

Dialogic® 4000 Media Gateway Series Quickstart

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Dialogic® 4000 Media Gateway Series Quickstart Guide

This document describes the installation and configuration of the Dialogic[®] 4000 Media Gateway Series using the Dialogic[®] 4000 Media Gateway Service Update 3 software. The term "Dialogic[®] 4000 Media Gateways" is used herein to refer collectively to the Dialogic[®] 4000 Media Gateway Series and the term "Dialogic[®] 4000 Media Gateway" is used herein to refer to a gateway in the Dialogic[®] 4000 Media Gateway Series. This document assumes that the user is familiar with the Windows[®] operating system and its configuration, and therefore it does not describe the Windows configuration step by step.

Server System

The Dialogic[®] 4000 Media Gateways use an Intel IP Network Server NSW 1U-R as server system. For more information regarding this hardware, see the Intel web site at www.intel.com.

Available Dialogic® Media Gateway Versions

The following Dialogic Media Gateways are available:

Version	Media Boards installed	Channels Voice	Channels Fax	Channels Dialogic [®] Diva [®] SIPcontrol [™] Software
4008BRI	1 x Dialogic [®] Diva [®] 4BRI-8 PCI	8	8	8
4008LS	1 x Dialogic [®] Diva [®] Analog-8 PCI	8	8	8
4030DTIV34	1 x Dialogic [®] Diva [®] PRI/E1/T1-30 PCI	30	30	30
4060DTI	1 x Dialogic [®] Diva [®] V-2PRI-60 PCI	60	12 - 60 (separate license needed; see note below)	60
4060DTIV34	1 x Dialogic [®] Diva [®] V-2PRI-60 PCI	60	60 (separate license needed; see note below)	60
4120DTI	1 x Dialogic [®] Diva [®] V-4PRI-120 PCI	120	12 - 120 (separate license needed; see note below)	120
4120DTIV34	1 x Dialogic [®] Diva [®] V-4PRI-120 PCI	120	120 (separate license needed; see note below)	120

Note: The Dialogic[®] 4000 Media Gateways include the option to activate a default fax license for 12 channels. If you need more channels, you are required to purchase a license. For more information about licenses, see <u>License Activation</u> on page 13.

Pre-installed Operating System

The Windows Server[®] 2008 R2 64-bit operating system is pre-installed on the Dialogic[®] 4000 Media Gateways.

Software Components

The following Dialogic[®] Diva[®] software is pre-installed on the Dialogic[®] 4000 Media Gateways:

- Dialogic[®] Diva[®] System Release 8.5WIN Service Update 6: It includes the necessary Dialogic[®] Diva[®] Media Board installation, configuration, tracing, and line testing utilities.
- Dialogic[®] Diva[®] SIPcontrolTM 2.1: It includes the necessary SIP to PSTN gateway module installation including a web-based gateway configuration.

Additionally, the gateways are supplied with the following Microsoft[®] software:

Microsoft[®] Office Communications Server 2007 R2 Mediation Server

For more information about $Dialogic^{\otimes}$ 4000 Media Gateways and $Microsoft^{\otimes}$ Unified Communications, see www.dialogic.com/microsoftuc. See the Dialogic web site also for any product updates.

Also, you can add Remote Call Control via third party software. Contact your Dialogic partner or the Dialogic sales team for more information.

General Safety Instructions

WARNING



- To help prevent electric shock, plug the gateway's power cables into properly grounded electrical outlets. Do not use adapter plugs or remove the grounding prong from a cable. If you must use an extension cable, use a three-wire cable with properly grounded plugs.
- The voltage and current rating of the cable should be greater than the ratings marked on the product.
- Do not spill food or liquids on your gateway, and never operate the product in a wet environment.
- Do not push any objects into the openings of your gateway. Doing so can cause fire or electric shock by shorting out interior components.
- Never install telephone jacks in wet locations.
- Never touch non-insulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources. The use of a surge arrestor on the AC line is recommended.

Warning! Do not attempt to modify or use the supplied AC power cord if it is not the exact type required.

Avertissement! Ne pas utiliser ni modifier le câble d'alimentation secteur fourni, s'il ne correspond pas exactement au type requis.

Warnung! Versuchen Sie nicht, das mitgelieferte Netzkabel zu verändern oder zu verwenden, wenn es sich nicht um genau den erforderlichen Typ handelt.

Avvertenza! Non modificare o utilizzare il cavo di alimentazione in c.a. fornito dal produttore, se non corrisponde esattamente al tipo richiesto.

iAdvertencia! No intente modificar ni usar el cable de alimentación de corriente alterna, si no corresponde exactamente con el tipo requerido.

- In some cases, the power cord supplied with this system may not be compatible with the AC wall outlet in your region. If this is true, you must obtain a suitable power cord that meets the following criteria:
 - The cord must be rated for use at the AC voltage available, with a current rating that is at least 125% of the current rating of the product (for current rating information, refer to the regulatory label affixed to the product).
 - The AC plug end must be terminated in a grounding-type male plug designed for use in your region. The plug ends must be labeled or marked to indicate they have been certified by an agency acceptable in your region.
 - The power service must be connected through a properly grounded outlet.
 - The connector at the product end must be an IEC 320, sheet C13, female connector (or the equivalent EN 60 320 connector).
 - The cord must be less than 14.8 feet (4.5 meters) long and, for use in Europe, be created with <HAR> (harmonized) or VDE certified cordage.
 - If power needs to be removed from this product, you must disconnect the power cord; therefore, the socket-outlet shall be installed near the equipment and shall be easily accessible.

