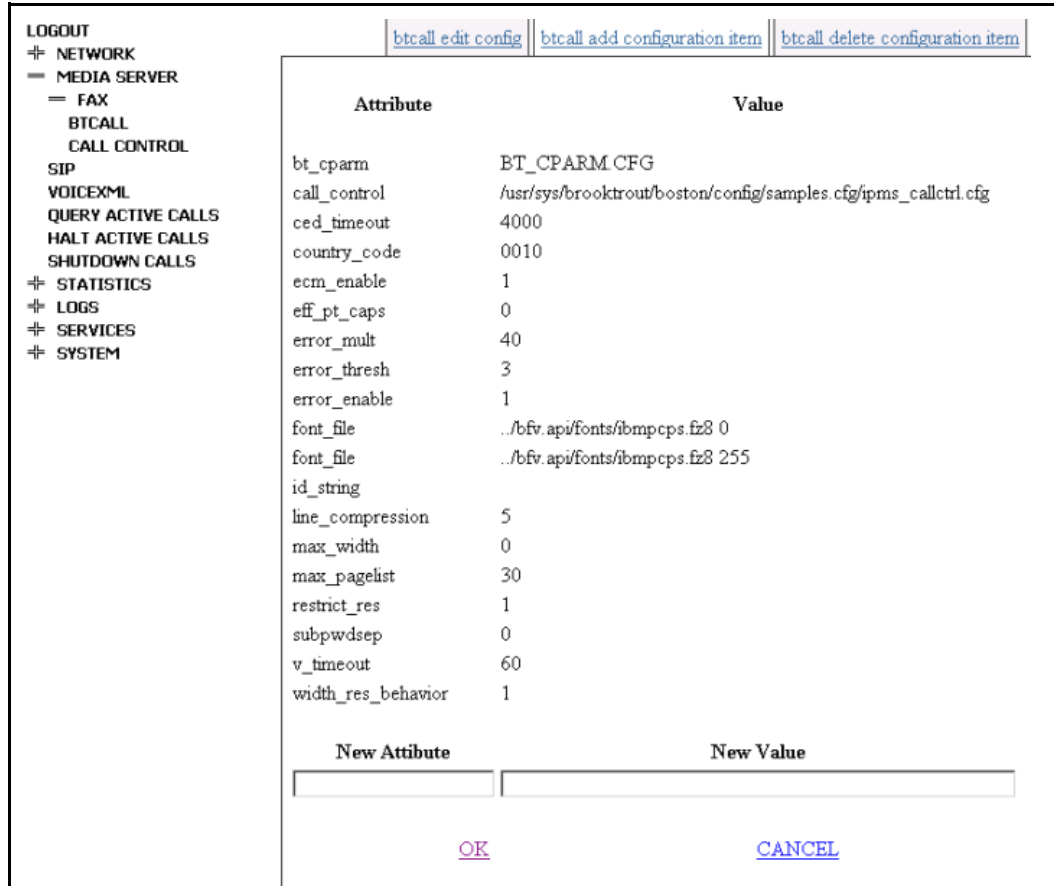
Attribute	Values	Description
max_width	0 - 215 mm A4 1728 Normal resolution pixels. (default) 1 - 255 mm B4 2048 Normal resolution pixels. 2 - 303 mm A3 2432 Normal resolution pixels.	Sets the maximum page width permitted for fax reception.
max_pagelist	<Decimal> Default: 30	Specifies the maximum number of pages allowed for storing results during a call. The last max_pagelist PAGE_RES structures are accessible via the FAX_RES structure if this feature has been enabled.
restrict_res	0 - 200H x 100V (normal) and 100H x 100V (for JPEG only) 1 - 200H x 200V (fine) 2 - 200H x 400V 4 - 300H x 300V 8 - 400H x 400V 10 - 300H x 600V 20 - 400H x 800V 40 - 600H x 600V 80 - 600H x 1200V 100 - 1200H x 1200V	Specifies allowable resolutions for fax reception. Regardless of the value chosen, 200H x 100V (normal) and 100H x 100V (for JPEG only) is always allowed.
subpwdsep	To form values, OR together the following base values: 0 - SUB, PWD, and SEP reception disabled. 1 - SEP reception enabled. 2 - PWD reception enabled. 4 - SUB reception enabled.	Enables reception of the SUB, PWD, and SEP FSK signals. Applications typically use these signals to direct or validate incoming calls.

Attribute	Values	Description
v_timeout	<Decimal> Default: 60	Specifies the maximum time (in seconds) to wait after the last dialed digit for a final call progress result. Use only when you select CALL_PROTOCOL_VOICE mode. This parameter only applies to the use of BfvLineOriginateCall and BfvLineOrigCallDB.
width_res_behavior	<Decimal> Default: 1	Specifies the action taken as a result of page width or resolution mismatches on fax transmission. Does not affect fax reception. Scaling the fax is not available for all combinations of resolution mismatches.

Adding bcall Attributes

Follow the steps below to add new bcall attributes.

- 1 Select FAX → BTCALL and click the bcall add configuration item tab. The following screen appears.



The screenshot shows a configuration window with a sidebar on the left and a main table area. The sidebar contains a tree view with the following items: LOGOUT, NETWORK, MEDIA SERVER, FAX, BTCALL, CALL CONTROL, SIP, VOICEXML, QUERY ACTIVE CALLS, HALT ACTIVE CALLS, SHUTDOWN CALLS, STATISTICS, LOGS, SERVICES, and SYSTEM. The main area has three tabs at the top: 'bcall edit config', 'bcall add configuration item' (which is selected), and 'bcall delete configuration item'. Below the tabs is a table with two columns: 'Attribute' and 'Value'. The table contains the following entries:

Attribute	Value
bt_cparm	BT_CPARM.CFG
call_control	/usr/sys/brooktrout/boston/config/samples.cfg/ipms_callctrl.cfg
ced_timeout	4000
country_code	0010
ecm_enable	1
eff_pt_caps	0
error_mult	40
error_thresh	3
error_enable	1
font_file	../bfv.api/fonts/ibmpcps.fz8 0
font_file	../bfv.api/fonts/ibmpcps.fz8 255
id_string	
line_compression	5
max_width	0
max_pagelist	30
restrict_res	1
subpwdsep	0
v_timeout	60
width_res_behavior	1

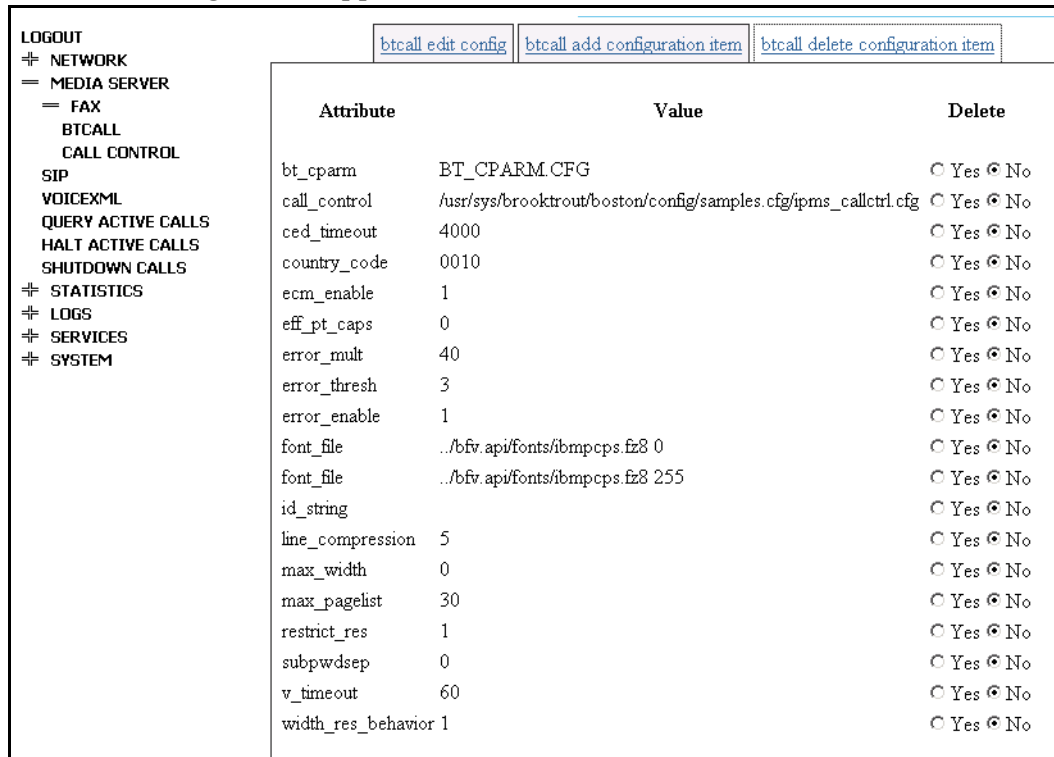
Below the table are two input fields labeled 'New Attribute' and 'New Value'. At the bottom of the window are two buttons: 'OK' and 'CANCEL'.

Figure 30. Add bcall Configuration Item

- 2 Enter the attribute in the New Attribute field.
- 3 Enter the value in the New Value field.
- 4 Repeat the steps above for additional attributes.
- 5 Click OK when complete.

Deleting bcall Attributes

- 1 Select FAX → BTCALL and click the bcall delete configuration tab. The following screen appears.



The screenshot shows a web interface for deleting bcall configuration items. On the left is a navigation menu with options like NETWORK, MEDIA SERVER, FAX, BTCALL, CALL CONTROL, SIP, VOICEXML, QUERY ACTIVE CALLS, HALT ACTIVE CALLS, SHUTDOWN CALLS, STATISTICS, LOGS, SERVICES, and SYSTEM. At the top right are three tabs: 'bcall edit config', 'bcall add configuration item', and 'bcall delete configuration item'. The main area contains a table with three columns: Attribute, Value, and Delete. The Delete column has two radio buttons, 'Yes' and 'No', for each attribute.

Attribute	Value	Delete
bt_cparm	BT_CPARM.CFG	<input type="radio"/> Yes <input type="radio"/> No
call_control	/usr/sys/brooktrout/boston/config/samples.cfg/ipms_callctrl.cfg	<input type="radio"/> Yes <input type="radio"/> No
ced_timeout	4000	<input type="radio"/> Yes <input type="radio"/> No
country_code	0010	<input type="radio"/> Yes <input type="radio"/> No
ecm_enable	1	<input type="radio"/> Yes <input type="radio"/> No
eff_pt_caps	0	<input type="radio"/> Yes <input type="radio"/> No
error_mult	40	<input type="radio"/> Yes <input type="radio"/> No
error_thresh	3	<input type="radio"/> Yes <input type="radio"/> No
error_enable	1	<input type="radio"/> Yes <input type="radio"/> No
font_file	../bfv.api/fonts/tbmpcps.tz8 0	<input type="radio"/> Yes <input type="radio"/> No
font_file	../bfv.api/fonts/tbmpcps.tz8 255	<input type="radio"/> Yes <input type="radio"/> No
id_string		<input type="radio"/> Yes <input type="radio"/> No
line_compression	5	<input type="radio"/> Yes <input type="radio"/> No
max_width	0	<input type="radio"/> Yes <input type="radio"/> No
max_pagelist	30	<input type="radio"/> Yes <input type="radio"/> No
restrict_res	1	<input type="radio"/> Yes <input type="radio"/> No
subpwdsep	0	<input type="radio"/> Yes <input type="radio"/> No
v_timeout	60	<input type="radio"/> Yes <input type="radio"/> No
width_res_behavior	1	<input type="radio"/> Yes <input type="radio"/> No

Figure 31. Delete bcall Configuration Item

- 2 Select Yes next to the attributes that you want to delete.
- 3 Click OK.

Call Control

Follow the procedures below to edit, add, and/or delete attributes in the Call Control configuration file.

Editing Call Control Attributes

Follow the steps below to edit BTCALL attributes.

- 1 Select FAX → CALL CONTROL and click the call control edit config tab. The following screen appears.

			call control edit config	call control add configuration item	call control delete configuration item
Group	Attribute	Value			
	trace_file	/var/snowshore/log/sr140_trace.log			
	max_trace_files	1			
	max_trace_file_size	10			
module.41	model	SR140			
module.41	virtual	1			
module.41	exists	1			
module.41	vb_firm	/usr/sys/brooktrout/boston/fw/bostvb.so			
module.41	channels	60			
module.41/ethernet.1	ip_interface	eth0			
module.41/ethernet.1	media_port_min	56000			
module.41/ethernet.1	media_port_max	57000			
host_module.1/t38parameters	t38_fax_rate_management	transferredTCF			
host_module.1/t38parameters	t38_fax_udp_ec	t38UDPRedundancy			
host_module.1/t38parameters	t38_max_bit_rate	14400			
host_module.1/t38parameters	t38_fax_version	0			
host_module.1/t38parameters	t38_fax_fill_bit_removal	false			
host_module.1/t38parameters	t38_fax_transcoding_jbig	false			
host_module.1/t38parameters	t38_fax_transcoding_mmr	false			
host_module.1/t38parameters	t38_fax_max_datagram	72			
host_module.1/t38parameters	t38_fax_max_buffer	200			
		OK	CANCEL		

Figure 32. Edit Call Control Configuration

- 2 Complete the screen as indicated in Table 13 below. Click OK when complete.

Table 13. Call Control attributes

Attribute	Values	Description
1314_trace	<p>none - Does not perform a trace operation (default value).</p> <p>error - Detects errors and stores them in the specified trace_file.</p> <p>warning - Detects warnings and stores them in the specified trace_file.</p> <p>basic - Stores a simplified trace in the specified trace_file.</p> <p>verbose - Stores a complete trace of operations in the specified trace_file.</p>	Traces BSMI messages between layers 3 and 4.
1413_trace	Same as 1314_trace above.	Traces BSMI messages between layers 4 and 3.
api_trace	Same as 1314_trace above.	Traces call control activity to and from the Bfv API functions.
internal_trace	Same as 1314_trace above.	Traces call control activity in areas not otherwise covered. Dialogic's engineering personnel use this tracing. Application developers are not advised to select this type of tracing.
host_module_trace	Same as 1314_trace above.	Traces call control activity to and from all host modules defined in your call control configuration file.
ip_stack_trace	Same as 1314_trace above.	Traces call control activity to and from all IP stack module libraries defined in your call control configuration file.
trace_file	<user defined>	Turns on tracing and reports results to the filename specified for this parameter.

Attribute	Values	Description
max_trace_files	1 - 999 Default: 1	<p>Specifies the maximum number of trace files for the API to retain on the system's file system.</p> <p>When set to a value greater than 1, the API appends a sequence number extension to the file name, starting at 1. If the number of created trace files exceeds the value set for this parameter, the API starts deleting files from the lowest numbered trace log until it frees sufficient disk space to store the last created file. To prevent deleting older files, set the maximum number of trace files to a large number.</p>
max_trace_file_size	0 - Sets the trace file to an unlimited size Default: 10	<p>Specifies the maximum size, in megabytes, allowed for the trace file. If the trace of operations reaches this size, tracing loops back to the start of the file and the continued trace starts overwriting the older trace.</p>
model	<user defined>	<p>Indicates a value that identifies the name of a module. The configuration tool uses the value in this parameter as the cached information that identifies the module when in offline mode.</p>
virtual	1	<p>If present in the file, this parameter indicates that the module is a virtual module.</p> <p>When the parameter is absent, configuration applies to a hardware module.</p>
exists	0 - Module does not exist 1 - Module exists	<p>Indicates the state of a module.</p>
vb_firm	Default: No default. Absence of the parameter indicates that the module is not a virtual module.	<p>Indicates that the module is a virtual module and specifies the filename of the shared library that contains the loadable firmware for the virtual module</p>

Attribute	Values	Description
channels	<p>0 - Specifies downloading the firmware to the default value of the number of channels on the module (default).</p> <p>1 – 1024 - Specifies a value defining the number of channels on the module configured to receive a firmware download.</p>	<p>Specifies the number of channels on either a hardware or virtual module configured to receive a firmware download.</p> <p>When the firmware is downloaded to a module for the first time, the assigned ordinal channel numbers start wherever the assignment left off on the previous module. As the system initializes the modules, this numbering process creates a continuous ordering of the channel assignments across all the modules in the system. On later downloads, each module's ordinals begin at the same location, regardless of any decrease or increase in the channel count of a lower-numbered module.</p> <p>Therefore, if you decrease the channel count for a lower numbered module, the process creates gaps in the channel numbering assignments, possibly affecting your application. If you attempt to increase the channel count above any module's initial channel count, the system ignores the added channels.</p> <p>For the following situations, restart the driver whenever you want to:</p> <ol style="list-style-type: none"> 1. Get a continuous assignment of channel numbers after decreasing the channel count on any module. 2. Increase the number of channels above a module's initial channel count.

Attribute	Values	Description
IP_interface	<p><string></p> <p>Default: <blank>. The virtual module uses the first interface in the PC for sending IP messages.</p>	<p>Specifies the identity of the device on the PC with the IP interface that the virtual module can use for sending IP messages.</p> <p>Note: This parameter only applies to host-based fax applications using a virtual module.</p> <p>Set the value of this parameter to the name of any device in the PC with an IP interface. If you do not provide a value (blank string), the virtual module chooses the first interface in the PC to send its messages.</p>
media_port_min	<p>1024 - 64535</p> <p>Default: 56000</p>	<p>Specifies the lowest IP port number that the module can use for media transmissions. Set this value to a value 1000 below the value specified for the media_port_max parameter.</p>
media_port_max	<p>2024 - 65535</p> <p>Default: 57000</p>	<p>Specifies the highest IP port number that the module can use. Set this value to a value 1000 above the value specified for the media_port_min parameter.</p>
t38_fax_rate_management	<p>localTCF - Indicates that the transport uses the local training check frame (TCF) data rate management type (not supported).</p> <p>transferredTCF - Indicates that the transport uses the transferred training check frame (TCF) data rate management type. (Default)</p>	<p>Specifies a value that identifies the data rate management method of the transport.</p>
t38_fax_udp_ec	<p>t38UDPFEC - The transport uses the T.38 user datagram protocol (UDP) forward error correction (FEC) method (not supported).</p> <p>t38UDPRedundancy - The transport uses the T.38 UDP redundancy error correction method. (Default)</p>	<p>Specifies a value that identifies the error correction method of the T.38 fax transport.</p>

Attribute	Values	Description
T38_max_bit_rate	<p>The following values represent the maximum bit rate that can be negotiated for fax packetization.</p> <p>2400</p> <p>4800</p> <p>7200</p> <p>9600</p> <p>12000</p> <p>14400 - default if T38 Fax Version is 0 or 1</p> <p>16800</p> <p>19200</p> <p>21600</p> <p>24000</p> <p>26400</p> <p>28800</p> <p>31200</p> <p>33600 - default if T38 Fax Version is 2 or 3</p>	<p>Specifies a value that defines the maximum bit rate for fax packetization onto the network.</p>
t38_fax_version	<p>0, 1, 2, 3</p> <p>Default: 3</p>	<p>Controls the maximum T.38 ASN.1 version the IP Call Control offers or accepts from a remote party. Versions 0, 1, 2 support a maximum bit rate of 14,400 bps.</p> <p>Version 3 supports V.34 and the following are the possible bit rates:</p> <p>33,600 (default), 31,200, 28,800, 26,400, 24,000, 21,600, 16,800</p>
t38_fax_fill_bit_removal	<p>FALSE Indicates that the API does not support the capability.</p> <p>TRUE Indicates that the API can remove or insert fill bits.</p>	<p>Specifies whether the API can remove or insert fill bits to reduce the bandwidth of the transport mechanism.</p> <p>Note: This parameter does not affect the normal T.30-level capability to remove or insert fill bits.</p>

Attribute	Values	Description
t38_fax_transcoding_jbig	FALSE - Indicates that the API does not support the capability. (Default) TRUE - Indicates that the API can convert JBIG fax images.	Specifies whether the API can convert to and from JBIG fax images to reduce the bandwidth of the transport mechanism when using a reliable transport (for example, TCP).
t38_fax_transcoding_MMR	FALSE Indicates that the API does not support the capability. (Default) TRUE Indicates that the API can convert MMR compression.	Specifies whether the API can convert to and from MMR fax compression to reduce the bandwidth of the transport mechanism when using a reliable transport (for example, TCP). Note: This parameter does not affect the normal T.30-level capability to use MMR if the two endpoints select MMR as a line compression format.

Adding Call Control Attributes

Follow the steps below to add new Call Control attributes.

- 1 Select FAX → CALL CONTROL and click the call control add configuration item tab. The following screen appears.

LOGOUT

- ⊕ NETWORK
- ⊖ MEDIA SERVER
- = FAX
- BTCALL
- CALL CONTROL
- SIP
- VOICEXML
- QUERY ACTIVE CALLS
- HALT ACTIVE CALLS
- SHUTDOWN CALLS
- ⊕ STATISTICS
- ⊕ LOGS
- ⊕ SERVICES
- ⊕ SYSTEM

[call control edit config](#)
[call control add configuration item](#)
[call control delete configuration item](#)

Group	Attribute	Value
	trace_file	/var/snowshore/log/sr140_trace.log
	max_trace_files	1
	max_trace_file_size	10
module.41	model	SR140
module.41	virtual	1
module.41	exists	1
module.41	vb_firm	/usr/sys/brooktrout/boston/fw/bostvb.so
module.41	channels	60
module.41/ethernet.1	ip_interface	eth0
module.41/ethernet.1	media_port_min	56000
module.41/ethernet.1	media_port_max	57000
host_module.1/t38parameters	t38_fax_rate_management	transferredTCF
host_module.1/t38parameters	t38_fax_udp_ec	t38UDPRedundancy
host_module.1/t38parameters	t38_max_bit_rate	14400
host_module.1/t38parameters	t38_fax_version	0
host_module.1/t38parameters	t38_fax_fill_bit_removal	false
host_module.1/t38parameters	t38_fax_transcoding_jbig	false
host_module.1/t38parameters	t38_fax_transcoding_mmr	false
host_module.1/t38parameters	t38_fax_max_datagram	72
host_module.1/t38parameters	t38_fax_max_buffer	200

New Group

New Attribute

New Value

[OK](#)
[CANCEL](#)

Figure 33. Add Call Control Configuration Item

- 2 At the bottom of the screen, complete the New Group, New Attribute, and New Value fields and click OK.
- 3 Repeat the step above until complete.

Deleting Call Control Attributes

- 1 Select FAX → CALL CONTROL and click the call control delete configuration item tab. The following screen appears.

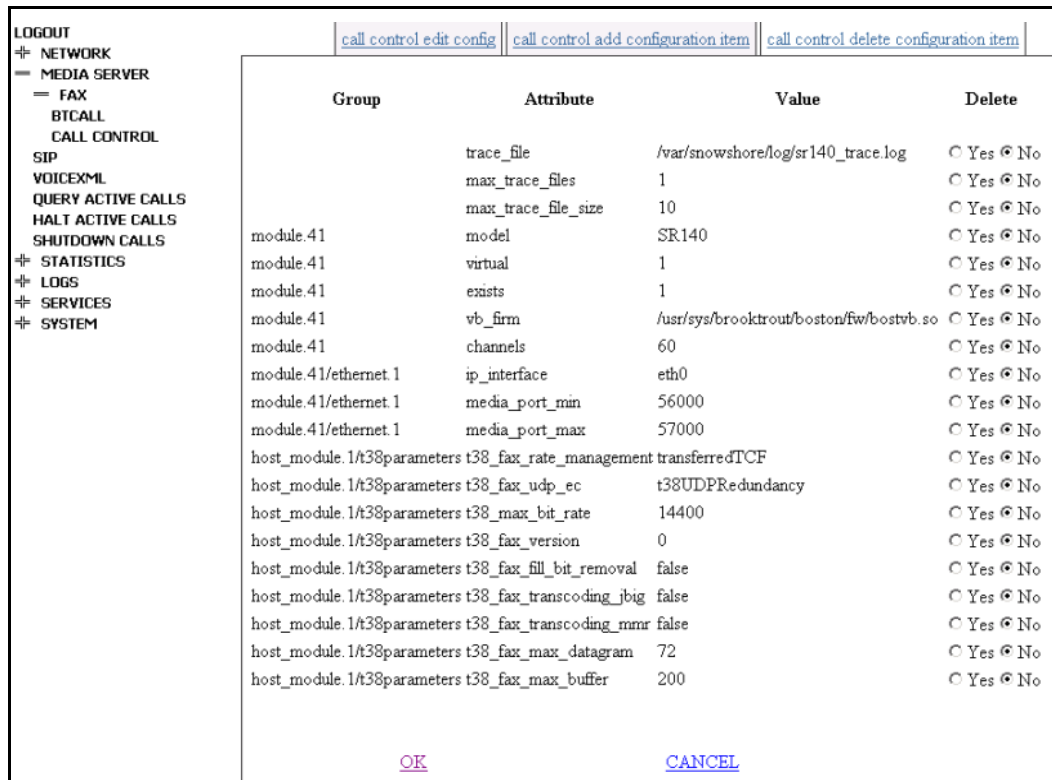


Figure 34. Delete Call Control Configuration Item

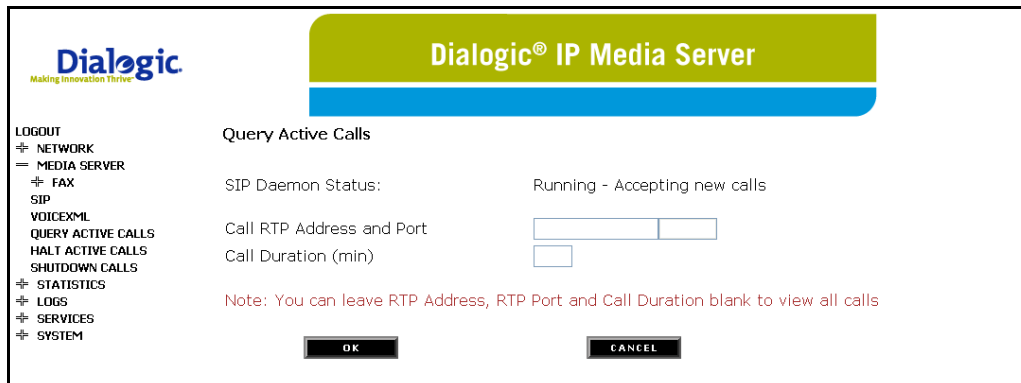
- 2 Select Yes next to the attributes that you want to delete.
- 3 Click OK.

Query Active Calls

You can query for currently active calls on the IP Media Server. This enables you to determine if it is safe to change configuration settings.

- 1 Select MEDIA SERVER→QUERY ACTIVE CALLS from the menu.

The Query Active Calls page is displayed:



The screenshot shows the 'Query Active Calls' page in the Dialogic IP Media Server interface. On the left is a navigation menu with options like LOGOUT, NETWORK, MEDIA SERVER, FAX, SIP, VOICEXML, QUERY ACTIVE CALLS, HALT ACTIVE CALLS, SHUTDOWN CALLS, STATISTICS, LOGS, SERVICES, and SYSTEM. The main content area has a title bar 'Dialogic® IP Media Server' and a sub-header 'Query Active Calls'. Below this, it shows 'SIP Daemon Status: Running - Accepting new calls'. There are two input fields: 'Call RTP Address and Port' (with a port selection dropdown) and 'Call Duration (min)'. A red note says 'Note: You can leave RTP Address, RTP Port and Call Duration blank to view all calls'. At the bottom are 'OK' and 'CANCEL' buttons.

Figure 35. Query Active Calls Page

- 2 Enter the call RTP address and RTP port.
- 3 Enter the call duration. The IP Media Server returns all calls that have existed at least as long as the duration value (that is, all calls with times equal to or greater than the specified Duration).

Note: To view all calls, leave the RTP Address, RTP Port, and Call Duration fields blank.

- 4 Click OK to get the results of the query.

Halt Active Calls

You can selectively stop currently active calls on the IP Media Server at any time. To halt active calls on the IP Media Server:

- 1 Select MEDIA SERVER→HALT ACTIVE CALLS from the menu to display the Halt Active Calls page:

The screenshot shows the 'Halt Active Calls' page in the Dialogic IP Media Server interface. The page has a green header with the Dialogic logo and the text 'Dialogic® IP Media Server'. On the left, there is a navigation menu with the following items: LOGOUT, NETWORK, MEDIA SERVER, FAX, SIP, VOICEXML, QUERY ACTIVE CALLS, HALT ACTIVE CALLS, SHUTDOWN CALLS, STATISTICS, LOGS, SERVICES, and SYSTEM. The main content area is titled 'Halt Active Calls' and displays the 'SIP Daemon Status' as 'Running - Accepting new calls'. Below this, there are two input fields: 'Call RTP Address and Port' and 'Call Duration (min)'. A red note below the input fields states: 'Note: You can leave RTP Address, RTP Port and Call Duration blank to view all calls'. At the bottom of the page, there are two buttons: 'OK' and 'CANCEL'.

Figure 36. Halt Active Calls Page

- 2 Enter the call RTP address and RTP port.
- 3 Enter the call duration.

Note: To view all calls, leave the RTP Address, RTP Port, and Call Duration fields blank.

- 4 Click OK to get the results of the query.
- 5 Check the **Select** box for each call you want to halt and click OK to force the halt. The page re-displays, minus the halted calls.

Shutdown Calls

The Shutdown Calls feature blocks incoming call requests to the IP Media Server. This allows an administrator to reboot the server without losing any incoming calls. The Shutdown Calls page also enables an administrator to shutdown all existing calls.

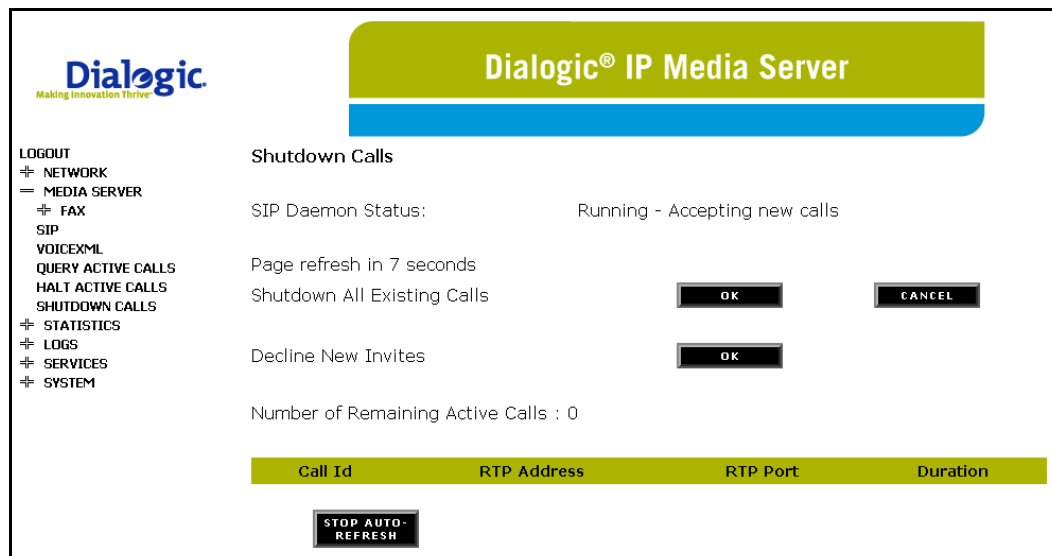


Figure 37. Shutdown Calls Page

To block new incoming calls, click OK adjacent to Decline New Invites. This causes the IP Media Server to stop accepting new calls. Active calls are not affected by this setting. After the page is refreshed, the option then changes to Accept New Invites, letting you re-enable the server to accept calls.

This page also enables you to shutdown all active calls.

- ◆ To selectively shut down calls, use the Halt Active Calls menu option.
- ◆ To shut down all calls, click the OK button adjacent to Shutdown All Existing Calls. The IP Media Server sends SIP BYE requests to terminate any existing calls.

5 - Operations, Administration, and Maintenance

This chapter describes procedures for operating, administering, and maintaining the IP Media Server.

This chapter includes the following sections:

- ◆ [IP Media Server Statistics](#)
- ◆ [Logs Menu](#)
- ◆ [Services Menu](#)
- ◆ [The Dialogic® IP Media Server Private MIB](#)
- ◆ [System Menu](#)

IP Media Server Statistics

The IP Media Server collects statistics associated with SIP messages and call attempts. It also gathers statistics on the server hardware.

Cumulative

To access the SIP message statistics:

- 1 Select **CUMULATIVE**. The number of SIP messages received and sent is shown.

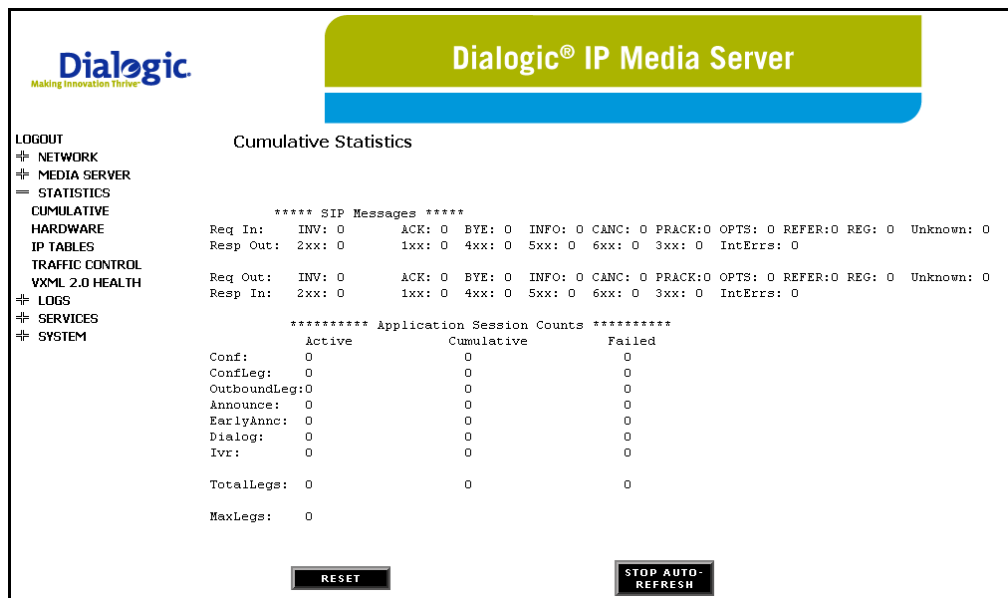


Figure 38. Cumulative Statistics Page

The IP Media Server also keeps statistics of call attempts for the supported application services. For each application service type, the statistics show:

- Active Calls—The number of currently active calls for each application service type.
- Cumulative Calls—The total number of call attempts for each application service type since the last reset of the statistics.
- Failed Calls—The total number of failed call attempts for each application service type since the last reset of the statistics.

The screen displays the total number of calls (Active, Cumulative, Failed) since the last reset of the statistics. This is shown at the bottom of the statistics screen and is labeled **TotalLegs**.

Note: The total does not include the **Conf** row, but does include the **ConfLeg** row. The **Conf** number is the number of unique conferences, not the number of calls in the conference.

A high-water mark counter is found under the **TotalLegs** line and is called **MaxLegs**. This shows the highest number of simultaneously active calls on the IP Media Server since the last reset of the statistics.

- 2 To set the statistics to 0, click **RESET**.

Hardware

To access the hardware statistics, select **Hardware** to display the **Hardware Statistics** screen. This screen reflects the current status of the IP Media Server hardware. The hardware statistics include processor information, memory, average load of the system, disk usage of the system, and DSP board information, if one is installed.

The only option on this screen is to stop/start the auto refresh. To use this feature, click **Stop Auto-Refresh** to stop the screen from automatically refreshing. To restart auto-refresh, click **Start Auto-Refresh**.

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Dialogic® IP Media Server

LOGOUT
 NETWORK
 MEDIA SERVER
 STATISTICS
 CUMULATIVE
 HARDWARE
 IP TABLES
 TRAFFIC CONTROL
 VXML 2.0 HEALTH
 LOGS
 SERVICES
 SYSTEM

Hardware Statistics

Processor :
 Type: Intel(R) Xeon(TM) CPU 2.40GHz
 Count: 2

Memory (in 1K blocks) :

	total	used	free	shared	buffers	cached
Mem:	1034564	301008	733556	0	24320	122060
Swap:	2040244	0	2040244			
Total:	3074808	301008	2773800			

Average Load :
 1m 5m 10m Processes
 0.04 0.07 0.06 1/345

Disk Usage :

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/sda2	4032124	1595216	2232080	42%	/
/dev/sda1	101086	11990	83877	13%	/boot
/dev/sda5	29134940	194780	27460176	1%	/var

Board :
 EDP-10 board
 FPGA version : 107
 Part # : 400-00040-02
 Revision # : 01.01
 Serial # : ROC-2904-00020-PEM

STOP AUTO-REFRESH

Figure 39. Hardware Statistics Page

IP Tables

The IP TABLES menu displays statistics for the IP Tables as shown in Figure 40. IP Tables are used to tag specific outgoing VoIP traffic.

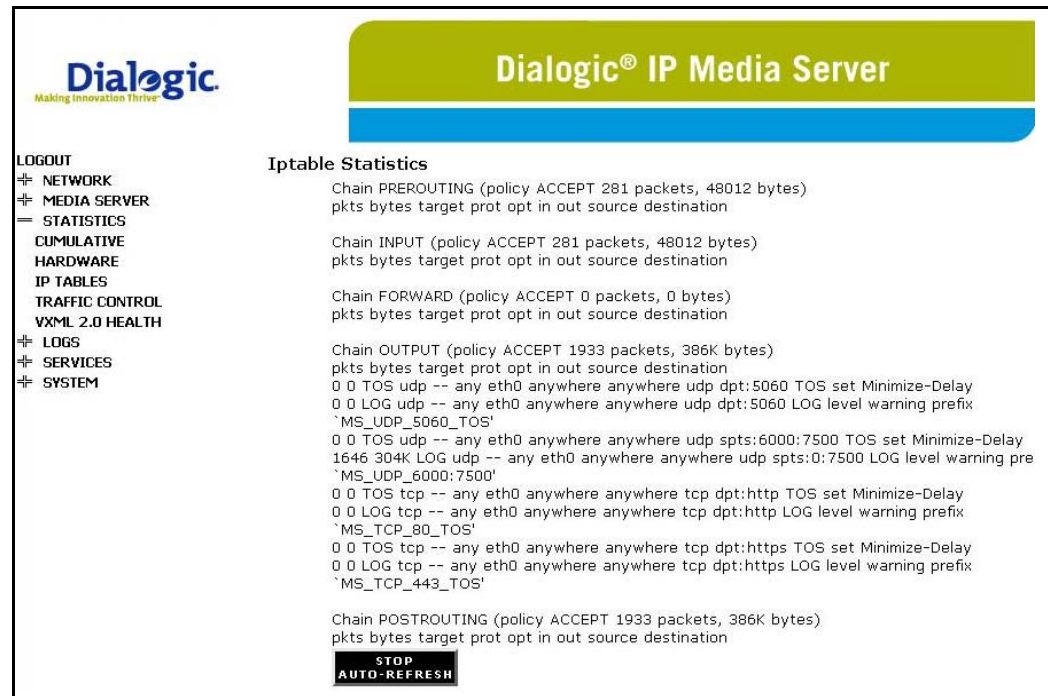


Figure 40. IP Table Statistics Page

The following are key points from these statistics:

- ◆ The line below indicates to set the TOS (Type of Service) bit for all UDP traffic on eth0 where the destination port is 5060 (SIP) to be Minimum delay.

```
0 0 TOS udp -- any eth0 anywhere anywhere udp dpt:5060 TOS set Minimize-Delay
```

- ◆ The next line indicates to log this information.

```
0 0 LOG udp -- any eth0 anywhere anywhere udp dpt:5060 LOG level warning prefix
```

Traffic Control

The Traffic Control menu displays statistics for the Traffic Control as shown in Figure 41. Traffic Control application allows the IP Media Server to prioritize incoming traffic.

```
LOGOUT
+ NETWORK
+ MEDIA SERVER
= STATISTICS
CUMULATIVE
HARDWARE
IP TABLES
TRAFFIC CONTROL
VXML 2.0 HEALTH
+ LOGS
+ SERVICES
+ SYSTEM
```

Traffic Control Statistics

```
eth0
qdisc prio 1: bands 2 priomap 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sent 12941850 bytes 110512 pkts (dropped 0, overlimits 0 requeues 0)
qdisc pfifo 11: parent 1:1 limit 1000p
Sent 12365397 bytes 103438 pkts (dropped 0, overlimits 0 requeues 0)
qdisc pfifo 12: parent 1:2 limit 1000p
Sent 576453 bytes 7074 pkts (dropped 0, overlimits 0 requeues 0)
class prio 1:1 parent 1: leaf 11:
class prio 1:2 parent 1: leaf 12:
eth1
qdisc prio 1: bands 2 priomap 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sent 0 bytes 0 pkts (dropped 0, overlimits 0 requeues 0)
qdisc pfifo 11: parent 1:1 limit 1000p
Sent 0 bytes 0 pkts (dropped 0, overlimits 0 requeues 0)
qdisc pfifo 12: parent 1:2 limit 1000p
Sent 0 bytes 0 pkts (dropped 0, overlimits 0 requeues 0)
class prio 1:1 parent 1: leaf 11:
class prio 1:2 parent 1: leaf 12:
```

STOP AUTO-REFRESH

Figure 41. Traffic Control Statistics Page

The following are key points from these statistics:

- ◆ This line is all the traffic seen on eth0:
`qdisc prio 1: bands 2 priomap 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1`
- ◆ “Sent” means allowed or passed or seen:
`Sent 5578871 bytes 27740 pkts (dropped 0, overlimits 0 requeues 0)`
- ◆ This line is the filter for VOIP traffic incoming:
`qdisc pfifo 11: parent 1:1 limit 1000p`
- ◆ All traffic in this case was VOIP and was passed on up:
`Sent 5533101 bytes 27477 pkts (dropped 0, overlimits 0 requeues 0)`
- ◆ The following line is all non-VOIP traffic:
`qdisc pfifo 12: parent 1:2 limit 1000p`
- ◆ This traffic took the slow path in the IP Media Server as it is not as important
`Sent 45770 bytes 263 pkts (dropped 0, overlimits 0 requeues 0)`

VXML 2.0 Health

The VXML 2.0 Health menu displays system health information for VXML 2.0, as shown in Figure 42. This information can be useful for troubleshooting a VXML 2.0 configuration or application issue.