WARNING



Rack Mounting Warnings:

- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

INFORMATION

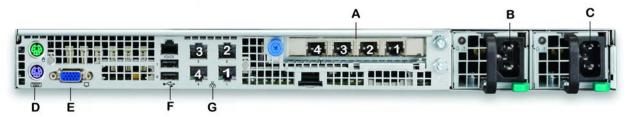


- Do not open the gateway box! Otherwise the warranty voids.
- Use only power cables approved for the use in your country.
- To help protect your gateway from transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Keep your gateway away from radiators and heat sources. Also, do not block cooling vents.

Dialogic® Diva® PRI Media Boards

Cables for Interface ports used for the Dialogic[®] 4000 Media Gateway Series shall be shielded.

Installation



- 1. Take the Dialogic[®] 4000 Media Gateway and identify its ports:
 - **A**: ports of the Dialogic[®] Diva[®] Media Board: The above graphic shows a Dialogic[®] 4120 Media Gateway; therefore, the four ports of a Dialogic[®] Diva[®] V-4PRI/E1/T1 are displayed.

Note: If you have a Dialogic[®] Media Gateway with a Dialogic[®] Diva[®] Analog-8 PCI Media Board installed, the port assignation is as follows (from left to right):



- B: power supply,
- C: redundant power supply,
- D: two PS/2 ports,
- E: VGA port for the monitor,
- F: two USB ports for mouse and keyboard,
- G: four Ethernet ports.
- 2. Connect the mouse and keyboard to the USB or PS/2 ports.
- **3.** Connect one end of the Ethernet cable to the Ethernet port 1 and the other end to the corporate Ethernet. For fault tolerance and load balancing, also connect a cable to Ethernet port 2 the same way. See the above graphic above for the numbering of the ports.
- 4. Connect the monitor to the VGA port.
- **5.** Plug one end of the T1/E1 cables into the ports of the Diva Media Board. Plug the other end into the ports of the PBX. The ports of the Diva Media Board are numbered from 4 to 1 from the left to the right as shown in the graphic above. The port numbers may be important during the software configuration.
- **6.** Plug one end of the power cord into the power supply. Connect the other end to power source. Connect the second power cord the same way. It is recommended to connect both power supplies to ensure proper functioning of the Dialogic 4000 Media Gateway.
- 7. Switch on the Dialogic 4000 Media Gateway.

Initial Log On

The initial configuration allows the unit to be configured using a remote desktop connection.

The Dialogic[®] 4000 Media Gateway Series is initially configured with:

- Ethernet port 1 and 2: with fixed IP address 192.168.1.1
- · Ethernet port 3 and 4: disabled

Note: The above numbering of the Ethernet ports refers to the numbering at the rear panel of the Media Gateway and not to the numbering displayed in the Control Panel of your operating system.

- System name: DMG4<XXX>-<XXXXX> (4<XXX> -> XXX stand for the version number, i.e., 060 or 120, XXXXX -> stand for the last five digits of the serial number)
- User name: Dialogic
- Password: Dialogic (Change the password after the initial log on.)

Preparing for Configuration

Before you start to configure your Dialogic[®] Media Gateway, it is necessary to gather some information about the environment in which it will be used.

Collect the following information:

- 1. In case the gateway is to be connected to a PBX: Which vendor and which PBX type will be used?
- What protocol will be used on the PSTN/PBX side of the gateway? Examples are EuroISDN (ETSI-DSS1), Q-SIG, and DMS100.

License Activation

If you want to use one or more of the the following functionalities:

- V.17 fax,
- V.34 fax,
- V.90 modem, or
- G.729

available with the installed Dialogic[®] Diva[®] Media Board, you need to activate a license. Together with the Dialogic 4000 Media Gateway Series, Dialogic provides a default license for V.17 fax simultaneously on 12 channels. You need to activate the license as described below before you can use the fax feature. If you need more channels for V.17 fax or if you want to use another of the above listed functionalities, you need to purchase a license. Contact your Dialogic sales representative for more information.

To activate your license, you need the following information:

- <u>Device Unique ID (DUID)</u> on page 13
- Proof of Purchase Code (PPC) on page 13

Once you have both, the DUID and the PPC, visit the Dialogic[®] Diva[®] Activation site to register your PPC together with the DUID and you will receive your license file. Activate this license file in the License Manager of the Dialogic[®] Diva[®] Configuration Manager. The Diva Configuration Manager is part of the Dialogic[®] Diva[®] System Release software and allows you to configure your Diva Media Board. For more information about the license activation, see To activate the license file on page 15.

Device Unique ID (DUID)

The DUID binds the license to the installed $Dialogic^{\$}$ $Diva^{\$}$ Media Board. You can get the DUID from the $Dialogic^{\$}$ $Diva^{\$}$ Configuration Manager as described here:

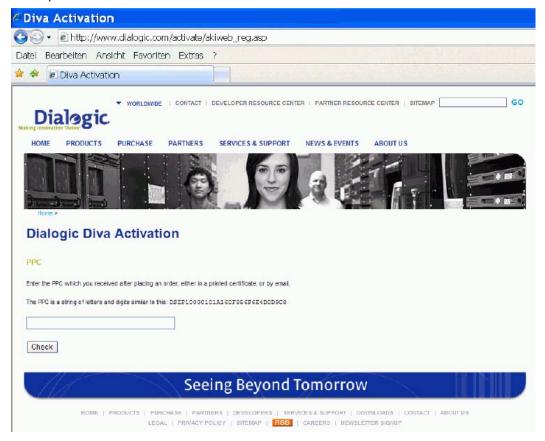
- 1. Click Start > Programs > Dialogic Diva > Configuration Manager.
- 2. In the menu bar, click Tools > License Manager and click Available DUIDs on this system.
- **3.** In the right pane of the dialog box, select the Diva Media Board for which you want to activate a license and click **Copy DUID to the clipboard**.
- **4.** If you need to do the web activation using another computer, open an editor, paste the DUID, and save the file.

Proof of Purchase Code (PPC)

When you purchase the license, you will receive a PPC either in printed form or via email. By registering this PPC, you represent and warrant that you lawfully purchased the license.

To register your PPC and DUID

- 1. Open the following web site: http://www.dialogic.com/activate.
- 2. Enter your PPC and click Check.



Diva Activation Datel Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe 🧼 🔹 🦫 🕆 🌅 🧥 💁 🥬 http://www.dialogic.com/activate/akiweb_reg.asp -WORLDWIDE | CONTACT | DEVELOPER RESOURCE CENTER | PARTNER RESOURCE CENTER | SITEMAP Dialogic. PURCHASE PARTNERS SERVICES & SUPPORT NEWS & EVENTS **ABOUTUS Dialogic Diva Activation** DSIP200000023468A4D2BC63A1D668 Homs Oty Code Name 2 DNI2-040 30-day Demo, Fax 1.38, per channel The OUD displayed on the Activation page of the Diva Server configuration utility is required to complete the registration process The DUD is a number like one of these. H123456789, S1234567890, N123456788, U9-1234567 or 9-1234567 **Email Address** The email address that you enter here will be used for delivery of your licence file Comment You can enter a comment here which may appear in the licence file

3. If your PPC is valid, the following web site will open:

Paste the Device Unique ID (DUID) that you saved earlier, and enter your email address to which the license file should be sent.

- 4. Click **Activate** to generate the license file that will be sent to the email address you have entered.
- 5. Save the license file and activate it as described below.

To activate the license file

Activate

Note: The date set in the system settings of your computer must be correct. Otherwise, you cannot add your license file.

- Open the Dialogic[®] Diva[®] Configuration Manager. To do so, click Start > Programs > Dialogic Diva > Configuration Manager.
- 1. Click **Tools** > **License Manager** in the menu bar of the Diva Configuration Manager.
- 2. Click **Add License** and go to the directory where you saved the license file.
- 3. Select the license file and click **Open**. Your license file is now added to the License Manager.
- 4. Click **Close** to close the License Manager.
- 5. In the Diva Configuration Manager menu bar, click **File** > **Activate** to activate the configuration.
- **6.** Now, the fax functionality you acquired with your license is unlocked.

Basic Configuration

Configure the connection to the PSTN/PBX line in the Dialogic[®] Diva[®] SIPcontrol[™] Software web interface.

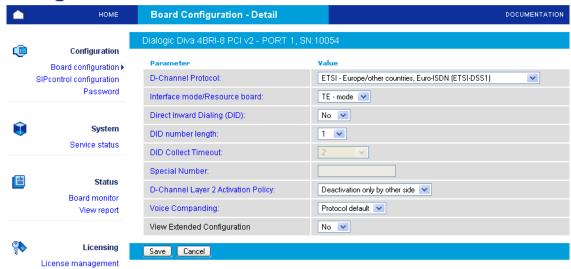
- 1. Click Start > Programs > Dialogic Diva > SIPcontrol Configuration to open the web interface.
- 2. In the Diva SIPcontrol software web interface, click **Board configuration** on the left hand side. A page displaying all installed Diva Media Boards will open:

Dialogic.



3. To configure Diva Media Board parameters, either click the board name or click the down arrow and select **Configuration**. A page displaying the basic parameters will open:

Dialogic.



- **4.** Select the **D-Channel Protocol** to which your gateway is connected, either a PSTN line or a PBX. In the graphic.
- **5.** Configure additional settings for the line, e.g., for the D-channel protocol QSIG you can configure the **PBX Type** and configuration settings for the selected PBX. To open the online help for a specific parameter, click the parameter and a window with the help text will pop up.
- **6.** When you finished configuring, click **Save** and close the Diva SIPcontrol software web interface.
- **7.** After the configuration is saved, restart your Dialogic[®] Media Gateway.

SIP Configuration

The SIP settings are configured in the Dialogic[®] Diva[®] SIPcontrolTM software web interface.

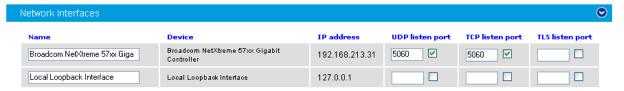
1. To open the tool, click **Start** > **Programs** > **Dialogic Diva** > **SIPcontrol Configuration**.

Note: If you need help configuring the Dialogic[®] Diva[®] SIPcontrolTM software settings:

- click the respective parameter in the configuration tool to open a window with the help text, or
- refer to the Dialogic[®] 4000 Media Gateway Series Reference Guide that provides a detailed description of all parameters.
- 2. Under PSTN Interface Configuration, the controllers of the Dialogic[®] Diva[®] Media Board are listed and enabled by default. Click the check boxes under **Enabled** to disable the controllers you do not use. See the graphics of the Dialogic[®] Media Gateway rear panels under <u>Installation</u> on page 12 to identify which port corresponds to which controller.

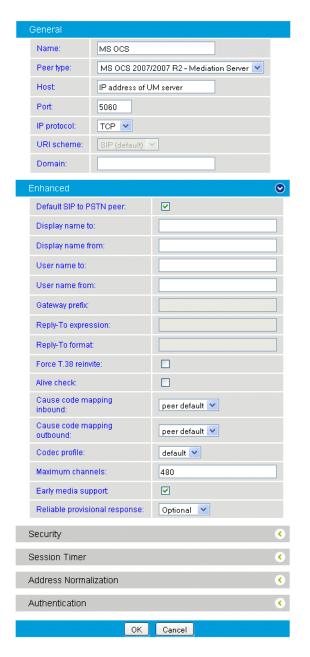


- **3.** Go to **Network Interface Configuration** and set the **UDP listen port** and the **TCP listen port** of your Ethernet adapter to:
 - 5060 if the Microsoft[®] Mediation Server is not installed on the Media Gateway.
 - 9803 if the Microsoft[®] Mediation Server is installed on the Media Gateway.