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Dialogic® IP Media Server

LOGOUT
NETWORK
MEDIA SERVER
STATISTICS
CUMULATIVE
HARDWARE
IP TABLES
TRAFFIC CONTROL
VXML 2.0 HEALTH
LOGS
SERVICES
SYSTEM

Vxml 2.0 Health Statistics

Health for all components on localhost

Component	ID	Health Status
Command Line Cnsl (clc)	1	Started: 2008-05-12/14:45:12.588 Status: ONLINE Clients Connected: Current 1, Total 1 Total Commands Issued: 1
CMF Proxy (cmpproxy)	2	[2 0.38% 151MB / 42% /boot 13% /dev/shm 0% /var 1% 3 0% 11MB 1 0% 1MB 6 0% 7MB 4 0% 8MB 5 0% 2MB] Started: 2008-05-12/14:45:09.553
VG SNMP Agent (vg SNMP)	3	Started: 2008-05-12/14:44:32.873 Status: ONLINE Total # of SNMP Get Requests: 0 Total # of SNMP Set Requests: 0 Total # of SNMP Trap Messages Sent: 0
VXML Interpreter (vxmli)	4	Started: 2008-05-12/14:45:14.677 Sessions: Current 0(0), Total 0
Web Proxy (iproxy)	5	Started: 2008-05-12/14:45:14.000 Sessions: Active 0(0), Open 0(0), Total 0 Cache: Size 0(0) Mb, Limit 64 Mb; Max age 60 secs. Errors 0 Fetches: Active 0(0)/150, Cached 0(0); Total 0+0, Size(Mb) 0+0 Requests: Queued 0(0), Open 0(0); Total 0+0, Size(Mb) 0+0
Call Manager (callmgr)	6	Started: 2008-05-12/14:45:24.158 Status: ONLINE Session: Current 0, Peak 0, Total 0 #VXMLi Attempted Connection: 1 #VXMLi Enabled: 1 VRM Engines: REALSPEAK*, SPEECHWORKS* SnowShore 8 VG-VXMLD 12346, UAD 5600 MSP: 127.0.0.1:12345 Calls(#IB:#OB): Current 0:0, Peak 0:0, Total 0:0

CANCEL START AUTO-REFRESH

Figure 42. VXML 2.0 Health Statistics Page

Logs Menu

The Logs menu includes commands for configuring system logs, and viewing log files, core files, and trace files.

Log Files

There are several log files generated by the IP Media Server. The IP Media Server logs are listed in the Log Files screen.

The screenshot shows the 'Log Files' page in the Dialogic IP Media Server interface. On the left is a navigation menu with options like LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, LOG FILES, CORE FILES, TRACE FILES, CONFIGURE, SERVICES, and SYSTEM. The main area has a 'Log Files' title and a 'DOWNLOAD' button. Below is a table listing log files.

Log Name	Date	Size	View	Select
sipd.log	05/12/08 03:47 PM	1557864	VIEW	<input type="checkbox"/>
CMP.log.cmpsntp	05/12/08 03:47 PM	1196179	VIEW	<input type="checkbox"/>
vxmli2.0_health.log	05/12/08 03:46 PM	1457	VIEW	<input type="checkbox"/>
CMP.log.cmpcdc	05/12/08 03:46 PM	385	VIEW	<input type="checkbox"/>
dms.log	05/12/08 03:46 PM	94704	VIEW	<input type="checkbox"/>
mserv.log	05/12/08 03:46 PM	155777	VIEW	<input type="checkbox"/>
audit.log	05/12/08 03:43 PM	15006	VIEW	<input type="checkbox"/>
sipd.log.1.gz	05/12/08 03:01 PM	17402	VIEW	<input type="checkbox"/>
snmpDaemon.log	05/12/08 02:46 PM	262	VIEW	<input type="checkbox"/>
CMP.log.callmgr.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>
CMP.log.vxmli.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>
CMP.log.vxmli	05/12/08 02:45 PM	1877	VIEW	<input type="checkbox"/>
CMP.log.pwproxy.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>

Figure 43. Log Files Page

The IP Media Server generates the following logs:

Table 14. IP Media Server Logs

Name ^a	Contents
<hostname>_system_info.log	Configuration for the IP Media Server as well as the computer hardware.
audit.log	All of the SNMP sets and user configuration changes made through the Web interface.
cache.log	Squid cache processes.
cache_access.log	Squid cache accesses.

Table 14. IP Media Server Logs (Continued)

Name ^a	Contents
dms.log	Internal messages on the IP Media Server dealing with host software-to-DSP card interactions.
email_to_fax.log	Logs email to fax traffic
fido.log	Messages associated with fetching Internet domain objects (files, vxml pages over http).
messages.log	SIPD and UAD messages written when the Syslog option is enabled.
mserv.log	Details of creating and managing RTP streams on the IP Media Server.
msinit.log	Watchdog information about the Mserv and MSprovider processes.
msprovider.log	Information about license transactions.
sipd.log	SIP messages received and sent by the IP Media Server.
snmpDaemon.log	All output from snmpDaemon.
sr140app.log	Logs fax traffic
uad.log	Internal messages associated with VoiceXML 1.0 transfer functions.
vxmlid.log	VoiceXML 1.0 messages on the IP Media Server.

a. See also “Log Naming Convention” (page 118).

VXML 2.0 Logs

When VXML 2.0 is enabled on the IP Media Server, an additional set of logs is generated. These are described below. These logs are derived from the Dialogic® IP Media Server implementation of the VoiceGenie Technologies, Inc., VXML 2.0 browser. These logs may be useful when troubleshooting VXML 2.0 applications and contacting Technical Support.

Table 15. VXML 2.0 Logs

Name	Contents
CMP.log	System-level log that contains messages related to VXML 2.0 platform processes.
CMP.log.cmpsnmp	SNMP agent log for VXML 2.0.

Table 15. VXML 2.0 Logs

Name	Contents
CMP.log.callmgr	Messages related to the VXML 2.0 call manager interface to the IP Media Server line manager.
CMP.log.callmgr.info	Information about VXML 2.0 call manager activity.
CMP.log.vxmli	VXML 2.0 interpreter messages.
CMP.log.cmpproxy	Information about the VXML 2.0 platform.
CMP.log.cmpclc	Internal platform configuration commands.
pw_logfile*	Current VXML 2.0 logfile.
pw_logfile.#*	Previous versions of the pw_logfile. Most recent is .1, next oldest is .2, etc.
pw_metricsfile	Current VXML 2.0 metrics file.
pw_metricsfile.datestamp	Previous VXML 2.0 metrics files.
vxml2.0_health.log	Summary of the status of VXML 2.0 processes.

Core Files

Core files appear in this view when a failure has occurred. The Core Files contains a memory image of the terminated process. These files are useful in debugging.

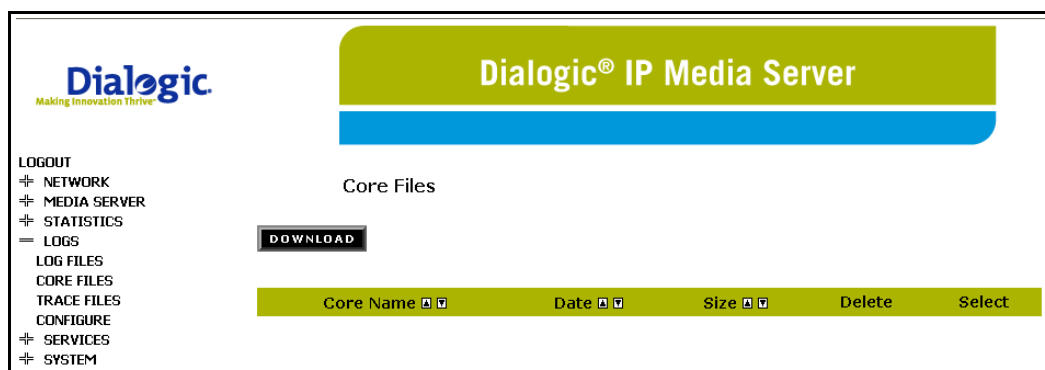


Figure 44. Core Files Page

Trace Files

This window lists the output files from the trace feature (NETWORKS → UTILITIES → TRACE) on the IP Media Server. These files can be opened using network analyzer software.

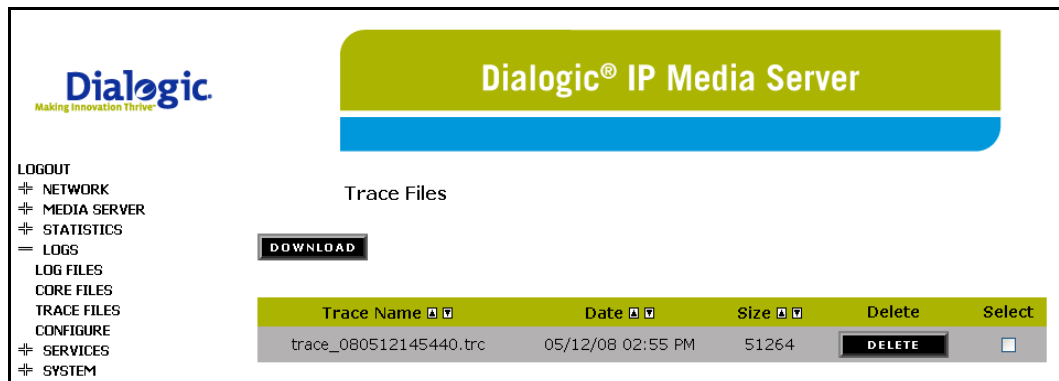


Figure 45. Trace Files Page

Configure Logs

The log system is controlled by a set of parameters you configure using the LOGS→CONFIGURE menu.

Note: Only Administrators can configure the log system.

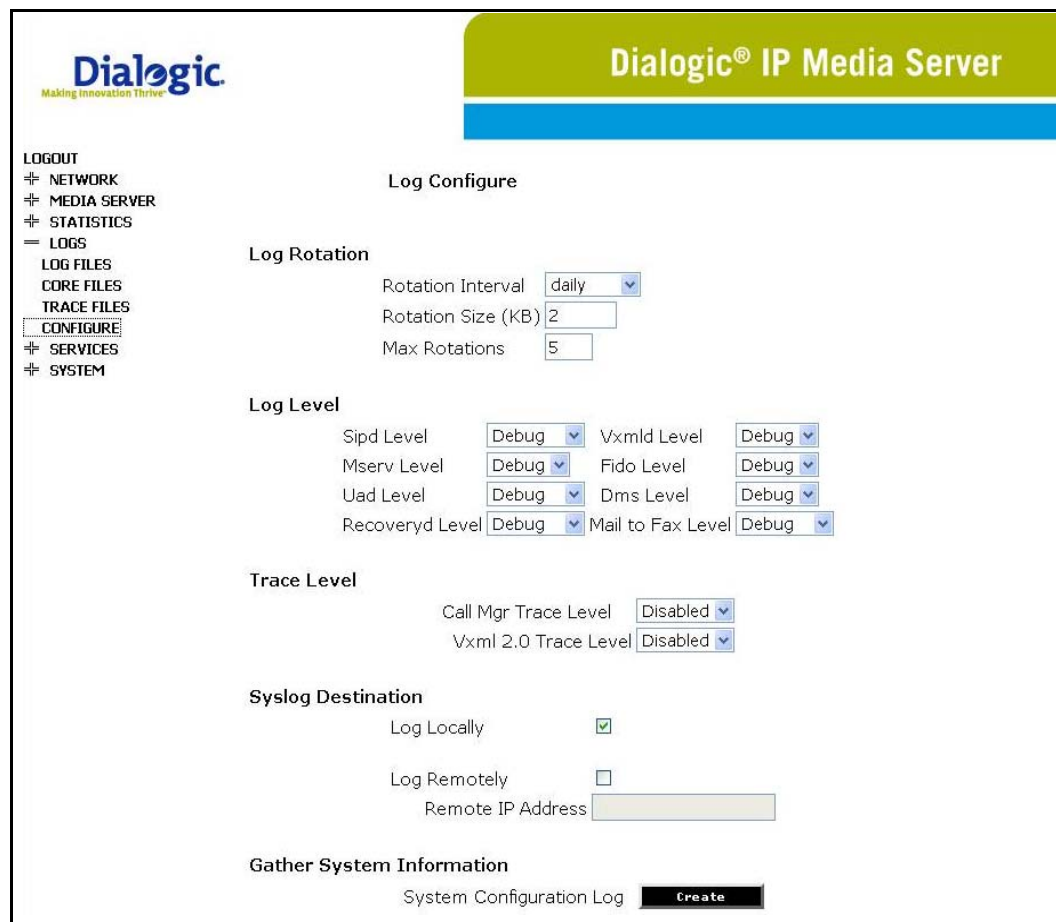


Figure 46. Log Configure Page

Log Rotation

Note: If you change the log rotation values from the defaults, do not exceed file sizes of 2GB or available disk storage space.

Table 16. Log Rotation Parameters

Parameter	Values	Description
Rotation Interval	<ul style="list-style-type: none">• Monthly• Weekly• Daily• Hourly• 30 minutes• 15 minutes (Default : Hourly)	Interval at which the log files are checked for rotation. The interval can be: <ul style="list-style-type: none">• Monthly (at 4:42 AM, the first day of the month)• Weekly (at 4:22 AM, first day of the week)• Daily (at 4:02 AM)• Hourly (at the top of the hour)• 30 minutes• 15 minutes
Rotation Size	integer: 1–250,000 (Default: 250)	Minimum size (in kilobytes) that a log file must be to be rotated at the next rotation interval. <hr/> Note: Logs are rotated based on their size when they are checked. If you want the logs to be rotated at the interval chosen, make the rotation size small. <hr/> Caution: Specifying a large rotation size creates very large log files which take longer to view and download. For maximum system efficiency, set rotation sizes to less than 50,000 KB. <hr/>
Max Rotations	integer: 1–240 (Default: 10)	Number of rotations allowed for each log file. This determines how many log files are kept on the system before they are deleted.

Note: The log configuration parameters do not apply to the VXML 2.0 logs. These logs are preconfigured to have a maximum rotation size of 10MB and a maximum of 5 rotations.

Log Level

The Log Level section of the Log Configure screen enables you to configure the level of detail to be included in each log. Select the level of detail to record for each log from the drop-down list.

Table 17. Log Level Parameters

Level	Log Contents
Debug	All messages associated with a process. A log event that denotes information that is only required for component-level debugging.
Info	Informative messages regarding a process.
Warning	All warning messages about normal events associated with a process.
Error	All errors encountered by a process.
Critical	All critical messages generated by a process.
Fatal	Fatal messages associated with a process that denote an error condition that should never happen and that results in the loss of functionality.
None	No information is logged.

Trace Level

This section of the Log Configuration screen enables you to configure trace-level logging for VXML 2.0 related logs. Enabling trace-level logging can create large files and should only be enabled when debugging or troubleshooting VXML 2.0 applications.

Table 18. Trace Level Parameters

Parameter	Description
Call Mgr Trace Level	Enables trace-level logging for all VXML 2.0 activities related to call management and processing.
Vxml 2.0 Trace Level	Enables trace-level logging for all VXML 2.0 activities.

Syslog Destination

This option determines where syslog information will be saved.

Table 19. Syslog Destination Parameters

Parameter	Description
Log Locally	Logs the syslog information to the message.log file on the IP Media Server.
Log Remotely	Logs the syslog information to a remote system. Enter the IP address of the remote system in the Remote IP Address field.

Gather System Information

This option creates the System Configuration Log for the current system. This information includes system and IP Media Server configuration information. Once you click **CREATE**, the log file is generated and the Web page is redirected to the log files page. This new log file can be downloaded and sent to Dialogic Technical Support to aid in debugging software issues.

Log Naming Convention

Logs are configured to rotate based on a size parameter that is set in the **LOG→CONFIGURE** command. The convention for naming log files is <log file name>.log.n where n is changed every time a new log file is started. The current log file being used does not have an n extension. For example, the following logs might be found on the system:

- ◆ sipd.log: the current sip log.
- ◆ sipd.log.1: the most recent sip log that was rotated.
- ◆ sipd.log.2: the next most recent sip log that was rotated.
-
-
-
- ◆ sipd.log.n: the sip log from n rotations ago, where n is the number of rotations.

Viewing and Downloading Logs

To view or download the log files, select **LOGS→LOG FILES** to display the Log Files page, which displays the available log files and the date/time they were last modified.

Dialogic
Making Innovation Thrive

Dialogic® IP Media Server

Log Files

DOWNLOAD

Log Name	Date	Size	View	Select
sipd.log	05/12/08 03:47 PM	1557864	VIEW	<input type="checkbox"/>
CMP.log.cmpsnp	05/12/08 03:47 PM	1196179	VIEW	<input type="checkbox"/>
vxmli2.0_health.log	05/12/08 03:46 PM	1457	VIEW	<input type="checkbox"/>
CMP.log.cmpdc	05/12/08 03:46 PM	385	VIEW	<input type="checkbox"/>
dms.log	05/12/08 03:46 PM	94704	VIEW	<input type="checkbox"/>
mserv.log	05/12/08 03:46 PM	155777	VIEW	<input type="checkbox"/>
audit.log	05/12/08 03:43 PM	15006	VIEW	<input type="checkbox"/>
sipd.log.1.gz	05/12/08 03:01 PM	17402	VIEW	<input type="checkbox"/>
snmpDaemon.log	05/12/08 02:46 PM	262	VIEW	<input type="checkbox"/>
CMP.log.callmgr.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>
CMP.log.vxmli.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>
CMP.log.vxmli	05/12/08 02:45 PM	1877	VIEW	<input type="checkbox"/>
CMP.log.pwproxy.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>

Figure 47. Log Files Page

To download a file or files:

- 1 Click the checkbox(es) next to the file(s) you want to download.
- 2 Click **DOWNLOAD** at the top of the page. The selected file(s) are compressed into a ZIP file and the File Download screen appears with the name of the ZIP file:

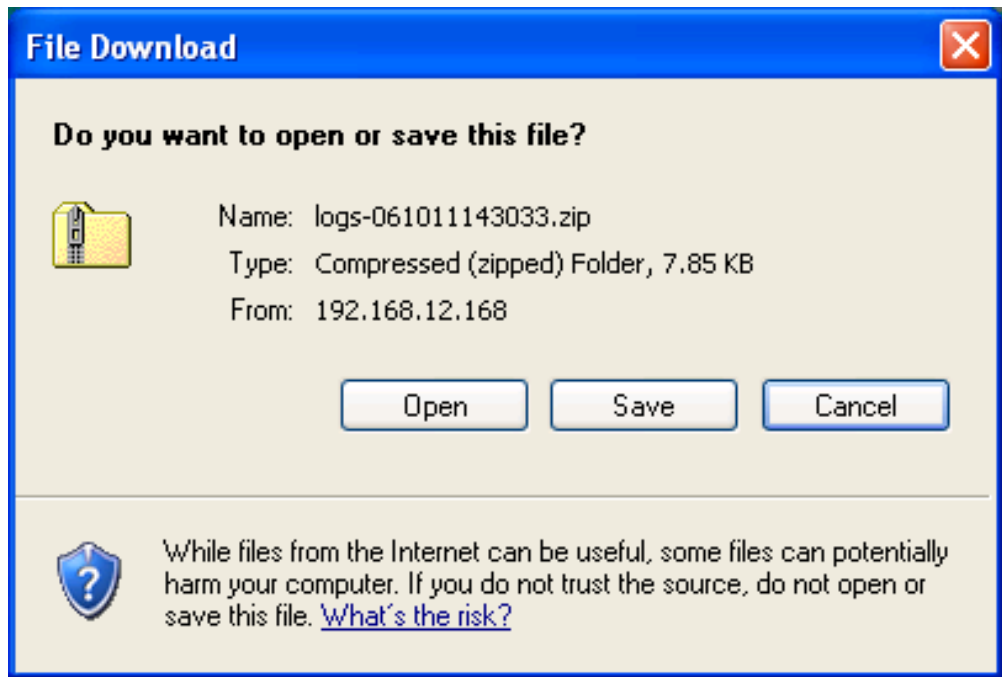


Figure 48. Downloading a Log File

3 Select the preferred action:

- ◆ Open - Displays the a window to enable you to manipulate the log files.
- ◆ Save - Displays a window to enable you to select a location to save the log file.

To view a log file:

1 Click the VIEW button for that file.

This displays the log file in the display frame of the Web User Interface. If a file is being viewed on the browser, the standard browser finds tools that can be used.

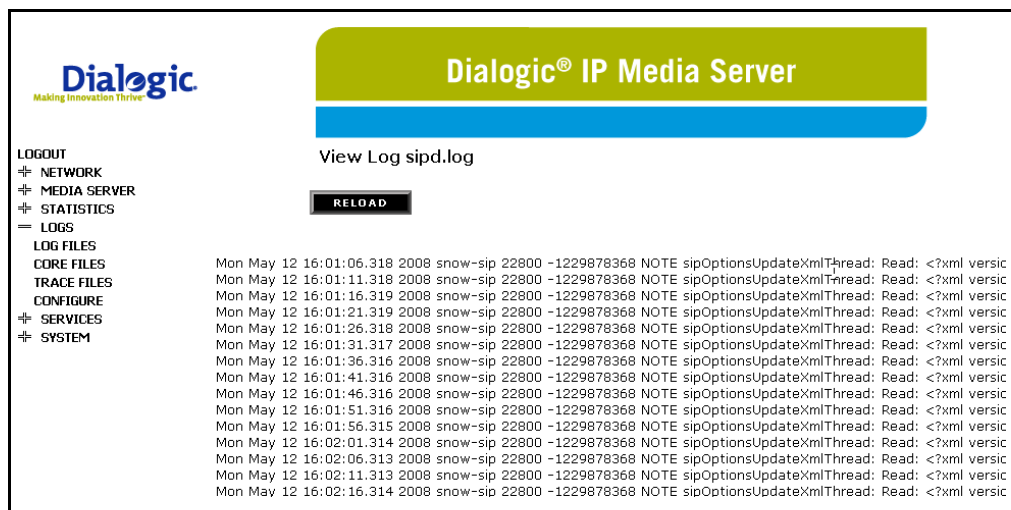


Figure 49. Viewing Log File

The audit log has a special table view:

Dialogic® IP Media Server

LOGOUT
 NETWORK
 MEDIA SERVER
 STATISTICS
 LOGS
 LOG FILES
 CORE FILES
 TRACE FILES
 CONFIGURE
 SERVICES
 SYSTEM

View Log audit.log

RELOAD

Date	Type	Name	Description	Value	Detail
05/12/08	INFORMATIONAL	AUDIT LOG	User Login	Successful	Detail
05/12/08	INFORMATIONAL	AUDIT LOG	User Login	Successful	Detail
05/12/08	INFORMATIONAL	AUDIT LOG	User Login	Successful	Detail
05/12/08	ALERT	AUDIT LOG	Interface Activation	eth1 activated	Detail
05/12/08	ALERT	AUDIT LOG	Interface Activation	eth1 activated	Detail
05/12/08	ERROR	AUDIT LOG	Invalid IP Address Entered	192.168.12.168.168	Detail
05/12/08	ALERT	AUDIT LOG	Netmask Entered	255.255.255.0	Detail

- 1 To view the details of an entry from the audit log file, click the **DETAIL** button for that entry.

Dialogic® IP Media Server

LOGOUT
 NETWORK
 MEDIA SERVER
 STATISTICS
 LOGS
 LOG FILES
 CORE FILES
 TRACE FILES
 CONFIGURE
 SERVICES
 SYSTEM

View Log audit.log Detail

Summary

Attribute	Value
Date	Monday May 12, 2008 (05/12/08) 09:11:20 EDT
Type	INFORMATIONAL
Name	AUDIT LOG
Description	User Login
Value	Successful
Username	admin
Password	none
Ip	10.128.41.16
Authentication Type	User/pass

Figure 50. Audit Log Detail Page

- 2 To search for a particular word or character string, use the browser Edit→Find dialog.



Figure 51. Searching in a Log File

Services Menu

The Services menu options provide commands for configuring the SNMP functionality. Under the IP Media Server implementation of SNMP, users can add traps, communities, and users.

Note: Only Administrators have the permissions to configure the SNMP utility.

SNMP Trap Hosts

In this screen, administrators can add and delete trap hosts for the IP Media Server.

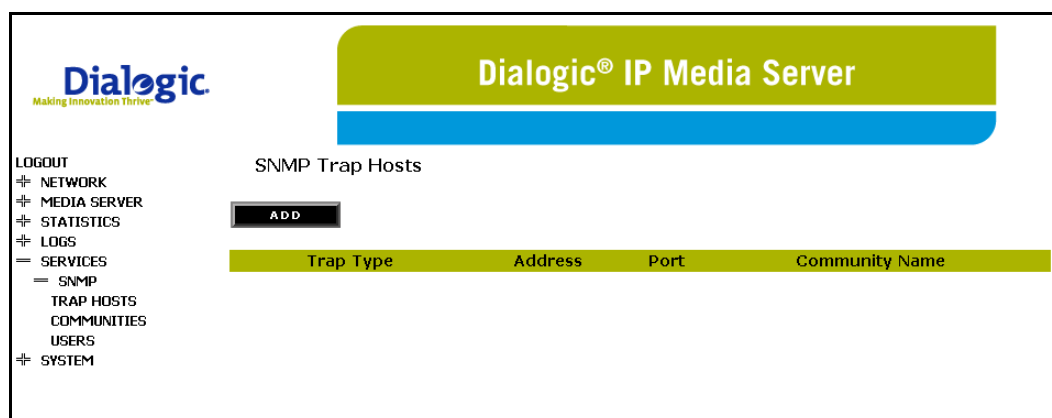


Figure 52. SNMP Trap Hosts Page

To add a new trap host:

- 1 Click ADD.

The Add SNMP Trap Host page appears.

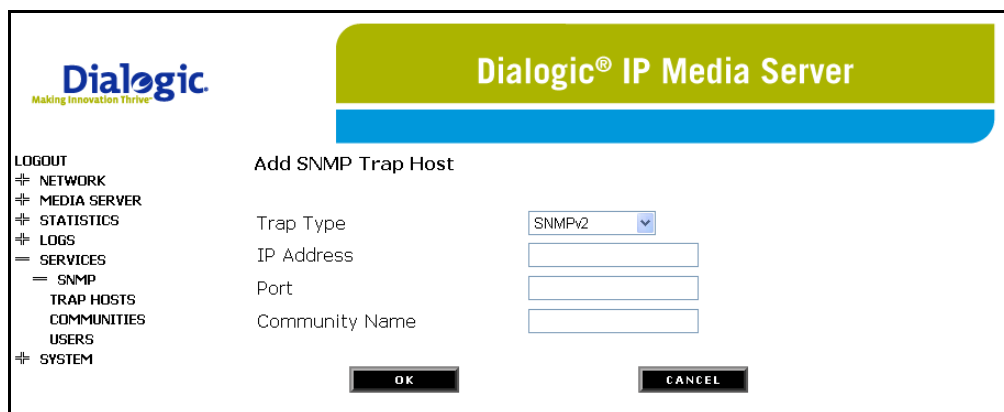


Figure 53. Add SNMP Trap Host Page

- 2 Select the trap type from the pull-down menu.

- 3 Enter the IP address.
- 4 Enter the Port and Community Name. These are optional. If not specified, the Port defaults to 162 and the Community defaults to Public.
- 5 Click OK. The next screen shows the new trap.

The screenshot shows the Dialogic IP Media Server web interface. On the left is a navigation menu with items: LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, SNMP, TRAP HOSTS, COMMUNITIES, USERS, and SYSTEM. The main content area is titled 'Dialogic® IP Media Server' and 'Add SNMP Trap Host'. It states 'The following Trap Host configuration has been added:' and lists the configuration details: Trap Type (SNMPv2), IP Address (1.1.0.2), Port (162), and User Name (public). A 'CONTINUE' button is located at the bottom of the configuration area.

Figure 54. Add SNMP Trap Host Confirmation Page

SNMP Communities

In this screen, administrators can add and delete SNMP Communities for the IP Media Server. You can use the SNMP Community Names to manage the System from either an SNMPv1 or SNMPv2c management level.

To add a read/write community:

- 1 Click on the SERVICES→SNMP→COMMUNITIES options in the menu to display the SNMP Communities screen.

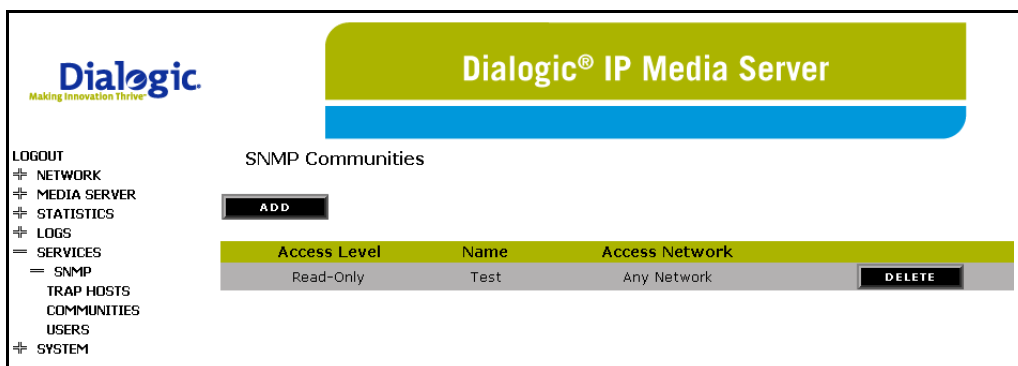


Figure 55. SNMP Communities Page

- 2 Click ADD to display the Add SNMP Community page.

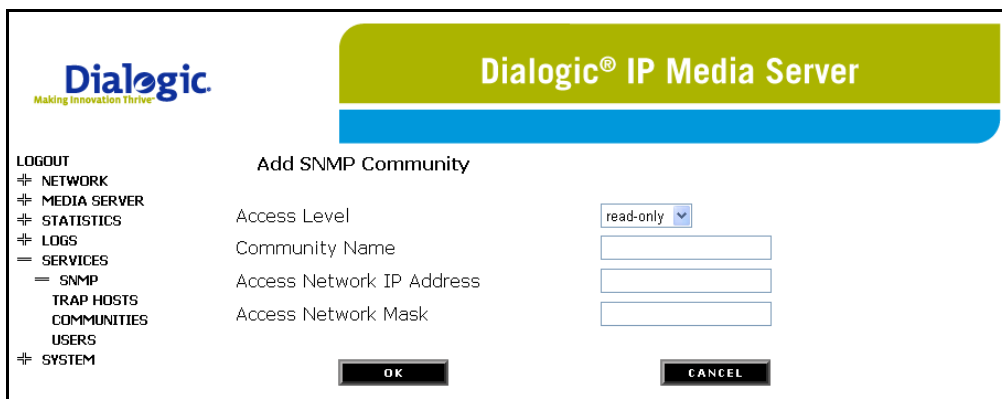


Figure 56. Add SNMP Community Page

- 3 Choose the access level as read-write.
- 4 Fill in the Community Name.
- 5 Leave the Access Network IP address and Access Network Mask fields blank.
- 6 Click OK when you are done. The following confirmation screen appears.

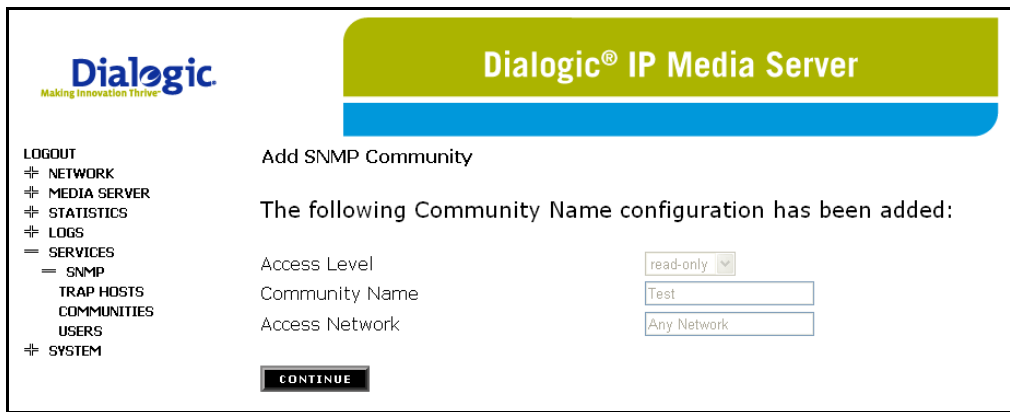


Figure 57. Add SNMP Community Confirmation Page

- 7 Click Continue to return to the SNMP Communities page.

SNMP Users

To add a read/write user:

- 1 Select the menu option SERVICES→SNMP→USERS to display the SNMP Users page.

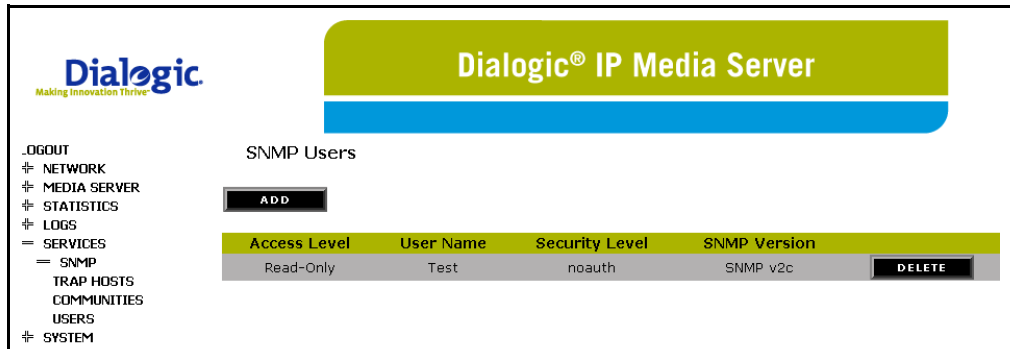


Figure 58. SNMP Users Page

- 2 Click ADD to display the ADD SNMP User page.

Dialogic
Making Innovation Thrive

Dialogic® IP Media Server

LOGOUT
 NETWORK
 MEDIA SERVER
 STATISTICS
 LOGS
 SERVICES
 SNMP
 TRAP HOSTS
 COMMUNITIES
 USERS
 SYSTEM

Add SNMPv3 User

Access Level: read-only

User Name:

Security Level: No Authentication

Authentication Password:

Confirm Password:

OK CANCEL

Figure 59. Add SNMP User Page

- 3 Select the access level from the pull-down menu.
The choices are: read-only [default] and read-write.
- 4 Enter the new user name.
- 5 Select the security level from the pull-down menu.
The choices are: No Authentication [default] and Authenticated.
- 6 If the user is authenticated, enter the password and confirm. Leave the password blank if the user is not authenticated.
- 7 Click OK to continue.

The following screen appears to confirm the user changes.

Dialogic
Making Innovation Thrive

Dialogic® IP Media Server

LOGOUT
 NETWORK
 MEDIA SERVER
 STATISTICS
 LOGS
 SERVICES
 SNMP
 TRAP HOSTS
 COMMUNITIES
 USERS
 SYSTEM

Add SNMPv3 User

The following User configuration has been added:

Access Level: read-only

User Name: test

Security Level: No Authentication

CONTINUE

Figure 60. Add SNMP User Confirmation Page

- 8 Click Continue to return to the SNMP Users page.

The Dialogic® IP Media Server Private MIB

The MIB Structure

The MIB (Management Information Base) structure in the IP Media Server is based on Net-SNMP. A private MIB gathers information about the IP Media Server and controls some of the functionality through SNMP. The IP Media Server supports SNMPv1, SNMPv2, and SNMPv3. Note that invalid values used in a set operation will result in an SNMP error.

Figure 61 shows the Dialogic® IP Media Server MIB tree structure.



Figure 61. MIB Tree Structure

MIB Definitions

The MIB Tree Structure Object IDs (OIDs) are described in Table 20:

Table 20. MIB OIDs

MIB	OID	Description
msReset	1.3.6.1.4.1.9234.5.1	Resets the IP Media Server. It supports the get and set operations. The valid set option is 1 (to reset the MS). The subagent resets the IP Media Server by performing an init 3 followed by an init 4, when set to 1. Upon reset, the value is reset to 0. When a get is performed, it always returns a 0.
msServiceUptime	1.3.6.1.4.1.9234.5.2.1.1.0	Time since the IP Media Server services was last re-initialized. It supports the get operation. The time is displayed in the following format: "0 day, 14 hours, 17 minutes". This value is the time the 'get' occurred, minus the time the system was initialized. This is the uptime of the IP Media Server.
msServiceLastReset	1.3.6.1.4.1.9234.5.2.1.2.0	Time since the IP Media Server was last restarted or reset. It supports the get operation. The time is displayed in the following format: "Thu May 12 12:19:23 2005".
msSipClearStats	1.3.6.1.4.1.9234.5.2.2.1.0	Clears the SIP statistics. It supports the get and set operations. The possible value for this to be set to is 1.
msSipCurrentCallCount	1.3.6.1.4.1.9234.5.2.2.2.0	Number of active calls. It only supports the get operation.
msSipNewCallsFlag	1.3.6.1.4.1.9234.5.2.2.3.0	Stops or enables calls on the IP Media Server. It supports the get and set operations. The possible values for this to be set to are 1 and 0.
msSipShutdownAllCalls	1.3.6.1.4.1.9234.5.2.2.4.0	Stops all calls on the IP Media Server. It supports the get and set actions. The possible value for this to be set to is 1.
msSipStatsLogging	1.3.6.1.4.1.9234.5.2.2.5.0	Stops or starts SIP stats logging on the IP Media Server. It supports the get and set operations. The possible values for this to be set to are 1 or 0. When this is set to 1, it turns on logging. If this is set to 0, this turns off logging.