Enable the checkbox next to the box where you entered the listen port number.

4. Configure the SIP peer settings. To do so, click SIP Peer Configuration and then click Add to open the Edit SIP Peer Configuration window.



- 1. Enter a name for the SIP peer configuration.
- 2. Select the peer type MS OCS 2007 / Mediation Server.
- 3. Set the \mbox{Host} to the IP address of your Mediation Server.

- 4. Enable the **Default SIP to PSTN peer** check box.
- 5. Leave the other settings at their default values.

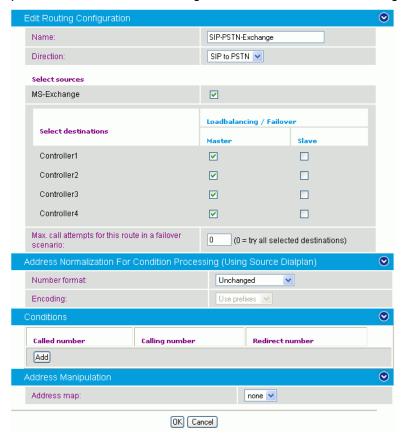
6. Click \mathbf{OK} to save the settings and to close the menu.

- **5.** Configure one routing for PSTN to SIP and one for SIP to PSTN. To do so, click **Routing Configuration** and then click **Add** to open the **Edit Routing Configuration** window.
 - For PSTN to SIP, enter a name and select the direction. Select the controller that should be used for this routing and the configured SIP peer as **Master**. Leave the remaining settings at their default values.



Click **OK** to save the settings and to close the window.

• For SIP to PSTN, enter a name and select the direction. Select the SIP peer as source and the controller you want to use for this routing as **Master**. Leave the remaining settings at their default values.



Click **OK** to save the settings and to close the window.

6. If you have configured all settings, click **Save** in the main configuration page to save the settings and to activate the changes.

For the settings in other environments, consult the user guide of your respective SIP client.

7. If you use a Microsoft® Mediation Server on the Dialogic® 4000 Media Gateway Series go to Enabling the Microsoft® Mediation Server on page 21, before you start the service.

Enabling the Microsoft® Mediation Server

The Dialogic $^{\$}$ 4000 Media Gateway is a co-located Media Gateway for Microsoft $^{\$}$ Office Communications Server (OCS) 2007 R2; therefore, the Microsoft $^{\$}$ Mediation Server will be running directly on this device. The device must be part of the same domain as the OCS.

The required steps are:

- 1. Install the Microsoft OCS 2007 and add the Dialogic 4000 Media Gateway to the same domain of the OCS.
- 2. Restart the computer and login with the account that has domain administrator rights.
- 3. Activate the Mediation Server. To do so:
 - Right-click the Activate OCS Mediation Server link and select Run as Administrator.
 - To confirm the User Account Control dialog, click **Continue**.
 - Confirm to proceed with script by entering **Y** (shift-y) + **Enter**.
 - Enter the user name of the account running the Microsoft® Mediation Server.
 - Enter the password for this account.

Note: If the account does not exist, it will be created with the entered password.

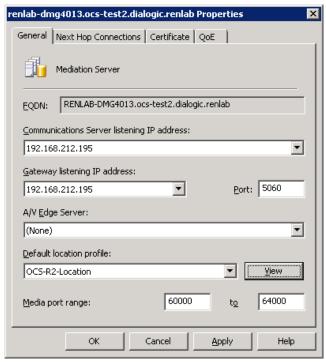
- **4.** If the activation was successful, continue with the configuration of the Mediation Server using the MMC of OCS 2007. You will find the MMC under **Start** > **Settings** > **Control Panel** > **Administrative Tools** > **Office Communications Server**.
- **5.** Request, retrieve, and import a certificate from a CA (Certificate Authority) and add it to the Mediation Server. Refer to the OCS 2007 documentation for more information about how to accomplish this.

Note: This step needs to be undertaken while you are directly logged on to the Media Gateway. It cannot be undertaken using the MMC of the OCS 2007 on another PC in the domain.

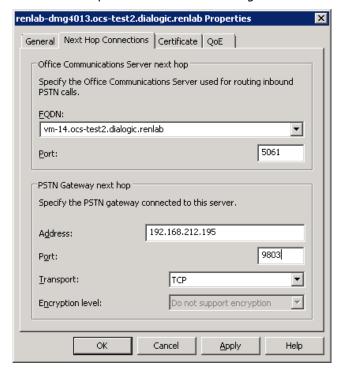
6. The remaining configuration steps for setting up the Mediation Server can be done remotely by using the MMC of the OCS 2007 on another PC in the domain.

On the Mediation Server, you need to configure the IP address of the PSTN gateway to ensure proper functioning. To do so:

1. Configure the properties of your Mediation Server in the OCS 2007 window. On the **General** tab, you can see the **Gateway listening IP address**. Annotate this number.

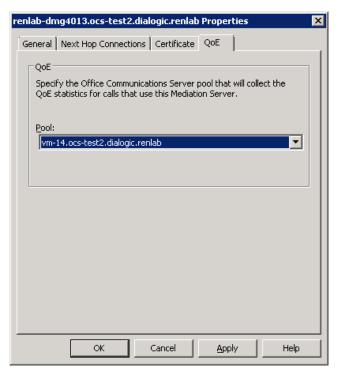


2. Click the **Next Hop Connections** tab. Under **PSTN Gateway next hop**, enter the annotated IP address and enter the port number of the Dialogic[®] Diva[®] SIPcontrolTM software.