Table 20. MIB OIDs (Continued)

MIB	OID	Description
msSipLowCallThreshold	1.3.6.1.4.1.9234.5.2.2.6.0	<p>Number of calls versus the maximum number of calls allowed. It supports the get and set operations. Its value is a percentage, and specifies the lower boundary. Valid values for the set operation range from 1 to 100. When the current call percentage exceeds this threshold, the msSipLowCallThreshold trap is sent. The current call volume (as a percent of the current call load versus the total licenses available) is compared to this threshold. This comparison is made every 30 seconds.</p> <p>When setting this value, use the following format: LowThreshold < MedThreshold < HighThreshold</p>
msSipMedCallThreshold	1.3.6.1.4.1.9234.5.2.2.7.0	<p>Number of calls versus the maximum number of calls allowed. It supports the get and set operations. Its value is a percentage, and specifies the medium boundary. Valid values for the set operation range from 1 to 100. When the current call percentage exceeds this threshold, the msSipMedCallThreshold trap is sent. The current call volume (as a percent of the current call load versus the total licenses available) is compared to this threshold. This comparison is made every 30 seconds.</p> <p>When setting this value use the following format: LowThreshold < MedThreshold < HighThreshold</p>
msSipHighCallThreshold	1.3.6.1.4.1.9234.5.2.2.8.0	<p>Number of calls versus the maximum number of calls allowed. It supports the get and set operations. Its value is a percentage, and specifies the upper boundary. Valid values for the set operation range from 1 to 100. When the current call percentage exceeds this threshold, the msSipHighCallThreshold trap is sent. The current call volume (as a percent of the current call load versus the total licenses available) is compared to this threshold. This comparison is made every 30 seconds.</p> <p>When setting this value use the following format: LowThreshold < MedThreshold < HighThreshold</p>

Table 20. MIB OIDs (Continued)

MIB	OID	Description
sipServiceOperStatus	1.3.6.1.4.1.9234.5.2.2.9.0	<p>Current health status of the sipd process. The possible values for this OID are:</p> <ul style="list-style-type: none"> ♦ up The application is operating normally, and is processing (receiving and possibly issuing) SIP requests and responses. ♦ down The application is currently unable to process SIP messages. ♦ quiescing The application is currently operational, but has been administratively put into quiescent mode. Additional inbound transactions are rejected. <p>This data is updated every 30 seconds.</p>
sipMethodStatsTable sipMethodStatsEntry sipStatsMethodIndex sipStatsMethodType sipStatsOutbounds sipStatsInbounds	1.3.6.1.4.1.9234.5.2.2.10 1.3.6.1.4.1.9234.5.2.2.10.1.1 1.3.6.1.4.1.9234.5.2.2.10.1.1.0 1.3.6.1.4.1.9234.5.2.2.10.1.2.0 1.3.6.1.4.1.9234.5.2.2.10.1.3.0 1.3.6.1.4.1.9234.5.2.2.10.1.4.0	<p>This table is indexed by sipStatsMethodIndex and sipStatsMethodType. This supports the get operation. This table is updated every 30 seconds.</p>
<p>"Req in" and "Req out" statistics for the following methods (INV, ACK, BYE, INFO, CANC, PRACK, OPTS, REFER, REG, Unknown) are packed in a table. For example: sipStatsMethodIndexsipStatsMethodTypesipOutResponsesipInResponse 1INV20 2ACK02</p>		
sipCodeStatsTable sipCodeStatsEntry sipStatsCodeIndex sipStatsCode sipStatsOutResponse sipStatsInResponse	1.3.6.1.4.1.9234.5.2.2.11 1.3.6.1.4.1.9234.5.2.2.11.1.1 1.3.6.1.4.1.9234.5.2.2.11.1.1.0 1.3.6.1.4.1.9234.5.2.2.11.1.2.0 1.3.6.1.4.1.9234.5.2.2.11.1.3.0 1.3.6.1.4.1.9234.5.2.2.11.1.4.0	<p>This table is indexed by sipStatsCodeIndex and sipStatsCode. This supports the get operation. This table is updated every 30 seconds.</p>
<p>"Req in" and "Req out" statistics for the following methods (1xx, 2xx, 3xx, 5xx, 6xx, IntErrs) are packed in a table. For example: sipCodeStatsTable sipStatsCodeIndexsipStatsCodesipOutResponsesipInResponse 11xx20 22xx02</p>		

Table 20. MIB OIDs (Continued)

MIB	OID	Description
msRtpLowCallThreshold	1.3.6.1.4.1.9234.5.2.3.1.0	<p>Number of calls versus the maximum number of calls allowed. It supports the get and set operations. Its value is a percentage, and specifies the lower boundary. Valid values for the set operation range from 1 to 100. When the current call percentage exceeds this threshold, the msRtpLowCallThreshold trap is sent. The current call volume (as a percent of the current call load versus the total licenses available) is compared to this threshold. This comparison is made every 30 seconds.</p> <p>When setting this value use the following format: LowThreshold < MedThreshold < HighThreshold</p>
msRtpMedCallThreshold	1.3.6.1.4.1.9234.5.2.3.2.0	<p>Number of calls versus the maximum number of calls allowed. It supports the get and set operations. Its value is a percentage, and specifies the medium boundary. Valid values for the set operation range from 1 to 100. When the current call percentage exceeds this threshold, the msRtpMedCallThreshold trap is sent. The current call volume (as a percent of the current call load versus the total licenses available) is compared to this threshold. This comparison is made every 30 seconds.</p> <p>When setting this value use the following format: LowThreshold < MedThreshold < HighThreshold</p>
msRtpHighCallThreshold	1.3.6.1.4.1.9234.5.2.3.3.0	<p>Number of calls versus the maximum number of calls allowed. It supports the get and set operations. Its value is a percentage, and specifies the upper boundary. Valid values for the set operation range from 1 to 100. When the current call percentage exceeds this threshold, the msRtpHighCallThreshold trap is sent. The current call volume (as a percent of the current call load versus the total licenses available) is compared to this threshold. This comparison is made every 30 seconds.</p> <p>When setting this value, use the following format: LowThreshold < MedThreshold < HighThreshold</p>
msVxmlNumberRecoveryFailures	1.3.6.1.4.1.9234.5.2.4.1.0	<p>Number of failures that have occurred while attempting to recover Media Content files. Setting to 0 clears it.</p>
msVxmlLastCriticalError	1.3.6.1.4.1.9234.5.2.4.2.0	<p>Last Critical level error received.</p>
msFeaturesPortsTotal	1.3.6.1.4.1.9234.5.2.5.1.1.0	<p>Number of licensed ports available on the IP Media Server.</p>

TRAP Definitions

Table 21. Trap OIDs and Descriptions

Trap	OID	Description
msResetChange	1.3.6.1.4.1.9234.5.3.1	The IP Media Server has been reset by SNMP. The following string is included in the trap message: "The IP Media Server Has Been Reset".
msSipLowCallThresholdMet	1.3.6.1.4.1.9234.5.3.2	The IP Media Server call percentage has exceeded the low threshold value. The following string is included in the trap message: "Low Call Threshold is Met, Call Volume at %d" (where %d is the current percent call volume).
msSipMedCallThresholdMet	1.3.6.1.4.1.9234.5.3.3	The IP Media Server call percentage has exceeded the medium threshold value. The following string is included in the trap message: "Med Call Threshold is Met, Call Volume at %d" (where %d is the current percent call volume).
msSipHighCallThresholdMet	1.3.6.1.4.1.9234.5.3.4	The IP Media Server call percentage has exceeded the high threshold value. The following string is included in the trap message: "High Call Threshold is Met, Call Volume at %d" (where %d is the current percent call volume).
msRtpLowCallThresholdMet	1.3.6.1.4.1.9234.5.3.5	The IP Media Server call percentage has exceeded the low threshold value. The following string is included in the trap message: "Low Call RTP Threshold is Met, Call Volume at %d" (where %d is the current percent call volume).
msRtpMedCallThresholdMet	1.3.6.1.4.1.9234.5.3.6	The IP Media Server call percentage has exceeded the medium threshold value. The following string is included in the trap message: "Med Call RTP Threshold is Met, Call Volume at %d" (where %d is the current percent call volume).
msRtpHighCallThresholdMet	1.3.6.1.4.1.9234.5.3.7	The IP Media Server call percentage has exceeded the high threshold value. The following string is included in the trap message: "High Call RTP Threshold is Met, Call Volume at %d" (where %d is the current percent call volume).
msVxmlRecoveryFailureOccurred	1.3.6.1.4.1.9234.5.3.8	An attempt to recover a recorded media content file has failed.
msVxmlCriticalError	1.3.6.1.4.1.9234.5.3.9	A critical level error has occurred in a VXML application. Contains the text of msVxmlLastCriticalError.

SNMP MIB-II

The IP Media Server supports SNMPv2 and SNMPv3 agent operation and includes the following Management Information Bases (MIBs) and all their specified managed objects:

RFC 1213 MIB-II

- ◆ system
- ◆ interface
- ◆ ip
- ◆ icmp
- ◆ tcp
- ◆ udp
- ◆ snmp

RFC 1907 SNMPv2

`snmpTRAP-coldStart, authenticationFailure`

Unsupported OIDs

The following OIDs are not supported on the IP Media Server as part of the SNMP MIB-II specification.

System Group

- ◆ sysServices

Interfaces Group

- ◆ ifInUnknownProtos
- ◆ ifOutNUcastPkts

IP Group

- ◆ ipRouteMetric2
- ◆ ipRouteMetric3
- ◆ ipRouteMetric4
- ◆ ipRouteAge
- ◆ ipRouteMetric5

System Menu

The SYSTEM menu contains commands for:

- ◆ Changing Administrator Password
- ◆ Configuring the Clock
- ◆ Backing Up and Restoring Configurations
- ◆ Managing Licenses
- ◆ Managing Certificates
- ◆ Rebooting the Host
- ◆ Resetting the Dialogic® IP Media Server
- ◆ Shutting Down the Host
- ◆ Updating Software
- ◆ Administering Users

These menu items are described in the following sections.

System Home Page

When the System menu is selected, the IP Media Server home page appears with updated status information (see “Web UI Home Page” (page 46)).

The screenshot shows the Dialogic IP Media Server System Home Page. On the left is a navigation menu with options: LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, SYSTEM (selected), CHANGE PASSWORD, CLOCK, CONFIG FILES, LICENSE, MANAGE CERTIFICATES, REBOOT HOST, RESET MEDIA SERVER, SHUTDOWN HOST, SOFTWARE UPDATES, and USER ADMINISTRATION. The main content area has a green header with the Dialogic logo and 'Dialogic® IP Media Server'. Below the header, it displays system status: Host Uptime: 1 hours, 43 minutes; Media Server Uptime: 01 hours, 41 minutes, 15 seconds; Current Time: May 12, 2008 16:26:26 EDT. A table lists installed images:

Installed Image	Version	Release	Date Installed
SNOWG2PKG	2.4.0	080510A.EL4.0	May 12, 2008 02:38:27 EDT
VoiceGenie	EL40_7.0.12	1	May 12, 2008 02:47:49 EDT

Figure 62. System Home Page

Changing Administrator Password

Note: Passwords are case sensitive.

To change the password of the account you are currently logged in on:

- 1 Select the **SYSTEM**→**CHANGE PASSWORD** command to display the Change Password page:

The screenshot shows the 'Change User Password' interface. On the left is a navigation menu with the following items: LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, SYSTEM, CHANGE PASSWORD, CLOCK, CONFIG FILES, LICENSE, MANAGE CERTIFICATES, REBOOT HOST, RESET MEDIA SERVER, SHUTDOWN HOST, SOFTWARE UPDATES, and USER ADMINISTRATION. The main content area has a title bar 'Dialogic® IP Media Server' and a sub-header 'Change User Password'. Below this, there are three input fields: 'Username' with the value 'admin', 'New Password', and 'Retype New Password'. At the bottom of the form are two buttons: 'OK' and 'CANCEL'.

Figure 63. Change Password Page

- 2 Enter your current password.
- 3 Enter a new password.
- 4 Confirm your new password.
- 5 Click OK to make the change.

Configuring the Clock

Note: Only Administrators have access to the **CLOCK** command.

The system has an internal clock, but it can also be configured to source its clock from a network time protocol (NTP) server.

- ◆ If NTP is enabled, the system immediately starts using the NTP server.
- ◆ If NTP is not enabled, you can set the current system time, date, and time zone.

Note: The use of an NTP server across all servers in your network is strongly recommended, as it ensures that time and date stamps will be consistent and comparable across the network. This helps considerably when troubleshooting the IP Media Server.

To configure an NTP server:

- 1 Select **CLOCK** from the **SYSTEM** menu to display the Clock page.

Figure 64. Clock Page

- 2 Check Enable NTP.
- 3 Enter the IP address of one or more NTP servers.

Note: You can configure up to three NTP servers.

Any changes take effect when you select OK.

The changes can be cancelled by clicking CANCEL.

Backing Up and Restoring Configurations

The system provides the ability to back up all the configuration parameters. The backup files are stored together in a tar file and can be downloaded to another location on the network. The configuration can also be restored from a previously saved backup of the system.

Note: Only Administrators can create and delete backup configurations. All users can download a configuration.

To access the configuration backup services:

- 1 Select SYSTEM→CONFIG FILES to display the Config Files page.

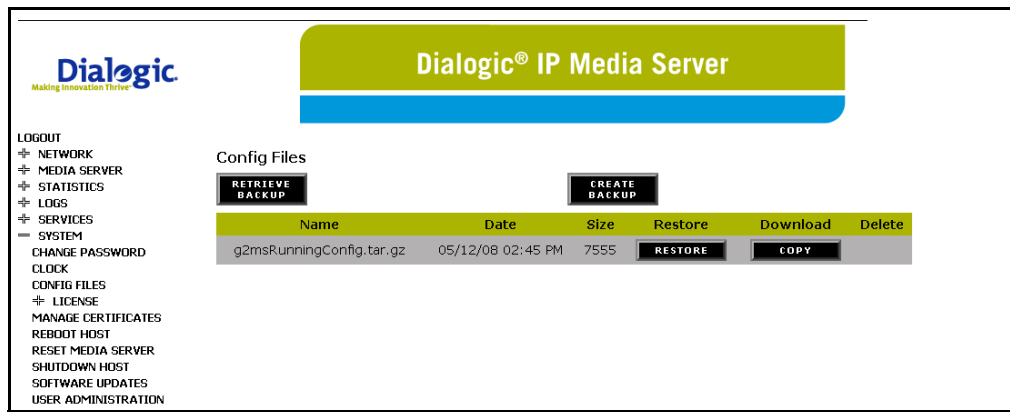


Figure 65. Config Files Page

The Config Files page contains a list of currently backed-up configurations, as well as the currently running configuration.

Note: The running configuration is saved each time the host reboots or the IP Media Server is reset. It is called `g2mRunningConfig.tar.gz`.

VXML 2.0 configuration files are included when you save the configuration.

From the Config Files page you can perform several configuration file actions:

- ◆ Back up configurations
- ◆ Delete a stored backup
- ◆ Download a stored backup configuration
- ◆ Restore a backed-up configuration.

Backup Current Configurations

To back up the current set of configuration files:

- 1 Click **CREATE BACKUP**.

This action makes a copy the current configuration files (which are not necessarily identical to the running configuration) and creates a backup copy. The name of the backup is based on the date and time the backup was created. It is similar to:

`g2msbackup.20050701114510.tar.gz`

which is a backup file created on July 01, 2005 at 11:45:10.

Delete a Stored Backup

To delete a stored backup configuration:

- 1 Click the **DELETE** button beside the file name.

This action must be confirmed or cancelled. The backup of the running configuration cannot be deleted.

Download a Stored Backup Configuration

To download a stored backup configuration to another location:

- 1 Click the **DOWNLOAD** button beside the file name.

A standard file dialog appears, giving you the option of opening or saving the file.

- 2 Click **SAVE** and select the directory where the configuration file is saved.

Restore a Backed-up Configuration

Note: Only Administrators can restore a configuration.

To restore a previously backed up configuration:

- 1 Click the **RESTORE** button beside the backup file name to display the Restore Config Backups page:

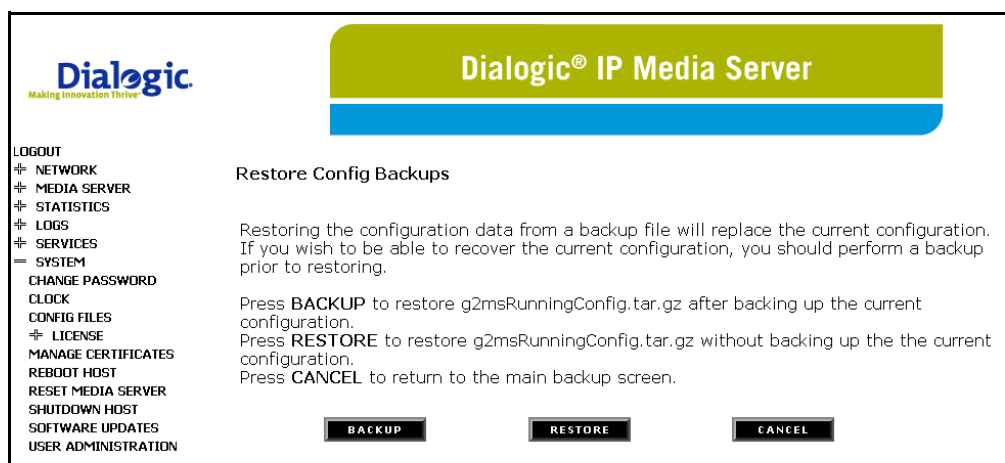


Figure 66. Restore Config Backups Page

There are two types of restorations available:

- ♦ **Backup**—Creates a copy of the current configuration files and then replaces them with the selected backup configuration.
- ♦ **Restore**—Overwrites the current configuration files with the selected backup configuration, but does not create a copy of the current configuration.

You can also cancel the restore action by clicking **CANCEL**.



Restoring the configuration data from a backup file can replace the current configuration. If you wish to be able to recover the current configuration, you should perform a backup prior to restoring.



Restoring a configuration updates the configuration files, but does not affect the currently running configuration. The host must be rebooted for the restored configuration to take effect.

Managing Licenses

You use the IP Media Server Web UI to install and activate IP Media Server licenses, and to view the current status of licenses on your system. For detailed information on managing licenses, see the *Dialogic IP Media Server License Activation Guide*.

To manage licenses, select the **SYSTEM**→**CONFIG FILES**→**LICENSE** menu item. This displays the License Status page, which contains information about the currently active license.

The screenshot shows the Dialogic IP Media Server web interface. The top left features the Dialogic logo with the tagline 'Making Innovation Thrive'. The top right has a green header with 'Dialogic® IP Media Server'. A navigation menu on the left lists various system options, with 'LICENSE' selected under the 'SYSTEM' category. The main content area is titled 'License Status' and contains a table with the following data:

Application	Node ID	Serial Number	License Version	Date Issued	Expiration Date	Status
MediaServer	8Q2KTPEZY8Q1FOZ5XD748Q	231538-1-727707: 1069	1.0	17-Oct-2005	permanent	Valid

Figure 67. License Status Page

To view the features currently licensed on your system, and statistics about their usage, select the **SYSTEM**→**CONFIG FILES**→**LICENSE**→**FEATURES** menu to display the License Features page:

Dialogic® IP Media Server

LOGOUT
 + NETWORK
 + MEDIA SERVER
 + STATISTICS
 + LOGS
 + SERVICES
 = SYSTEM
 CHANGE PASSWORD
 CLOCK
 CONFIG FILES
 = LICENSE
 FEATURES
 INSTALL
 NODE ID
 STATUS
 MANAGE CERTIFICATES
 REBOOT HOST
 RESET MEDIA SERVER
 SHUTDOWN HOST
 SOFTWARE UPDATES
 USER ADMINISTRATION

Licensed Features

Feature	Current	Peak
ports	0	0
mrcp	0	0
g726	0	0
g729	0	0
h263	0	0
h264	0	0
amr	0	0
t38	0	0

STOP AUTO-REFRESH

Figure 68. Licensed Features Page

To activate and install a license, use the NODE ID and INSTALL menus. For detailed information on using them, see the *License Activation Guide*.

Managing Certificates

The Dialogic® IP Media Server Web User Interface can operate with HTTP or HTTPS. If HTTPS is being used, a padlock appears at the bottom right in the browser display. If HTTP is being used, a padlock does not appear.

To use HTTPS, the Dialogic® IP Media Server must have a server certificate and key, and the browser must have the matching client certificate.

A user-generated security certificate and key can be installed on the Dialogic® IP Media Server. The Web UI uses this certificate/key for HTTPS authentication.

To retrieve a certificate/key:

- 1 Select SYSTEM→MANAGE CERTIFICATES to display the manage Certificates page:

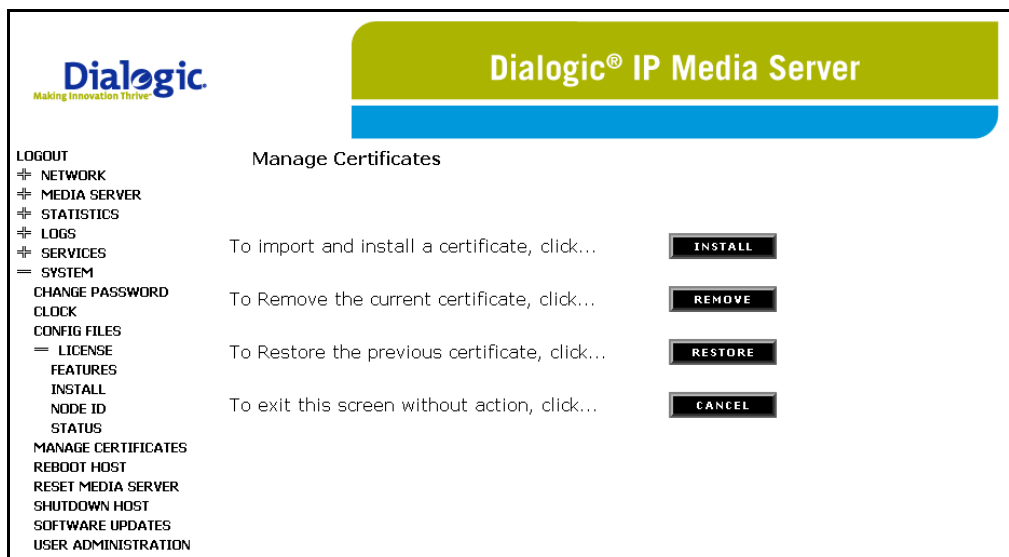


Figure 69. Manage Certificates Page

This page provides the following options:

- ♦ **INSTALL:** Imports a certificate and key from a remote server and installs it on the Dialogic® IP Media Server .
- ♦ **REMOVE:** Removes the current certificate from the Dialogic® IP Media Server .
- ♦ **RESTORE:** Restores the previous certificate to the Dialogic® IP Media Server .
- ♦ **CANCEL:** Does nothing and returns to the system splash screen.

Installing a Certificate

When you click **INSTALL**, a certificate and key can be retrieved from a remote server using FTP or NFS. Enter the parameters for the FTP or NFS server that holds the certificates and keys. The Dialogic® IP Media Server attempts to access the server, and then displays the available certificates (.crt files) for retrieval. Only certificate files (<filename>.crt) are shown, but there must also be a matching valid key (<filename>.key) present for the certificate in order for the certificate to be displayed in the Web UI. The certificate and the key must have the same name with the appropriate file extension (xx.crt and xx.key). You can navigate through the directory structure, but the window only displays directories and certificates.

To install a certificate:

- 1 On the Manage Certificates page, click **INSTALL** to display the Install Certificates page:

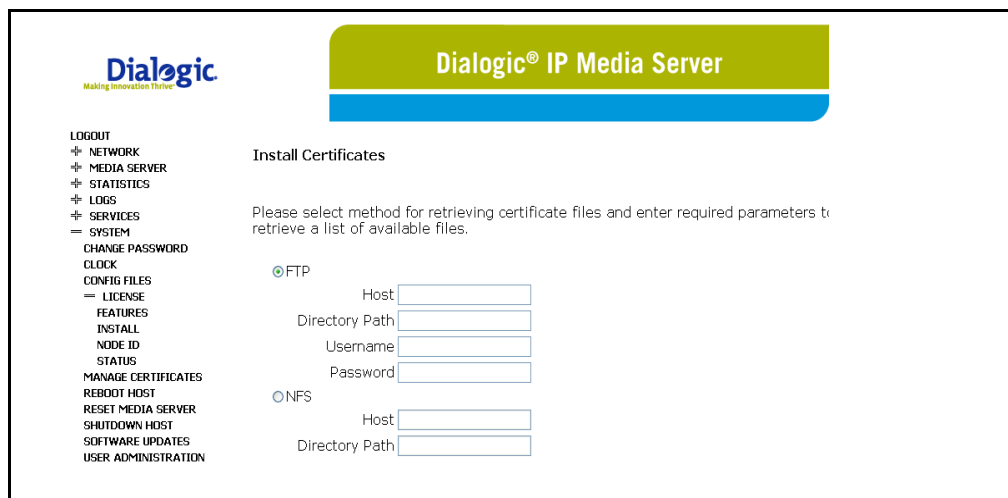


Figure 70. Install Certificate Page

- 2 Click OK to install the certificate and display the results of the installation.
 - ◆ If the installation is successful, the previous certificate (if there is one) is saved and the Web UI begins using the new certificate as soon as you click Continue.
 - ◆ If the installation is not successful an error appears and the update of the certificate does not take place. The certificate is not kept for installation in the future.

Click **CANCEL** to exit the screen and return to the system home page. If you click **CANCEL**, the command is terminated and the certificate is not installed. The certificate is not kept for installation in the future. To install it, it needs to be retrieved again.

Removing a Certificate

To remove the current certificate:

- 1 On the Manage Certificates page, click **REMOVE** to remove the current certificate and key from the system and save them.

The Remove Certificate page is displayed to confirm the removal:

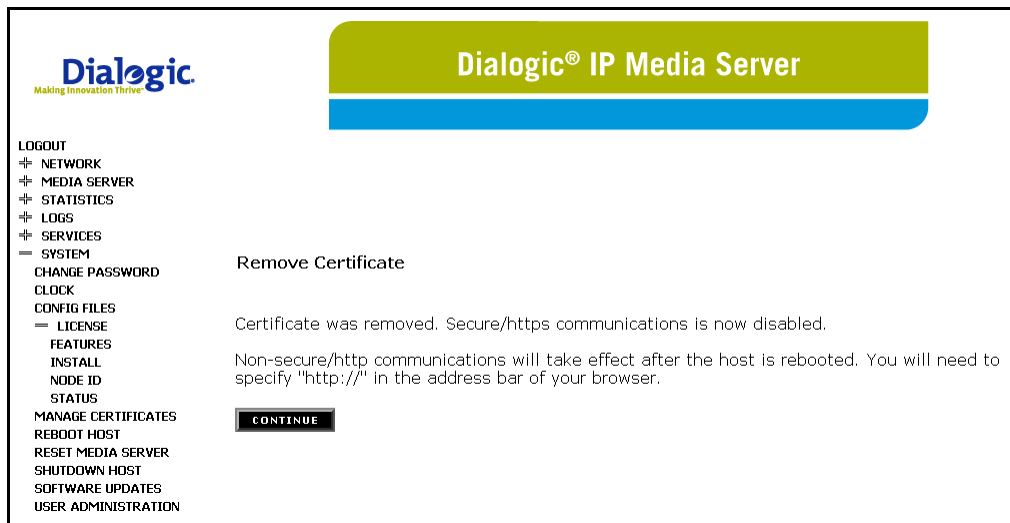


Figure 71. Remove Certificate Page

The Web User Interface now uses HTTP when the CONTINUE button is clicked. The padlock icon at the bottom of the browser display disappears when the screen is next refreshed.

Restoring a Certificate

On the Manage Certificates page, click the RESTORE button to put the previous certificate (if there is one that has been removed or overwritten) back on the system. The Web User Interface uses HTTPS when the CONTINUE button is clicked. The padlock icon at the bottom of the browser display appears when the screen is refreshed.

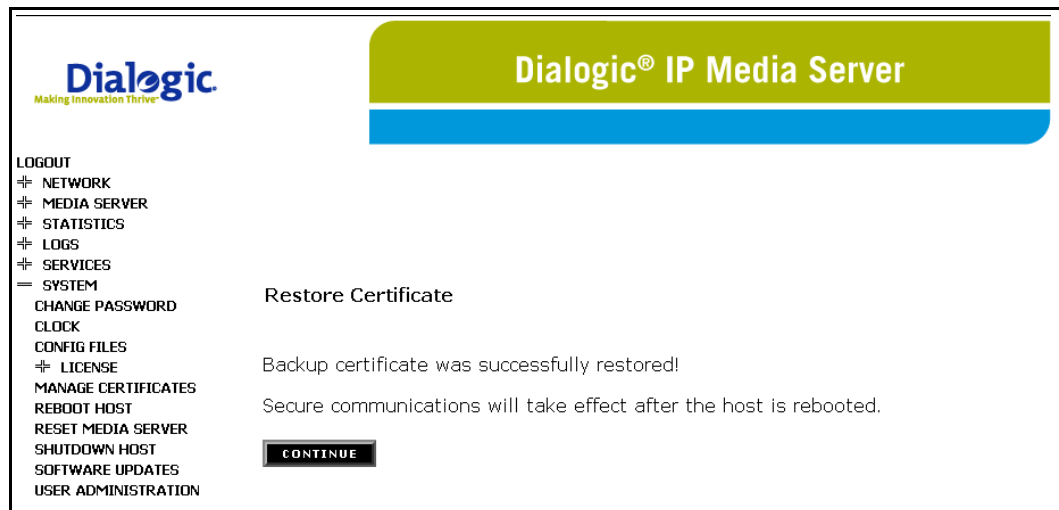


Figure 72. Restore Certificate Page

Rebooting the Host

Rebooting the host causes all applications to stop and the operating system to reboot. After rebooting, the system reads and uses the configuration files for all services and interfaces. This action causes all traffic to be dropped and all existing sessions to be disconnected.

Note: Only Administrators can reset the Dialogic® IP Media Server .



Rebooting the host results in the loss of all existing sessions.

To reset the Dialogic® IP Media Server :

- 1 Select REBOOT HOST from the SYSTEM menu to display the Reboot Host page.



Figure 73. Reboot Host Page

- 2 Click Clear HTTP Cache if you wish to delete all stored IP Media Server pages.
- 3 Click OK to reboot the IP Media Server host. Click Cancel to continue without rebooting.

When the action is complete, you are returned to the IP Media Server home page.

Resetting the Dialogic® IP Media Server

This command causes the Dialogic® IP Media Server application to reset and restart itself, but does not reboot the host.

Note: Only Administrators can reset the Dialogic® IP Media Server .



Resetting the IP Media Server results in the loss of all existing sessions.

To reset the Dialogic® IP Media Server :

- 1 Select RESET MEDIA SERVER from the SYSTEM menu to display the Reset Media Server page.



Figure 74. Reset Media Server Page

- 2 Click Clear HTTP Cache if you wish to delete all stored IP Media Server pages.
- 3 Click OK to reset the IP Media Server. Click Cancel to continue without resetting the IP Media Server.

When the action is complete, you are returned to the IP Media Server home page.

Shutting Down the Host

Shutting down the host stops all applications and the operating system. This action causes all traffic to be dropped and all existing sessions to be disconnected.

Note: Only Administrators can shut down the Dialogic® IP Media Server .



Shutting down the host results in the loss of all existing sessions.

To shut down the Dialogic® IP Media Server :

- 1 Select SHUTDOWN HOST from the SYSTEM menu to display the Shutdown Host page.



Figure 75. Shutdown Host Page

- 2 Click Clear HTTP Cache if you wish to delete all stored IP Media Server pages.
- 3 Click OK to shut down the IP Media Server host. Click Cancel to continue without shutting down.

Updating Software

You can download and upgrade the Dialogic® IP Media Server software from a remote location. The software releases are digitally signed by Dialogic and contain checksums to ensure the files are not corrupted during the download process.

Note: Only Administrators have access to the software updates menu.

Releases can be downloaded from any ftp server. Releases can be obtained from the Dialogic Technical Support web site. This requires a user name, password, and directory, which can be obtained from Dialogic Technical Support.

To download a release and upgrade a system:

- 1 Download the desired release to the system using the Retrieve command.
Performs download over ftp, and the Retrieve command checks to ensure the software release was downloaded successfully.
- 2 Using the Install command, select the release you want to install.
Saves the existing release, and installs the new release. Installing a new release of software causes the host to reboot.

Displaying the Releases Available on the System

- 1 Select SOFTWARE UPDATES from the SYSTEM menu to display the Software Updates page:

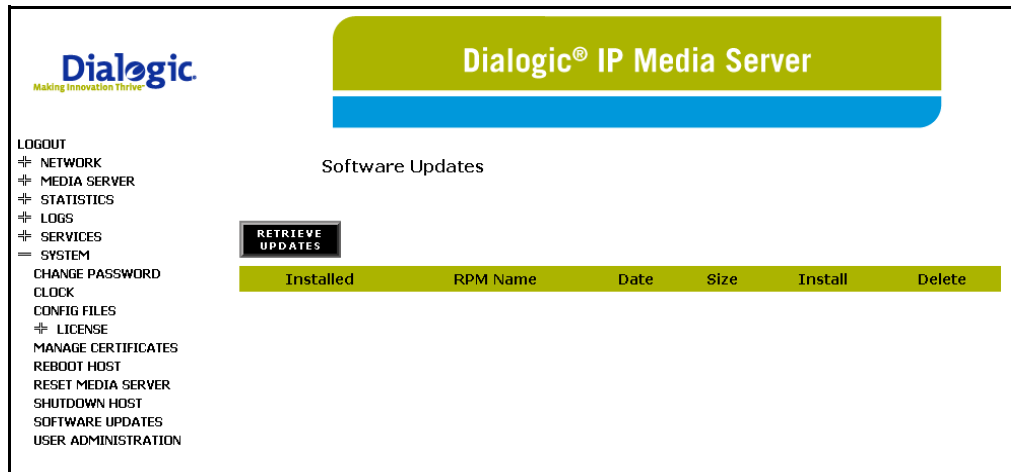


Figure 76. Software Updates Page

- 2 Click Retrieve Updates to display the Retrieve Updates page.

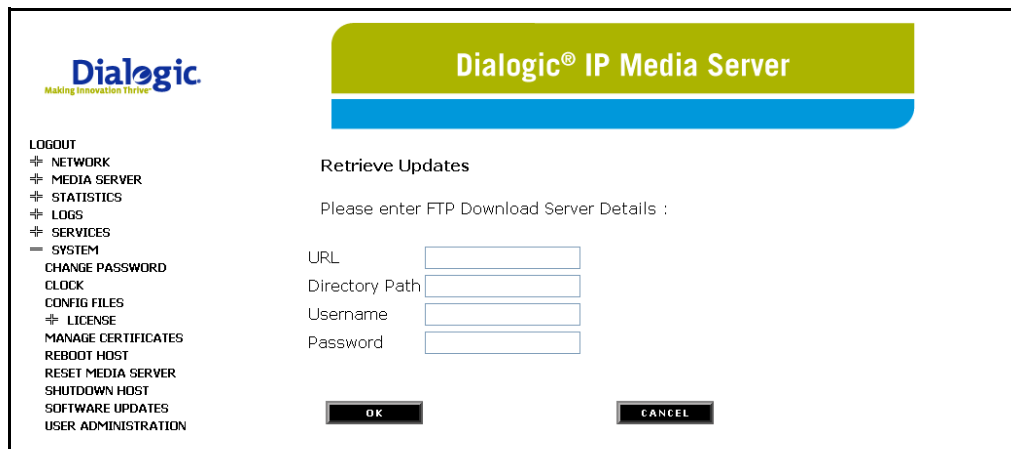


Figure 77. Retrieve Updates Page

- 3 Enter the location of updates for the IP Media Server and your login name and password. The Results page displays.

If you leave the Directory Path blank, the Results page includes all accessible directories on the RTP server. Updates that are currently on your computer are indicated with a checkmark in the folder icon on the left.

If necessary, navigate to the appropriate subdirectory to display the list of available updates.

- 4 Click Retrieve to download the update to your computer. The display returns to the Software Updates page, with the new update included in the list.
- 5 To install a new software update, click Install. This displays the Confirm Software Update page.
- 6 Click OK to complete the installation of the new software. The Software Update page is again displayed with a checkmark next to the newly installed software.

Viewing the Running Release

To display the current release on the system and when it was installed:

- 1 Click **SYSTEM** to display the system home page, which shows the running software release:

The screenshot shows the Dialogic IP Media Server interface. On the left is a navigation menu with options like LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, SYSTEM, CHANGE PASSWORD, CLOCK, CONFIG FILES, LICENSE, MANAGE CERTIFICATES, REBOOT HOST, RESET MEDIA SERVER, SHUTDOWN HOST, SOFTWARE UPDATES, and USER ADMINISTRATION. The main area displays system status: Host Uptime: 1 hours, 43 minutes; Media Server Uptime: 01 hours, 41 minutes, 15 seconds; Current Time: May 12, 2008 16:26:26 EDT. Below this is a table of installed software releases.

Installed Image	Version	Release	Date Installed
SNOWG2PKG	2.4.0	080510A.EL4.0	May 12, 2008 02:38:27 EDT
VoiceGenie	EL40_7.0.12	1	May 12, 2008 02:47:49 EDT

Figure 78. Running Software Release

Retrieving a Software Release

The FTP server stores the software releases. When it is accessed, a list of valid software releases appears and a RETRIEVE button appears for each release. The Installed column to the left of the release name contains a check mark if the release has already been downloaded to the system. If the Installed column is blank, the release has not been downloaded.

The window directories are also displayed and have a file folder icon to their left. You can navigate through the directory structure, but only other directories and IP Media Server releases are shown.

Click **RETRIEVE UPDATES** to download the selected software release to the IP Media Server. The standard FTP transfer progress dialog appears and gives information about the success and failure of the download.

To retrieve a software release and download it (without installing it):

- 1 On the Software Updates page, click RETRIEVE UPDATES to display the Retrieve Updates page:

The screenshot shows the 'Dialogic® IP Media Server' interface. On the left is a sidebar menu with options: LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, SYSTEM, CHANGE PASSWORD, CLOCK, CONFIG FILES, LICENSE, MANAGE CERTIFICATES, REBOOT HOST, RESET MEDIA SERVER, SHUTDOWN HOST, SOFTWARE UPDATES, and USER ADMINISTRATION. The main area is titled 'Retrieve Updates' and prompts the user to 'Please enter FTP Download Server Details :'. It includes four text input fields for 'URL', 'Directory Path', 'Username', and 'Password'. At the bottom of the form are two buttons: 'OK' and 'CANCEL'.

Figure 79. Retrieving Software from an FTP Server

- 2 Enter the URL of the FTP server.
- 3 Enter the directory path (optional).
- 4 Enter user name.
- 5 Enter Password.
- 6 Click OK to have the system attempt to access the specified user on the FTP server.

Click CANCEL to return you to the Software Updates page.

Note: You can use any FTP server to store the software releases.

Installing a New Software Release

To install a new software release on the system:

- 1 Click the INSTALL button beside the release.

The screen displays the currently running release and asks you to confirm that you want to install the selected release. Select Confirm to install the new release and reboot the system.



Installing a new release reboots the host.

To remove a software release from the system:

- 1 Click the DELETE button beside the release to be deleted.

-
- 2 Click confirm to confirm the deletion, or click Cancel to stop.

Note: Deleting a software release does not affect the currently running system. It continues to operate and use the same release when reset.

Administering Users

The IP Media Server supports two access levels:

- ◆ Administrator—Can change the configuration of the system and execute administrative tasks.
- ◆ Operator—Can monitor the system, but cannot change configurations or execute administrative tasks.

Commands that are only available to Administrators are noted as such. All other commands are usable by both operators and administrators.

Note: Only Administrators can perform user administration.

Use the **SYSTEM→USER ADMINISTRATION** command to display the User Administration page, which contains the currently configured users on the system. Administrators can add, delete, and change the attributes of other users.

The attributes are:

- ◆ password
- ◆ access level

The screenshot shows the 'User Administration' page in the Dialogic IP Media Server interface. On the left is a navigation menu with options like LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, and SYSTEM. The main content area has a title 'Dialogic IP Media Server' and a 'User Administration' section. An 'ADD USER' button is present above a table of users. The table has columns for User Name, Access Level, Change Password, Edit, and Delete. The 'pw' user has 'EDIT' and 'DELETE' buttons, while others only have 'CHANGE PASSWORD' buttons.

User Name	Access Level	Change Password	Edit	Delete
admin	administrator	CHANGE PASSWORD		
maint	administrator	CHANGE PASSWORD		
pw	administrator	CHANGE PASSWORD	EDIT	DELETE
snow	administrator	CHANGE PASSWORD		

Figure 80. User Administration Page

Adding a User

To add a new user:

- 1 Click ADD USER to display the Add User page.

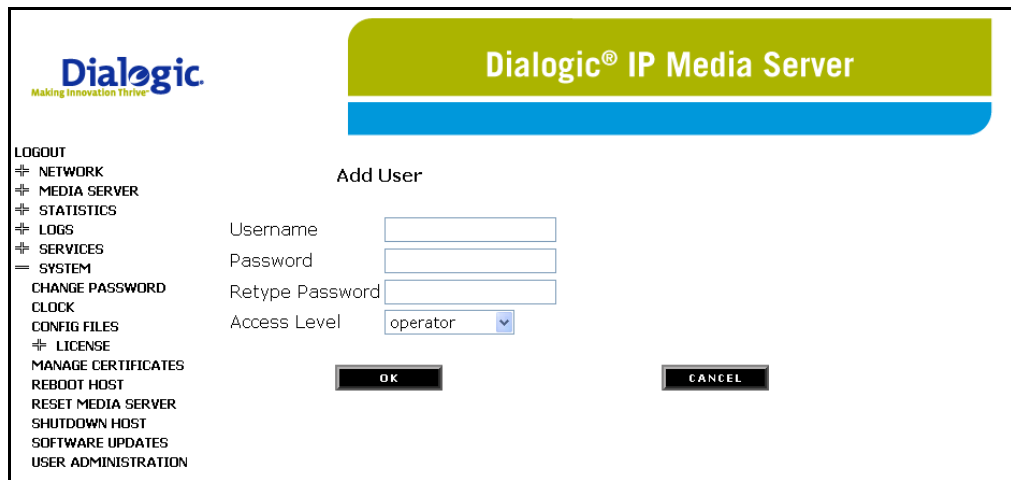


Figure 81. Add User Page

- 2 Fill in the following:

- ◆ Username
- ◆ Password
- ◆ Access level

Note: User names and passwords are case sensitive.