3. Click the QoE tab and select the Dialogic Media Gateway.

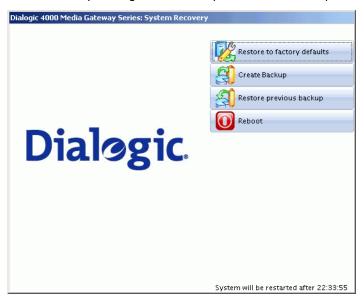
This step applies only to Dialogic $^{\otimes}$ 4000 Media Gateways with the Service Update 3 software and the Microsoft $^{\otimes}$ Office Communications Server R2 Mediation Server installed.



4. Click **OK** to close the dialog box.

Backing up and Restoring the Configuration

The Dialogic[®] 4000 Media Gateways provide a restore and backup menu. You can access this menu if you press the left ALT key during the boot sequence. The menu provides the following options:



Restore to factory defaults: The configuration is set to default factory settings with which the Media Gateway was delivered. If you choose this option and you accept to restore the factory defaults, all current settings will be lost.

Create backup: An image of all settings is created and stored under D:/backup. The backup is overwritten every time you create a new backup. If you need to keep a backup with certain settings, save it in a different directory or on an external medium.

Restore previous backup: With this option, you can restore a previously saved backup. This might be necessary if you need re-activate the settings of a configuration you saved earlier. If you choose this option, all current settings will be lost.

Reboot: Restarts the Media Gateway.

If you do not choose any of the settings, the Media Gateway will be restarted after the time, displayed at the bottom of the dialog box, has elapsed.

LED Indicators and Switches

The following LED indicators and switches are integrated in the front panel of the Media Gateway:



LED/Switch	Function	Color	Status	Description
1	Power LED	green	off	Power off or power source disrupted
			lit	Power on
2	Status LED	green	lit	Normal activity
			flashing	Degraded operation
		orange	lit	Critical fault
			flashing	Non-critical fault
3	Disk Activity LED	green	lit	HDD activity
		orange	lit	HDD fault (non-critical)
		red	lit	Critical fault
4	NIC Activity LED	green	lit	No fault
5	ID LED	blue	lit	Used to identify a particular system
6	Power Switch			
7	Reset Switch			
8	NMI Switch			
9	ID Switch			

Technical Specifications

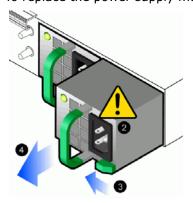
Environmental requirement:

Operating temperature: 10 degrees Celsius to 35 degrees Celsius

	Dialogic [®] 4000 Media Gateways	
CPU	Intel Xeon 5160 Dual Core processor; 3.0GHz	
Memory	2 GB DDR2 ECC SDRAM (667MHz)	
Dimensions in mm		
Height:	44	
Width:	430	
Length:	508	
External interface	3 USB (2.0) ports VGA port RS232 Serial port 4 x Gigabit-Ethernet ports	
Internal interface	64 bit; PCI (3.3 V)	
Power supply	2 power supplies; each with: 100-240 Vac 50/60 Hz 4/2 A	

Replacing a Power Supply Module

To replace the power supply module (PSM), do the following:



- **1.** If you have two power supply modules, verify which one has failed. The LED next to the green handle is lit red if the PSM failed.
- 2. Disconnect the power cord.

Note: You need to disconnect the power cord only of the PSM that failed. The power cord of the functioning PSM can remain plugged.

- **3.** Slide the green safety lock to the left.
- **4.** Grasp the green handle and pull the PSM out.
- **5.** Take the new PSM and insert it into the box. Make sure to keep the green safety lock pressed to the left while inserting the PSM.

International Regulatory Information

Regulatory Information for Europe



WARNING This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



All Dialogic[®] 4000 Media Gateways are certified in Europe (**€** mark).

Approval in Europe includes only countries that accept European Union approval (€ mark): Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

Some other countries in Eastern Europe and the Mediterranean region also accept the CE-mark. If you are unsure, please check with your equipment supplier, service provider or regulatory authority for confirmation.

The Dialogic® products covered by this notice meet the following European Directives:

2006/95/EC Safety/Low Voltage Directive

2004/108/EC EMC Directive 99/05/EC **R&TTE** Directive

To achieve CE compliance, be sure to select a host that already meets the EMC and Low Voltage Directives before the addition of any optional board. Remember that the use of option boards declared compliant with the Directives by their manufacturer only gives "presumption of compliance" for the whole system. It is the responsibility of the system supplier to verify that the requirements of the listed Directives are still met by the final system, as supplied to the end-user. System integrators should take notice of further conditions expressed in this section and the Safety section.

Dialogic[®] Diva[®] BRI Media Boards

The products covered by this notice have been successfully tested against TBR 3 basic call control. Application developers implementing supplementary services at application level must ensure that their implementation complies with the services offered by the local Public Switched Telephone Network (PSTN) operator. In case of doubt, network specifications must be consulted; the R&TTE Directive imposes that each PSTN operator makes such specifications available.

Inter-working is guaranteed only with Public Switched Telephone Networks (PSTNs) offering Basic Rate Access conforming to EuroISDN specifications.

Before any connection to PSTN offering other Basic Rate Access to other national or international BRI standards, please consult your Dialogic representative for standards other than EuroISDN.

Dialogic® Diva® PRI Media Boards

The products covered by this notice have been successfully tested against TBR 4 basic call control. Application developers implementing supplementary services at application level must ensure that their implementation complies with the services offered by the local Public Switched Telephone Network (PSTN) operator. In case of doubt, network specifications must be consulted; the R&TTE Directive imposes that each PSTN operator makes such specifications available.

Inter-working is guaranteed only with Public Switched Telephone Networks (PSTNs) offering Primary Rate Access conforming to EuroISDN specifications.

Before any connection to PSTN offering Primary Rate Access to other national or international E1 standards, please consult your Dialogic representative.

Dialogic® Diva® Analog Media Boards

This equipment has been tested against TBR 21 requirements (January 1998 edition - Terminal Equipment (TE) capable of 2-wire access to an analogue Public Switched Telephone Network (PSTN), that is capable of originating a circuit-switched call using Dual Tone Multi Frequency (DTMF) signaling and/or receiving an incoming circuit-switched call).

Due to differences among the individual PSTNs provided in different countries, compliance to TBR 21 does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should first contact your equipment supplier.

Conditions for TBR3, TBR4, and TBR 21 Compliance

To comply with the TBRs, be sure to adhere to the following requirements:

- The appropriate parameter file must be installed on the system and enabled on these products. To do so:
 - 1. Click Start > Programs > Dialogic Diva > SIPcontrol configuration.
 - 2. In the Dialogic[®] Diva[®] SIPcontrolTM Software web interface, click **Board configuration**.
 - **3.** Click the Dialogic[®] Diva[®] Media Board, and in the **Board Configuration Detail** select your country-specific protocol from the dropdown menu next to **D-Channel Protocol**.



Note: The above graphic shows the parameters and values for Diva Analog Media Board configuration. The available D-channel protocols depend on the installed Diva Media Board. The menu options for Diva BRI and PRI Media Boards are slightly different.

- These products do not perform automatically repeated call attempts; however, they do not include protection against repeated call requests from the controlling application software.
- To meet the requirements of TBR 21 § 4.8.3, the application software shall not submit call requests that violate the following rules:
 - The number of repeated call attempts [to the same number] is restricted to 15.
 - The interval between subsequent call attempts [to the same number] is at least 5 seconds.

EU Declaration of Conformity

Dialogic Corporation declares that this equipment is in compliance with the Radio and Telecommunication Terminal Equipment directive 1999/5/EC with requirements covering the Electromagnetic Compatibility Directive 89/336/EEC and the Low Voltage Directive 2006/95/EC. A detailed declaration of conformity for this product can be found at: http://www.dialogic.com/declarations

Manufacturer's office in European Union: Dialogic Distribution Limited Unit 4034 Citywest Business Campus Saggart, Co. Dublin IRELAND

Tel: +353 1 630 9000 Fax: +353 1 630 9099

CS:Dialogic tímto prohlašuje, že tento ITE je ve shodě se základními požadavky a dalšími příslusnými ustanoveními směrnice 1999/5/ES.

DA:Undertegnede Dialogic erklærer herved, at følgende udstyr ITE overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

DE: Hiermit erklärt Dialogic, dass sich das Gerät ITE in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen relevanten Bestimmungen der Richtlinie 1999/5/EG befindet.

EL:ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Dialogic ΔΗΛΩΝΕΙ ΟΤΙ /ΤΕ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

EN:Hereby, Dialogic, declares that this ITE is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

ES:Por medio de la presente Dialogic declara que el ITE cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/EC.

ET:Käesolevaga kinnitab Dialogic seadme ITE vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

FI:Dialogic vakuuttaa täten että ITE tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien diretiivin muiden ehtojen mukainen.

FR:Par la présente Dialogic déclare que l'appareil ITE est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

HU: Alulírott, Dialogic nyilatkozom, hogy a ITE megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

IC:Hér með lýsir Dialogic yfir því að ITE er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

IT:Con la presente Dialogic dichiara che questo ITE è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

LT:Šiuo Dialogic deklaruoja, kad šis ITE atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

LV: Ar šo Dialogic deklarē, ka ITE atbilst Direktîvas 1999/5/EK bûtiskajâm prasîbâm un citiem ar to saistîtajiem noteikumiem.

MT: Hawnhekk. Dialogic, jiddikjara li dan ITE jikkonforma mal-htigijiet essenzjali u ma provvedimenti ohrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

NL:Hierbij verklaart Dialogic dat het toestel ITE in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

NO:Dialogic erklærer herved at utstyret ITE er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

PL:Dialogic niniejszym oświadcza, że ITE spełnia wszystkie istotne wymagania i odpowiednie ustalenia dyrektywy 1999/5/EC.

PT:Dialogic declara que este ITE está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

SL:Dialogic izjavlja, da je ta ITE v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

SK: Dialogic týmto vyhlasuje, že ITE spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

SV:Härmed intygar Dialogic att denna ITE står löverensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Product Environmental Information

In August 2005, the European Union Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and its amendment (2003/108/EC), collectively known as the WEEE Directive, came into force throughout most of the European Union. This Dialogic product comes within the scope of the WEEE Directive.

We are confident that this product will provide you with many years of reliable service. Ultimately, a time may come when the product will no longer meet your needs or will become un-economical to repair. It is at that stage that we ask for your co-operation in recycling this product in the spirit of the WEEE directive.

While Dialogic has taken great care to minimize the environmental burden of this product by careful design and manufacturing, we ask you to help us to further minimize the environmental burden of this product by recycling it. Please do not dispose of this product through municipal or general waste systems because it contains materials that can be economically recycled.

Like all electrical and electronic equipment, including televisions and computers, it may contain small amounts of materials which could lead to environmental damage. To minimize any environmental damage we ask you to have this product recycled by:

- bringing it to the recycling collection point in your company
- by handing it into the store where you are purchasing the replacement
- by delivering it to a local bring-center in your area.