- 3 To complete the action, click OK.

To cancel the action, click CANCEL.

Deleting a User

To delete a user (Administrator only):

- 1 Click the DELETE button beside the user name.

A new screen appears to verify the change.

- 2 Click OK to delete the user. Click CANCEL to cancel.

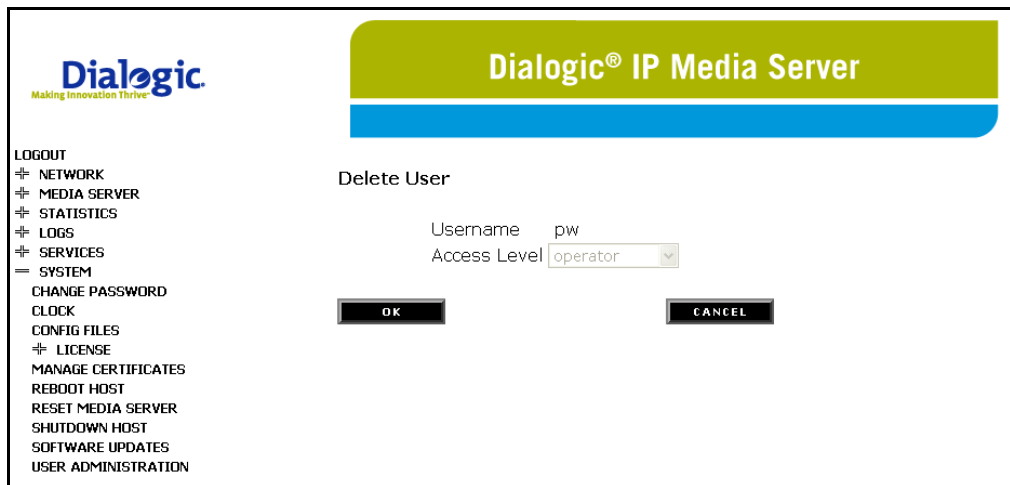


Figure 82. Delete User Page

Resetting a Password

To reset the password of any other user, do the following:

- 1 Click the CHANGE PASSWORD button beside the user name to display the Change User Password page.

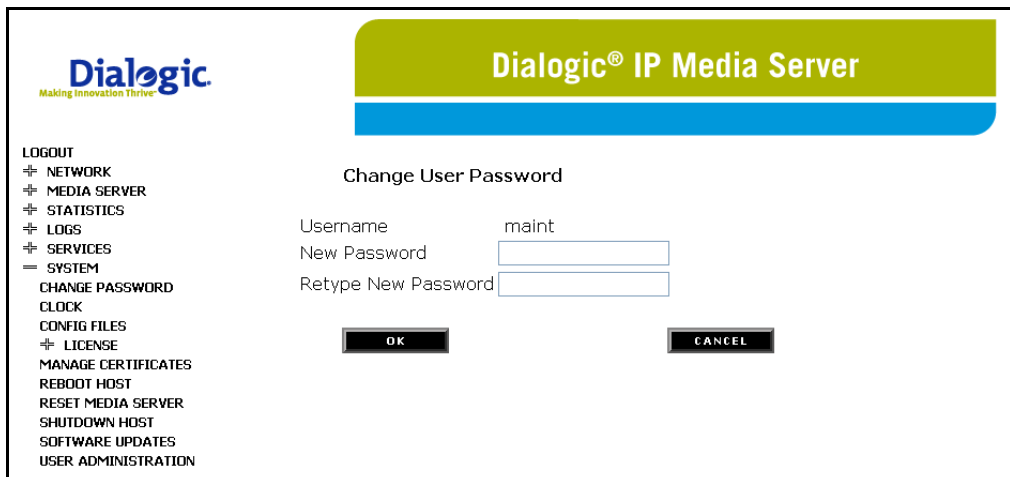


Figure 83. Change User Password Page

- 2 Enter a new password.
- 3 Confirm the new password.
- 4 Click OK to accept.

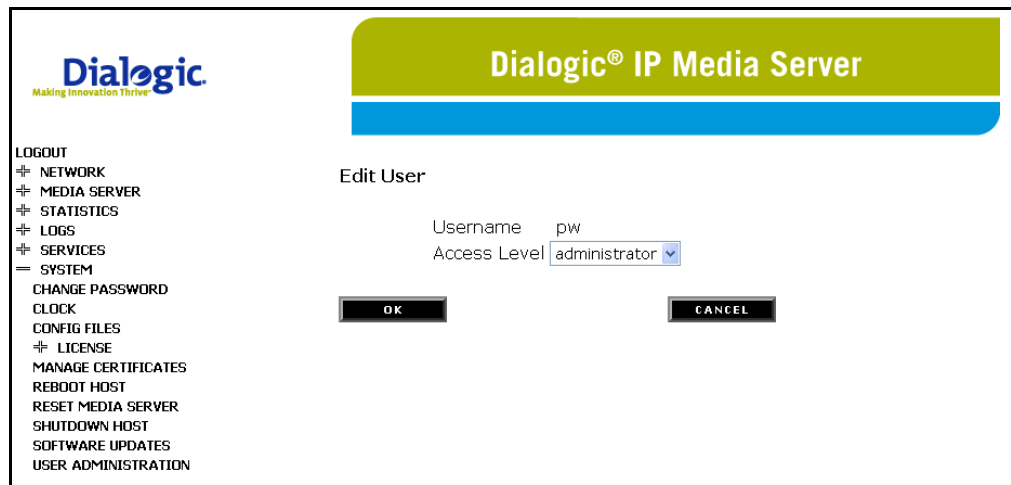
Click CANCEL to cancel the change.

Note: As Administrator, you cannot change your own password or delete your own username in USER ADMINISTRATION. You can change your password using the SYSTEM→CHANGE PASSWORD command.

Changing User Access Level

To change the access level of a user (administrator only), do the following:

- 1 Click the EDIT button beside the user name to display the Edit User page:



The screenshot shows the 'Edit User' page in the Dialogic IP Media Server interface. The page features a green header with the Dialogic logo and the text 'Dialogic® IP Media Server'. On the left side, there is a navigation menu with the following items: LOGOUT, NETWORK, MEDIA SERVER, STATISTICS, LOGS, SERVICES, SYSTEM, CHANGE PASSWORD, CLOCK, CONFIG FILES, LICENSE, MANAGE CERTIFICATES, REBOOT HOST, RESET MEDIA SERVER, SHUTDOWN HOST, SOFTWARE UPDATES, and USER ADMINISTRATION. The main content area is titled 'Edit User' and contains a 'Username' field with the value 'pw' and an 'Access Level' dropdown menu currently set to 'administrator'. At the bottom of the form are 'OK' and 'CANCEL' buttons.

Figure 84. Edit User Page

- 2 Choose the access level ADMINISTRATOR or OPERATOR.
- 3 To accept the change, click OK.

To cancel the change, click CANCEL.

A - Compliance and Standards Information

This chapter describes the IP Media Server's compliance with standards.

Supported Protocols and Standards

The following is a list of currently supported protocols and RFC standards.

Table 22. Supported Protocols and Standards

Protocols	RFC #
ARP	RFC 826
DNS	RFC 1034, RFC 1035, RFC 2181
Ethernet v2	RFC 894
	Gigabit Ethernet specification IEEE 802.3z. 802.3x.
	RFC 2665, General Ethernet statistics
FTP	RFC 959, 2228, 2640, 2773
HTTP/1.0	RFC 1945
HTTP/1.1	RFC 2068, 2616
ICMP	RFC 792, 950
Internet Host-Apps	RFC 1123
Internet Host-Comm.	RFC 1122
IP	RFC 791
MIME	RFC 1341
NFS v2	RFC 1094
NFS v3	RFC 1813
NTPv3	RFC 1305
RTP	RFC 1889, 1890, 2833
SIP	RFC 2543 RFC2543bis-03 RFC 2976, "The SIP Info Method" draft-ietf-sip-session-timer-04 RFC 2976 RFC 4240 draft-vandyke-mscml-09, "Media Server Control Markup Language (MSCML) and Protocol", Van Dyke, J., Burger, E., July 2006, work in progress
SDP	RFC 2327
TELNET	RFC 854

Table 22. Supported Protocols and Standards (Continued)

Protocols	RFC #
TFTPv2	RFC 1350
URI	RFC 2396
URL	1738
VXML	V1.0, V2.0 W3C

Product Safety and Emissions - Regulatory Compliance Notices

The IP Media Server complies with industry safety and emissions requirements, as indicated below.

Safety	UL 60950-1, First Edition CAN/CSA-C22.2 No. 60950-1-03 EN 60950-1:2001 IEC 60950-1:2001	USA Canada Europe Global (CB)
EMC Emissions	FCC 47 CFR Part 15 Class A ICES-003 Issue 3 Class A EN 55022:1998/A1:2000/A2:2003 Class A VCCI Class A ITE AS/NZS CISPR22:2002 Class A	USA Canada Europe Japan Australia
EMC Immunity	EN 55024:1998/A1:2001/A2:2003 EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001	Europe Europe Europe

EN 550022 Class A Required Warning



Warning: This is a Class A product. In a domestic environment, this product can cause radio interference, in which case the user might be required to take adequate measures.

United States: FCC CFR 47 Part 15 Required Instructions

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 this manual, can 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 is required to correct the interference at his own expense.

Canada

This Class A digital apparatus complies with Canadian Standard ICES-003.

Cet appareil numérique de la class A est conforme à la norme NMB-003 du Canada.

VCCI Japan

ITE Class A Statement (For Class A Products).

<p>この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。</p>
--

Translation: 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.

B - Troubleshooting

This appendix describes some basic trouble shooting techniques you can use when working with the IP Media Server. It includes the following topics:

- ◆ [Collecting Information for Technical Support](#)
- ◆ [Log Files](#)
- ◆ [Network Connectivity](#)
- ◆ [Current Calls](#)
- ◆ [Establishing Sessions Using Complex Codecs Immediately After Power Up](#)
- ◆ [NFS Mounted Devices](#)
- ◆ [Recovering after a Power Failure](#)

Collecting Information for Technical Support

As part of the issue reporting process, download log files and any core dump files from the IP Media Server and send a zipped version of these files to Dialogic Technical Support, together with the running configuration files. You can upload the collected log files to the Dialogic® IP Media Server Technical Support FTP server. Please contact Dialogic Technical Support to obtain a user account and password.

- ◆ *audit.log*
- ◆ *cache.log*
- ◆ *cache_access.log*
- ◆ *dms.log*
- ◆ *fido.log* (and any *fido.log.1*, *fido.log.2*, etc.)
- ◆ *mserv.log* (and any *mserv.log.1*, *mserv.log.2*, etc.)
- ◆ *msinit.log* (and any *msinit.log.1*, *msinit.log.2*, etc.)
- ◆ *msprovider.log*
- ◆ *sipd.log* (and any *sipd.log.1*, *sipd.log.2*, etc.)
- ◆ *uad.log** (and any *uad.log.1*, *uad.log.2*, etc.)
- ◆ *vxmlld.log** (and any *vxmlld.log.1*, *vxmlld.log.2*, etc.)
- ◆ *vxml2.0install.log* (Required only when reporting issues involving VXML transactions)
- ◆ *cmp.*.logs* (Required only when reporting issues involving VXML transactions)
- ◆ *vxml2.0_health.log* (Required only when reporting issues involving VXML transactions)
- ◆ *pw_metricsfile* (and any *pw_metricsfile.1*, *pw_metricsfile.2*, etc.) (Required only when reporting issues involving VXML transactions)
- ◆ *<hostname>_system_info.log*
- ◆ Any and all core files
- ◆ Running configuration: *g2mscurrent.tar.gz* file, and the version and build of the IP Media Server software you are running.

* These files are only required when the reported issues involve VoiceXML applications.

Log Files

The log files contain detailed information about the operation of the IP Media Server. The log files include:

Table 23. IP Media Server Log Files

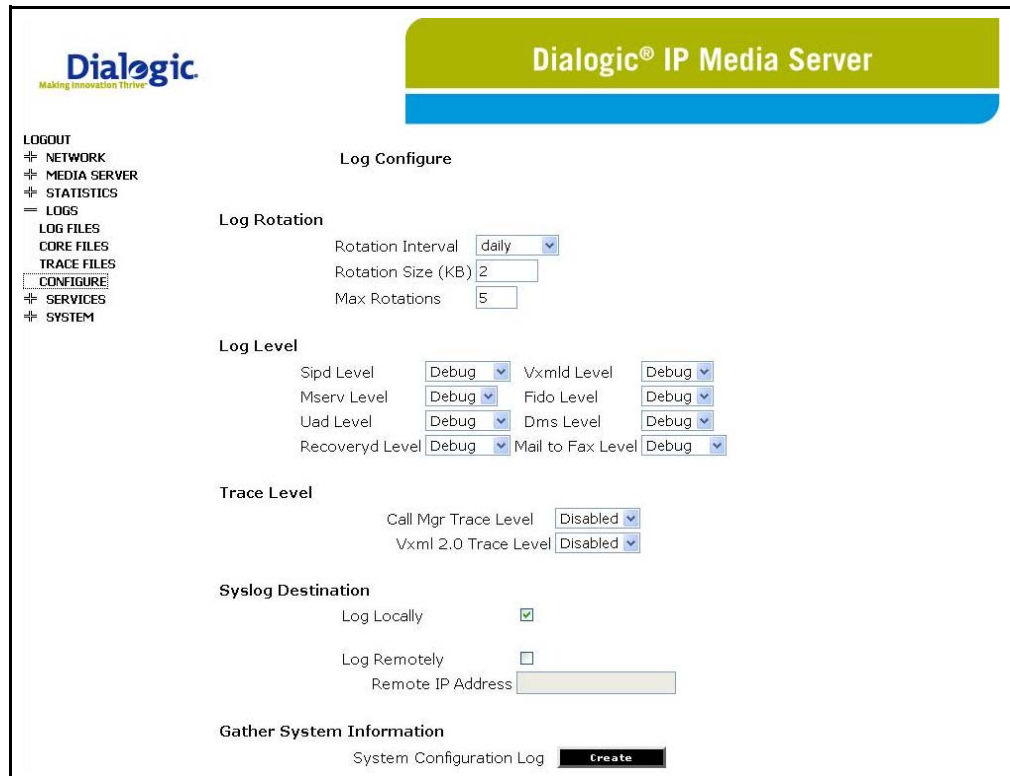
File	Contents
audit.log	IP Media Server persisted settings.
fido.log	Messages associated with fetching Internet domain objects (files, vxml pages over http).
email_to_fax	
mserv.log	Details of creating and managing RTP streams on the IP Media Server.
msinit.log	Log entries of the IP Media Server initialization.
msprovider.log	License information.
sipd.log	SIP messages received and sent by the IP Media Server.
sr140app.log	
uad.log	Internal messages associated with VoiceXML transfer functions.
vxml.d.log	VoiceXML 1.0 messages on the IP Media Server.
cmp.*.logs	Set of logs that contain information about VXML 2.0 components and messages.
vxml2.0_health.log	Information about VXML 2.0 components.
pw_metricsfile	Record of VoiceXML 2.0 messages on the IP Media Server.

The primary log file for troubleshooting call setup issues is the sipd log. This log file can be viewed and processed to look for all the messages for a particular call. Each message carries a time stamp. Useful tags to search for in the log file are:

- 1 By Call-ID: For example, using *Call-ID: 12995-7@172.17.100.245* can find all the SIP messages associated with a particular call.
- 2 By 400 and 500 type messages: For example, using *SIP/2.0 400* or *SIP/2.0 500* can find all error messages in the file. These messages can be related to a particular call, and often lead to the reason the call failed.

In addition to these log files, it would be useful for you to generate the system information log file at the time the issue occurs. To generate this log file:

- 1 Log in to the IP Media Server Web UI.
- 2 Select LOGS→CONFIGURE to display the Log Configure page:



Dialogic
Making Innovation Thrive

Dialogic® IP Media Server

Log Configure

Log Rotation

Rotation Interval:

Rotation Size (KB):

Max Rotations:

Log Level

Sipd Level: Vxmlid Level:

Mserv Level: Fido Level:

Uad Level: Dms Level:

Recoveryd Level: Mail to Fax Level:

Trace Level

Call Mgr Trace Level:

Vxml 2.0 Trace Level:

Syslog Destination

Log Locally:

Log Remotely:

Remote IP Address:

Gather System Information

System Configuration Log

Figure 85. Log Configure Page

- 3 Click the System Configuration Log Create button.
- 4 Click OK.

The log file is generated and the Log Files page is displayed:

Dialogic
Making Innovation Thrive

Dialogic® IP Media Server

LOG FILES

Log Files

DOWNLOAD

Log Name	Date	Size	View	Select
sipd.log	05/12/08 03:47 PM	1557864	VIEW	<input type="checkbox"/>
CMP.log.cmpsntp	05/12/08 03:47 PM	1196179	VIEW	<input type="checkbox"/>
vxml2_0_health.log	05/12/08 03:46 PM	1457	VIEW	<input type="checkbox"/>
CMP.log.cmpdc	05/12/08 03:46 PM	385	VIEW	<input type="checkbox"/>
dms.log	05/12/08 03:46 PM	94704	VIEW	<input type="checkbox"/>
mserv.log	05/12/08 03:46 PM	155777	VIEW	<input type="checkbox"/>
audit.log	05/12/08 03:43 PM	15006	VIEW	<input type="checkbox"/>
sipd.log.1.gz	05/12/08 03:01 PM	17402	VIEW	<input type="checkbox"/>
snmpDaemon.log	05/12/08 02:46 PM	262	VIEW	<input type="checkbox"/>
CMP.log.callmgr.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>
CMP.log.vxml.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>
CMP.log.vxml	05/12/08 02:45 PM	1877	VIEW	<input type="checkbox"/>
CMP.log.pwproxy.info	05/12/08 02:45 PM	2	VIEW	<input type="checkbox"/>

Figure 86. Log Files Page

The file <hostname>_system_info.log is the name of the file that was created.

Network Connectivity

If a call cannot be successfully placed, check that there is connectivity to the required networks.

- 1 Ping the devices used in the call: Using the **NETWORK→UTILITIES→PING** command, try pinging the application server IP address and the IP address of the RTP device.
- 2 If either ping command fails, check to ensure that the interfaces are active (**NETWORK→INTERFACES**) and that one of the interfaces is designated as supporting SIP and RTP.
- 3 Check the routing table for routes, network masks, and default gateways.

Current Calls

To determine how many calls are currently active on the system, use the statistics page on the Web UI. This command displays the current number of calls on the IP Media Server for a given application service type.

Establishing Sessions Using Complex Codecs Immediately After Power Up

If establishing sessions using a complex codec (G.726, G.729, AMR) on the EdgeMedia EDP-10 DSP card, please note that it takes approximately one minute for the card to initialize after the rest of the IP Media Server processes have completed initialization. If calls are placed during that time, the following SIP response will be returned:

480 BUSY HERE

and the following error message is logged:

```
create_rtp: resultcode=400 Resultttext="Busy"  
reason="Out of hw_assist resources"
```

Note: Using the AMR-NB resource in connection with a Dialogic® product does not grant the right to practice the AMR-NB standard. To seek a patent license agreement to practice the standard, contact the VoiceAge Corporation at <http://www.voiceage.com/licensing.php>. For a listing of the AMR codec "essential patents," visit: http://www.voiceage.com/ess_patent.php

NFS Mounted Devices

NFS mounted devices can be used to retrieve remote announcements. These devices are auto-mounted by the IP Media Server. This requires that the NFS server has exported its disks for mounting. If it appears that a server could not be accessed (because error messages were seen in the SIP, mserv, and fido logs), check that:

- 1 The device can be reached over the network (ping).
- 2 The NFS server has the correct permissions for exporting its disk.

Recovering after a Power Failure

When a system reboots, it does a file system check. Under most circumstances, the system recovers automatically and reboots. In rare circumstances, the system can have issues and be unable to recover the file system. In this case, use the following procedure.

- 1 Connect to the serial port of the IP Media Server.
- 2 Power up the system and watch the terminal page. As the file check happens, it can find bad files that need to be repaired.
- 3 When asked to repair a file, type *y*.

At the end of this process, the system should reboot and recover.

If the system does not recover, contact Dialogic Technical Support for repair and return procedures.

Note: It is recommended that a UPS be used to power the system to avoid issues from power fluctuations.

C - Required Red Hat Enterprise Linux Packages

The following details the inclusive list of Red Hat Enterprise Linux 4 Update 5 packages required for IP Media Server Release 2.4.0 operation.

```
acl-2.2.23-5
acpid-1.0.3-2
am-utils-6.0.9-15.RHEL4
anacron-2.3-32
apmd-3.0.2-24
apr-0.9.4-24.5
apr-util-0.9.4-21
ash-0.3.8-20
aspell-0.50.5-3.fc3
aspell-en-0.51-11
at-3.1.8-78_EL4
atk-1.8.0-2
atk-devel-1.8.0-2
attr-2.4.16-3
audit-1.0.12-1.EL4
audit-libs-1.0.12-1.EL4
authconfig-4.6.10-rhel4.1
autofs-4.1.3-169
basesystem-8.0-4
bash-3.0-19.2
bc-1.06-17.1
beecrypt-3.1.0-6
bind-libs-9.2.4-2
bind-utils-9.2.4-2
binutils-2.15.92.0.2-18
bluez-bluefw-1.0-6
```

bluez-hcidump-1.11-1
bluez-libs-2.10-2
bluez-utils-2.10-2.1
bzip2-1.0.2-13.EL4.3
bzip2-libs-1.0.2-13.EL4.3
checkpolicy-1.17.5-1
chkconfig-1.3.13.3-2
chkfontpath-1.10.0-2
cmp-proxy-EL4_7.0.7-1
cmp-snmp-EL4_7.0.7-1
compat-libstdc++-296-2.96-132.7.2
compat-libstdc++-33-3.2.3-47.3
comps-4ES-0.20060303
coreutils-5.2.1-31.2
cpio-2.5-8.RHEL4
cpp-3.4.5-2
cracklib-2.7-29
cracklib-dicts-2.7-29
crash-4.0-2.15
crontabs-1.10-7
cryptsetup-0.1-4
cups-1.1.22-0.rc1.9.10
cups-libs-1.1.22-0.rc1.9.10
curl-7.12.1-8.rhel4
cyrus-sasl-2.1.19-5.EL4
cyrus-sasl-md5-2.1.19-5.EL4
cyrus-sasl-plain-2.1.19-5.EL4
db4-4.2.52-7.1
dbus-0.22-12.EL.5
dbus-glib-0.22-12.EL.5
desktop-file-utils-0.9-2
device-mapper-1.02.02-3.0.RHEL4
dhclient-3.0.1-54.EL4
dhcpv6_client-0.10-14_EL4
diffutils-2.8.1-12
diskdumputils-1.2.8-2
distcache-1.4.5-6
dmraid-1.0.0.rc8-1_RHEL4_U2
dos2unix-3.1-21
dosfstools-2.8-15
dump-0.4b39-3.EL4.2
e2fsprogs-1.35-12.3.EL4
ed-0.2-36
eject-2.0.13-11
ElectricFence-2.2.2-19
elfutils-0.97-5
elfutils-libelf-0.97-5
emacs-21.3-19.EL.1
emacs-common-21.3-19.EL.1
emacs-leim-21.3-19.EL.1
enscript-1.6.1-33.el4.i386.rpm
ethtool-1.8-4

expat-1.95.7-4
expect-5.42.1-1.i386
fbset-2.1-17
file-4.10-2.EL4.3
filesystem-2.3.0-1
findutils-4.1.20-7
finger-0.17-26
fontconfig-2.2.3-7
fontconfig-devel-2.2.3-7
fonts-xorg-75dpi-6.8.2-1.EL
freetype-2.1.9-1
freetype-devel-2.1.9-1
ftp-0.17-22
gawk-3.1.3-10.1
gcc-3.4.5-2
gd-2.0.28-4.4E.1
gdb-6.3.0.0-1.96
gdbm-1.8.0-24
gettext-0.14.1-13
ghostscript-7.07-33.i386.rpm
ghostscript-fonts-5.50-13.noarch.rpm
glib-1.2.10-15
glib2-2.4.7-1
glib2-devel-2.4.7-1
glibc-2.3.4-2.19
glibc-common-2.3.4-2.19
glibc-devel-2.3.4-2.19
glibc-headers-2.3.4-2.19
glibc-kernheaders-2.4-9.1.98.EL
gmp-4.1.4-3
gnupg-1.2.6-1
gnutls-1.0.20-3.23
gpm-1.20.1-66
grep-2.5.1-31
groff-1.18.1.1-3
grub-0.95-3.5
gtk2-2.4.13-18
gtk2-devel-2.4.13-18
gzip-1.3.3-15.rhel4
hal-0.4.2-3.EL4
hdparm-5.7-2
hesiod-3.0.2-30
hotplug-2004_04_01-7.6
htmlview-3.0.0-8
httpd-2.0.52-22.ent
httpd-suexec-2.0.52-22.ent
hwdata-0.146.18.EL-1
ImageMagick-6.0.7.1-17.i386.rpm
indexhtml-4.1-1
info-4.7-5
initscripts-7.93.24.EL-1.1
iproute-2.6.9-3

ipsec-tools-0.3.3-6
iptables-1.2.11-3.1.RHEL4
iptstate-1.3-4
iputils-20020927-18.EL4.2
irda-utils-0.9.16-3
isd4k-utils-3.2-18.p1.1
jpackage-utils-1.6.0-2jpp_3rh
jwhois-3.2.2-6.EL4.1
kbd-1.12-2
kernel-2.6.9-34.EL
kernel-smp-2.6.9-34.EL
kernel-smp-devel-2.6.9-34.EL
kernel-utils-2.4-13.1.80
krb5-libs-1.3.4-27
krb5-workstation-1.3.4-27
krbafs-1.2.2-6
kudzu-1.1.95.15-1
less-382-4
lftp-3.0.6-3
lha-1.14i-17
libacl-2.2.23-5
libattr-2.4.16-3
libcap-1.10-20
libgcc-3.4.5-2
libgcrypt-1.2.0-3
libgpg-error-1.0-1
libidn-0.5.6-1
libjpeg-6b-33
libjpeg-devel-6b-33
libmng-1.0.8-1
libmng-devel-1.0.8-1
libpcap-0.8.3-10.RHEL4
libpng-1.2.7-1.el4.2
libpng-devel-1.2.7-1.el4.2
libselenium-1.19.1-7
libsepol-1.1.1-2
libstdc++-3.4.5-2
libtermcap-2.0.8-39
libtermcap-devel-2.0.8-39
libtiff-3.6.1-8
libtool-libs-1.5.6-4.EL4.1
libungif-4.1.3-1.el4.2
libungif-progs-4.1.3-1.el4.2.i386.rpm
libusb-0.1.8-3
libuser-0.52.5-1.el4.1
libwvstreams-3.75.0-2
libxml2-2.6.16-6
libxml2-python-2.6.16-6
libxslt-1.1.11-1
lm_sensors-2.8.7-2.40.3
lockdev-1.0.1-6.1
logrotate-3.7.1-5.RHEL4

logwatch-5.2.2-1.EL4.1
lrzsz-0.12.20-19
lsof-4.72-1.1
lvm2-2.02.01-1.3.RHEL4
lynx-2.8.5-18.2
m4-1.4.1-16
mailcap-2.1.17-1
mailx-8.1.1-33
make-3.80-5
MAKEDEV-3.15.2-3
man-1.5o1-9
man-pages-1.67-7.EL4
mdadm-1.6.0-3
mgetty-1.1.31-2
mingetty-1.07-3
minicom-2.00.0-19
mkbootdisk-1.5.2-1
mkinitrd-4.2.1.6-1
mktemp-1.5-20
mod_auth_pgsq1-2.0.1-7.1
mod_perl-1.99_16-4
mod_ssl-2.0.52-22.ent
module-init-tools-3.1-0.pre5.3.2
mtools-3.9.9-9
mtr-0.54-10
mt-st-0.8-1
nano-1.2.4-1
nc-1.10-22
ncurses-5.4-13
ncurses-devel-5.4-13
netconfig-0.8.21-1.1
netdump-0.7.14-4
net-snmp-5.1.2-11.EL4.6
net-snmp-libs-5.1.2-11.EL4.6
net-snmp-utils-5.1.2-11.EL4.6
net-tools-1.60-37.EL4.6
NetworkManager-0.3.1-3
newt-0.51.6-7.rhel4
nfs-utils-1.0.6-65.EL4
nscd-2.3.4-2.19
nss_db-2.2-29
nss_ldap-226-10
ntp-4.2.0.a.20040617-4
ntsysv-1.3.13.3-2
numactl-0.6.4-1.25
openldap-2.2.13-4
openssh-3.9p1-8.RHEL4.12
openssh-clients-3.9p1-8.RHEL4.12
openssh-server-3.9p1-8.RHEL4.12
openssl-0.9.7a-43.8
pam-0.77-66.14
pam_ccreds-1-3

pam_krb5-2.1.8-1
pam_passwdqc-0.7.5-2
pam_smb-1.1.7-5
pango-1.6.0-9
pango-devel-1.6.0-9
parted-1.6.19-1.EL
passwd-0.68-10.1
patch-2.5.4-20
pax-3.0-9
pciutils-2.1.99.test8-3.1
pcmcia-cs-3.2.7-3.5
pcre-4.5-3.2.RHEL4
pdksh-5.2.14-30.3
perl-5.8.5-24.RHEL4
perl-Filter-1.30-6
perl-URI-1.30-4
phoneweb-EL40_7.0.7-1
php-4.3.9-3.9
php-pear-4.3.9-3.9
php-pgsql-4.3.9-3.9
pinfo-0.6.8-7
pkgconfig-0.15.0-3
policycoreutils-1.18.1-4.9
popt-1.9.1-13_nonptl
portmap-4.0-63
postgresql-7.4.8-1.RHEL4.1
postgresql-libs-7.4.8-1.RHEL4.1
postgresql-server-7.4.8-1.RHEL4.1
ppp-2.4.2-6.4.RHEL4
prelink-0.3.3-0.EL4
procmail-3.22-14
procps-3.2.3-8.3
psacct-6.3.2-38.rhel4
psmisc-21.4-4
pyOpenSSL-0.6-1.p23
python-2.3.4-14.1
pyx86config-0.3.19-1
PyXML-0.8.3-6.i386.rpm
qt-3.3.3-9.3
qt-devel-3.3.3-9.3
quota-3.12-5
rdate-1.4-2
rdist-6.1.5-38.40.1
readline-4.3-13
readline-devel-4.3-13
redhat-logos-1.1.26-1
redhat-lsb-3.0-8.EL
redhat-menus-3.7.1-2
redhat-release-4ES-4.1
rhnlib-1.8.2-1.p23.1
rhpl-0.148.3-1
rmt-0.4b39-3.EL4.2

rootfiles-8-1
rpm-4.3.3-13_nonpt1
rpmdb-redhat-4-0.20060303
rpm-libs-4.3.3-13_nonpt1
rpm-python-4.3.3-13_nonpt1
rp-pppoe-3.5-22
rsh-0.17-25.3
rsync-2.6.3-1
schedutils-1.4.0-2
sed-4.1.2-4
selinux-policy-targeted-1.17.30-2.126
sendmail-8.13.1-2
sendmail-cf-8.13.1-3.2.el4.i386.rpm
setarch-1.6-1
setools-1.5.1-5
setserial-2.17-17
setup-2.5.37-1.3
setuptools-1.17-2
sg3_utils-1.06-3
sg3_utils-libs-1.22-3.1
shadow-utils-4.0.3-60.RHEL4
slang-1.4.9-8
slocate-2.7-13.el4.6
specspo-9.0.92-1.3
squid-2.5.STABLE6-3.4E.12
star-1.5a25-6
statserial-1.1-35
strace-4.5.13-0.EL4.1
stunnel-4.05-3
sudo-1.6.7p5-30.1.3
symlinks-1.2-22
sysklogd-1.4.1-26_EL
syslinux-2.11-1
sysreport-1.3.15-5
system-config-mouse-1.2.9-1
system-config-network-tui-1.3.22.0.EL.4.2-1
system-config-securitylevel-tui-1.4.19.2-1
SysVinit-2.85-34.3
talk-0.17-26
tar-1.14-8.RHEL4
tcl-8.4.7-2
tcpdump-3.8.2-10.RHEL4
tcp_wrappers-7.6-37.2
tcsh-6.13-9
telnet-0.17-31.EL4.3
termcap-5.4-3
time-1.7-25
tmpwatch-2.9.1-1
traceroute-1.4a12-24
ttmkfdir-3.0.9-14.1.EL
tzdata-2006a-1.EL4
udev-039-10.12.EL4

unix2dos-2.2-24.1
unixODBC-2.2.11-1.RHEL4.1
unzip-5.51-7
up2date-4.4.67-4
urw-fonts-2.2-6.1.noarch.rpm
usbutils-0.11-6.1
usermode-1.74-1
utempter-0.5.5-5
util-linux-2.12a-16.EL4.16
valgrind-2.2.0-5.EL4
valgrind-callgrind-0.9.9-1
vconfig-1.8-4
VFLib2-2.25.6-25.i386.rpm
vg-scriptmanager-4.0.0-1
vg-setup-2.0.0-3
vg-xerces-EL40-2.0.0-3
vim-common-6.3.046-0.40E.7
vim-enhanced-6.3.046-0.40E.7
vim-minimal-6.3.046-0.40E.7
vixie-cron-4.1-36.EL4
vsftpd-2.0.1-5.EL4.3
wget-1.10.2-0.40E
which-2.16-4
wireless-tools-27-0.pre25.4.EL4
wireshark-0.99.5-EL4.1
words-3.0-3
wvdial-1.54.0-3
Xaw3d-1.5-24
xinetd-2.3.13-4.4E.1
xmlsec1-1.2.6-3
xmlsec1-openssl-1.2.6-3
xorg-x11-devel-6.8.2-1.EL.13.25
xorg-x11-font-utils-6.8.2-1.EL.13.25
xorg-x11-libs-6.8.2-1.EL.13.25
xorg-x11-Mesa-libGL-6.8.2-1.EL.13.25
xorg-x11-xfs-6.8.2-1.EL.13.25
ypbind-1.17.2-8
yp-tools-2.8-7
zip-2.3-27
zlib-1.2.1.2-1.2
zlib-devel-1.2.1.2-1.2

D - VXML 2.0 SNMP Traps and MIBs

This appendix provides information about SNMP MIBs and traps that are related to VXML 2.0 processes, or that are generated when running VXML 2.0 on the IP Media Server.

The IP Media Server VXML 2.0 implementation is based on the VoiceGenie Technologies, Inc. VXML 2.0 browser. Not all configuration or operational aspects of the VoiceGenie traps and MIBs may be supported. Contact Technical Support for additional, specific information.

Note that the MIB is recreated every time SNMP is restarted, because when a new Dialogic software component is installed, the MIB must be regenerated based on what software is installed on the system.

Figure 87 shows the VoiceGenie MIB tree structure and the branches that are related to the VXML 2.0 browser.

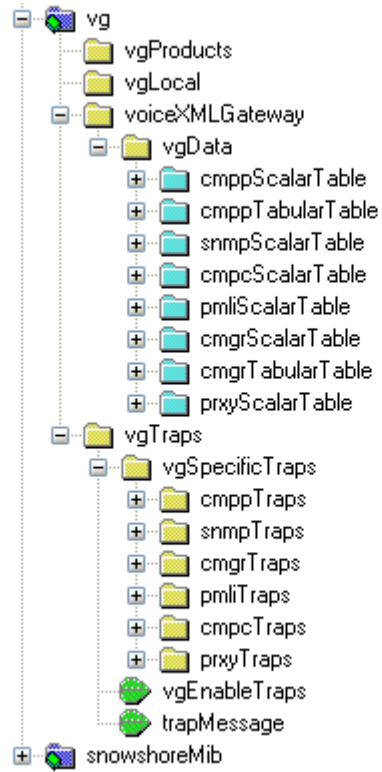


Figure 87. VXML 2.0 Traps and MIB Tree

MIB Details

The VoiceGenie VXML 2.0 MIB contains the following information:

Component	Scalar OID	Tabular OID	Trap OID
CMP Proxy (cmpp)	1.3.6.1.4.1.7469.3.9.2	1.3.6.1.4.1.7469.3.9.3	1.3.6.1.4.1.7469.251.1.200
VGSNMP (snmp)	1.3.6.1.4.1.7469.3.9.4	Reserved	1.3.6.1.4.1.7469.251.1.300
CLC (cmplc)	1.3.6.1.4.1.7469.3.9.6	Reserved	1.3.6.1.4.1.7469.251.1.308
VoiceXML Interpreter (pml)	1.3.6.1.4.1.7469.3.9.8	Reserved	1.3.6.1.4.1.7469.251.1.303
Call Manager (cmgr)	1.3.6.1.4.1.7469.3.9.10	1.3.6.1.4.1.7469.3.9.11	1.3.6.1.4.1.7469.251.1.302
Web Proxy (prxy)	1.3.6.1.4.1.7469.3.9.14	Reserved	1.3.6.1.4.1.7469.251.1.309

CMP Proxy (cmppScalarTable)

Name	OID	Type	Description
ticksSinceStartTime2	1.3.6.1.4.1.7469.3.9.2.1.1	Scalar	Time ticks since Start time of CMP Proxy
proxyNetId	1.3.6.1.4.1.7469.3.9.2.1.2	Scalar	Platform/CMP Proxy Network ID
proxyCPUUsage	1.3.6.1.4.1.7469.3.9.2.1.3	Scalar	Platform CPU Usage (in %)
proxyMemUsage	1.3.6.1.4.1.7469.3.9.2.1.4	Scalar	Platform Memory Usage (in %)
traceFlag	1.3.6.1.4.1.7469.3.9.2.1.100	Scalar	Determines if any logs at level log_5 (tracing/debugging) should be logged
instanceID4	1.3.6.1.4.1.7469.3.9.2.1.101	Scalar	instance ID

CMP Proxy (cmppTabularTable)

Name	OID	Type	Description
ProxyDiskUsage	1.3.6.1.4.1.7469.3.9.3.1.1	Tabular	Partition usage (in %)
ProxyDiskDrives	1.3.6.1.4.1.7469.3.9.3.1.2	Tabular	Partition name
AgentNetId	1.3.6.1.4.1.7469.3.9.3.1.3	Tabular	Agent network ID
AgentCPUUsage	1.3.6.1.4.1.7469.3.9.3.1.4	Tabular	Agent CPU usage (in %)
AgentMemUsage	1.3.6.1.4.1.7469.3.9.3.1.5	Tabular	Agent memory usage (in MB)
ComponentName	1.3.6.1.4.1.7469.3.9.3.1.6	Tabular	Component name
ComponentCPUUsage	1.3.6.1.4.1.7469.3.9.3.1.7	Tabular	Component CPU usage (in %)
ComponentMemUsage	1.3.6.1.4.1.7469.3.9.3.1.8	Tabular	Component memory usage (in MB)
instanceID3	1.3.6.1.4.1.7469.3.9.3.1.9	Tabular	row ID

Name	OID	Type	Description
rowID2	1.3.6.1.4.1.7469.3.9.3.1.10	Tabular	instance ID

VoiceGenie SNMP (snmpScalarTable)

Name	OID	Type	Description
ticksSinceStartTime3	1.3.6.1.4.1.7469.3.9.4.1.1	Scalar	Time ticks since Start time of SNMP
NumGetReq	1.3.6.1.4.1.7469.3.9.4.1.2	Scalar	Number of SNMP get requests
NumSetReq	1.3.6.1.4.1.7469.3.9.4.1.3	Scalar	Number of SNMP set requests
NumTrapSent	1.3.6.1.4.1.7469.3.9.4.1.4	Scalar	Number of SNMP traps sent
Status2	1.3.6.1.4.1.7469.3.9.4.1.5	Scalar	Component Status
instanceID8	1.3.6.1.4.1.7469.3.9.4.1.6	Scalar	instance ID

Command Line Console (cmprScalarTable)

Name	OID	Type	Description
ticksSinceStartTime1	1.3.6.1.4.1.7469.3.9.2.1.1.0	Scalar	Start time of CLC
NumConnections	1.3.6.1.4.1.7469.3.9.6.1.2	Scalar	Number of active clients connected
NumTotalConnections	1.3.6.1.4.1.7469.3.9.6.1.3	Scalar	Total number of clients connected
NumCommands	1.3.6.1.4.1.7469.3.9.6.1.4	Scalar	Number of commands issued
status1	1.3.6.1.4.1.7469.3.9.6.1.5	Scalar	Component Status
instanceID3	1.3.6.1.4.1.7469.3.9.6.1.6	Scalar	instance ID

VoiceXML Interpreter (pmliScalarTable)

Name	OID	Type	Description
ticksSinceVxmliStartTime	1.3.6.1.4.1.7469.3.9.8.1.1	Scalar	Time ticks since Start time of VXMLI
vxmliNumCurrentSessions	1.3.6.1.4.1.7469.3.9.8.1.2	Scalar	Number of current VXML sessions
vxmliNumPeakSessions	1.3.6.1.4.1.7469.3.9.8.1.3	Scalar	Peak number of concurrent VXML sessions
vxmliNumTotalCalls	1.3.6.1.4.1.7469.3.9.8.1.4	Scalar	Total number of inbound calls
instanceID6	1.3.6.1.4.1.7469.3.9.8.1.5	Scalar	instance ID

Call Manager (cmgrScalarTable)

Name	OID	Type	Description
ticksSinceSTARTED	1.3.6.1.4.1.7469.3.9.10.1.1	Scalar	Time ticks since Call Manager Start Time
CURRENTSESSION	1.3.6.1.4.1.7469.3.9.10.1.2	Scalar	Number of current CMAPI sessions
PEAKSESSION	1.3.6.1.4.1.7469.3.9.10.1.3	Scalar	Max number of concurrent sessions since the start
TOTALSESSION	1.3.6.1.4.1.7469.3.9.10.1.4	Scalar	Total number of sessions since the start
VXMLIBIND	1.3.6.1.4.1.7469.3.9.10.1.5	Scalar	Total number of times VoiceXML interpreter established connection with Call Manager
SIPPORT	1.3.6.1.4.1.7469.3.9.10.1.6	Scalar	Local SIP port
SIPCURRENTIN	1.3.6.1.4.1.7469.3.9.10.1.7	Scalar	Number of current inbound SIP calls
SIPCURRENTOUT	1.3.6.1.4.1.7469.3.9.10.1.8	Scalar	Number of current outbound SIP calls
SIPPEAKIN	1.3.6.1.4.1.7469.3.9.10.1.9	Scalar	Max number of concurrent inbound SIP calls
SIPPEAKOUT	1.3.6.1.4.1.7469.3.9.10.1.10	Scalar	Max number of concurrent outbound SIP calls
SIPININIT	1.3.6.1.4.1.7469.3.9.10.1.10	Scalar	Total number of inbound SIP calls initiated since the start
SIPOUTINIT	1.3.6.1.4.1.7469.3.9.10.1.12	Scalar	Total number of outbound SIP calls initiated since the start
H323PORT	1.3.6.1.4.1.7469.3.9.10.1.13	Scalar	Local H.323 port
H323CURRENTIN	1.3.6.1.4.1.7469.3.9.10.1.14	Scalar	Number of current inbound H.323 calls
H323CURRENTOUT	1.3.6.1.4.1.7469.3.9.10.1.15	Scalar	Number of current outbound H.323 calls
H323PEAKIN	1.3.6.1.4.1.7469.3.9.10.1.16	Scalar	Max number of concurrent inbound H.323 calls
H323PEAKOUT	1.3.6.1.4.1.7469.3.9.10.1.17	Scalar	Max number of concurrent outbound H.323 calls
H323ININIT	1.3.6.1.4.1.7469.3.9.10.1.18	Scalar	Total number of inbound H.323 calls initiated since the start
H323OUTINIT	1.3.6.1.4.1.7469.3.9.10.1.19	Scalar	Total number of outbound H.323 calls initiated since the start
DLGCCURRENTIN through dLGCCBOARDSTATUS	Not Applicable: 1.3.6.1.4.1.7469.3.9.10.1.20 to 1.3.6.1.4.1.7469.3.9.10.1.35		
BRKTCURRENTIN	1.3.6.1.4.1.7469.3.9.10.1.36	Scalar	Number of current inbound Dialogic calls
BRKTCURRENTOUT	1.3.6.1.4.1.7469.3.9.10.1.37	Scalar	Number of current outbound Dialogic calls

Name	OID	Type	Description
BRKTPEAKIN	1.3.6.1.4.1.7469.3.9.10.1.38	Scalar	Max number of concurrent inbound Dialogic calls
BRKTPEAKOUT	1.3.6.1.4.1.7469.3.9.10.1.39	Scalar	Max number of concurrent outbound Dialogic calls
BRKTTOTALIN	1.3.6.1.4.1.7469.3.9.10.1.40	Scalar	Total number of inbound Dialogic calls initiated since the start
BRKTTOTALOUT	1.3.6.1.4.1.7469.3.9.10.1.41	Scalar	Total number of outbound Dialogic calls initiated since the start
BRKTINCHANENABLED	1.3.6.1.4.1.7469.3.9.10.1.42	Scalar	Total number of inbound-only channels that are in service
BRKTOUTCHANENABLED	1.3.6.1.4.1.7469.3.9.10.1.43	Scalar	Total number of outbound-only channels that are in service
BRKTDUPLEXCHANENABLED	1.3.6.1.4.1.7469.3.9.10.1.44	Scalar	Total number of duplex channels that are in service
BRKTINCHTOTAL	1.3.6.1.4.1.7469.3.9.10.1.45	Scalar	Total number of configured inbound-only channels
BRKTOUTCHTOTAL	1.3.6.1.4.1.7469.3.9.10.1.46	Scalar	Total number of configured outbound-only channels
BRKTDUPLEXCHTOTAL	1.3.6.1.4.1.7469.3.9.10.1.47	Scalar	Total number of configured duplex channels
BRKTBOARDSTATUS	1.3.6.1.4.1.7469.3.9.10.1.48	Scalar	Dialogic® Board Status
METRO1CURRENTIN	1.3.6.1.4.1.7469.3.9.10.1.49	Scalar	Number of current inbound Metro1 calls
METRO1CURRENTOUT	1.3.6.1.4.1.7469.3.9.10.1.50	Scalar	Number of current outbound Metro1 calls
METRO1PEAKIN	1.3.6.1.4.1.7469.3.9.10.1.51	Scalar	Max number of concurrent inbound Metro1 calls
METRO1PEAKOUT	1.3.6.1.4.1.7469.3.9.10.1.51	Scalar	Max number of concurrent outbound Metro1 calls
METRO1TOTALIN	1.3.6.1.4.1.7469.3.9.10.1.53	Scalar	Total number of inbound Metro1 calls initiated since the start
METRO1TOTALOUT	1.3.6.1.4.1.7469.3.9.10.1.54	Scalar	Total number of outbound Metro1 calls initiated since the start
METRO1INCHANENABLED	1.3.6.1.4.1.7469.3.9.10.1.55	Scalar	Total number of inbound-only channels that are in service
METRO1OUTCHANENABLED	1.3.6.1.4.1.7469.3.9.10.1.56	Scalar	Total number of outbound-only channels that are in service
METRO1INCHTOTAL	1.3.6.1.4.1.7469.3.9.10.1.57	Scalar	Total number of configured inbound-only channels
METRO1OUTCHTOTAL	1.3.6.1.4.1.7469.3.9.10.1.58	Scalar	Total number of configured outbound-only channels
METRO1T1STATUS	1.3.6.1.4.1.7469.3.9.10.1.59	Scalar	T1 Status of device

Name	OID	Type	Description
VXMLIENABLED	1.3.6.1.4.1.7469.3.9.10.1.60	Scalar	Total number of times VoiceXML interpreter established connection with Call Manager
VRMCLIENTLIST	1.3.6.1.4.1.7469.3.9.10.1.61	Scalar	Available VRM Engine list
sIPREGISTRARSTATUS	1.3.6.1.4.1.7469.3.9.10.1.62	Scalar	Registration status of SIP Proxies
pPORTCOUNTAVAILABLE	1.3.6.1.4.1.7469.3.9.10.1.63	Scalar	Total number of available ports in the
pPORTCOUNTMINRESERVED	1.3.6.1.4.1.7469.3.9.10.1.64	Scalar	Total number of minimum reserved ports
cMGRSTATUS	1.3.6.1.4.1.7469.3.9.10.1.65	Scalar	Operating status of service
sWSHOREVXMLDPORT	1.3.6.1.4.1.7469.3.9.10.1.66	Scalar	Local VXMLD port
sWSHOREUADPORT	1.3.6.1.4.1.7469.3.9.10.1.67	Scalar	UAD port
sWSHOREMSP	1.3.6.1.4.1.7469.3.9.10.1.68	Scalar	MSP address
sWSHORECURRENTIN	1.3.6.1.4.1.7469.3.9.10.1.69	Scalar	Number of current inbound Dialogic calls
sWSHORECURRENTOUT	1.3.6.1.4.1.7469.3.9.10.1.70	Scalar	Number of current outbound Dialogic calls
sWSHOREPEAKIN	1.3.6.1.4.1.7469.3.9.10.1.71	Scalar	Max number of concurrent inbound Dialogic calls
sWSHOREPEAKOUT	1.3.6.1.4.1.7469.3.9.10.1.72	Scalar	Max number of concurrent outbound Dialogic calls
sWSHOREININIT	1.3.6.1.4.1.7469.3.9.10.1.73	Scalar	Total number of inbound Dialogic calls
sWSHOREOUTINIT	1.3.6.1.4.1.7469.3.9.10.1.74	Scalar	Total number of outbound Dialogic calls initiated since the start
instanceID1	1.3.6.1.4.1.7469.3.9.10.1.75	Scalar	instance ID

Call Manager (cmgrTabularTable)

Name	OID	Type	Description
pPORTCOUNTPARTITION	1.3.6.1.4.1.7469.3.9.11.1.1	Tabular	Partition name
pPORTCOUNTCURRENT	1.3.6.1.4.1.7469.3.9.11.1.2	Tabular	Number of current active calls in this partition
pPORTCOUNTEXCESSOFT	1.3.6.1.4.1.7469.3.9.11.1.3	Tabular	Number of active calls in excess of the soft limit for this partition
pPORTCOUNTEXCESSHARD	1.3.6.1.4.1.7469.3.9.11.1.4	Tabular	Number of active calls in excess of the hard limit for this partition
instanceID2	1.3.6.1.4.1.7469.3.9.11.1.5	Tabular	instance ID
rowID1	1.3.6.1.4.1.7469.3.9.11.1.6	Tabular	row ID

Web Proxy (prxyScalarTable)

Name	OID	Type	Description
ticksSinceFMStartTime	1.3.6.1.4.1.7469.3.9.14.1.1	Scalar	Time ticks since Start time of Fetching Module
fMNumCurrentActiveSessions	1.3.6.1.4.1.7469.3.9.14.1.2	Scalar	Number of currently active sessions
fMNumPeakActiveSessions	1.3.6.1.4.1.7469.3.9.14.1.3	Scalar	Peak number of concurrent active sessions
fMNumCurrentOpenSessions	1.3.6.1.4.1.7469.3.9.14.1.4	Scalar	Number of currently open sessions
fMNumPeakOpenSessions	1.3.6.1.4.1.7469.3.9.14.1.	Scalar	Peak number of concurrent open sessions
fMNumTotalSessions	1.3.6.1.4.1.7469.3.9.14.1.6	Scalar	Number of total sessions
fMCurrentCacheSize	1.3.6.1.4.1.7469.3.9.14.1.7	Scalar	Size of the shared memory cache being used in MBytes
fMPeakCacheSize	1.3.6.1.4.1.7469.3.9.14.1.8	Scalar	Peak size of the shared memory cache concurrently being used in MBytes
fMCacheMaxSize	1.3.6.1.4.1.7469.3.9.14.1.9	Scalar	Limit of the shared memory cache in Mbytes
fMCacheMaxAge	1.3.6.1.4.1.7469.3.9.14.1.10	Scalar	Maxage for data cached in the fetching module in seconds
fMFailedFetches	1.3.6.1.4.1.7469.3.9.14.1.11	Scalar	Number of failed fetches
fMNumCurrentFetches	1.3.6.1.4.1.7469.3.9.14.1.12	Scalar	Number of currently active fetches initiated by the fetching module to the HTTP proxy/server
fMNumPeakFetches	1.3.6.1.4.1.7469.3.9.14.1.13	Scalar	Peak number of concurrent active fetches initiated by the fetching module to the HTTP proxy/server
fMMaxFetches	1.3.6.1.4.1.7469.3.9.14.1.14	Scalar	Maximum Number of concurrent active fetches allowed to be initiated by the fetching module to the HTTP proxy/server
fMNumCurrentCachedEntries	1.3.6.1.4.1.7469.3.9.14.1.15	Scalar	Number of entries currently in the cache
fMNumPeakCachedEntries	1.3.6.1.4.1.7469.3.9.14.1.16	Scalar	Peak number of cached responses
fMNumTotalHttpFetches	1.3.6.1.4.1.7469.3.9.14.1.17	Scalar	Total number of fetches initiated by the fetching module to the HTTP proxy/server
fMNumTotalFileFetches	1.3.6.1.4.1.7469.3.9.14.1.18	Scalar	Total number of fetches to retrieve files from local machine and remote machines
fMTotalHttpFetchDataSize	1.3.6.1.4.1.7469.3.9.14.1.19	Scalar	Total data size obtained from fetches initiated by the fetching module to the HTTP proxy/server
fMTotalFileFetchDataSize	1.3.6.1.4.1.7469.3.9.14.1.20	Scalar	Total data size obtained from fetches to retrieve files from local machine and remote machines

Name	OID	Type	Description
fMNumCurrentQueuedRequests	1.3.6.1.4.1.7469.3.9.14.1.21	Scalar	Number of currently pending requests received from clients
fMNumPeakQueuedRequests	1.3.6.1.4.1.7469.3.9.14.1.22	Scalar	Peak size of the pending request queue.
fMNumCurrentOpenRequests	1.3.6.1.4.1.7469.3.9.14.1.23	Scalar	Number of current open requests received from clients
fMNumPeakOpenRequests	1.3.6.1.4.1.7469.3.9.14.1.24	Scalar	Peak number of concurrent open requests received from clients
fMNumTotalHttpRequests	1.3.6.1.4.1.7469.3.9.14.1.25	Scalar	Total number of HTTP requests received from clients
fMNumTotalFileRequests	1.3.6.1.4.1.7469.3.9.14.1.26	Scalar	Total number of requests received from clients to retrieve file from local machine or remote machines
fMTotalHttpRequestDataSize	1.3.6.1.4.1.7469.3.9.14.1.27	Scalar	Total data size sent to clients upon HTTP requests
fMTotalFileRequestDataSize	1.3.6.1.4.1.7469.3.9.14.1.28	Scalar	Total file size sent to clients
instanceID7	1.3.6.1.4.1.7469.3.9.14.1.29	Scalar	instance ID

VXML 2.0 SNMP Traps

This section contains the list of traps that can be produced by a VXML 2.0 component. The second to last number in the OID corresponds to the type of component. The component types are as follows:

Type	Name
200	CMP Proxy
300	VG SNMP
302	Call Manager
303	VoiceXML Interpreter
308	CLC
309	Web Proxy (IProxy)
311	VRM Server

The last number corresponds to the LogID, which ID uniquely identifies the log and corresponds to the id field in the CallLog table.

Each Description field contains information about the relative severity of the alarm. The severities are:

Severity	Description
CRIT	A critical or fatal condition that results in failure of the software.
EROR	An error condition that should never happen, and that results in the loss of functionality.
WARN	An exceptional situation that may occur legitimately, but is necessary to be aware of.

Also, each alarm has a Response Code specified, the response codes are defined as follows:

Response Code	Description
CKAPP	Check application or Web server
CKCFG	Check and correct configuration
CKFS	Check file/directory existence/permission, or disk space
CKHW	Check hardware
CKTY	Check telephony hardware/connection
CKASR	Check ASR server
CKTTS	Check TTS server
CKNW	Check network connection
CKOP	Check operational state of the server
NOTE	Notice/observation
REVG	Report to Dialogic [with logs]
SWRS	Software restart: [collect logs] restart Dialogic® IP Media Server
HWRS	Hardware restart: [collect logs] reboot Dialogic® IP Media Server

VXML 2.0 SNMP Agent Traps

The prefix for all SNMP Agent OIDs is .1.3.6.1.4.1.7469.251.1.300.

Name	OID Suffix	Severity	Definition and Possible Message/Info	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-UNAUTHORIZED-LOGIN	20000	WARN	Unauthorized login attempt, only logged if monitoring script is running	-	-	NOTE
VGLOG-INVALID-MSG-TYPE	1048597	WARN	Invalid Message Type Sent or Received	An OA&M message is being ignored	Dialogic software version mismatch	REVG
VGLOG-CANNOT-CREATE-SERVER-SNMP	1048598	WARN	Error Creating Server Socket	SNMP can not create a server socket.	-	CKCFG
VGLOG-CANNOT-CREATE-CLIENT	1048599	WARN	Error Creating Client Socket	SNMP can not create a client connection.	Invalid port or IP set in SNMP Agent's configuration file.	REVG
VGLOG-CFG-WRITE-FAIL-SNMP	2097178		Configuration file could not be written	The SNMP Agent's configuration file will not be updated.	Disk may be full.	CKCFG
VGLOG-DSRV-INVALID-QUERY	6291477	WARN	Invalid data query string received	An SNMP get or set request may fail.	OID values in XML may be incorrect.	REVG Report to Dialogic.
VGLOG-DSRV-UNSUPPORTED-VAR	6291478	WARN	Query for unsupported variable received	An SNMP get or set request may fail.	OID values in XML may be incorrect.	REVG Report to Dialogic.
VGLOG-VGSNMP-DUPLICATE-OIDS	13631500	EROR	Duplicate scalar/tabular OID	A component will not be initialized with the SNMP Agent.	Duplicate OID suffixes in the XML or in SNMP Agent's configuration file.	CKCFG Report to Dialogic.

Name	OID Suffix	Severity	Definition and Possible Message/Info	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-VGSNMP-INVALID-PRODUCT-DEF	13631509	WARN	Invalid product definition	The XML product definition file is invalid since it does not contain component information.	The XML file may be in the wrong format.	CKCFG Report to Dialogic.
VGLOG-VGSNMP-FILE-NOT-OPENED	13631510	WARN	ReadProductDef: Unable to open product definition	The XML file that contains information for Traps, Sets and Gets can not be opened and will not be functional.	The file may not exist or may not be readable.	CKCFG Report to Dialogic.
VGLOG-VGSNMP-INVALID-PARAM-FILE	13631511	WARN	Invalid config or health data or Duplicate Oid definition	The XML file contains invalid configuration and some get/set or traps will be unusable.	The XML file contents are invalid.	CKCFG Report to Dialogic.
VGLOG-VGSNMP-INVALID-SET-REQ	13631513	WARN	Unsupported parameter: <name> or The oid does not exist or The table does not exist	A set request failed.	A set operation was performed against an invalid OID or MIB name.	REVG Check that the OID being used is correct.
VGLOG-VGSNMP-XML-PARSE-ERROR	13631516	WARN	Can not parse XML file <name>	The SNMP information related to Traps, Sets and Gets can not be read and will not be functional.	The XML file may be in the wrong format.	REVG Report to Dialogic.
VGLOG-VGSNMP-CANNOT-GET-ELEMENT-TYPE	13631517	WARN	Cannot get element type of a component	Trap was not sent.	A trap was sent from a component whose element type is unknown.	REVG CMP may be configured incorrectly. Report to Dialogic.

Name	OID Suffix	Severity	Definition and Possible Message/Info	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-VGSNMP-CMP-NOT-OPERATING	13631518	WARN	CMP is not operational	The connection to CMP is down, no traps, sets or gets are possible.	The CMP Proxy may have died.	CKCFG Restart CMP Proxy: su /etc/init.d/cmp-proxy restart
VGLOG-VGSNMP-DUPLICATE-XML	13631519	WARN	Duplicate component XML ignored	An XML file is ignored.	An XML file with the same component type was already loaded.	CKCFG
VGLOG-VGSNMP-CMP-OPERATING	13632513	NOTE	CMP is operational	The connection to the CMP is operational, normal function is resumed.	The CMP Proxy is operational once again.	-
VGLOG-SOCKET-SEND-FAILED-SNMP	134219731 (Old Alarm Number: 10000)	EROR	Socket send failed.	A message failed to get sent over the network.	Ethernet issue.	CKNW/REVG
VGLOG-VGASSERT-SNMP	135267305	CRIT	VGASSERT			REVG

CMP Proxy Traps

The prefix for all CMP Proxy OIDs is .1.3.6.1.4.1.7469.251.1.200.

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-INVALID-MSG-TYPE-CMPP	1048597	WARN	Invalid Message Type Sent or Received	An OA&M message is being ignored	Dialogic software version mismatch	REVG
VGLOG-CANNOT-CREATE-SERVER-CMPP	1048598	WARN	Error Creating Server Socket	The CMP Proxy will not establish connections with any of the CMP Agents.	Ethernet issue or the cmp.proxy_port parameter is not properly set.	REVG

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-CANNOT-CREATE-CLIENT-CMPP	1048599	WARN	Error Creating Client Socket	The CMP Proxy will not establish a connection with the CMP Server.	Ethernet issue or an error in one of the CMP Proxy's connection parameters.	REVG
VGLOG-CFG-WRITE-FAIL-CMPP	2097178	WARN	Configuration file could not be written	Configuration file will not be updated.	Disk may be full.	CKCFG
VGLOG-DSRV-INVALID-QUERY-CMPP	6291477	WARN	Invalid data query string received	An SNMP get or set request may fail.	A request for an invalid parameter, perhaps from the SNMP Agent.	REVG
VGLOG-DSRV-UNSUPPORTED-VAR-CMPP	6291478	WARN	Query for unsupported variable received	An SNMP get or set request may fail.	A request for an invalid parameter, perhaps from the SNMP Agent.	REVG
VGLOG-COMPONENT-NOT-STARTED	8388865	CRIT	Component could not be Started	A component that is supposed to run on the IP Media Server will not start, making the system unusable.	The configuration may be incorrect, i.e. perhaps this component is not supposed to be started to begin with, or the binary of the component can not be located.	CKCFG/REVG Check CMP Proxy configuration, check the cmp.components parameter and all related configuration parameters.
VGLOG-DISK-USAGE-CRITICAL	8388867	CRIT	Disk usage exceeded critical threshold	The disk usage on a partition has exceeded a critical threshold, usually 95%.	The disk is filling up.	CKOP Clear out disk space.
VGLOG-CPU-USAGE-CRITICAL	8388868	CRIT	CPU usage exceeded critical threshold	The CPU usage has exceeded a critical threshold, usually 80%.	The CPU is being used up by the system and may impact performance and user experience.	CKOP Restart Dialogic process that is using up the CPU.

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-MEM-USAGE-CRITICAL	8388869	CRIT	Mem usage exceeded critical threshold	The memory usage has exceeded a critical threshold, usually 2GB.	The memory on the system is being used up. May be a memory leak.	CKOP Restart Dialogic process that is using up memory.
VGLOG-ETH-STATUS-CRITICAL	8388870	CRIT	Ethernet interface down	Network connectivity is down and will effect system operation.	Network interface may be configured incorrectly, or plus may be pulled out.	CKNW Check Ethernet connection and network configuration.
VGLOG-COMPONENT-NOT-STOPPED	8389121	CRIT	A Component could not be Stopped	A Dialogic component that should be stoppable by the CMP Proxy could not be stopped. The system will be unstable.	The component may have been started by a process other then the CMP Proxy.	CKOP/REVG Reboot the system to ensure that the system is running in a stable fashion.
VGLOG-SCRIPT-NOT-STARTED-CMPP	8389122	EROR	Script could not be Run	A script that was initiated by a user and supposed to be run by the CMP Proxy could not be run.	The script may not exist.	CKCFG/REVG Check CMP Proxy configuration, check cmp.script_labels parameter.
VGLOG-COMPONENT-TIMEDOUT	8389123	EROR	A Component has Timed Out	A Dialogic component has not send a periodic heartbeat message to the CMP Proxy.	The process may be in a deadlock situation.	CKOP/REVG Collect the logs of that process and reports to Dialogic. Ensure that system is usable, if not reboot the system.
VGLOG-RESOURCES-EXCEEDED	8389124	EROR	A Component has Exceeded its Allowed Resource Usage	A Dialogic component exceeded its limits for CPU or Memory usage (usually 95% of CPU and 1 GB of memory). Process will be restarted.	There may be a memory leak or a spin lock condition within the software.	REVG Collect the logs of that process and reports to Dialogic. Ensure that system is usable, if not reboot the system.

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-PROCESS-DIED	8389125	EROR	A Component has Died	A Dialogic component has died unexpectedly. The system will not function properly.	The component may have exited.	CKOP/REVG Look for the existence of core files and collect the logs of that process. Report to Dialogic. Ensure that system is usable, if not reboot the system.
VGLOG-DISK-USAGE-ERROR	8389126	EROR	Disk usage exceeded error threshold	The disk usage on a partition has exceeded a high threshold, usually 90%.	The disk is filling up.	CKOP Clear out disk space if possible, monitor disk space carefully.
VGLOG-CPU-USAGE-ERROR	8389127	EROR	CPU usage exceeded error threshold	The CPU usage has exceeded a high threshold, usually 75%.	The CPU is being used up by the system and may impact performance and user experience.	CKOP Monitor CPU carefully for CPU increases.
VGLOG-MEM-USAGE-ERROR	8389128	EROR	MEM usage exceeded error threshold	The memory usage has exceeded a high threshold, usually 1.95GB.	The memory on the system is being used up. May be a memory leak.	CKOP Monitor memory carefully for memory leaks.
VGLOG-STATE-FILE-NOT-FOUND	8389377	WARN	Execution State file can not be opened	The file that stores the execution state of the IP Media Server can not be opened so the operational state after a reboot may be incorrect.	The file does not exist or can not be opened by the CMP Proxy.	CKCFG Check the permission on the /usr/local/cmp-proxy/config/state.cfg and its contents.

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-NETID-FILE-NOT-FOUND	8389378	WARN	Network ID file can not be opened, using default ID	The file that stores the network ID of the CMP Proxy can not be opened, as a result the call ID generated by the IP Media Server may not contain the correct system wide ID.	The file does not exist or can not be opened by the CMP Proxy.	CKCFG Check the permission on the /usr/local/cmp-proxy/config/networkid.cfg and its contents.
VGLOG-CONFIG-NOT-SYNCHRONIZED	8389380	WARN	Configuration Not Synchronized with Database	The CMP Proxy will use the local cached version of the configuration which may be out of date.	The CMP Proxy started before it was able to connect to the CMP Server.	CKNW/REVG Restart the CMP Proxy: su /etc/init.d/cmp-proxy restart
VGLOG-KILLING-COMPONENT	8389382	WARN	Killing a Component	A Dialogic component was killed because it could not be stopped gracefully.	System instability.	REVG Reboot the system to ensure that the operating system is running in a stable fashion.
VGLOG-AGENT-DISCONNECTED	8389383	WARN	CMP Agent Disconnected from the proxy (socket closed)	A Dialogic component disconnected from the CMP Proxy because it stopped.	The component may have been stopped by a user or may have stopped unexpectedly (i.e. exited).	REVG If it was stopped unexpectedly look for the existence of core files and collect the logs of that process. Report to Dialogic. Ensure that system is usable, if not reboot the system.
VGLOG-INVALID-SCRIPT-LABEL-CONFIG	8389385	WARN	Invalid script label configuration	A script label configuration is incorrect and may prevent scripts from being run by the CMP Proxy.	The cmp.script_labels parameter is mis-configured.	CKCFG Check CMP Proxy configuration, check cmp.script_labels parameter for invalid values.

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-SCRIPT-FAILED	8389386	WARN	Script failed	A script failed to run. The operation attempted has failed.	The script may not exist, or parameters passed in may be invalid.	CKCFG Check CMP Proxy configuration, check cmp.script_labels parameter for invalid values.
VGLOG-KILL-PROCESS	8389387	WARN	Process killed	A process started by the CMP Proxy was killed because it could not be stopped gracefully.	System instability.	REVG Reboot the system to ensure that the operating system is running in a stable fashion.
VGLOG-DISK-USAGE-WARNING	8389388	WARN	Disk usage exceeded warning threshold	The disk usage on a partition has exceeded a warning threshold, usually 85%.	The disk is filling up.	CKOP Clear out disk space if possible, monitor disk space carefully.
VGLOG-CPU-USAGE-WARNING	8389389	WARN	CPU usage exceeded warning threshold	The CPU usage has exceeded a warning threshold, usually 70%.	The CPU is being used up by the system and may impact performance and user experience.	CKOP Monitor CPU carefully for CPU increases.
VGLOG-MEM-USAGE-WARNING	8389390	WARN	MEM usage exceeded warning threshold	The memory usage has exceeded a warning threshold, usually 1.9GB.	The memory on the system is being used up. May be a memory leak.	CKOP Monitor memory carefully for memory leaks.
VGLOG-ENGINE-DIED-WARNING	8389391	WARN	Engine died warning event	Full CMP functionality will not be available.	The CMP Server (CMP Engine) has died.	CKOP Collect the logs of the CMP Server and report to Dialogic. Ensure that system is usable, if not reboot the system with the CMP Server.

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-COMP-DIED-WARNING	8389392	WARN	Component died warning event	A Dialogic component has died unexpectedly. The system will not function properly.	The component may have exited.	CKOP Look for the existence of core files and collect the logs of that process. Report to Dialogic. Ensure that system is usable, if not reboot the system.
VGLOG-DISK-USAGE-CLEAR	8389641	NOTE	Message to clear the disk usage threshold events	System is functioning normally.	The disk usage is no longer above a given threshold.	-
VGLOG-CPU-USAGE-CLEAR	8389642	NOTE	Message to clear the cpu usage threshold events	System is functioning normally.	The CPU usage is no longer above a given threshold.	-
VGLOG-MEM-USAGE-CLEAR	8389643	NOTE	Message to clear the mem usage threshold events	System is functioning normally.	The memory usage is no longer above a given threshold.	-
VGLOG-ETH-STATUS-CLEAR	8389644	NOTE	Message to clear the ethernet status event	System is functioning normally.	The Ethernet adaptor is now working correctly.	-
VGLOG-ENGINE-STATUS-CLEAR	8389645	NOTE	Message to clear the engine died warning event	System is functioning normally.	The CMP Server is operational once again.	-
VGLOG-COMP-STATUS-CLEAR	8389646	NOTE	Message to clear the component died warning event	System is functioning normally.	The component that had died is functional once again.	-
VGLOG-CANT-OPEN-CONFIGFILE	134219730	EROR	Can't open Configuration file.			CKCFG/REVG
VGLOG-SOCKET-SEND-FAILED-CMPP	134219731 (Old Alarm Number: 10000)	EROR	Socket send failed.	A message failed to get sent over the network.	Ethernet issue.	CKNW/REVG

Name	OID Suffix	Severity	Description	Effect	Causes	Response Code / Detailed Recommended Actions
VGLOG-VGASSERT-CMPP	135267305	CRIT	VGASSERT			REVG
VGLOG-CANT-OPEN-DLL-CMPP	138413034	CRIT	Can't open DLL library	A custom logging sink failed to open properly.	The custom logging sink's library path may not be configured properly or the library may be invalid.	REVG
VGLOG-CANT-RESOLVE-DLL-SYM-CMPP	138413035	CRIT	Can't resolve symbol in DLL	A custom logging sink failed to open properly.	The custom logging sink library may be invalid or an incorrect version.	REVG

Call Manager Traps (cmgrTraps)

Trap	OID	Description
cMLOGMOD-MTSTORED-FAILOPENFILEERR	1.3.6.1.4.1.7469.251.1.302.17827793	EROR Cannot Open file <filename>
cMLOGMOD-MTSTORED-UNSUPPAUDFRMT	1.3.6.1.4.1.7469.251.1.302.17827794	EROR Unsupported audio format g726 ADPCM 2-bit
cMLOGMOD-MTSTORED-FAILWRITEHEADER	1.3.6.1.4.1.7469.251.1.302.17827795	EROR Cannot write header into <filename>
cMLOGMOD-MTSTORED-IOWRITEERROR	1.3.6.1.4.1.7469.251.1.302.17827796	EROR I/O error when writing file
cMLOGMOD-MTSTORED-URLFETCHNOTOPEN	1.3.6.1.4.1.7469.251.1.302.17827797	EROR URLFetch for <filename> is NOT open
cMLOGMOD-MTSTORED-MEDIALOCBADFRMT	1.3.6.1.4.1.7469.251.1.302.17827798	EROR strMediaLocation(<URL>) requested from VXMLI is in wrong format
cMLOGMOD-MTSTORED-FAILRMVEFILE	1.3.6.1.4.1.7469.251.1.302.17828793	WARN Cannot remove file <record file> on abort
cMLOGMOD-MTSTORED-FAILNEWURLFETCH	1.3.6.1.4.1.7469.251.1.302.17828794	WARN Cannot create new URL fetch
cMLOGMOD-MTSTORED-FAILACCFETCHHAND	1.3.6.1.4.1.7469.251.1.302.17828795	WARN Cannot access fetch handle <fetch handle>

Trap	OID	Description
cMLOGMOD-MTSTORED-FAILRTVEINPSTRM	1.3.6.1.4.1.7469.251.1.302.17828796	WARN Cannot retrieve input stream from URLFetch
cMLOGMOD-MTSTORED-FAILCNECTURLFETCH	1.3.6.1.4.1.7469.251.1.302.17828797	WARN Cannot connect URLFetch
cMLOGMOD-MTSTORED-FAILOPENFETCHINPT	1.3.6.1.4.1.7469.251.1.302.17828798	WARN Cannot open FetchInput
cMLOGMOD-MTSTORED-OFFSETGRTRFILESIZE	1.3.6.1.4.1.7469.251.1.302.17828799	WARN Offset is greater than or equal to file size (<offset> >= <file size>)
cMLOGMOD-MTSTORED-URLFETCHRDSKERR	1.3.6.1.4.1.7469.251.1.302.17828800	WARN URLFetch read/seek had an error
cMLOGMOD-MTSTORED-PLYSTRTOFFSETINVD	1.3.6.1.4.1.7469.251.1.302.17828801	WARN Play start offset is invalid
cMLOGMOD-MTSTORED-NOTRETRVEINPTSTRM	1.3.6.1.4.1.7469.251.1.302.17828802	WARN Inputstream information not retrievable
cMLOGMOD-MTSTORED-FAILOPENFILEWARN	1.3.6.1.4.1.7469.251.1.302.17828803	WARN Cannot Open file <filename>
cMLOGMOD-LMBASE-IDGENDIRUNACCBLE	1.3.6.1.4.1.7469.251.1.302.22021097	CRIT ID generator directory not accessible
cMLOGMOD-LMBASE-SYSIDFILEUNACCBLE	1.3.6.1.4.1.7469.251.1.302.22021098	CRIT system.id file not accessible and not creatable
cMLOGMOD-LMBASE-SYSIPNOTRETRVABLE	1.3.6.1.4.1.7469.251.1.302.22021099	CRIT System IP Address not retrievable
cMLOGMOD-LMBASE-FAILUPDTEOPENCALLIDFILE	1.3.6.1.4.1.7469.251.1.302.22021100	CRIT 0x<orig>.id file cannot be opened for update
cMLOGMOD-LMBASE-NOTPUTSEQNUMTOCALLIDFILE	1.3.6.1.4.1.7469.251.1.302.22021101	CRIT Could not update seq number to 0x<orig>.id file
cMLOGMOD-LMBASE-ENVVARUNDEF	1.3.6.1.4.1.7469.251.1.302.22021102	CRIT Environment variable \${VG_IDGEN_DIR} or \${VG_SYSTEMID_PATH} undefined
cMLOGMOD-LMBASE-RESETCALLIDFILECONTNTINVD	1.3.6.1.4.1.7469.251.1.302.22022097	EROR 0x<orig>.id file reset due to invalid content
cMLOGMOD-LMBASE-RESETSYSIDFILECONTNTINVD	1.3.6.1.4.1.7469.251.1.302.22022098	EROR system.id file reset because content was invalid
cMLOGMOD-LMBASE-NOMEDIASESSPLAYAUDIO	1.3.6.1.4.1.7469.251.1.302.22023097	WARN No Media session playing audio for call
cMLOGMOD-LMBASE-NOMEDIASESSPLAYDTMF	1.3.6.1.4.1.7469.251.1.302.22023098	WARN No Media session playing DTMF for call
cMLOGMOD-LMBASE-MEDIAOPERDESTSESS	1.3.6.1.4.1.7469.251.1.302.22023099	WARN Media operaion on destroyed session for call
cMLOGMOD-LMBASE-NOMEDIASESSRECRDAUDIO	1.3.6.1.4.1.7469.251.1.302.22023100	WARN No Media session recording audio for call
cMLOGMOD-LMBASE-NOMEDIASESSSTREAMING	1.3.6.1.4.1.7469.251.1.302.22023101	WARN No Media session media streaming for call

Trap	OID	Description
cMLOGMOD-DLGCDEV-FAILOPENBOARD	1.3.6.1.4.1.7469.251.1.302.24119249	EROR Cannot open board device <board name>
cMLOGMOD-DLGCDEV-FAILDTOPEN	1.3.6.1.4.1.7469.251.1.302.24119250	EROR Failed to call dt_open on <isdn name>
cMLOGMOD-DLGCDEV-FAILDXSETPARM	1.3.6.1.4.1.7469.251.1.302.24119251	EROR Failed to call dx_setparm <vox name>
cMLOGMOD-DLGCDEV-FAILGCOPENEX	1.3.6.1.4.1.7469.251.1.302.24119252	EROR Failed to open Board <board name> reason (<fail reason>)
cMLOGMOD-DLGCDEV-FAILGETNETWORKH	1.3.6.1.4.1.7469.251.1.302.24119253	EROR Failed to gc_GetNetworkH <board name> device reason (<fail reason>)
cMLOGMOD-DLGCDEV-FAILGCRESLTINFO	1.3.6.1.4.1.7469.251.1.302.24119254	EROR gc_ResultInfo failed to retrieve error value
cMLOGMOD-DLGCDEV-DCHANSTATCHANGE	1.3.6.1.4.1.7469.251.1.302.24119255	EROR D channel status changed
cMLOGMOD-DLGCDEV-FAILGCDROPCALL	1.3.6.1.4.1.7469.251.1.302.24119256	EROR Calling gc_DropCall failed.
cMLOGMOD-DLGCDEV-NOGCEVRESETLINE	1.3.6.1.4.1.7469.251.1.302.24119257	EROR Did NOT receive GCEV_RESETLINE Event in <milli-seconds>ms, Recover Channel anyway
cMLOGMOD-DLGCDEV-NOEVENTRECVD	1.3.6.1.4.1.7469.251.1.302.24119258	EROR Did NOT receive <driver event name> Event in <milli-seconds>ms, Reset Channel, Total stuck (<stuck count>) times so far
cMLOGMOD-DLGCDEV-FAILGCMMAKECALL	1.3.6.1.4.1.7469.251.1.302.24119259	EROR gc_MakeCall failed (<trace information>)
cMLOGMOD-DLGCDEV-FAILGCRELEASECALLEX	1.3.6.1.4.1.7469.251.1.302.24119260	EROR gc_ReleaseCallEx fails. <trace information>
cMLOGMOD-DLGCDEV-FAILOPENCHAN	1.3.6.1.4.1.7469.251.1.302.24119261	EROR Channel <channel name> can Not be opened
cMLOGMOD-DLGCDEV-FAILGETVOICEH	1.3.6.1.4.1.7469.251.1.302.24119262	EROR Failed to call gc_GetVoiceH due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILGCLOADDXPARM	1.3.6.1.4.1.7469.251.1.302.24119263	EROR Failed to call gc_LoadDxParm due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXOPEN	1.3.6.1.4.1.7469.251.1.302.24119264	EROR Failed to call dx_open
cMLOGMOD-DLGCDEV-FAILDTSETSIGMOD	1.3.6.1.4.1.7469.251.1.302.24119265	EROR Cannot set SIGINS mode for <isdn name> by calling dt_setsigmod