No charge can be imposed on you for this recycling service in the European Union as Dialogic has paid for recycling this product when it was placed on the market. These are requirements of the WEEE Directive. We thank you in advance for your cooperation and for working with Dialogic to protect our environment.



Regulatory Information for the USA

WARNING: Changes or modifications to this unit not expressly approved by Dialogic Corporation could void the user's authority to operate the equipment.

FCC Part 15 Statement

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

FCC Part 68 Notice

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA.

On the bottom of this equipment is a label that contains, among other information, a FCC part 68 registration number or a product identifier in the format US: AAAEQ##TXXXX. If requested, this information must be provided to the telephone company.

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

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

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

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact us for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

Dialogic 1515 Route 10 Parsippany NJ 07054

Tel: (973) 967-6000

This unit contains no user-serviceable parts.

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

Dialogic[®] Diva[®] Basic Rate Interface (BRI) Media Boards:

	Facility Interface code	Digital Reg. code	Service Order code	USOC Jack Type
Without Fax option	02IS5	XD	6.0N	N/A
With Fax option	02IS5	XD	6.0P	N/A

Dialogic® Diva® Primary Rate Interface (PRI) Media Boards:

Facility Interface code	Digital Reg. code	Service Order code	USOC Jack Type
04DU9-1SN	DD	6.0F	RJ48-C

Dialogic® Diva® Analog Media Boards:

	REN	USOC Jack Type
Diva Analog-2 Diva Analog-4 Diva Analog-8	0.2B	RJ11-C
Diva UM-Analog-2 Diva UM-Analog-4 Diva UM-Analog-8		
Diva Analog-2 PCIe Diva Analog-4 PCIe Diva Analog-8 PCIe	0.1B	RJ11-C
Diva UM-Analog-2 PCIe Diva UM-Analog-4 PCIe Diva UM-Analog-8 PCIe		

Fax Branding

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.

It is the responsibility of the end user or developer to ensure that the regulations set forth in the preceding paragraph are followed. Application developers must provide support for fax branding in the applications they develop and inform users of their responsibility under the Act along with instructions for use. Developers can find instructions for setting up a fax header in the Dialogic[®] software reference manual. End users should consult the documentation that is provided with their computer telephony application for instructions on fax branding identification.

Regulatory Information for Canada

Notice: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications.

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

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

The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed 5.

Dialogic[®] Diva[®] Analog Media Boards

The Dialogic® 4000 Media Gateway model DMG4008LS has a REN of 0.2.

Regulatory Information for Australia

Dialogic is required to provide the following information as a condition of the telecommunications conformity of Dialogic[®] telecommunications products. You may also be responsible for meeting requirements other than those outlined in this document.

Note: Failure to meet the requirements listed may render the products non-compliant, with the user liable to significant penalties under the Telecommunications Act.

CAUTION: This equipment must be installed and serviced by qualified personnel. No user accessible parts inside.

Dialogic[®] Diva[®] BRI Media Boards

Do not connect these products directly to a telecommunications network. These products must be connected to a network terminating unit (NTU) or some other device that provides line isolation. This allows the carrier's telecommunications network to be electrically isolated from the product and host PC.

These products are only to be connected to safety extra low voltage circuits. These products should only be connected to the safety extra low voltage (SELV) port of the network termination unit (NTU) or PBX that is providing the E-1 interface.

Dialogic® Diva® PRI Media Boards

These products must be installed and serviced by suitably qualified personnel. These products must only be installed by personnel that understand the electrical safety implications of connecting the products to other equipment. In particular, the installer must understand the definition of a telecommunications network and safety extra low voltage circuits.

Dialogic® Diva® Analog Media Boards

These products shall be used in a manner that complies with the technical standard AS/ACIF S002:

- The application software shall answer an incoming call by seizing the line at least 2 seconds after the start of an application of ring signal from a PSTN. A maximum time of 15 seconds is recommended.
- The application software shall comply with the following requirements before the commencement of dialing:
- When dial tone detection is enabled, the application software may commence dialing after the presence of dial tone is validated.
- If dial tone detection is not enabled or if dial tone is not detected, the application software shall commence dialing no less than 2 seconds after the line is seized.
- A total of 10 call attempts are allowed to a telephone number, with a minimum period of 2 seconds between calls. If the call does not connect after 10 attempts, 30 minutes must expire before automatic redialing may be initiated.
- These products must connect to the telecommunications network only by means of cables that meet applicable ACA standards and telecommunications conformity.

- These products must only be used in a data terminal equipment (DTE), e.g., computer, that has a screw-down cover or lid. Because unsafe voltages (TNV) exist on these products, disconnect the product from the telephone line while the cover of the DTE is removed.
- These products will not automatically put the channel back to the on-hook state when the calling party hangs up. The application is tasked to handle this function on the detection of a disconnect tone or loop current drop.
- These products will be inoperable when mains power fails.

Suppliers Declaration of Conformity

The latest versions of the Declaration of Conformity are available at www.dialogic.com/declarations.