Trap	OID	Description
cMLOGMOD-DLGCDEV-FAILDTSETEVTMSK	1.3.6.1.4.1.7469.251.1.302.24119266	EROR Cannot set event mask for <isdn name> by calling dt_setevtmsk
cMLOGMOD-DLGCDEV-FAILATTACHRESOURCE	1.3.6.1.4.1.7469.251.1.302.24119267	EROR gc_AttachResource() failure due to <fail reason>
cMLOGMOD-DLGCDEV-FAILDXSETEVTMSK	1.3.6.1.4.1.7469.251.1.302.24119268	EROR Failed to call dx_setevtmsk
cMLOGMOD-DLGCDEV-FAILDXSETSVMT	1.3.6.1.4.1.7469.251.1.302.24119269	EROR Failed to call dx_setsvmt. <fail reason>
cMLOGMOD-DLGCDEV-FAILGCGETXMITSLLOT	1.3.6.1.4.1.7469.251.1.302.24119270	EROR GCGetXmitSlot failure: <fail reason>
cMLOGMOD-DLGCDEV-FAILDXLISTEN	1.3.6.1.4.1.7469.251.1.302.24119271	EROR Failed to call dx_listen due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXGETXMITSLLOT	1.3.6.1.4.1.7469.251.1.302.24119272	EROR Failed to call dx_getxmitslot due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXSETDIGTYP	1.3.6.1.4.1.7469.251.1.302.24119273	EROR Failed to call dx_setdigtyp due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXCLRDIGBUF	1.3.6.1.4.1.7469.251.1.302.24119274	EROR Failed to call dx_clrdigbuf due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXINITCALLP	1.3.6.1.4.1.7469.251.1.302.24119275	EROR Failed to call dx_initcallp due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILECSETPARM	1.3.6.1.4.1.7469.251.1.302.24119276	EROR ec_setparm set DXCH_EC_TAP_LENGTH failed due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILGCANSWERCALL	1.3.6.1.4.1.7469.251.1.302.24119277	EROR gc_AnswerCall fails because <fail reason>
cMLOGMOD-DLGCDEV-FAILGCACCEPTCALL	1.3.6.1.4.1.7469.251.1.302.24119278	EROR Failed to call gc_AcceptCall due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILGCLINELISTEN	1.3.6.1.4.1.7469.251.1.302.24119279	EROR GCSourceListen dt_listen Failed <trace information> listen to <vox device>(vox dev), TS:(<time slot>)
cMLOGMOD-DLGCDEV-FAILGCERRORINFO	1.3.6.1.4.1.7469.251.1.302.24119281	EROR GetCauseMsg() -- gc_ErrorInfo failed
cMLOGMOD-DLGCDEV-FAILDXDIAL	1.3.6.1.4.1.7469.251.1.302.24119282	EROR Failed to call dx_dial(<trace information>). <extension>
cMLOGMOD-DLGCDEV-FAILECSTREAM	1.3.6.1.4.1.7469.251.1.302.24119283	EROR ec_stream failed. <trace information>

Trap	OID	Description
cMLOGMOD-DLGCDEV-FAILDXSETUIO	1.3.6.1.4.1.7469.251.1.302.24119284	EROR Failed to call dx_setuio()
cMLOGMOD-DLGCDEV-DXPLAYERROR	1.3.6.1.4.1.7469.251.1.302.24119285	EROR dx_play ERROR: <trace information>
cMLOGMOD-DLGCDEV-FAILGCSETCHANSTATE	1.3.6.1.4.1.7469.251.1.302.24119286	EROR Failed to call gc_SetChanState!!!
cMLOGMOD-DLGCDEV-FAILGCWAITCALL	1.3.6.1.4.1.7469.251.1.302.24119287	EROR Failed to call gc_WaitCall. <trace information>
cMLOGMOD-DLGCDEV-FAILDXCLOSE	1.3.6.1.4.1.7469.251.1.302.24119288	EROR The Vox device can not be closed due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILGCCLOSE	1.3.6.1.4.1.7469.251.1.302.24119289	EROR This channel can not be closed!!!
cMLOGMOD-DLGCDEV-FAILDTCLOSE	1.3.6.1.4.1.7469.251.1.302.24119290	EROR Failed to call dx_open
cMLOGMOD-DLGCDEV-FAILGCRESETLINEDEV	1.3.6.1.4.1.7469.251.1.302.24119291	EROR Cannot reset <trace information>
cMLOGMOD-DLGCDEV-TOOMANYFAIL	1.3.6.1.4.1.7469.251.1.302.24119292	EROR Too many failures, disable channel!!!
cMLOGMOD-DLGCDEV-BADCHANSTATE	1.3.6.1.4.1.7469.251.1.302.24119293	EROR Channel is not in right call state
cMLOGMOD-DLGCDEV-TSFRJNTMEOUT	1.3.6.1.4.1.7469.251.1.302.24119294	EROR Transfer/Join request timeout
cMLOGMOD-DLGCDEV-FAILDXWINK	1.3.6.1.4.1.7469.251.1.302.24119295	EROR dx_wink() failed on line <vox name> because <fail reason>
cMLOGMOD-DLGCDEV-FAILGCSNDMSG	1.3.6.1.4.1.7469.251.1.302.24119296	EROR gc_SndMsg failed: <fail reason>.
cMLOGMOD-DLGCDEV-FAILGCGETNETCRV	1.3.6.1.4.1.7469.251.1.302.24119297	EROR Failed to call gc_GetNetCRV() because (<fail reason>)
cMLOGMOD-DLGCDEV-REQFACNOTSBSCRBD	1.3.6.1.4.1.7469.251.1.302.24119298	EROR Requested facility not subscribed
cMLOGMOD-DLGCDEV-MSGNOTCOMPAT	1.3.6.1.4.1.7469.251.1.302.24119299	EROR Message not compatible with call state or message type non-existent or not implemented
cMLOGMOD-DLGCDEV-CHANUNACPTBLE	1.3.6.1.4.1.7469.251.1.302.24119300	EROR Channel unacceptable
cMLOGMOD-DLGCDEV-FAILTSFRJN	1.3.6.1.4.1.7469.251.1.302.24119301	EROR Transfer/Join request failed with unspecified reason
cMLOGMOD-DLGCDEV-UNRECCOMPT	1.3.6.1.4.1.7469.251.1.302.24119302	EROR Unrecognized component

Trap	OID	Description
cMLOGMOD-DLGCDEV-UNRECOPER	1.3.6.1.4.1.7469.251.1.302.24119303	EROR Unrecognized operation
cMLOGMOD-DLGCDEV-MISTYPDARG	1.3.6.1.4.1.7469.251.1.302.24119304	EROR Mistyped argument
cMLOGMOD-DLGCDEV-RESRCLIMITN	1.3.6.1.4.1.7469.251.1.302.24119305	EROR Resource limitation
cMLOGMOD-DLGCDEV-UNRECLNKID	1.3.6.1.4.1.7469.251.1.302.24119306	EROR Unrecognized linked identifier
cMLOGMOD-DLGCDEV-INVRDRTNUM	1.3.6.1.4.1.7469.251.1.302.24119307	EROR Invalid Redirect Number or Speed Dial Code
cMLOGMOD-DLGCDEV-RDRTLIMEXCEED	1.3.6.1.4.1.7469.251.1.302.24119308	EROR Redirect Limit exceeded or incomplete billing information
cMLOGMOD-DLGCDEV-INVDTGR	1.3.6.1.4.1.7469.251.1.302.24119309	EROR Invalid Trigger on current Call State
cMLOGMOD-DLGCDEV-FLOWCTRLPROB	1.3.6.1.4.1.7469.251.1.302.24119310	EROR Flow control issue:Resource Limitation
cMLOGMOD-DLGCDEV-INCCODEDFIE	1.3.6.1.4.1.7469.251.1.302.24119311	EROR Incorrectly coded FIE: Unrecognized component
cMLOGMOD-DLGCDEV-INVDCALLIDLGTH	1.3.6.1.4.1.7469.251.1.302.24119312	EROR Invalid CallIDLength <call-id length>
cMLOGMOD-DLGCDEV-IEBLCKERROR	1.3.6.1.4.1.7469.251.1.302.24119313	EROR <trace information> Cause IE block error <ie data>
cMLOGMOD-DLGCDEV-MANDIEMISSING	1.3.6.1.4.1.7469.251.1.302.24119314	EROR <isdn name>:Mandatory IE missing
cMLOGMOD-DLGCDEV-TSFRJNREJCTD	1.3.6.1.4.1.7469.251.1.302.24119315	EROR <isdn name>:The Transfer Connect was rejected by the switch, the cause value is <isdn cause value>
cMLOGMOD-DLGCDEV-ANITOO LONG	1.3.6.1.4.1.7469.251.1.302.24119316	WARN ANI=<ANI> is too long. Rejecting the call.
cMLOGMOD-DLGCDEV-FAILGCSTOP	1.3.6.1.4.1.7469.251.1.302.24119317	EROR Failed to call gc_Stop()...
cMLOGMOD-DLGCDEV-DTI1REDALRM	1.3.6.1.4.1.7469.251.1.302.24119318	EROR DTI1_RED Got a red alarm condition
cMLOGMOD-DLGCDEV-DTI1REDOK	1.3.6.1.4.1.7469.251.1.302.24119319	EROR DTI1_REDOK Red alarm condition recovered
cMLOGMOD-DLGCDEV-FAILGCGETUSRATTR	1.3.6.1.4.1.7469.251.1.302.24119320	EROR Failed to call gc_GetUsrAttr()
cMLOGMOD-DLGCDEV-FAILGETCHANPTR	1.3.6.1.4.1.7469.251.1.302.24119321	EROR Failed to get channel pointer

Trap	OID	Description
cMLOGMOD-DLGCDEV-INVTDXRECORD	1.3.6.1.4.1.7469.251.1.302.24119322	EROR Call gc_GetCRN failed, because (<trace information>)
cMLOGMOD-DLGCDEV-TDXERROR	1.3.6.1.4.1.7469.251.1.302.24119323	EROR Calling gc_DropCall failed.
cMLOGMOD-DLGCDEV-FREECHANMANAGEWOCC	1.3.6.1.4.1.7469.251.1.302.24119324	EROR DLGC_MT_FREECHANNE L_MANAGE can be true only if clear channel setup is active
cMLOGMOD-DLGCDEV-FAILPRSEDLGCCFG	1.3.6.1.4.1.7469.251.1.302.24119325	EROR Failed to parse dialogic configuration file
cMLOGMOD-DLGCDEV-FAILGCSTART	1.3.6.1.4.1.7469.251.1.302.24119326	EROR gc_Start() failed
cMLOGMOD-DLGCDEV-FAILGCSETINFOLEM	1.3.6.1.4.1.7469.251.1.302.24120249	WARN Failed to Call gc_SetInfoElem, reason (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXDELTONES	1.3.6.1.4.1.7469.251.1.302.24120250	WARN Failed to call dx_deltone due to (<fail reason>)
cMLOGMOD-DLGCDEV-FAILDXSTOPCH	1.3.6.1.4.1.7469.251.1.302.24120251	WARN %s: Cannot stop dx_stopch because <fail reason>
cMLOGMOD-DLGCDEV-FAILECSTOPCH	1.3.6.1.4.1.7469.251.1.302.24120252	WARN %s: Cannot stop dx_stopch because <fail reason>
cMLOGMOD-DLGCDEV-FAILGCSETPARM	1.3.6.1.4.1.7469.251.1.302.24120253	WARN Failed to call gc_SetParm, reason(<fail reason>)
cMLOGMOD-DLGCDEV-TDXDIALUNEXPTD	1.3.6.1.4.1.7469.251.1.302.24120254	WARN Received unexpected event - TDX_DIAL
cMLOGMOD-DLGCDEV-GLAREDETECTD	1.3.6.1.4.1.7469.251.1.302.24120255	WARN Glare detected on <trace information>
cMLOGMOD-DLGCDEV-FAILGCGETSIGINFO	1.3.6.1.4.1.7469.251.1.302.24120256	WARN <trace information>:Cannot get info element and reason is <fail reason>
cMLOGMOD-DLGCDEV-CANTFRWDDATA	1.3.6.1.4.1.7469.251.1.302.24120257	WARN Unable to forward data
cMLOGMOD-DLGCDEV-TASKFAILRCVD	1.3.6.1.4.1.7469.251.1.302.24120259	WARN Task Fail recieved
cMLOGMOD-LMSIP-NONSDPCONTENTTYPE	1.3.6.1.4.1.7469.251.1.302.25167825	EROR Rejecting INVITE; non-SDP payload
cMLOGMOD-LMSIP-CANTGETMSGCONTENTS	1.3.6.1.4.1.7469.251.1.302.25167826	EROR Rejecting INVITE; can't get message contents
cMLOGMOD-LMSIP-CANTDECODESDP	1.3.6.1.4.1.7469.251.1.302.25167827	EROR Rejecting INVITE; can't decode SDP

Trap	OID	Description
cMLOGMOD-LMSIP-BADREMOTESDP	1.3.6.1.4.1.7469.251.1.302.25167828	EROR Rejecting INVITE; bad remote SDP
cMLOGMOD-LMSIP-RECVUNEXPCTACK	1.3.6.1.4.1.7469.251.1.302.25167829	EROR Received unexpected ACK
cMLOGMOD-LMSIP-MEDIAERROR	1.3.6.1.4.1.7469.251.1.302.25167830	EROR Media error detected; terminating call
cMLOGMOD-LMSIP-ERRSNDINVRESPONSE	1.3.6.1.4.1.7469.251.1.302.25167831	EROR Error sending '183 Session Progress' response to INVITE
cMLOGMOD-LMSIP-CANTACCEPTNONINVITECALL	1.3.6.1.4.1.7469.251.1.302.25168825	WARN Attempt to accept call not in INVITE state
cMLOGMOD-LMSIP-ERRSNDINVITE	1.3.6.1.4.1.7469.251.1.302.25168826	WARN Error sending INVITE for <destination>
cMLOGMOD-LMSIP-ERRCREATERTPSESS	1.3.6.1.4.1.7469.251.1.302.25168827	WARN Rejecting INVITE; error creating local RTP session
cMLOGMOD-LMSIP-ERRCREATEPSTNSESS	1.3.6.1.4.1.7469.251.1.302.25168828	WARN Rejecting INVITE; error creating local PSTN session
cMLOGMOD-LMSIP-BYEFROMPARTICIPANT	1.3.6.1.4.1.7469.251.1.302.25168829	WARN Received BYE on unknown call participant
cMLOGMOD-LMMETROONE-GIMPMSGTIMEOUT	1.3.6.1.4.1.7469.251.1.302.26216401	EROR Timed out waiting for complete GIMP message
cMLOGMOD-LMMETROONE-INCALLOFFERTIMEOUT	1.3.6.1.4.1.7469.251.1.302.26216402	EROR Timed out waiting for both call control and off-hook to arrive on span , channel <channel number>
cMLOGMOD-LMMETROONE-FAILSOCKCREATE	1.3.6.1.4.1.7469.251.1.302.26216403	EROR socket create failed
cMLOGMOD-LMMETROONE-ERRSOCKTOISOS	1.3.6.1.4.1.7469.251.1.302.26216404	EROR Socket to ISOS had an error
cMLOGMOD-LMMETROONE-WRONGCONTEXTOFFHK	1.3.6.1.4.1.7469.251.1.302.26216405	EROR Off-hook signal detected in wrong context on span , channel <channel number>-ignoring
cMLOGMOD-LMMETROONE-WRONGCONTEXTONHK	1.3.6.1.4.1.7469.251.1.302.26216406	EROR On-hook signal detected in wrong context on span , channel <channel number>-ignoring
cMLOGMOD-LMMETROONE-FAILDTSETTSSIG	1.3.6.1.4.1.7469.251.1.302.26216407	EROR dt_settssig failed on span , channel <channel number>
cMLOGMOD-LMMETROONE-FAILRESETCHAN	1.3.6.1.4.1.7469.251.1.302.26216408	EROR reset channel failed for span , channel <channel number>

Trap	OID	Description
cMLOGMOD-LMMETROONE-MSGRECVNONNMSTR	1.3.6.1.4.1.7469.251.1.302.26216409	EROR Message received on non-master socket - chucking
cMLOGMOD-LMMETROONE-ISOSINITFAIL	1.3.6.1.4.1.7469.251.1.302.26216410	EROR ISOS notified initialization fail
cMLOGMOD-LMMETROONE-BADGIMPMSG	1.3.6.1.4.1.7469.251.1.302.26216411	EROR Bad GIMP message received - chucking
cMLOGMOD-LMMETROONE-SOCKTOISOSCLOSD	1.3.6.1.4.1.7469.251.1.302.26216412	EROR Socket to ISOS closed
cMLOGMOD-LMMETROONE-SIGBITSINVD	1.3.6.1.4.1.7469.251.1.302.26216413	EROR metro1.signalbits is invalid
cMLOGMOD-LMMETROONE-GLINESCFGERR	1.3.6.1.4.1.7469.251.1.302.26216414	EROR glines.cfg contains error
cMLOGMOD-LMMETROONE-NOISOSIPADDR	1.3.6.1.4.1.7469.251.1.302.26216415	EROR ISOS IP Address not defined
cMLOGMOD-LMMETROONE-ERRGETIPADDR	1.3.6.1.4.1.7469.251.1.302.26216416	EROR IP Address retrieve error
cMLOGMOD-LMMETROONE-SERVICETMPUNAVAIL	1.3.6.1.4.1.7469.251.1.302.26217401	WARN Service temporarily unavailable - call rejected
cMLOGMOD-LMMETROONE-CHANUNAVAIL	1.3.6.1.4.1.7469.251.1.302.26217402	WARN Channel is busy, temporarily unavailable, or out-of-service
cMLOGMOD-LMMETROONE-PARTGIMPMSG	1.3.6.1.4.1.7469.251.1.302.26217403	WARN GIMP message received partially - waiting for complete message
cMLOGMOD-LMMETROONE-FAILGETVGHOSTNAME	1.3.6.1.4.1.7469.251.1.302.26217404	WARN Failed to retrieve VG Host name - using 'VG Name Unknown
cMLOGMOD-LMH323-CALLSIGADDRPORTERR	1.3.6.1.4.1.7469.251.1.302.27264978	EROR CallSigAddr Port retrieve error
cMLOGMOD-LMH323-RASADDRPORTERR	1.3.6.1.4.1.7469.251.1.302.27264979	EROR RasAddr Port retrieve error
cMLOGMOD-LMH323-MEDIAERRDECTD	1.3.6.1.4.1.7469.251.1.302.27264980	EROR Media Error detected; terminating call
cMLOGMOD-LMH323-H225PORTNOTAVAIL	1.3.6.1.4.1.7469.251.1.302.27264981	EROR Not enough free ports for H.225 CS/RAS
cMLOGMOD-LMH323-H225PORTTAKEN	1.3.6.1.4.1.7469.251.1.302.27265977	WARN A port specified in h323.h225portrange is taken by another application
cMLOGMOD-LMH323-MSTRGATEIPEMPTY	1.3.6.1.4.1.7469.251.1.302.27266977	EROR Master Gatekeeper IP Address not specified, platform will not try to perform registration (RRQ)
cMLOGMOD-LMH323-FREESESSNOTAVAIL	1.3.6.1.4.1.7469.251.1.302.27266978	INFO No free session available for outbound call

Trap	OID	Description
cMLOGMOD-LMBRKT-CANTOPENBOARD	1.3.6.1.4.1.7469.251.1.302.28312553	CRIT Cannot open board <board number>
cMLOGMOD-LMBRKT-FAILBFVLINERESET	1.3.6.1.4.1.7469.251.1.302.28313553	EROR BfvLineReset recovery failed <channel name> Reset Status(0x<status>)
cMLOGMOD-LMBRKT-DLINK-UP	1.3.6.1.4.1.7469.251.1.302.28315553	INFO <line> is UP
cMLOGMOD-LMBRKT-DLINK-DOWN	1.3.6.1.4.1.7469.251.1.302.28315554	INFO <line> is DOWN
cMLOGMOD-SESSMGR-IDGENDIRUNACCBLE	1.3.6.1.4.1.7469.251.1.302.29361129	CRIT ID generator directory not accessible
cMLOGMOD-SESSMGR-SYSIDFILEUNACCBLE	1.3.6.1.4.1.7469.251.1.302.29361130	CRIT system.id file not accessible and not creatable
cMLOGMOD-SESSMGR-SYSIPNOTRETRVABLE	1.3.6.1.4.1.7469.251.1.302.29361131	CRIT System IP Address not retrievable
cMLOGMOD-SESSMGR-FAILUPDTEOPENCALLIDFILE	1.3.6.1.4.1.7469.251.1.302.29361132	CRIT 0x<orig>.id file cannot be opened for update
cMLOGMOD-SESSMGR-NOTPUTSEQNUMTOCALLIDFILE	1.3.6.1.4.1.7469.251.1.302.29361133	CRIT Could not update seq number to 0x<orig>.id file
cMLOGMOD-SESSMGR-ENVVARUNDEF	1.3.6.1.4.1.7469.251.1.302.29361134	CRIT Environment variable \${VG_IDGEN_DIR} or \${VG_SYSTEMID_PATH} undefined
cMLOGMOD-SESSMGR-VRMINITFAIL	1.3.6.1.4.1.7469.251.1.302.29361135	CRIT VRM Initialization Failed (<return value>)
cMLOGMOD-SESSMGR-BADFRMTSCPTAUDIO	1.3.6.1.4.1.7469.251.1.302.29362130	EROR Badly formatted script file - Something wrong with an audio file on line <request ID>.
cMLOGMOD-SESSMGR-BADFRMTSCPTTTS	1.3.6.1.4.1.7469.251.1.302.29362131	EROR Badly formatted script file - Something wrong with TTS request on line <request ID>
cMLOGMOD-SESSMGR-BADFRMTSCPTSTRMNG	1.3.6.1.4.1.7469.251.1.302.29362132	EROR Badly formatted script file - Something wrong for streaming on line <request ID>.
cMLOGMOD-SESSMGR-NOLICENSE	1.3.6.1.4.1.7469.251.1.302.29362133	EROR No license for product [<product name>] feature [<feature name>]
cMLOGMOD-SESSMGR-LICENSEEXPIRED	1.3.6.1.4.1.7469.251.1.302.29362134	EROR License will expire within [<days>] days for product [<product name>] feature [<feature name>]
cMLOGMOD-SESSMGR-LICENSEEXPIRE8DAYS	1.3.6.1.4.1.7469.251.1.302.29362135	WARN License will expire within [<days>] days for product [<product name>] feature [<feature name>]

Trap	OID	Description
cMLOGMOD-SESSMGR-NOLICENSEINBOUNDCALL	1.3.6.1.4.1.7469.251.1.302.29362136	EROR Cannot obtain a license for the inbound call <call-id>
cMLOGMOD-SESSMGR-NOLICENSETRFROUTCALL	1.3.6.1.4.1.7469.251.1.302.29362137	EROR Cannot obtain a license for the transfer-initiated outbound call from parent call <call-id>
cMLOGMOD-SESSMGR-NOTTSLICENSE	1.3.6.1.4.1.7469.251.1.302.29362138	EROR Cannot obtain any TTS license
cMLOGMOD-SESSMGR-NOASRLICENSE	1.3.6.1.4.1.7469.251.1.302.29362139	EROR Cannot obtain any ASR license
cMLOGMOD-SESSMGR-NOLICENSEREMDLOUTCALL	1.3.6.1.4.1.7469.251.1.302.29362140	EROR Cannot obtain a license for the remote dial outbound call
cMLOGMOD-SESSMGR-NOLICENSEOUTBOUNDCALL	1.3.6.1.4.1.7469.251.1.302.29362141	EROR Cannot obtain a license for the outbound call <call-id>
cMLOGMOD-SESSMGR-CMLMHANDDESTWHILEREGL	1.3.6.1.4.1.7469.251.1.302.29362142	EROR SMLMHandler is destroyed while stilled registered.
cMLOGMOD-SESSMGR-HMHANDLRDESTWHILEREGL	1.3.6.1.4.1.7469.251.1.302.29362143	EROR Health Monitor Handler is destroyed while still registered.
cMLOGMOD-SESSMGR-OUTCALLNORESOURCE	1.3.6.1.4.1.7469.251.1.302.29362144	EROR Outbound call [<call-id>] rejected due to no resource
cMLOGMOD-SESSMGR-TTSMGRLOST	1.3.6.1.4.1.7469.251.1.302.29362145	EROR TTS Manager was lost while doing synthesis.
cMLOGMOD-SESSMGR-DESTURINOTSUPP	1.3.6.1.4.1.7469.251.1.302.29362147	EROR Destination URI is not supported
cMLOGMOD-SESSMGR-STRMMODUNEXPTVENT	1.3.6.1.4.1.7469.251.1.302.29362149	EROR Streaming module returns unexpected event <event> on StreamID <stream ID>
cMLOGMOD-SESSMGR-LOSTASRMGR	1.3.6.1.4.1.7469.251.1.302.29362150	EROR ASR Manager was lost while recognizing.
cMLOGMOD-SESSMGR-INITCALLSESSWNOLNMGR	1.3.6.1.4.1.7469.251.1.302.29362151	EROR Initializing CallSession with a NULL LineManager
cMLOGMOD-SESSMGR-RESETCALLIDFILECONTNTINVD	1.3.6.1.4.1.7469.251.1.302.29362152	EROR 0x<orig>.id file reset due to invalid content
cMLOGMOD-SESSMGR-RESETSYSIDFILECONTNTINVD	1.3.6.1.4.1.7469.251.1.302.29362153	EROR system.id file reset because content was invalid
cMLOGMOD-SESSMGR-ISDNCAUSECODEERR	1.3.6.1.4.1.7469.251.1.302.29362154	EROR ISDN cause code (<isdn cause>) is out of range

Trap	OID	Description
cMLOGMOD-SESSMGR-UNEXPECTTTTERROR	1.3.6.1.4.1.7469.251.1.302.29363129	WARN Unexpected TTS error event [<event>]
cMLOGMOD-SESSMGR-EXPIREASRTTSIGNORED	1.3.6.1.4.1.7469.251.1.302.29363130	WARN Expired ASR/TTS response <event name> ignored
cMLOGMOD-SESSMGR-UNEXPECTCMCALLBILLEVENT	1.3.6.1.4.1.7469.251.1.302.29363131	WARN [<call-id>] Unexpected CallBilling event [<call-id>] for session type [<create reason>]
cMLOGMOD-SESSMGR-TTSSTOPMULTIATTMPT	1.3.6.1.4.1.7469.251.1.302.29363132	WARN TTS Play sent but reply not received. Stopping TTS within '<milli-seconds>' milliseconds
cMLOGMOD-SESSMGR-FAILMEDSTRMRESLT	1.3.6.1.4.1.7469.251.1.302.29363133	WARN LMInterface::MediaStreamResult failed with m_nResult <stream result>
cMLOGMOD-SESSMGR-INBOUNDDTMF	1.3.6.1.4.1.7469.251.1.302.29364129	INFO DTMF: rejected <dtmf>
cMLOGMOD-SESSMGR-OBTAINEDTTSASRLICNSE	1.3.6.1.4.1.7469.251.1.302.29364130	INFO Obtained <num licenses> TTS Licenses and <num licenses> ASR Licenses
cMLOGMOD-SESSMGR-NOINOUTLINES	1.3.6.1.4.1.7469.251.1.302.29364131	INFO No Inbound/Outbound lines in service
cMLOGMOD-SMPWMAPI-VXMLINOTCONNECTED	1.3.6.1.4.1.7469.251.1.302.31459281	EROR vxmli process is not connected
cMLOGMOD-SMPWMAPI-ADDAPPDNISDNSTOOLONG	1.3.6.1.4.1.7469.251.1.302.31459288	EROR Unable to add app: dnis(<DNIS>) or dn(<DN>) too long
cMLOGMOD-SMPWMAPI-FAILADDAPPTODICT	1.3.6.1.4.1.7469.251.1.302.31459289	EROR Unable to add app to dictionary: dnis = <DNIS>; dn = <DN>
cMLOGMOD-SMPWMAPI-CHANGEAPPDNISDNSTOOLONG	1.3.6.1.4.1.7469.251.1.302.31459291	EROR Unable to change app: dnis(<DNIS>) or dn(<DN>) too long
cMLOGMOD-SMPWMAPI-FAILCHANGEAPPINDICT	1.3.6.1.4.1.7469.251.1.302.31459292	EROR Unable to change app in dictionary: dnis = <DNIS>; dn = <DN>
cMLOGMOD-SMPWMAPI-FAILDELAPPFROMDICT	1.3.6.1.4.1.7469.251.1.302.31459295	EROR Unable to delete app in dictionary: dnis = <DNIS>
cMLOGMOD-SMPWMAPI-PROBGETQUERYAPPMSG	1.3.6.1.4.1.7469.251.1.302.31459296	EROR Problem getting PW_CmgrQueryDNISIndIn msg <message>
cMLOGMOD-SMPWMAPI-QUERYAPPDNISDNSTOOLONG	1.3.6.1.4.1.7469.251.1.302.31459297	EROR Unable to query app: dnis(<DNIS>) or dn(<DN>) too long

Trap	OID	Description
cMLOGMOD-SMPWMAPI-UNEXPECTEDDISCREASON	1.3.6.1.4.1.7469.251.1.302.31460281	WARN Translating unexpected DISCREASON <disc reason>
cMLOGMOD-SMMAIN-VRMDLLLOADFAIL	1.3.6.1.4.1.7469.251.1.302.32506857	CRIT VRM DLL(<vrm client dll>) load failed
cMLOGMOD-SMMAIN-VRMSETLOGFAIL	1.3.6.1.4.1.7469.251.1.302.32506858	CRIT SET_VGLOG() cannot be found in (<vrm client dll>)
cMLOGMOD-SMMAIN-MAKEVRMFAIL	1.3.6.1.4.1.7469.251.1.302.32506859	CRIT MakeVRMModule() failed for (<vrm client dll>)
cMLOGMOD-SMMAIN-CREATEVRMFAIL	1.3.6.1.4.1.7469.251.1.302.32506860	CRIT CreateVRMLib() failed for (<vrm client dll>)
cMLOGMOD-SMMAIN-CALLMGRCFGPARAMERR	1.3.6.1.4.1.7469.251.1.302.32506862	CRIT Configuration parameter <config parameter name> is not set properly.
cMLOGMOD-SMMAIN-LOADTOOMANYCMGRMOD	1.3.6.1.4.1.7469.251.1.302.32506863	CRIT Trying to load more than <module count> callmgr.modules
cMLOGMOD-SMMAIN-FAILCREATECMGRMOD	1.3.6.1.4.1.7469.251.1.302.32506864	CRIT Failed to create <module name>
cMLOGMOD-SMMAIN-LOADTOOMANYDEVICE	1.3.6.1.4.1.7469.251.1.302.32506865	CRIT Trying to load more than <device module name> callmgr.devices
cMLOGMOD-SMMAIN-FAILCREATEDevice	1.3.6.1.4.1.7469.251.1.302.32506866	CRIT Failed to create <device module name>
cMLOGMOD-SMMAIN-FAILINITDEVICE	1.3.6.1.4.1.7469.251.1.302.32506867	CRIT Failed to initialize <device module name>
cMLOGMOD-SMMAIN-LOADTOOMANYMEDTRPT	1.3.6.1.4.1.7469.251.1.302.32506868	CRIT Trying to load more than <media transport name> callmgr.mediatransports
cMLOGMOD-SMMAIN-FAILCREATEDMEDTRPT	1.3.6.1.4.1.7469.251.1.302.32506869	CRIT Failed to create <media transport name>
cMLOGMOD-SMMAIN-FAILINITMEDTRPT	1.3.6.1.4.1.7469.251.1.302.32506870	CRIT Failed to initialize <media transport name>
cMLOGMOD-SMMAIN-LOADTOOMANYLNMGRS	1.3.6.1.4.1.7469.251.1.302.32506871	CRIT Trying to load more than <module count> callmgr.linemanagers
cMLOGMOD-SMMAIN-FAILCREATELNMGR	1.3.6.1.4.1.7469.251.1.302.32506872	CRIT Failed to create <line manager module name>
cMLOGMOD-SMMAIN-FAILINITLNMGR	1.3.6.1.4.1.7469.251.1.302.32506873	CRIT Failed to initialize <line manager module name>
cMLOGMOD-SMMAIN-SESSMGRAPPMODCFGERR	1.3.6.1.4.1.7469.251.1.302.32506874	CRIT Configuration parameter sessmgr.appmodules is not set properly.

Trap	OID	Description
cMLOGMOD-SMMAIN-LOADTOOMANYAPPMOD	1.3.6.1.4.1.7469.251.1.302.32506875	CRIT Trying to load more than <module count> sessmgr.appmodules
cMLOGMOD-SMMAIN-SESSMGRMODCFGERR	1.3.6.1.4.1.7469.251.1.302.32506876	CRIT Configuration parameter sessmgr.modules is not set properly.
cMLOGMOD-SMMAIN-LOADTOOMANYSESSMOD	1.3.6.1.4.1.7469.251.1.302.32506877	CRIT Trying to load more than <module count> sessmgr.modules
cMLOGMOD-SMMAIN-FAILOPENLICENSE	1.3.6.1.4.1.7469.251.1.302.32506878	CRIT Cannot initialize license manager with license file <filename>. File open error.
cMLOGMOD-SMMAIN-FAILPARSELICENSE	1.3.6.1.4.1.7469.251.1.302.32506879	CRIT Cannot initialize license manager with license file <filename>. File parse error.
cMLOGMOD-SMMAIN-MACVALIDERR	1.3.6.1.4.1.7469.251.1.302.32506880	CRIT Cannot initialize license manager with license file <filename>. MAC validation error.
cMLOGMOD-SMMAIN-GENINITLICERR	1.3.6.1.4.1.7469.251.1.302.32506881	CRIT Cannot initialize license manager with license file <filename>. General Error.
cMLOGMOD-SMMAIN-CANTCREATEVGNETLIB	1.3.6.1.4.1.7469.251.1.302.32506882	CRIT Cannot create VGNetLib
cMLOGMOD-SMMAIN-CANTINITVGNETLIB	1.3.6.1.4.1.7469.251.1.302.32506883	CRIT Cannot initialize VGNetLib
cMLOGMOD-SMMAIN-FAILINITCFGOBJ	1.3.6.1.4.1.7469.251.1.302.32506884	CRIT Failed to initialize configuration object
cMLOGMOD-SMMAIN-CANTSTARTCMGR	1.3.6.1.4.1.7469.251.1.302.32506885	CRIT Cannot start CallManager
cMLOGMOD-SMMAIN-FAILLOADAPPMODLIB	1.3.6.1.4.1.7469.251.1.302.32507858	EROR App Module Library <app module name> failed to load
cMLOGMOD-SMMAIN-FAILINITAPPMOD	1.3.6.1.4.1.7469.251.1.302.32507859	EROR App module <app module name> failed to initialize
cMLOGMOD-SMMAIN-NOVLDAPPMODINLIB	1.3.6.1.4.1.7469.251.1.302.32507860	EROR Library <app module name> did not contain any valid app module
cMLOGMOD-SMMAIN-LIBNODEFMAKEAPPMOD	1.3.6.1.4.1.7469.251.1.302.32507861	EROR Library <app module name> does not define MakeAppModule()
cMLOGMOD-SMMAIN-VXMLAPPMODNOTLOAD	1.3.6.1.4.1.7469.251.1.302.32507862	CRIT VXML App module not loaded

Trap	OID	Description
cMLOGMOD-CMGRCMPAGENT-FAILINITCMPAGENT	1.3.6.1.4.1.7469.251.1.302.33556433	EROR Failed to initialize CMGR CMP agent. <fail reason>
cMLOGMOD-CMGRCMPAGENT-PROVHANDLINGFAIL	1.3.6.1.4.1.7469.251.1.302.33556434	EROR Provision Handling failure. <detail>
cMLOGMOD-CMGRCMPAGENT-CMPFEATNOTFUNCTN	1.3.6.1.4.1.7469.251.1.302.33557433	WARN May not fully function CMP features. <fail reason>
cMLOGMOD-CMGRCMPAGENT-PROVHANDREGFAIL	1.3.6.1.4.1.7469.251.1.302.33557434	WARN Provision Handler Registration failure. Type=<provision type>
cMLOGMOD-CMGRCMPAGENT-CHANSTATUSEVENT	1.3.6.1.4.1.7469.251.1.302.33558433	INFO <service status>
cMLOGMOD-CMGRCMPAGENT-BOARDSTATUSEVENT	1.3.6.1.4.1.7469.251.1.302.33558434	INFO <service status>
cMLOGMOD-CMUTIL-TELNUMLONG	1.3.6.1.4.1.7469.251.1.302.34605009	EROR Telephone Number is more than 60 chars
cMLOGMOD-CMUTIL-TELNUMINVCHAR	1.3.6.1.4.1.7469.251.1.302.34605010	EROR Telephone Number contains invalid chars
cMLOGMOD-CMUTIL-POSTDIALLONG	1.3.6.1.4.1.7469.251.1.302.34605011	EROR Post Dial Number is more than 196 chars
cMLOGMOD-CMUTIL-POSTDIALINVCHAR	1.3.6.1.4.1.7469.251.1.302.34605012	EROR Post Dial Number contains invalid chars
cMLOGMOD-CMUTIL-CONFLICTEXT	1.3.6.1.4.1.7469.251.1.302.34605013	EROR URI has both 'x' and 'postd=' (conflicting extensions)
cMLOGMOD-CMUTIL-HUNTGPINVTUNK	1.3.6.1.4.1.7469.251.1.302.34605014	EROR HuntGroup <hunt group number> definition consists of an invalid Trunk <trnk>
cMLOGMOD-CMUTIL-HUNTGPNONEXISTTRUNK	1.3.6.1.4.1.7469.251.1.302.34606009	WARN HuntGroup <hunt group number> definition consists of a valid but non-existing Trunk <trunk>
cMLOGMOD-CMUTIL-CALLREQNONEXISTHUNTGP	1.3.6.1.4.1.7469.251.1.302.34606010	WARN Transfer/Outbound request using non-existing HuntGroup <hunt group number>
cMLOGMOD-CMUTIL-WAITFORDIAL	1.3.6.1.4.1.7469.251.1.302.34606011	WARN A 'w' (wait for dialtone) character was present in the URI string and was ignore
cMLOGMOD-CMUTIL-ATTRIBLONG	1.3.6.1.4.1.7469.251.1.302.34606012	WARN A parameter attribute has exceeded the 256 character limit and was truncated

Trap	OID	Description
cMLOGMOD-CMUTIL-VALUELONG	1.3.6.1.4.1.7469.251.1.302.34606013	WARN A parameter value has exceeded the 256 character limit and was truncated
cMLOGMOD-APPMODULE-FAILSTRTWORKNGTHRD	1.3.6.1.4.1.7469.251.1.302.35652585	CRIT Failed to start working thread (<thread name>)
cMLOGMOD-APPMODULE-FAILREGAPP	1.3.6.1.4.1.7469.251.1.302.35653585	EROR (<result>) Failed to register application
cMLOGMOD-APPMODULE-FAILREGAPPMOD	1.3.6.1.4.1.7469.251.1.302.35653586	EROR (<result>) Failed to register application module <app module name> of type <app module type name>
cMLOGMOD-APPMODULE-FAILBINDAPP	1.3.6.1.4.1.7469.251.1.302.35654585	WARN (<bind result>) Failed to bind application
cMLOGMOD-APPMODULE-EVNTWHENAPPMODNOTINIT	1.3.6.1.4.1.7469.251.1.302.35654586	WARN Event received but application module not yet initialized, event ignored
cMLOGMOD-VXMLMODULE-UNEXPTEVENTSTAT	1.3.6.1.4.1.7469.251.1.302.36702161	EROR Unexpected vxmli event status [<compile fail status>]
cMLOGMOD-VXMLMODULE-FAILSETUPINCALL	1.3.6.1.4.1.7469.251.1.302.36702162	EROR Failed to setup inbound call
cMLOGMOD-VXMLMODULE-FAILCREATECALL	1.3.6.1.4.1.7469.251.1.302.36702163	EROR (<result>) Failed to create call
cMLOGMOD-VXMLMODULE-VXMLHDLRNOTREG	1.3.6.1.4.1.7469.251.1.302.36702164	EROR vxmli handler not registered - (VxmliBinded) ignored
cMLOGMOD-VXMLMODULE-CANTPARSEPWMAPIMSG	1.3.6.1.4.1.7469.251.1.302.36702165	EROR Cannot parse PWMAPI msg: <message>
cMLOGMOD-VXMLMODULE-CANTPARSECALLIDARG	1.3.6.1.4.1.7469.251.1.302.36702166	EROR Cannot parse call id argument(s)
cMLOGMOD-VXMLMODULE-BADFRMTSCPT	1.3.6.1.4.1.7469.251.1.302.36702167	EROR Badly formatted script file - Something wrong with the first 5 parameters on line <line number>.
cMLOGMOD-VXMLMODULE-FAILOPENSCPT	1.3.6.1.4.1.7469.251.1.302.36702168	EROR Cannot Open script file <prompt file>
cMLOGMOD-VXMLMODULE-UNEXPROUTEVENT	1.3.6.1.4.1.7469.251.1.302.36702171	EROR Unexpected route event
cMLOGMOD-VXMLMODULE-IGNRAUDCTRLWBARGEIN	1.3.6.1.4.1.7469.251.1.302.36703161	WARN Ignoring Audio Control with Bargein on line <line number> in <content>.
cMLOGMOD-VXMLMODULE-UNEXPTPLAYDONE	1.3.6.1.4.1.7469.251.1.302.36703162	WARN Unexpected play done status on broadcast call leg: Result(<result>), ErrCodea(<error code>)

Trap	OID	Description
cMLOGMOD-VXMLMODULE-PARSEWARNINCALLLOG	1.3.6.1.4.1.7469.251.1.302.36703163	WARN Parse warning in callog <log> [<reason>]
cMLOGMOD-APPCCM-UNEXPECTSTATE	1.3.6.1.4.1.7469.251.1.302.37750737	EROR error unexpected state ... expected <expected state>, actually <actual state>
cMLOGMOD-APPCCM-DELETEWITHNODISABLE	1.3.6.1.4.1.7469.251.1.302.37750738	EROR error we should have been disabled before being deleted
cMLOGMOD-APPCCM-EXPTDRELEASECAUSE	1.3.6.1.4.1.7469.251.1.302.37750739	EROR error expected RELEASE_CAUSE in this message
cMLOGMOD-APPCCM-UNEXPTDRELEASECAUSE	1.3.6.1.4.1.7469.251.1.302.37750740	EROR error unexpected RELEASE_CAUSE value in this message
cMLOGMOD-APPCCM-UNEXPTDAPPSTATE	1.3.6.1.4.1.7469.251.1.302.37750741	EROR error unexpected application state expected <expected state> actually <actual state>
cMLOGMOD-APPCCM-FAILAPPCREATE	1.3.6.1.4.1.7469.251.1.302.37751737	WARN error AppCreate received when we're not up
cMLOGMOD-APPCCM-UNEXPTVALUES	1.3.6.1.4.1.7469.251.1.302.37751738	WARN error unexpected values
cMLOGMOD-APPCCM-FAILTOREG	1.3.6.1.4.1.7469.251.1.302.37751739	WARN error failed to register
cMLOGMOD-APPCCM-FAILTOBIND	1.3.6.1.4.1.7469.251.1.302.37751740	WARN error failed to bind
cMLOGMOD-CONTCHECK-FAILCREATECALL	1.3.6.1.4.1.7469.251.1.302.38799313	EROR Failed to create call
cMLOGMOD-CONTCHECK-FAILSETUPINCALL	1.3.6.1.4.1.7469.251.1.302.38799314	EROR Failed to setup inbound call
cMLOGMOD-CONTCHECK-EVENTINUNEXPTSTATE	1.3.6.1.4.1.7469.251.1.302.38800313	WARN Received event in unexpected state
cMLOGMOD-REMDIAL-FAILREGREMDLMD	1.3.6.1.4.1.7469.251.1.302.39847889	EROR (<result>) Failed to register remdial module <module name> of type <module type name>
cMLOGMOD-REMDIAL-CANTCREATESERVERSOCK	1.3.6.1.4.1.7469.251.1.302.39847890	EROR csopen() failed
cMLOGMOD-REMDIAL-SOCKETERROR	1.3.6.1.4.1.7469.251.1.302.39847891	EROR TN_FATAL error on fd <socket id>
cMLOGMOD-REMDIAL-MAXCALLSWARN	1.3.6.1.4.1.7469.251.1.302.39848889	WARN Cannot have <current calls> max calls [> MAXCALL (<max>)]
cMLOGMOD-REMDIAL-MAXCLIENTS	1.3.6.1.4.1.7469.251.1.302.39848890	WARN Maximum remdial clients reached[MAXPQ (<max>)]

Trap	OID	Description
cMLOGMOD-REMDIAL-NOACTIVESESS	1.3.6.1.4.1.7469.251.1.302.39848891	WARN No socket found for fd <socket id>
cMLOGMOD-REMDIAL-MAXCALLSREACHED	1.3.6.1.4.1.7469.251.1.302.39848892	WARN Max calls (<max>) reached, fd <socket id>
cMLOGMOD-SBCPOLICY-FAILSETUPINCALL	1.3.6.1.4.1.7469.251.1.302.40896465	EROR Failed to setup inbound call
cMLOGMOD-SBCPOLICY-ENVELOPCREATEERR	1.3.6.1.4.1.7469.251.1.302.40896466	EROR Error in SOAP Envelope creation (<request identifier>)
cMLOGMOD-SBCPOLICY-TRANSPORTERR	1.3.6.1.4.1.7469.251.1.302.40896467	EROR Error in communication with Policy Server (<request identifier>)
cMLOGMOD-SBCPOLICY-ENVELOPRETRIEVEERR	1.3.6.1.4.1.7469.251.1.302.40896468	EROR Error in SOAP Envelope retrieval (<request identifier>)
cMLOGMOD-SBCPOLICY-MESSAGETOOLONG	1.3.6.1.4.1.7469.251.1.302.40896469	EROR SOAP field value truncated from <old length> to <new length>
cMLOGMOD-SBCPOLICY-ERRORINFO	1.3.6.1.4.1.7469.251.1.302.40897465	WARN [<call-id>] Error Info: <error info>
cMLOGMOD-SBCPOLICY-REQUEST	1.3.6.1.4.1.7469.251.1.302.40898465	INFO PolicyServerRequest: <ODRG> <destination> <request type>
cMLOGMOD-SBCPOLICY-RESPONSE	1.3.6.1.4.1.7469.251.1.302.40898466	INFO PolicyServerResponse: <success fail> <trunk group> <release link> <authorization>
cMLOGMOD-SBCPOLICY-TRANSFERTYPE	1.3.6.1.4.1.7469.251.1.302.40898467	INFO TransferType: <transfer name>
cMLOGMOD-SBCPOLICY-TRUNKGROUP	1.3.6.1.4.1.7469.251.1.302.40898468	INFO TrunkGroupID: <trunk group>
cMLOGMOD-LMSIP2-RECVUNEXPTACK	1.3.6.1.4.1.7469.251.1.302.41945041	EROR Received unexpected ACK
cMLOGMOD-LMSIP2-MEDIAERROR	1.3.6.1.4.1.7469.251.1.302.41945042	EROR Media error detected; terminating call
cMLOGMOD-LMSIP2-REGISTERTIMEOUT	1.3.6.1.4.1.7469.251.1.302.41945044	EROR 408 response for REGISTER request
cMLOGMOD-LMSIP2-REGISTERBADREQUEST	1.3.6.1.4.1.7469.251.1.302.41945045	EROR 400 response for REGISTER request
cMLOGMOD-LMSIP2-REGISTERFORBIDDEN	1.3.6.1.4.1.7469.251.1.302.41945046	EROR 403 response for REGISTER request
cMLOGMOD-LMSIP2-REGISTERNOTFOUND	1.3.6.1.4.1.7469.251.1.302.41945047	EROR 404 response for REGISTER request
cMLOGMOD-LMSIP2-REGISTERNOTACCEPTABLE	1.3.6.1.4.1.7469.251.1.302.41945048	EROR 488 response for REGISTER request

Trap	OID	Description
cMLOGMOD-LMSIP2-REGISTEROTHERERROR	1.3.6.1.4.1.7469.251.1.302.41945049	EROR Other kinds of response for REGISTER request from registrar
cMLOGMOD-LMSIP2-ERRPARSESDPCONTENT	1.3.6.1.4.1.7469.251.1.302.41945051	EROR Failed to parse SDP content due to %s
cMLOGMOD-LMSIP2-REGISTERALGONOTSUPPORTED	1.3.6.1.4.1.7469.251.1.302.41945052	EROR Other kinds of response for REGISTER request from registrar
cMLOGMOD-LMSIP2-REGISTERAUTHENTICATIONERROR	1.3.6.1.4.1.7469.251.1.302.41945053	EROR Authentication error. Potentially mismatching user name password pairs
cMLOGMOD-LMSIP2-NONMATCHINGSIPINFO	1.3.6.1.4.1.7469.251.1.302.41945054	EROR Received SIP INFO message does not match with any existing calls
cMLOGMOD-LMSIP2-CANTACCEPTNONINVITECALL	1.3.6.1.4.1.7469.251.1.302.41946041	WARN Attempt to accept call not in INVITE state
cMLOGMOD-LMSIP2-ERRSNDINVITE	1.3.6.1.4.1.7469.251.1.302.41946042	WARN Error sending INVITE for <destination>
cMLOGMOD-LMSIP2-ERRCREATERTPSESS	1.3.6.1.4.1.7469.251.1.302.41946043	WARN Rejecting INVITE; error creating local RTP session
cMLOGMOD-LMSIP2-ERRCREATEPSTNSESS	1.3.6.1.4.1.7469.251.1.302.41946044	WARN Rejecting INVITE; error creating local PSTN session
cMLOGMOD-LMSIP2-BADDYNAMICPAYLOAD	1.3.6.1.4.1.7469.251.1.302.41946045	WARN Received SDP that contains dynamic payload(payload) that is not defined in rtpmap
cMLOGMOD-LMSIP2-MESSAGE	1.3.6.1.4.1.7469.251.1.302.41947041	INFO Request/response received/sent
cMLOGMOD-LMSIP2-PROCDELAY	1.3.6.1.4.1.7469.251.1.302.41947042	INFO SIP2 processing delay is %d msec
cMLOGMOD-CONFERENCE-FAILED	1.3.6.1.4.1.7469.251.1.302.42993617	EROR Conference failed
cMLOGMOD-CONFERENCE-UNEXPTREASON	1.3.6.1.4.1.7469.251.1.302.42993618	EROR Received unexpected conference change reason
cMLOGMOD-CONFERENCE-ESTABLISHED	1.3.6.1.4.1.7469.251.1.302.42995617	INFO Conference established
cMLOGMOD-CONFERENCE-TERMINATED	1.3.6.1.4.1.7469.251.1.302.42995618	INFO Conference terminated
cMLOGMOD-PORTCOUNT-SOFTLIMIT	1.3.6.1.4.1.7469.251.1.302.44043193	WARN Soft limit exceeded
cMLOGMOD-PORTCOUNT-HARDLIMIT	1.3.6.1.4.1.7469.251.1.302.44043194	WARN Hard limit exceeded
cMLOGMOD-PORTCOUNT-MINREQUIRED	1.3.6.1.4.1.7469.251.1.302.44043195	WARN Minimum required limit exceeded
cMLOGMOD-PORTCOUNT-INFOEXPIRE	1.3.6.1.4.1.7469.251.1.302.44044193	INFO Port count info expired

Trap	OID	Description
cMLOGMOD-SQA-DTMF	1.3.6.1.4.1.7469.251.1.302.45092769	INFO dtmf_input <dtmf>
cMLOGMOD-SQA-TRANSFERSTART	1.3.6.1.4.1.7469.251.1.302.45092770	INFO transfer_start
cMLOGMOD-SQA-TRANSFEREND	1.3.6.1.4.1.7469.251.1.302.45092771	INFO transfer_end
cMLOGMOD-SQA-PROMPTTYPE	1.3.6.1.4.1.7469.251.1.302.45092772	INFO prompt_type <fetchaudio regular>
cMLOGMOD-SQA-RECOGNITIONSTART	1.3.6.1.4.1.7469.251.1.302.45092774	INFO asr_start
cMLOGMOD-SQA-RECOGNITIONEND	1.3.6.1.4.1.7469.251.1.302.45092775	INFO asr_end <reason>
cMLOGMOD-SQA-OPENRECORDFILE	1.3.6.1.4.1.7469.251.1.302.45092776	INFO record_start
cMLOGMOD-SQA-CIOSERECORDFILE	1.3.6.1.4.1.7469.251.1.302.45092777	INFO record_end
cMLOGMOD-SQA-MEDIAROUTING	1.3.6.1.4.1.7469.251.1.302.45092778	INFO route_result <listener type> <listener ID> <talker type> <result>
cMLOGMOD-SQA-AUDIOGAP	1.3.6.1.4.1.7469.251.1.302.45092779	INFO audio_gap <start time ms> <duration ms>
cMLOGMOD-SQA-FIRSTAUDIOPK	1.3.6.1.4.1.7469.251.1.302.45092780	INFO packet_start
cMLOGMOD-SQA-LASTAUDIOPK	1.3.6.1.4.1.7469.251.1.302.45092781	INFO packet_end
vGLOG-INVALID-ENG-TYPE	1.3.6.1.4.1.7469.251.1.302.101712873	EROR Invalid engine type specified
vGLOG-INVALID-ENG-URI	1.3.6.1.4.1.7469.251.1.302.101712874	EROR Invalid engine URI specified
vGLOG-INVALID-ENG-ENTRY	1.3.6.1.4.1.7469.251.1.302.101712875	CRIT Invalid engine entry in config file
vGLOG-INVALID-ENG-IP-PORT	1.3.6.1.4.1.7469.251.1.302.101712876	CRIT Invalid IP or port for theengine
vGLOG-EMPTY-ENG-LIST	1.3.6.1.4.1.7469.251.1.302.101712877	CRIT Engine list is empty
vGLOG-ENG-PARSE-ERROR	1.3.6.1.4.1.7469.251.1.302.101712878	CRIT Error when parsing engine info
vGLOG-MISSING-ENG-TYPE-LIST	1.3.6.1.4.1.7469.251.1.302.101712879	CRIT The engtypelist is missing or empty
vGLOG-INVALID-STACK	1.3.6.1.4.1.7469.251.1.302.101712880	CRIT Error creating stack
vGLOG-ENG-TYPE-INIT-ERROR	1.3.6.1.4.1.7469.251.1.302.101712881	CRIT Error initializing the engine type map
vGLOG-STACK-INIT-ERROR	1.3.6.1.4.1.7469.251.1.302.101712882	CRIT Error initializing the stack
vGLOG-REQ-MGR-INIT-ERROR	1.3.6.1.4.1.7469.251.1.302.101712883	CRIT Error initializing the request manager
vGLOG-CONNECTION-MGR-INIT-ERROR	1.3.6.1.4.1.7469.251.1.302.101712884	CRIT Error initializing connection manager
vGLOG-STACK-HDLR-INIT-ERROR	1.3.6.1.4.1.7469.251.1.302.101712885	CRIT Error initializing the stack handler

Trap	OID	Description
VGLOG-PROVISION-ERROR	1.3.6.1.4.1.7469.251.1.302.101712886	CRIT Error in reading vrm client provision file
VGLOG-FILE-STAT-ERROR	1.3.6.1.4.1.7469.251.1.302.101713873	EROR Failed to obtain information about the file
VGLOG-GRAM-SIZE-ERROR	1.3.6.1.4.1.7469.251.1.302.101713874	EROR Grammar file size after stripping header islessthan0
VGLOG-GRAM-OPEN-ERROR	1.3.6.1.4.1.7469.251.1.302.101713875	EROR Unable to find grammar file
VGLOG-GRAM-OFFSET-ERROR	1.3.6.1.4.1.7469.251.1.302.101713876	EROR Unable to locate information in the grammar file
VGLOG-MEM-ALLOC-ERROR	1.3.6.1.4.1.7469.251.1.302.101713877	EROR Failed to allocate memory
VGLOG-GRAM-READ-ERROR	1.3.6.1.4.1.7469.251.1.302.101713878	EROR Failed to read from grammar file
VGLOG-SERVER-CONNECT-ERROR	1.3.6.1.4.1.7469.251.1.302.101713879	EROR Failed to connect to server
VGLOG-SERVER-INFO-ERROR	1.3.6.1.4.1.7469.251.1.302.101713880	EROR Failed to find info about server
VGLOG-INVALID-PARAM	1.3.6.1.4.1.7469.251.1.302.101713881	EROR Invalid configuration for the parameter
VGLOG-NO-GRAM-BASE	1.3.6.1.4.1.7469.251.1.302.101713882	EROR Unable to read the grammar base path
VGLOG-PING-ERROR	1.3.6.1.4.1.7469.251.1.302.101713883	EROR Unable to get the information for all servers
VGLOG-NO-RES-ID	1.3.6.1.4.1.7469.251.1.302.101713884	EROR Unable to lookup connection information for the specified vrm engine
VGLOG-SESSION-STORAGE-ERROR	1.3.6.1.4.1.7469.251.1.302.101713885	EROR Error when storing info about a session
VGLOG-CHANGE-STATE-ERROR	1.3.6.1.4.1.7469.251.1.302.101713886	EROR Error when changing the state of a session
VGLOG-INVALID-TIMER-EVENT	1.3.6.1.4.1.7469.251.1.302.101713887	EROR Received an invalid timer event in the client library
VGLOG-SESSION-REMOVE-ERROR	1.3.6.1.4.1.7469.251.1.302.101713888	EROR An error occurred while trying to remove info about a session
VGLOG-TIMEOUT	1.3.6.1.4.1.7469.251.1.302.101713889	EROR The client timed out while waiting for a response
VGLOG-INVALID-MSG-ID	1.3.6.1.4.1.7469.251.1.302.101713890	EROR Received an unknown message id in a message

Trap	OID	Description
VGLOG-UNKNOWN-TIMEOUT	1.3.6.1.4.1.7469.251.1.302.101713891	EROR Received a timeout for an unknown event
VGLOG-REQUEST-TYPE-FAILURE	1.3.6.1.4.1.7469.251.1.302.101713892	EROR Error looking up the request type for a Session
VGLOG-TIMER-REMOVE-ERROR	1.3.6.1.4.1.7469.251.1.302.101713893	EROR Error removing a timer event
VGLOG-RESPONSE-FAILURE	1.3.6.1.4.1.7469.251.1.302.101713894	EROR Received an error code in the response message from the server
VGLOG-REQUEST-REMOVE-ERROR	1.3.6.1.4.1.7469.251.1.302.101713895	EROR Error when removing a request from the request manager
VGLOG-INVALID-REQUEST	1.3.6.1.4.1.7469.251.1.302.101713896	EROR Unable to find the request in internal structures
VGLOG-SOCKET-DISCONNECT	1.3.6.1.4.1.7469.251.1.302.101713897	EROR Received an unexpected socket disconnect
VGLOG-INVALID-AUDIO-CODEC	1.3.6.1.4.1.7469.251.1.302.101713898	EROR Received an invalid audio codec
VGLOG-SEND-REQUEST-ERROR	1.3.6.1.4.1.7469.251.1.302.101713899	EROR Unable to send request
VGLOG-STACK-SYSTEM-ERROR	1.3.6.1.4.1.7469.251.1.302.101713900	EROR An error occurred while processing a message, most likely a memory allocation error
VGLOG-UNIMPLEMENTED-METHOD	1.3.6.1.4.1.7469.251.1.302.101713901	EROR A method that should not be called was called
VGLOG-LOST-CONNECTION	1.3.6.1.4.1.7469.251.1.302.101713903	EROR Lost a connection to an ASR/TTS server
VGLOG-RECO-ERROR	1.3.6.1.4.1.7469.251.1.302.101714873	WARN Received an error message in the recognize session
VGLOG-RECONNECT-SUCCESS	1.3.6.1.4.1.7469.251.1.302.101714874	WARN Successfully reconnected to server
VGLOG-INCORRECT-TTS-MSG-ORDER	1.3.6.1.4.1.7469.251.1.302.101714875	WARN Received speak complete before speak response
VGLOG-INCORRECT-NLSML-FORMAT	1.3.6.1.4.1.7469.251.1.302.101714876	WARN The NLSML format is not correct
VGLOG-ERROR-DECODE-FAILURE	1.3.6.1.4.1.7469.251.1.302.101714877	WARN Decoding error failed
VGLOG-GRAMMAR-NOT-EXIST	1.3.6.1.4.1.7469.251.1.302.101714878	WARN The grammar file does not exist
VGLOG-GRAMMAR-READING-ERROR	1.3.6.1.4.1.7469.251.1.302.101714879	WARN Error is encountered when reading grammar file

Trap	OID	Description
VGLOG-HOTKEY-GRAMMAR-ERROR	1.3.6.1.4.1.7469.251.1.302.101714880	WARN Error is encountered when handling hotkey grammar
VGLOG-VGASSERT-CMGR	1.3.6.1.4.1.7469.251.1.302.135267305	CRIT VGASSERT
cCOMMONLOGMOD-VGCOMM-CANTREPLYTOCLIENT	1.3.6.1.4.1.7469.251.1.302.137365457	EROR Unable to reply to client
cCOMMONLOGMOD-VGCOMM-CANTSENDMSG	1.3.6.1.4.1.7469.251.1.302.137365458	EROR Unable to send message
cCOMMONLOGMOD-VGCOMM-BADMSGFRMT	1.3.6.1.4.1.7469.251.1.302.137365459	EROR Bad message format
cCOMMONLOGMOD-VGCOMM-NAMEVALUELISTLONG	1.3.6.1.4.1.7469.251.1.302.137365460	EROR names/values list too long
cCOMMONLOGMOD-VGCOMM-BADPREVRESULT	1.3.6.1.4.1.7469.251.1.302.137365461	EROR Calling NVPairNext() with bad prev_result
cCOMMONLOGMOD-VGCOMM-NVPAIRSTRINGODDTOKENS	1.3.6.1.4.1.7469.251.1.302.137365462	EROR Name-Value pair string has odd number of tokens
cCOMMONLOGMOD-VGCOMM-INVDMSGHDR	1.3.6.1.4.1.7469.251.1.302.137365463	EROR Invalid message header
cCOMMONLOGMOD-VGCOMM-FAILSTARTTHREAD	1.3.6.1.4.1.7469.251.1.302.137365464	EROR Failed to start thread
cCOMMONLOGMOD-VGCOMM-ERRWHENSTOPTHREAD	1.3.6.1.4.1.7469.251.1.302.137365465	EROR Error when stopping thread
cCOMMONLOGMOD-VGCOMM-CANTFINDCONNID	1.3.6.1.4.1.7469.251.1.302.137365466	EROR Did not found the ConnID
cCOMMONLOGMOD-VGCOMM-FAILCREATECLIENTSCKT	1.3.6.1.4.1.7469.251.1.302.137365467	EROR Failed to create Client Socket
cCOMMONLOGMOD-VGCOMM-CNNCTTOREMOTEFAIL	1.3.6.1.4.1.7469.251.1.302.137365468	EROR ConnectToRemote() failed
cCOMMONLOGMOD-VGCOMM-FAILSENDATA	1.3.6.1.4.1.7469.251.1.302.137365469	EROR Failed to send data
cCOMMONLOGMOD-VGCOMM-MSGTOOBIG	1.3.6.1.4.1.7469.251.1.302.137366457	WARN Failed to send message because msg too big
cCOMMONLOGMOD-VGCOMM-FAILSENDMSGTOSRVCE	1.3.6.1.4.1.7469.251.1.302.137366458	WARN Failed to send message to service

VXML Interpreter Traps (pmlTraps)

Trap	OID	Description
VGLOG-INVALID-MSG-TYPE-PMLI	1.3.6.1.4.1.7469.251.1.303.1048597	WARN Invalid Message Type Sent or Received

Trap	OID	Description
VGLOG-CANNOT-CREATE-CLIENT-PMLI	1.3.6.1.4.1.7469.251.1.303.1048599	WARN Error Creating Client Socket
VGLOG-CFG-WRITE-FAIL-PMLI	1.3.6.1.4.1.7469.251.1.303.2097178	WARN Configuration file could not be written
VGLOG-PRV-ALREADY-SETUP-PMLI	1.3.6.1.4.1.7469.251.1.303.4194325	WARN Provision Service has already been Setup
VGLOG-PRV-NOT-SETUP-PMLI	1.3.6.1.4.1.7469.251.1.303.4194326	WARN Provision Service has not been Setup
VGLOG-PRV-NOT-SYNCRONIZED-PMLI	1.3.6.1.4.1.7469.251.1.303.4194327	WARN Provision Service not Synchronized
VGLOG-PRV-FILE-NOT-CREATED-PMLI	1.3.6.1.4.1.7469.251.1.303.4194328	WARN Provision file can not be created
VGLOG-PRV-FILE-NOT-OPENED-PMLI	1.3.6.1.4.1.7469.251.1.303.4194329	WARN Provision file can not be opened
VGLOG-DSRV-INVALID-QUERY-PMLI	1.3.6.1.4.1.7469.251.1.303.6291477	WARN Invalid data query string received
VGLOG-DSRV-UNSUPPORTED-VAR-PMLI	1.3.6.1.4.1.7469.251.1.303.6291478	WARN Query for unsupported variable received
vXMLILOG-UNABLE-ACCESS-IDGEN-DIR	1.3.6.1.4.1.7469.251.1.303.50331749	CRIT ID generator directory not accessible
vXMLILOG-UNABLE-ACCESS-SYSID	1.3.6.1.4.1.7469.251.1.303.50331750	CRIT system.id file not accessible and not creatable
vXMLILOG-UNABLE-GET-IP	1.3.6.1.4.1.7469.251.1.303.50331751	CRIT System IP Address not retrievable
vXMLILOG-OPEN-ORIG-ID-FAIL	1.3.6.1.4.1.7469.251.1.303.50331752	CRIT 0x<orig>.id file cannot be opened for update
vXMLILOG-UPDATE-SEQ-NUM-FAIL	1.3.6.1.4.1.7469.251.1.303.50331753	CRIT Could not update seq number to 0x<orig>.id file
vXMLILOG-NEW-SIZE-FAIL2	1.3.6.1.4.1.7469.251.1.303.50358651	CRIT EROR Failed new[%d] for <datatype>
vXMLILOG-NEW-OPT-FAIL5	1.3.6.1.4.1.7469.251.1.303.50358652	CRIT EROR Failed new for <datatype>
vXMLILOG-OUT-OF-MEM	1.3.6.1.4.1.7469.251.1.303.50358715	CRIT Out of memory creating states for line %s
vXMLILOG-VXML-LOST	1.3.6.1.4.1.7469.251.1.303.50369469	CRIT Current vxml is lost after fetching root doc
vXMLILOG-ROOT-VXML-LOST	1.3.6.1.4.1.7469.251.1.303.50369470	CRIT Root vxml is lost after fetching next page
vXMLILOG-FOPEN-FAIL1	1.3.6.1.4.1.7469.251.1.303.50431649	EROR fopen(%s) failed
vXMLILOG-ORIG-ID-RESET	1.3.6.1.4.1.7469.251.1.303.50431749	EROR 0x<orig>.id file reset due to invalid content
vXMLILOG-SYS-ID-RESET	1.3.6.1.4.1.7469.251.1.303.50431850	EROR system.id file reset because content was invalid

Trap	OID	Description
vXMLILOG-IDGEN-ENV-VAR-UNDEF	1.3.6.1.4.1.7469.251.1.303.50431951	EROR Environment variable \${VG_IDGEN_DIR} or \${VG_SYSTEMID_PATH} undefined
vXMLILOG-INVALID-CMD-OPT	1.3.6.1.4.1.7469.251.1.303.50442650	EROR Invalid command-line options
vXMLILOG-INVALID-CONFIG-PARAM	1.3.6.1.4.1.7469.251.1.303.50442651	EROR Invalid configuration format in parameter
vXMLILOG-INIT-FILE-OPEN-FAIL	1.3.6.1.4.1.7469.251.1.303.50458650	EROR Unable to open initial file %s
vXMLILOG-CREATE-ENTITY-FAIL1	1.3.6.1.4.1.7469.251.1.303.50458713	EROR CRIT Failed to create <entity>
vXMLILOG-DTCLOSE-FAIL2	1.3.6.1.4.1.7469.251.1.303.50458717	EROR dtclose(<dict>) failed for line %s
vXMLILOG-CMP-INIT-FAIL	1.3.6.1.4.1.7469.251.1.303.50458899	EROR Failed to initialize CMP
vXMLILOG-NULL-POINTER2	1.3.6.1.4.1.7469.251.1.303.50461649	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-OBJ-DEF-FAIL1	1.3.6.1.4.1.7469.251.1.303.50461651	EROR ScriptEngine define object failed
vXMLILOG-EVAL-SCRIPT-FAIL2	1.3.6.1.4.1.7469.251.1.303.50461653	EROR ScriptEngine evaluate script failed
vXMLILOG-SESS-VAR-DEF-FAIL1	1.3.6.1.4.1.7469.251.1.303.50461660	EROR ScriptEngine define session var failed
vXMLILOG-SET-SESS-VAR-FAIL2	1.3.6.1.4.1.7469.251.1.303.50461666	EROR ScriptEngine set session var failed
vXMLILOG-UNEXPT-BYTES-SCRIPT1	1.3.6.1.4.1.7469.251.1.303.50461671	EROR Reading script file %s, got %d bytes, expected %d
vXMLILOG-SET-ATTR-FAIL	1.3.6.1.4.1.7469.251.1.303.50461684	EROR Failed to set attribute value.
vXMLILOG-GET-HOST-IP-FAIL	1.3.6.1.4.1.7469.251.1.303.50469468	EROR Failed to get the host ip for host name %s
vXMLILOG-CREATE-TMPDIR-FAIL	1.3.6.1.4.1.7469.251.1.303.50469471	EROR Failed to create tmp directory %s
vXMLILOG-CREATE-DEFLT-VXML-FAIL	1.3.6.1.4.1.7469.251.1.303.50469473	EROR Failed to create default vxml %s
vXMLILOG-SPIDERMONKEY-INIT-FAIL	1.3.6.1.4.1.7469.251.1.303.50469478	EROR SpiderMonkey failed to init standard classes
vXMLILOG-USER-LOGGER-DIE	1.3.6.1.4.1.7469.251.1.303.50469501	EROR Cannot stop User Logger thread
vXMLILOG-GET-HOSTNAME-FAIL	1.3.6.1.4.1.7469.251.1.303.50469518	EROR failed to get host name
vXMLILOG-UNLINK-FAIL2	1.3.6.1.4.1.7469.251.1.303.50558689	WARN Unable to unlink(%s)

Trap	OID	Description
vXMLILOG-ADD-NVPAIR-FAIL	1.3.6.1.4.1.7469.251.1.303.50558716	WARN Can't add name/value pair for <entity> on line %s
vXMLILOG-INSERT-FILELIST-FAIL	1.3.6.1.4.1.7469.251.1.303.50561649	WARN Cannot add file to delete list for line
vXMLILOG-EVAL-EXPR-FAIL2	1.3.6.1.4.1.7469.251.1.303.50561654	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-STAT-FAILED1	1.3.6.1.4.1.7469.251.1.303.50561656	WARN stat(%s) failed
vXMLILOG-TMPDIR-NOT-EMPTY	1.3.6.1.4.1.7469.251.1.303.50569474	WARN tmp directory '%s' is not empty
vXMLILOG-RMDIR-FAIL	1.3.6.1.4.1.7469.251.1.303.50569475	WARN rmdir (%s) failed
vXMLILOG-OPENDIR-FAIL	1.3.6.1.4.1.7469.251.1.303.50569476	WARN opendir (%s) failed
vXMLILOG-MOVE-FILE-FAIL	1.3.6.1.4.1.7469.251.1.303.50569477	WARN Can't move file from the nextappfiles to appfiles for line %s
vXMLILOG-NO-VXML-TAG	1.3.6.1.4.1.7469.251.1.303.50569479	WARN No <vxml> in VXML page
vXMLILOG-VXML-ALREADY-DELETED	1.3.6.1.4.1.7469.251.1.303.50569598	WARN VxmlElement already deleted
vXMLILOG-NEW-OPT-FAIL1	1.3.6.1.4.1.7469.251.1.303.52455804	CRIT EROR Failed new for <datatype>
vXMLILOG-LINK-FAIL1	1.3.6.1.4.1.7469.251.1.303.52655853	WARN link(%s, %s) failed for line %s
cCOMMONLOGMOD-VGCOMM-CANTREPLYTOCLIENT1	1.3.6.1.4.1.7469.251.1.303.53479377	EROR Unable to reply to client
cCOMMONLOGMOD-VGCOMM-BADMSGFRMT1	1.3.6.1.4.1.7469.251.1.303.53479379	EROR Bad message format
cCOMMONLOGMOD-VGCOMM-MSGTOOBIG1	1.3.6.1.4.1.7469.251.1.303.53480377	WARN Failed to send message because msg too big
vXMLILOG-NEW-OPT-FAIL4	1.3.6.1.4.1.7469.251.1.303.53504380	CRIT EROR Failed new for <datatype>
vXMLILOG-VXMLI-LIST-NULL1	1.3.6.1.4.1.7469.251.1.303.53604389	EROR Can't find vxmli_list for line %s
vXMLILOG-SWITCH-VXMLI-FAIL	1.3.6.1.4.1.7469.251.1.303.53604390	EROR Can't switch to VXMLI for line %s
vXMLILOG-CREATE-CALL-DATA-FAIL	1.3.6.1.4.1.7469.251.1.303.53604394	EROR Can't create call data struct
vXMLILOG-VXMLI-BUSY	1.3.6.1.4.1.7469.251.1.303.53604395	EROR PMLI busy (curState=%d) on line %s
vXMLILOG-LINE-INSERT-FAIL1	1.3.6.1.4.1.7469.251.1.303.53604396	EROR Can't insert line %s into pml_i_list
vXMLILOG-INVALID-STATE	1.3.6.1.4.1.7469.251.1.303.53604397	EROR Invalid state %d on line %s

Trap	OID	Description
vXMLILOG-PARSER-INIT-FAIL	1.3.6.1.4.1.7469.251.1.303.53604448	EROR Unable to initialize the NLSML converter
vXMLILOG-SET-SESS-VAR-FAIL1	1.3.6.1.4.1.7469.251.1.303.53607394	EROR ScriptEngine set session var failed
vXMLILOG-UPDATE-LINENO-FAIL	1.3.6.1.4.1.7469.251.1.303.53614829	EROR Couldn't update real line number
vXMLILOG-CONN-NO-ACPT	1.3.6.1.4.1.7469.251.1.303.53614834	EROR Call connected without VXMLI accepting
vXMLILOG-LOST-SERVICE	1.3.6.1.4.1.7469.251.1.303.53704388	WARN Lost service: %s
vXMLILOG-TOO-LONG	1.3.6.1.4.1.7469.251.1.303.53704392	EROR WARN <Element> (%s) too long for <msg> (line %s)
vXMLILOG-HANGUP-FAIL	1.3.6.1.4.1.7469.251.1.303.53704399	WARN Hangup failed (status %d) on line %s
vXMLILOG-VXMLI-NOT-FOUND	1.3.6.1.4.1.7469.251.1.303.53704400	WARN No instance for vxmli_list entry for line %s
vXMLILOG-HANGUP-LINE-NOT-FREE	1.3.6.1.4.1.7469.251.1.303.53704401	WARN Hanging up on line %s, but line instance not freed
vXMLILOG-ACTION-FAILURE	1.3.6.1.4.1.7469.251.1.303.53704408	WARN Failure <action> (status %d) on line %s - hanging up
vXMLILOG-BOGUS-STATUS1	1.3.6.1.4.1.7469.251.1.303.53704409	WARN Bogus status (%d) for <action> on line %s
vXMLILOG-NCONN-AT-STOPREC	1.3.6.1.4.1.7469.251.1.303.53704410	WARN StopRec got CMGR_NCONNECT on line %s
vXMLILOG-CALL-NOT-FOUND	1.3.6.1.4.1.7469.251.1.303.53704412	WARN Can't find call for <msg> on line %s
vXMLILOG-IB-DROPPED	1.3.6.1.4.1.7469.251.1.303.53704413	WARN Inbound dropped before TRANSFER reply on line %s
vXMLILOG-NULL-VXMLI-POINTER	1.3.6.1.4.1.7469.251.1.303.53714826	WARN NULL vxmli pointer found in vxmli_list
vXMLILOG-ABORT-FAILED1	1.3.6.1.4.1.7469.251.1.303.53714828	WARN EROR Abort action failed (status %d) on line %s
vXMLILOG-NEW-SIZE-FAIL1	1.3.6.1.4.1.7469.251.1.303.56650107	CRIT EROR Failed new[%d] for <datatype>
vXMLILOG-NEW-OPT-FAIL2	1.3.6.1.4.1.7469.251.1.303.56650108	CRIT EROR Failed new for <datatype>
vXMLILOG-ALLOCATE-STR-FAIL	1.3.6.1.4.1.7469.251.1.303.56650148	CRIT Failed to allocate string space
vXMLILOG-FILE-WRITE-FAIL	1.3.6.1.4.1.7469.251.1.303.56723106	EROR Cannot write to file
vXMLILOG-OPEN-LOGFILE-FAIL	1.3.6.1.4.1.7469.251.1.303.56750150	EROR Unable to open logfile %s

Trap	OID	Description
vXMLILOG-OPEN-WRITE-FAIL1	1.3.6.1.4.1.7469.251.1.303.56750159	EROR Failed open(%s) to write for line %s
vXMLILOG-OPEN-W-GRAM-FAIL1	1.3.6.1.4.1.7469.251.1.303.56750333	EROR open(%s) failed for writing grammar for line %s
vXMLILOG-NULL-POINTER1	1.3.6.1.4.1.7469.251.1.303.56753105	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-UNLINK-FAIL1	1.3.6.1.4.1.7469.251.1.303.56850145	WARN Unable to unlink(%s)
vXMLILOG-RELATIVE-URL-USE-INIT	1.3.6.1.4.1.7469.251.1.303.56850155	WARN EROR Relative URL %s used as initializer on line %s
vXMLILOG-FCAT-OPEN-FAIL	1.3.6.1.4.1.7469.251.1.303.56850156	WARN Can't open fcat file %s for line %s
vXMLILOG-LINK-FAIL2	1.3.6.1.4.1.7469.251.1.303.56850157	WARN link(%s, %s) failed for line %s
vXMLILOG-OPEN-VOICE-FAIL	1.3.6.1.4.1.7469.251.1.303.56850160	WARN Can't open(%s) to <read/write> encoded voice for line %s
vXMLILOG-READ-FAIL	1.3.6.1.4.1.7469.251.1.303.56850161	WARN read(%s) failed (bufsize %d, fileno %d) for line %s
vXMLILOG-UNSUPPORTED-AUDIO-FMT	1.3.6.1.4.1.7469.251.1.303.56861104	WARN Unsupported audio format
vXMLILOG-NEW-OPT-FAIL18	1.3.6.1.4.1.7469.251.1.303.57698684	CRIT EROR Failed new for <datatype>
vXMLILOG-VXMLI-LIST-NULL2	1.3.6.1.4.1.7469.251.1.303.57798693	EROR Can't find vxmli_list for line %s
vXMLILOG-LINE-INSERT-FAIL3	1.3.6.1.4.1.7469.251.1.303.57798700	EROR Can't insert line %s into pml_i_list
vXMLILOG-DEL-VXMLI-FAIL1	1.3.6.1.4.1.7469.251.1.303.57798722	EROR Can't delete PMLI instance for line %s
vXMLILOG-NULL-POINTER11	1.3.6.1.4.1.7469.251.1.303.57801681	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-OBJ-DEF-FAIL4	1.3.6.1.4.1.7469.251.1.303.57801683	EROR ScriptEngine define object failed
vXMLILOG-SET-SESS-VAR-FAIL3	1.3.6.1.4.1.7469.251.1.303.57801698	EROR ScriptEngine set session var failed
vXMLILOG-INVALID-OB-LINE	1.3.6.1.4.1.7469.251.1.303.57898906	WARN Invalid outbound line %s for line %s
vXMLILOG-WRONG-CONF-LINE	1.3.6.1.4.1.7469.251.1.303.57898907	WARN Wrong conf line (%s) for analysis (exp %s) on line %s
vXMLILOG-EVAL-EXPR-FAIL13	1.3.6.1.4.1.7469.251.1.303.57901686	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-SET-VAR-FAIL5	1.3.6.1.4.1.7469.251.1.303.57901689	WARN ScriptEngine set var value failed

Trap	OID	Description
vXMLILOG-NEW-OPT-FAIL16	1.3.6.1.4.1.7469.251.1.303.58747260	CRIT EROR Failed new for <datatype>
vXMLILOG-UNKNOWN-ELE9	1.3.6.1.4.1.7469.251.1.303.58850269	EROR Unexpected element found
vXMLILOG-USER-LOG-FAIL	1.3.6.1.4.1.7469.251.1.303.58858106	EROR Cannot log into user-specified file
vXMLILOG-FILE-OPEN-FAIL	1.3.6.1.4.1.7469.251.1.303.58858107	EROR Cannot open file
vXMLILOG-FILENAME-TOO-LONG	1.3.6.1.4.1.7469.251.1.303.58858108	EROR The specified filename is too long
vXMLILOG-NO-CHAN-FOR-LOG	1.3.6.1.4.1.7469.251.1.303.58947294	WARN Can't send log before establishing a primary channel
vXMLILOG-UNEXPT-INVOKE11	1.3.6.1.4.1.7469.251.1.303.58947459	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-EVAL-EXPR-FAIL11	1.3.6.1.4.1.7469.251.1.303.58950262	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-GET-OBJ-FAIL2	1.3.6.1.4.1.7469.251.1.303.59898857	EROR ScriptEngine get object failed
vXMLILOG-TRANSCODE-TOO-LONG	1.3.6.1.4.1.7469.251.1.303.59987397	WARN Transcode string is longer than expected
vXMLILOG-NEW-OPT-FAIL20	1.3.6.1.4.1.7469.251.1.303.61892988	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER13	1.3.6.1.4.1.7469.251.1.303.61995985	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-OBJ-DEF-FAIL5	1.3.6.1.4.1.7469.251.1.303.61995987	EROR ScriptEngine define object failed
vXMLILOG-PASS-SUBDLG-PARAM-FAIL	1.3.6.1.4.1.7469.251.1.303.61996017	EROR Failed to passing subdialog param value.
vXMLILOG-GET-PARAM-STAT-FAIL	1.3.6.1.4.1.7469.251.1.303.61996018	EROR Failed to get subdialog param status string.
vXMLILOG-GET-SUBDLG-PARAM-FAIL	1.3.6.1.4.1.7469.251.1.303.61996019	EROR Failed to get subdialog params.
vXMLILOG-UNEXPT-INVOKE14	1.3.6.1.4.1.7469.251.1.303.62093187	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-EVAL-EXPR-FAIL14	1.3.6.1.4.1.7469.251.1.303.62095990	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-NEW-SIZE-FAIL3	1.3.6.1.4.1.7469.251.1.303.62941563	CRIT EROR Failed new[%d] for <datatype>
vXMLILOG-NEW-OPT-FAIL12	1.3.6.1.4.1.7469.251.1.303.62941564	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER8	1.3.6.1.4.1.7469.251.1.303.63044561	EROR Unexpected NULL pointer <ptr_name>

Trap	OID	Description
vXMLILOG-UNKNOWN-ELE6	1.3.6.1.4.1.7469.251.1.303.63044573	EROR Unexpected element found
vXMLILOG-FETCH-INIT-PAGE-FAIL	1.3.6.1.4.1.7469.251.1.303.63050381	EROR Reject call due to failure in fetching the initial vxml
vXMLILOG-CHILD-CONTEXT-STOP	1.3.6.1.4.1.7469.251.1.303.63050383	EROR Child context dcontinues due to failure in fetching the first vxml page
vXMLILOG-BOGUS-STATUS3	1.3.6.1.4.1.7469.251.1.303.63141593	WARN Bogus status (%d) for <action> on line %s
vXMLILOG-BOGUS-MSG	1.3.6.1.4.1.7469.251.1.303.63141762	WARN Bogus message (%d) for <action> on line %s
vXMLILOG-UNEXPT-INVOKE7	1.3.6.1.4.1.7469.251.1.303.63141763	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-DEFLT-FOLWLINK-MISSING	1.3.6.1.4.1.7469.251.1.303.63141785	WARN Missing default followLink state!
vXMLILOG-GET-VAR-FAIL2	1.3.6.1.4.1.7469.251.1.303.63144564	WARN ScriptEngine get var name value failed
vXMLILOG-EVAL-EXPR-FAIL8	1.3.6.1.4.1.7469.251.1.303.63144566	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-FORMRSLT-INSERT-FAIL	1.3.6.1.4.1.7469.251.1.303.63150380	WARN Can't insert %s into formResults
vXMLILOG-FETCH-ROOT-PAGE-FAIL	1.3.6.1.4.1.7469.251.1.303.63150382	WARN Failure in fetching the root document
vXMLILOG-NEW-OPT-FAIL3	1.3.6.1.4.1.7469.251.1.303.63990140	CRIT EROR Failed new for <datatype>
vXMLILOG-ALLOC-BYTE-FAIL	1.3.6.1.4.1.7469.251.1.303.63990198	CRIT Can't allocate %d bytes for lexical analysis
vXMLILOG-LEX-FILE-OPT-FAIL	1.3.6.1.4.1.7469.251.1.303.64090197	EROR Can't <action> file %s for lexical analysis
vXMLILOG-UNEXPT-BYTE-LEX	1.3.6.1.4.1.7469.251.1.303.64090199	EROR Reading lexical file %s, got %d bytes, expected %d
vXMLILOG-GET-TOKEN-LEX-FAIL	1.3.6.1.4.1.7469.251.1.303.64190200	WARN Unable to get token - failed lexical analysis
vXMLILOG-NEW-OPT-FAIL21	1.3.6.1.4.1.7469.251.1.303.65038716	CRIT EROR Failed new for <datatype>
vXMLILOG-CREATE-ENTITY-FAIL2	1.3.6.1.4.1.7469.251.1.303.65138777	EROR CRIT Failed to create <entity>
vXMLILOG-DTCLOSE-FAIL1	1.3.6.1.4.1.7469.251.1.303.65138781	EROR dtclose(<dict>) failed for line %s
vXMLILOG-NULL-POINTER14	1.3.6.1.4.1.7469.251.1.303.65141713	EROR Unexpected NULL pointer <ptr_name>

Trap	OID	Description
vXMLILOG-GET-VAR-SCOPE-FAIL	1.3.6.1.4.1.7469.251.1.303.65141742	EROR ScriptEngine get var scope failed
vXMLILOG-EVAL-EXPR-FAIL15	1.3.6.1.4.1.7469.251.1.303.65241718	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-NEW-OPT-FAIL10	1.3.6.1.4.1.7469.251.1.303.66087292	CRIT EROR Failed new for <datatype>
vXMLILOG-BULTIN-DTMFGRAM-FAIL	1.3.6.1.4.1.7469.251.1.303.66092869	CRIT Failed to get builtin dtmfGrammar
vXMLILOG-SRC-DTMFGRAM-FAIL	1.3.6.1.4.1.7469.251.1.303.66092870	CRIT Failed to get src dtmfGrammar
vXMLILOG-BULTIN-GRAM-FAIL	1.3.6.1.4.1.7469.251.1.303.66093790	CRIT Failed to get builtin Grammar
vXMLILOG-SRC-GRAM-FAIL	1.3.6.1.4.1.7469.251.1.303.66093791	CRIT Failed to get src Grammar
vXMLILOG-FOPEN-FAIL2	1.3.6.1.4.1.7469.251.1.303.66160289	EROR fopen(%s) failed
vXMLILOG-GRAMFILE-REQ-FAIL1	1.3.6.1.4.1.7469.251.1.303.66187516	EROR Unable to request grammar file %s (url %s) for line %s
vXMLILOG-OPEN-W-GRAM-FAIL2	1.3.6.1.4.1.7469.251.1.303.66187517	EROR open(%s) failed for writing grammar for line %s
vXMLILOG-ASSERT-FAIL	1.3.6.1.4.1.7469.251.1.303.66188287	EROR CKOP/REVG Assert FAILED at <file>, line <line>
vXMLILOG-NULL-POINTER5	1.3.6.1.4.1.7469.251.1.303.66190289	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-UNKNOWN-ELE4	1.3.6.1.4.1.7469.251.1.303.66190301	EROR Unexpected element found
vXMLILOG-FSEEK-FAIL	1.3.6.1.4.1.7469.251.1.303.66190305	EROR fseek failed for file %s
vXMLILOG-BAD-FIELD-ELE	1.3.6.1.4.1.7469.251.1.303.66193788	EROR Bad Field element
vXMLILOG-UNEXPT-BYTES-GRAM	1.3.6.1.4.1.7469.251.1.303.66196438	EROR Reading grammar file %s, got %d bytes, expected %d
vXMLILOG-PREPARE-FAILED1	1.3.6.1.4.1.7469.251.1.303.66287506	WARN PREPARE_FAILED on line %s
vXMLILOG-STAT-FAILED2	1.3.6.1.4.1.7469.251.1.303.66290296	WARN stat(%s) failed
vXMLILOG-MODE-DTMF-HDL	1.3.6.1.4.1.7469.251.1.303.66293789	WARN Mode=dtmf should have been handled by <dtmf>
vXMLILOG-NEW-OPT-FAIL11	1.3.6.1.4.1.7469.251.1.303.67135868	CRIT EROR Failed new for <datatype>
vXMLILOG-OPEN-WRITE-FAIL2	1.3.6.1.4.1.7469.251.1.303.67235919	EROR Failed open(%s) to write for line %s

Trap	OID	Description
vXMLILOG-VOICE-FILE-REQ-FAIL1	1.3.6.1.4.1.7469.251.1.303.67236077	EROR Unable to request voice file %s (url %s) for line %s
vXMLILOG-OPEN-W-TTS-FAIL	1.3.6.1.4.1.7469.251.1.303.67236081	EROR open(%s) failed for writing tts for line %s
vXMLILOG-NULL-POINTER6	1.3.6.1.4.1.7469.251.1.303.67238865	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-EVAL-SCRIPT-FAIL4	1.3.6.1.4.1.7469.251.1.303.67238869	EROR ScriptEngine evaluate script failed
vXMLILOG-UNKNOWN-TAG1	1.3.6.1.4.1.7469.251.1.303.67238883	EROR Unexpected tag found
vXMLILOG-UNEXPT-BYTES-SCRIPT2	1.3.6.1.4.1.7469.251.1.303.67238887	EROR Reading script file %s, got %d bytes, expected %d
vXMLILOG-BAD-LITERAL-IN-VALUE	1.3.6.1.4.1.7469.251.1.303.67244765	EROR Invalid literal format in <value> (%s) on line %d
vXMLILOG-BAD-NUMBER-IN-VALUE	1.3.6.1.4.1.7469.251.1.303.67244766	EROR Invalid number format in <value> (%s) on line %d
vXMLILOG-BAD-CURCY-IN-VALUE	1.3.6.1.4.1.7469.251.1.303.67244767	EROR Invalid currency format in <value> (%s) on line %d
vXMLILOG-BAD-DATE-IN-VALUE	1.3.6.1.4.1.7469.251.1.303.67244768	EROR Invalid date format in <value> (%s) on line %d
vXMLILOG-BAD-TIME-IN-VALUE	1.3.6.1.4.1.7469.251.1.303.67244769	EROR Invalid time format in <value> (%s) on line %d
vXMLILOG-AUDIO-FETCH-ERROR	1.3.6.1.4.1.7469.251.1.303.67246744	EROR Cannot fetch audio
vXMLILOG-AUDIO-FETCH-TIMEOUT	1.3.6.1.4.1.7469.251.1.303.67246745	EROR timeout while fetching audio
vXMLILOG-BOGUS-STATUS2	1.3.6.1.4.1.7469.251.1.303.67335897	WARN Bogus status (%d) for <action> on line %s
vXMLILOG-UNEXPT-INVOKE5	1.3.6.1.4.1.7469.251.1.303.67336067	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-PREPARE-FAILED2	1.3.6.1.4.1.7469.251.1.303.67336082	WARN PREPARE_FAILED on line %s
vXMLILOG-EVAL-EXPR-FAIL6	1.3.6.1.4.1.7469.251.1.303.67338870	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-EVAL-COND-FAIL	1.3.6.1.4.1.7469.251.1.303.67338884	WARN ScriptEngine evaluate cond expression failed
vXMLILOG-PREP-GRAM-FAIL	1.3.6.1.4.1.7469.251.1.303.67344764	WARN Can't prepare a grammar (<reason>)
vXMLILOG-INVALID-DATE	1.3.6.1.4.1.7469.251.1.303.67344770	WARN Invalid date format
vXMLILOG-INVALID-TIME	1.3.6.1.4.1.7469.251.1.303.67344771	WARN Invalid time format

Trap	OID	Description
vXMLILOG-NEW-OPT-FAIL6	1.3.6.1.4.1.7469.251.1.303.69233020	CRIT EROR Failed new for <datatype>
vXMLILOG-UNEXPT-INVOKE1	1.3.6.1.4.1.7469.251.1.303.69433219	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-EVAL-EXPR-FAIL3	1.3.6.1.4.1.7469.251.1.303.69436022	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-CLEAR-VAR-FAIL1	1.3.6.1.4.1.7469.251.1.303.69436030	WARN ScriptEngine clear var scope failed
vXMLILOG-ABORT-FAILED2	1.3.6.1.4.1.7469.251.1.303.69443468	WARN EROR Abort action failed (status %d) on line %s
vXMLILOG-EVAL-SCRIPT-FAIL1	1.3.6.1.4.1.7469.251.1.303.71433173	EROR ScriptEngine evaluate script failed
vXMLILOG-CLEAR-PROP-FAIL	1.3.6.1.4.1.7469.251.1.303.71433192	EROR ScriptEngine clear property failed for %s in %s scope
vXMLILOG-GET-OBJ-FAIL1	1.3.6.1.4.1.7469.251.1.303.71433193	EROR ScriptEngine get object failed
vXMLILOG-EVAL-EXPR-FAIL1	1.3.6.1.4.1.7469.251.1.303.71533174	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-MALLOC-FAIL	1.3.6.1.4.1.7469.251.1.303.72351745	CRIT malloc() failed
vXMLILOG-NEW-OPT-FAIL8	1.3.6.1.4.1.7469.251.1.303.72378748	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER3	1.3.6.1.4.1.7469.251.1.303.72481745	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-VAR-DEF-FAIL3	1.3.6.1.4.1.7469.251.1.303.72481746	EROR ScriptEngine define var failed
vXMLILOG-EVAL-SCRIPT-FAIL3	1.3.6.1.4.1.7469.251.1.303.72481749	EROR ScriptEngine evaluate script failed
vXMLILOG-SESS-VAR-DEF-FAIL2	1.3.6.1.4.1.7469.251.1.303.72481756	EROR ScriptEngine define session var failed
vXMLILOG-UNKNOWN-ELE2	1.3.6.1.4.1.7469.251.1.303.72481757	EROR Unexpected element found
vXMLILOG-RETN-SUBDLG-PARAM-FAIL	1.3.6.1.4.1.7469.251.1.303.72481776	EROR Failed to retrun subdialog param var.
vXMLILOG-SCRIPT-NOT-READY	1.3.6.1.4.1.7469.251.1.303.72485945	EROR Script file %s not ready when expected
vXMLILOG-UNEXPT-INVOKE3	1.3.6.1.4.1.7469.251.1.303.72578947	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-GET-VAR-FAIL1	1.3.6.1.4.1.7469.251.1.303.72581748	WARN ScriptEngine get var name value failed
vXMLILOG-EVAL-EXPR-FAIL5	1.3.6.1.4.1.7469.251.1.303.72581750	WARN EROR ScriptEngine evaluate expression failed

Trap	OID	Description
vXMLILOG-SET-VAR-FAIL2	1.3.6.1.4.1.7469.251.1.303.72581753	WARN ScriptEngine set var value failed
vXMLILOG-SET-VAR-PRIMITIVE-FAIL1	1.3.6.1.4.1.7469.251.1.303.72581754	WARN ScriptEngine set var primitive value failed
vXMLILOG-UNEXPT-RSLT1	1.3.6.1.4.1.7469.251.1.303.72588844	WARN Unexpected result %d from scriptElement::load()
vXMLILOG-MALFORMED-ACPI	1.3.6.1.4.1.7469.251.1.303.72589844	WARN Malformed access-control PI data for <data>
vXMLILOG-NEW-OPT-FAIL15	1.3.6.1.4.1.7469.251.1.303.73427324	CRIT EROR Failed new for <datatype>
vXMLILOG-LINE-INSERT-FAIL2	1.3.6.1.4.1.7469.251.1.303.73527340	EROR Can't insert line %s into pml_i_list
vXMLILOG-UNEXPT-INVOKE10	1.3.6.1.4.1.7469.251.1.303.73627523	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-EVAL-EXPR-FAIL10	1.3.6.1.4.1.7469.251.1.303.73630326	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-SET-VAR-FAIL4	1.3.6.1.4.1.7469.251.1.303.73630329	WARN ScriptEngine set var value failed
vXMLILOG-NEW-OPT-FAIL7	1.3.6.1.4.1.7469.251.1.303.74475900	CRIT EROR Failed new for <datatype>
vXMLILOG-OBJ-DEF-FAIL2	1.3.6.1.4.1.7469.251.1.303.74578899	EROR ScriptEngine define object failed
vXMLILOG-UNKNOWN-ELE1	1.3.6.1.4.1.7469.251.1.303.74578909	EROR Unexpected element found
vXMLILOG-UNEXPT-INVOKE2	1.3.6.1.4.1.7469.251.1.303.74676099	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-EVAL-EXPR-FAIL4	1.3.6.1.4.1.7469.251.1.303.74678902	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-SET-VAR-FAIL1	1.3.6.1.4.1.7469.251.1.303.74678905	WARN ScriptEngine set var value failed
vXMLILOG-ADDR-NOT-FOUND	1.3.6.1.4.1.7469.251.1.303.74685866	WARN sender(%s) or receiver(%s) address not found in message
vXMLILOG-NEW-OPT-FAIL19	1.3.6.1.4.1.7469.251.1.303.75524476	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER12	1.3.6.1.4.1.7469.251.1.303.75627473	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-UNKNOWN-ELE11	1.3.6.1.4.1.7469.251.1.303.75627485	EROR Unexpected element found
vXMLILOG-UNKNOWN-TAG3	1.3.6.1.4.1.7469.251.1.303.75627491	EROR Unexpected tag found

Trap	OID	Description
vXMLILOG-GET-DLG-FAIL2	1.3.6.1.4.1.7469.251.1.303.75627493	EROR Cannot get current dialog pointer
vXMLILOG-UNEXPT-INVOKE13	1.3.6.1.4.1.7469.251.1.303.75724675	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-NEW-OPT-FAIL9	1.3.6.1.4.1.7469.251.1.303.76573052	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER4	1.3.6.1.4.1.7469.251.1.303.76676049	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-UNKNOWN-ELE3	1.3.6.1.4.1.7469.251.1.303.76676061	EROR Unexpected element found
vXMLILOG-UNEXPT-INVOKE4	1.3.6.1.4.1.7469.251.1.303.76773251	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-CLEAR-VAR-FAIL2	1.3.6.1.4.1.7469.251.1.303.76776062	WARN ScriptEngine clear var scope failed
vXMLILOG-NEW-OPT-FAIL13	1.3.6.1.4.1.7469.251.1.303.77621628	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER9	1.3.6.1.4.1.7469.251.1.303.77724625	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-UNKNOWN-ELE7	1.3.6.1.4.1.7469.251.1.303.77724637	EROR Unexpected element found
vXMLILOG-BAD-FORM-ELE	1.3.6.1.4.1.7469.251.1.303.77727624	EROR Bad Form element
vXMLILOG-UNEXPT-INVOKE8	1.3.6.1.4.1.7469.251.1.303.77821827	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-CLEAR-VAR-FAIL3	1.3.6.1.4.1.7469.251.1.303.77824638	WARN ScriptEngine clear var scope failed
vXMLILOG-NEW-OPT-FAIL17	1.3.6.1.4.1.7469.251.1.303.78670204	CRIT EROR Failed new for <datatype>
vXMLILOG-NULL-POINTER10	1.3.6.1.4.1.7469.251.1.303.78773201	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-OBJ-DEF-FAIL3	1.3.6.1.4.1.7469.251.1.303.78773203	EROR ScriptEngine define object failed
vXMLILOG-UNKNOWN-ELE10	1.3.6.1.4.1.7469.251.1.303.78773213	EROR Unexpected element found
vXMLILOG-EVAL-EXPR-FAIL12	1.3.6.1.4.1.7469.251.1.303.78873206	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-INVALID-INPUTMODES	1.3.6.1.4.1.7469.251.1.303.78879108	WARN Invalid Inputmode on the page
vXMLILOG-NEW-OPT-FAIL14	1.3.6.1.4.1.7469.251.1.303.79718780	CRIT EROR Failed new for <datatype>
vXMLILOG-UNKNOWN-ELE8	1.3.6.1.4.1.7469.251.1.303.79821789	EROR Unexpected element found

Trap	OID	Description
vXMLILOG-UNEXPT-INVOKE9	1.3.6.1.4.1.7469.251.1.303.79918979	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-EVAL-EXPR-FAIL9	1.3.6.1.4.1.7469.251.1.303.79921782	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-SET-VAR-PRIMITIVE-FAIL3	1.3.6.1.4.1.7469.251.1.303.79921786	WARN ScriptEngine set var primitive value failed
vXMLILOG-CLEAR-VAR-FAIL4	1.3.6.1.4.1.7469.251.1.303.79921790	WARN ScriptEngine clear var scope failed
vXMLILOG-UNEXPT-RSLT3	1.3.6.1.4.1.7469.251.1.303.79928876	WARN Unexpected result %d from scriptElement::load()
vXMLILOG-STATE-AFTER-INPUT	1.3.6.1.4.1.7469.251.1.303.80867556	EROR MJ STATE_AFTER_INPUT wasn't resolved at compile time
vXMLILOG-VOICE-FILE-REQ-FAIL2	1.3.6.1.4.1.7469.251.1.303.80867565	EROR Unable to request voice file %s (url %s) for line %s
vXMLILOG-GRAMFILE-REQ-FAIL2	1.3.6.1.4.1.7469.251.1.303.80867580	EROR Unable to request grammar file %s (url %s) for line %s
vXMLILOG-NULL-POINTER7	1.3.6.1.4.1.7469.251.1.303.80870353	EROR Unexpected NULL pointer <ptr_name>
vXMLILOG-UNKNOWN-ELE5	1.3.6.1.4.1.7469.251.1.303.80870365	EROR Unexpected element found
vXMLILOG-GET-ELE-FAIL-MJ	1.3.6.1.4.1.7469.251.1.303.80870368	EROR Cannot get the element which created this state
vXMLILOG-UNKNOWN-TAG2	1.3.6.1.4.1.7469.251.1.303.80870371	EROR Unexpected tag found
vXMLILOG-GET-DLG-FAIL1	1.3.6.1.4.1.7469.251.1.303.80870373	EROR Cannot get current dialog pointer
vXMLILOG-RMV-SEC-CHANNEL-FAIL	1.3.6.1.4.1.7469.251.1.303.80870374	EROR Could not remove channel %s from secondary channel list
vXMLILOG-NEW-APP-FAIL	1.3.6.1.4.1.7469.251.1.303.80870378	EROR ScriptEngine new application for root failed
vXMLILOG-RESET-APP-FAIL	1.3.6.1.4.1.7469.251.1.303.80870379	EROR ScriptEngine reset application scope failed
vXMLILOG-SET-DOC-FAIL	1.3.6.1.4.1.7469.251.1.303.80870380	EROR ScriptEngine set document to application failed
vXMLILOG-RESET-DOC-FAIL	1.3.6.1.4.1.7469.251.1.303.80870381	EROR ScriptEngine reset document scope failed

Trap	OID	Description
vXMLILOG-EVAL-GRAM-EXPR-FAIL	1.3.6.1.4.1.7469.251.1.303.80875632	EROR Cannot evaluate grammar expr
vXMLILOG-EVAL-PROMPT-EXPR-FAIL	1.3.6.1.4.1.7469.251.1.303.80875633	EROR Cannot evaluate prompt expr
vXMLILOG-Illegal-LOOP-EVENT	1.3.6.1.4.1.7469.251.1.303.80877472	EROR Illegal loop involving event %s
vXMLILOG-NO-EVENT-LIST	1.3.6.1.4.1.7469.251.1.303.80877473	EROR No event list for tag %s
vXMLILOG-NO-EVENT-HDLR	1.3.6.1.4.1.7469.251.1.303.80877474	EROR No event handler for event %s for tag %s
vXMLILOG-UNEXPT-INVOKE6	1.3.6.1.4.1.7469.251.1.303.80967555	WARN EROR <state>::<msg> impossibly invoked on line %s
vXMLILOG-TARGET-NOT-RESOLVED	1.3.6.1.4.1.7469.251.1.303.80967557	WARN TARGET_NOT_RESOLVED still exists at runtime
vXMLILOG-INVALID-NEXT-STATE	1.3.6.1.4.1.7469.251.1.303.80967558	WARN Requested invalid next state %d
vXMLILOG-DUPLE-INSERT-FAIL	1.3.6.1.4.1.7469.251.1.303.80967566	WARN Can't insert <type> duple for line %s
vXMLILOG-EVAL-EXPR-FAIL7	1.3.6.1.4.1.7469.251.1.303.80970358	WARN EROR ScriptEngine evaluate expression failed
vXMLILOG-SET-VAR-FAIL3	1.3.6.1.4.1.7469.251.1.303.80970361	WARN ScriptEngine set var value failed
vXMLILOG-SET-VAR-PRIMITIVE-FAIL2	1.3.6.1.4.1.7469.251.1.303.80970362	WARN ScriptEngine set var primitive value failed
vXMLILOG-UNEXPT-RSLT2	1.3.6.1.4.1.7469.251.1.303.80977452	WARN Unexpected result %d from scriptElement::load()
vXMLILOG-ABORT-FAILED3	1.3.6.1.4.1.7469.251.1.303.80977804	WARN EROR Abort action failed (status %d) on line %s
vXMLILOG-DEL-VXMLI-FAIL2	1.3.6.1.4.1.7469.251.1.303.81915970	EROR Can't delete PMLI instance for line %s
vXMLILOG-COMPILE-TIME	1.3.6.1.4.1.7469.251.1.303.83265305	INFO The time to compile a page
vXMLILOG-FETCH-TIME	1.3.6.1.4.1.7469.251.1.303.83265306	INFO The time for fetching
vXMLILOG-DTMF-PROC-TIME	1.3.6.1.4.1.7469.251.1.303.83265307	INFO The time for processing dtmf input
vXMLILOG-DOM-EXPOSE-TIME	1.3.6.1.4.1.7469.251.1.303.83265308	INFO The time for expose the JS document object
vXMLILOG-EVAL-VAR-TIME	1.3.6.1.4.1.7469.251.1.303.83265314	INFO The time for evaluate a JS variable
vXMLILOG-EVAL-SCRIPT-TIME	1.3.6.1.4.1.7469.251.1.303.83265315	INFO The time for evaluate a JS script

Trap	OID	Description
vXMLILOG-EVAL-EXPR-TIME	1.3.6.1.4.1.7469.251.1.303.83265316	INFO The time for evaluate a JS expression
vXMLILOG-EVAL-EXPR-ATTR-TIME	1.3.6.1.4.1.7469.251.1.303.83265317	INFO The time for evaluate a VXML attribute expression
vXMLILOG-EVAL-COND-EXPR-TIME	1.3.6.1.4.1.7469.251.1.303.83265318	INFO The time for evaluate a VXML condition expression
vXMLILOG-SET-VAR-TIME	1.3.6.1.4.1.7469.251.1.303.83265319	INFO The time for setting value to a JS variable.
vXMLILOG-SET-PRIM-VAL-TIME	1.3.6.1.4.1.7469.251.1.303.83265320	INFO The time for setting primitive value to a JS variable.
vXMLILOG-DEF-VAR-TIME	1.3.6.1.4.1.7469.251.1.303.83265321	INFO The time for defining a JS variable.
VGLOG-EXEC-FAILED-PMLI	1.3.6.1.4.1.7469.251.1.303.134218732	CRIT Can't resolve symbol in DLL
VGLOG-CANT-OPEN-CONFIGFILE-PMLI	1.3.6.1.4.1.7469.251.1.303.134219730	EROR Can't open Configuration file.
VGLOG-SOCKET-SEND-FAILED-PMLI	1.3.6.1.4.1.7469.251.1.303.134219731	EROR Socket send failed.
VGLOG-FORK-FAILED-PMLI	1.3.6.1.4.1.7469.251.1.303.134219732	EROR Can't resolve symbol in DLL
VGLOG-VGASSERT-PMLI	1.3.6.1.4.1.7469.251.1.303.135267305	CRIT VGASSERT
cCOMMONLOGMOD-VGCOMM-CANTREPLYTOCLIENT2	1.3.6.1.4.1.7469.251.1.303.137365457	EROR Unable to reply to client
cCOMMONLOGMOD-VGCOMM-CANTSENDMSG2	1.3.6.1.4.1.7469.251.1.303.137365458	EROR Unable to send message
cCOMMONLOGMOD-VGCOMM-BADMSGFRMT2	1.3.6.1.4.1.7469.251.1.303.137365459	EROR Bad message format
cCOMMONLOGMOD-VGCOMM-NAMEVALUELISTLONG2	1.3.6.1.4.1.7469.251.1.303.137365460	EROR names/values list too long
cCOMMONLOGMOD-VGCOMM-BADPREVRESULT2	1.3.6.1.4.1.7469.251.1.303.137365461	EROR Calling NVPairNext() with bad prev_result
cCOMMONLOGMOD-VGCOMM-NVPAIRSTRINGODDTOKENS2	1.3.6.1.4.1.7469.251.1.303.137365462	EROR Name-Value pair string has odd number of tokens
cCOMMONLOGMOD-VGCOMM-INVDMMSGHDR2	1.3.6.1.4.1.7469.251.1.303.137365463	EROR Invalid message header
cCOMMONLOGMOD-VGCOMM-FAILSTARTTHREAD2	1.3.6.1.4.1.7469.251.1.303.137365464	EROR Failed to start thread
cCOMMONLOGMOD-VGCOMM-ERRWHENSTOPTHREAD2	1.3.6.1.4.1.7469.251.1.303.137365465	EROR Error when stopping thread
cCOMMONLOGMOD-VGCOMM-CANTFINDCONNID2	1.3.6.1.4.1.7469.251.1.303.137365466	EROR Did not found the ConnID
cCOMMONLOGMOD-VGCOMM-FAILCREATECLIENTSCKT2	1.3.6.1.4.1.7469.251.1.303.137365467	EROR Failed to create Client Socket

Trap	OID	Description
cCOMMONLOGMOD-VGCOMM-CNNCTTOREMOTEFAIL2	1.3.6.1.4.1.7469.251.1.303.137365468	EROR ConnectToRemote() failed
cCOMMONLOGMOD-VGCOMM-FAILSENDDATA2	1.3.6.1.4.1.7469.251.1.303.137365469	EROR Failed to send data
cCOMMONLOGMOD-VGCOMM-MSGTOOBIG2	1.3.6.1.4.1.7469.251.1.303.137366457	WARN Failed to send message because msg too big
cCOMMONLOGMOD-VGCOMM-FAILSENDMSGTOSRVCE2	1.3.6.1.4.1.7469.251.1.303.137366458	WARN Failed to send message to service
vGLOG-CANT-OPEN-DLL-PMLI	1.3.6.1.4.1.7469.251.1.303.138413034	CRIT Can't open DLL library
vGLOG-CANT-RESOLVE-DLL-SYM-PMLI	1.3.6.1.4.1.7469.251.1.303.138413035	CRIT Can't resolve symbol in DLL
vGLOG-EMAILER-STAT-FAILED-PMLI	1.3.6.1.4.1.7469.251.1.303.138415033	WARN Config file bad format

Command Line Console Traps (cmpcTraps)

Trap	OID	Description
vGLOG-TEST-ALARM	1.3.6.1.4.1.7469.251.1.308.1	WARN CMP Test Alarm
vGLOG-DB-REPAIR-ALARM	1.3.6.1.4.1.7469.251.1.308.1000	WARN CMP database table needs repair
vGLOG-DB-REPAIR-FAIL-ALARM	1.3.6.1.4.1.7469.251.1.308.1001	EROR Repairing CMP database table failed
vGLOG-DB-TRUNCATE-ALARM	1.3.6.1.4.1.7469.251.1.308.1002	WARN Truncate CMP database table
vGLOG-DB-TRUNCATE-FAIL-ALARM	1.3.6.1.4.1.7469.251.1.308.1003	EROR Truncating CMP database table failed
vGLOG-INVALID-MSG-TYPE-CMPC	1.3.6.1.4.1.7469.251.1.308.1048597	WARN Invalid Message Type Sent or Received
vGLOG-CANNOT-CREATE-SERVER-CMPC	1.3.6.1.4.1.7469.251.1.308.1048598	WARN Error Creating Server Socket
vGLOG-CANNOT-CREATE-CLIENT-CMPC	1.3.6.1.4.1.7469.251.1.308.1048599	WARN Error Creating Client Socket
vGLOG-CFG-WRITE-FAIL-CMPC	1.3.6.1.4.1.7469.251.1.308.2097178	WARN Configuration file could not be written
vGLOG-DSRV-INVALID-QUERY-CMPC	1.3.6.1.4.1.7469.251.1.308.6291477	WARN Invalid data query string received
vGLOG-DSRV-UNSUPPORTED-VAR-CMPC	1.3.6.1.4.1.7469.251.1.308.6291478	WARN Query for unsupported variable received
vGLOG-SOCKET-SEND-FAILED-CMPC	1.3.6.1.4.1.7469.251.1.308.134219731	EROR Socket send failed
vGLOG-VGASSERT-CMPC	1.3.6.1.4.1.7469.251.1.308.135267305	CRIT VGASSERT

Proxy Traps (prxyTraps)

Trap	OID	Description
vGLOG-INVALID-MSG-TYPE-PRXY	1.3.6.1.4.1.7469.251.1.309.1048597	WARN Invalid Message Type Sent or Received
vGLOG-CANNOT-CREATE-CLIENT-PRXY	1.3.6.1.4.1.7469.251.1.309.1048599	WARN Error Creating Client Socket
vGLOG-CFG-WRITE-FAIL-PRXY	1.3.6.1.4.1.7469.251.1.309.2097178	WARN Configuration file could not be written
vGLOG-PRV-ALREADY-SETUP-PRXY	1.3.6.1.4.1.7469.251.1.309.4194325	WARN Provision Service has already been Setup
vGLOG-PRV-NOT-SETUP-PRXY	1.3.6.1.4.1.7469.251.1.309.4194326	WARN Provision Service has not been Setup
vGLOG-PRV-NOT-SYNCRONIZED-PRXY	1.3.6.1.4.1.7469.251.1.309.4194327	WARN Provision Service not Synchronized
vGLOG-PRV-FILE-NOT-CREATED-PRXY	1.3.6.1.4.1.7469.251.1.309.4194328	WARN Provision file can not be created
vGLOG-PRV-FILE-NOT-OPENED-PRXY	1.3.6.1.4.1.7469.251.1.309.4194329	WARN Provision file can not be opened
vGLOG-DSRV-INVALID-QUERY-PRXY	1.3.6.1.4.1.7469.251.1.309.6291477	WARN Invalid data query string received
vGLOG-DSRV-UNSUPPORTED-VAR-PRXY	1.3.6.1.4.1.7469.251.1.309.6291478	WARN Query for unsupported variable received
fMLOG-MEM-ALLOC-FAIL1	1.3.6.1.4.1.7469.251.1.309.83896080	CRIT Memory allocation failed
fMLOG-MEM-ALLOC-FAIL2	1.3.6.1.4.1.7469.251.1.309.84944656	CRIT Memory allocation failed
fMLOG-MEM-ALLOC-FAIL3	1.3.6.1.4.1.7469.251.1.309.85993232	CRIT Memory allocation failed
fMLOG-CMP-CONF-FAIL	1.3.6.1.4.1.7469.251.1.309.86003236	EROR CMP configuration setup failed
fMLOG-CMPAGENT-INIT-FAIL	1.3.6.1.4.1.7469.251.1.309.86003237	EROR CMP Agent initialization failed
fMLOG-CMPLOG-INIT-FAIL	1.3.6.1.4.1.7469.251.1.309.86003238	EROR CMP logging service initialization failed
fMLOG-MEM-ALLOC-FAIL4	1.3.6.1.4.1.7469.251.1.309.88090384	CRIT Memory allocation failed
fMLOG-BAD-SHMEM-PARAM	1.3.6.1.4.1.7469.251.1.309.88100391	EROR Invalid shared memory parameter
fMLOG-SHMEM-NAME-EMPTY	1.3.6.1.4.1.7469.251.1.309.88100392	EROR Empty shared memory name
fMLOG-SHSEM-NAME-FAIL	1.3.6.1.4.1.7469.251.1.309.88100393	EROR Shared semaphore name generation failed
fMLOG-SHSEM-CREATE-FAIL	1.3.6.1.4.1.7469.251.1.309.88100394	EROR Shared semaphore creation failed
fMLOG-SHSEM-LOCK-FAIL	1.3.6.1.4.1.7469.251.1.309.88100395	EROR Shared semaphore lock failed

Trap	OID	Description
fMLOG-SHMEM-MAP-FAIL	1.3.6.1.4.1.7469.251.1.309.88100396	EROR Shared memory map failed for specified file
fMLOG-SHMEM-ATTACH-FAIL	1.3.6.1.4.1.7469.251.1.309.88100397	EROR Shared memory attach failed for specified ID
fMLOG-SHMEM-NAME-FAIL	1.3.6.1.4.1.7469.251.1.309.88100398	EROR Shared memory name generation failed
fMLOG-SHMEM-CREATE-FAIL	1.3.6.1.4.1.7469.251.1.309.88100399	EROR Shared memory creation failed for specified size
fMLOG-SHMEM-READ-FAIL	1.3.6.1.4.1.7469.251.1.309.88100400	EROR Unable to read shared-memory
fMLOG-SHMEM-WRITE-FAIL	1.3.6.1.4.1.7469.251.1.309.88100401	EROR Unable to write shared-memory
fMLOG-GET-PIPE-FAIL	1.3.6.1.4.1.7469.251.1.309.88100402	EROR Failed to get pipe name
fMLOG-OPEN-PIPE-FAIL	1.3.6.1.4.1.7469.251.1.309.88100403	EROR Failed to open pipe
fMLOG-SHMEM-UNMAP-FAL	1.3.6.1.4.1.7469.251.1.309.88110385	WARN Shared memory unmap failed for specified file
fMLOG-SHMEM-DETACH-FAIL	1.3.6.1.4.1.7469.251.1.309.88110386	WARN Shared memory detach failed
fMLOG-CLS-PIPE-FAIL	1.3.6.1.4.1.7469.251.1.309.88110387	WARN Failed to close pipe
fMLOG-MEM-ALLOC-FAIL5	1.3.6.1.4.1.7469.251.1.309.89138960	CRIT Memory allocation failed
fMLOG-FM-INIT-FAIL1	1.3.6.1.4.1.7469.251.1.309.89138961	CRIT Fetching Module initialization failed
fMLOG-SESS-OPEN-FAIL	1.3.6.1.4.1.7469.251.1.309.89148960	EROR Open Session to Fetching Server failed
fMLOG-CONN-FAIL	1.3.6.1.4.1.7469.251.1.309.89148961	EROR Connect to Fetching Server failed.
fMLOG-SEND-FAIL	1.3.6.1.4.1.7469.251.1.309.89148962	EROR Send to Fetching Server failed
fMLOG-BAD-SESS-ID	1.3.6.1.4.1.7469.251.1.309.89148963	EROR Invalid session ID
fMLOG-SESS-CLS-FAIL1	1.3.6.1.4.1.7469.251.1.309.89158960	WARN Close Session to Fetching Server failed
fMLOG-MEM-ALLOC-FAIL6	1.3.6.1.4.1.7469.251.1.309.90187536	CRIT Memory allocation failed
fMLOG-FM-INIT-FAIL2	1.3.6.1.4.1.7469.251.1.309.90187537	CRIT Fetching Module initialization failed
fMLOG-MEM-ALLOC-FAIL7	1.3.6.1.4.1.7469.251.1.309.92284688	CRIT Memory allocation failed
fMLOG-SESS-CLS-FAIL2	1.3.6.1.4.1.7469.251.1.309.92304688	WARN Close Session to Fetching Server failed
vGLOG-EXEC-FAILED-PRXY	1.3.6.1.4.1.7469.251.1.309.134218732	CRIT Can't resolve symbol in DLL
vGLOG-CANT-OPEN-CONFIGFILE-PRXY	1.3.6.1.4.1.7469.251.1.309.134219730	EROR Can't open Configuration file.

Trap	OID	Description
VGLOG-SOCKET-SEND-FAILED-PRXY	1.3.6.1.4.1.7469.251.1.309.134219731	EROR Socket send failed.
VGLOG-FORK-FAILED-PRXY	1.3.6.1.4.1.7469.251.1.309.134219732	EROR Can't resolve symbol in DLL
VGLOG-VGASSERT-PRXY	1.3.6.1.4.1.7469.251.1.309.135267305	CRIT VGASSERT
VGLOG-CANT-OPEN-DLL-PRXY	1.3.6.1.4.1.7469.251.1.309.138413034	CRIT Can't open DLL library
VGLOG-CANT-RESOLVE-DLL-SYM-PRXY	1.3.6.1.4.1.7469.251.1.309.138413035	CRIT Can't resolve symbol in DLL
VGLOG-EMAILER-STAT-FAILED-PRXY	1.3.6.1.4.1.7469.251.1.309.138415033	WARN Config file bad format

Enable Traps

Trap	OID	Description
vgEnableTraps	1.3.6.1.4.1.7469.251.10	Indicates whether the VG module is permitted to generate traps.

Trap Message

Trap	OID	Description
trapMessage	1.3.6.1.4.1.7469.251.20	Trap text message.Done

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