Declaration of Conformity

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Dialogic 4060 Media Gateway

Dialogic 4120 Media Gateway

Document No / Edition /Date	Title
IEC 60950-1 - 1 st Edition (2001-10)	Safety of Information Technology Equipment
UL/CSA 60950-1 - 1 st Edition (2003)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment (see additional information)
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment
EN 55022: 1998, Class A Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998	Information Technology Equipment - Immunity Characteristics
FCC, 47 CFR Part 15, Class A digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class A	Interference-Causing Equipment Standards - Digital Apparatus

Additional information:	The reference for Internal cards telecom information is from declaration D0018
Australia test reports:	Futjisu/Siemens report CER+EIC04-0004+E01, dated 26/10/2004 covers EN55022
	Futjisu/Siemens report CER+EIC06-0005+S01, dated 11/07/2004 covers AS/NZS 60950
	Eicon internal report, dated 19/01/2006 and TBR4 layer 1 report # 3-4143-1-2/04 from Cetecom, dated
	03/11/2004 and layer 2, 3 report 98/164/HJ from Deutsche Telekom AG, dated 30/07/1998 covers AS/ACIF S038

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC - EMC ISDN PRI Internal cards registrations: USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: US: E3SDDNAN800-820 Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803016 Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899 Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance. Company Address:

Dialogic Corporation 9800 Cavendish 5th floor Montreal, Quebec Canada, H4M 2V9

Authorized signature, name and function:

Gaetan Hogue - Approvals Manager Date: 10, September, 2007

Dialogic Distribution Limited, our location in Europe operates from: Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Dialogic.

Declaration of Conformity

No: D0015 Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Diva 4-BRI

Document No / Edition /Date	Title
IEC 60950 - 3 Edition (1999)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998	Information Technology Equipment - Immunity Characteristics
47 CFR part 68, subpart D	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 8 Part VI	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TBR3: Nov 95, A1: Dec 97	Attachment requirements for terminal equipment to connect to a ISDN using ISDN basic access
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment
AS/ACIF S031: 2001	Requirements for ISDN Basic Access Interface

Additional information:	
Australia test reports:	Futjisu/Siemens report # EIC0E004-1, dated 22/03/2001 covers EN55022
·	Nemko report # 6S65295AU1, dated 05/29/2006 covers AS/NZS 60950
	Eicon internal report, dated 16/11/2001 and TBR3 layer 1, 2, 3 report # 01/01780/2/UVZ from Deutsche Telekom
	AG, dated 27/04/2001 covers AS/ACIF S031

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC - EMC USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: Reg. no: E3SCAN-40181-XD-N Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803008 Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899 Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Authorized signature, name and function:

Dialogic Corporation 9800 Cavendish 5th floor Montreal, Quebec Canada, H4M 2V9

Gaetan Hogue - Approvals Manager Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from: Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.



Declaration of Conformity

No: D0016 Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Diva PRI/E1-30, Diva V-PRI/E1-30 Diva PRI/T1-24, Diva V-PRI/T1-24 Equipment Type(s):

Document No / Edition /Date	Title
IEC 60950-1: 2001	Safety of Information Technology Equipment
UL/CSA 60950-1 - 1st Edition (2003)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998	Information Technology Equipment - Immunity Characteristics
47 CFR part 68, TIA-968-A	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 8 Part VI	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TBR4: Nov 95, A1: Dec 97	Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access
AS/NZS 60950: 2000,A1: 2003	Safety of Information Technology Equipment
AS/ACIF S038: 2001	Requirements for ISDN Primary Rate Access Interface

Additional information:	
Australia test reports:	Futjisu/Siemens report EMI+EIC02-0002+E01, dated 07/04/2001 covers EN55022
·	Nemko report 6S65295AU1, dated 05/29/2006 covers AS/NZS 60950
	Eicon internal report, dated 16/11/2001 and TBR4 layer 1 from Cetecom, dated 28/06/2005 and layer 2, 3 report
	98/164/HJ from Deutsche Telekom AG, dated 30/07/1998 covers AS/ACIF S038
NZ test report	Nemko report 5T44740, dated May 11,2005 covers Layer 3 supplementary testing

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC – EMC USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: US: E3SDDNAN800-810 Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803003 Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899 Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Authorized signature, name and function:

Dialogic Corporation 9800 Cavendish 5th floor Montreal, Quebec Canada, H4M 2V9

Gaetan Hogue - Approvals Manager Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from: Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.



Declaration of Conformity

No: D0018 Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Diva 2-PRI, V-2PRI Diva 4-PRI, V-4PRI

Document No / Edition /Date	Title
IEC 60950-1: 2001	Safety of Information Technology Equipment
UL/CSA 60950-1 - 1 st Edition (2003)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998	Information Technology Equipment - Immunity Characteristics
TIA-968-A: Oct 2002, A1: July 2003, A2: Jan 2003, A3: Dec 9, 2004	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 9 Part VI: Nov 2004	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TBR4: Nov 95, A1: Dec 97	Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment
AS/ACIF S038: 2001	Requirements for ISDN Primary Rate Access Interface

Additional information:	
Australia test reports:	Futjisu/Siemens report CER+EIC04-0004+E01, dated 26/10/2004 covers EN55022
	Futjisu/Siemens report CER+EIC06-0005+S01, dated 11/07/2004 covers AS/NZS 60950
	Eicon internal report, dated 19/01/2006 and TBR4 layer 1 report # 3-4143-1-2/04 from Cetecom, dated
	03/11/2004 and layer 2, 3 report 98/164/HJ from Deutsche Telekom AG, dated 30/07/1998 covers AS/ACIF S038

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC - EMC

USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: US: E3SDDNAN800-820

Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803016

Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899

Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation 9800 Cavendish 5th floor Montreal, Quebec Canada, H4M 2V9 Authorized signature, name and function:

Gaetan Hogue - Approvals Manager Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from: Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.



Declaration of Conformity

No: D0020 Revision 03

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Diva Analog-4 Diva Analog-8

Document No / Edition /Date	Title
IEC 60950-1: 2001	Safety of Information Technology Equipment
UL/CSA 60950-1 - 1st Edition (2003)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment
EN 55022: 1998, Class B Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998	Information Technology Equipment - Immunity Characteristics
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
47 CFR part 68, TIA/EIA/IS-968	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 8 Part I	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TS 103 021: Aug 2003	Access and terminals (AT): Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks: Update of the technical contents of TBR21, TBR015, TBR17, EN 301 437
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment
AS/ACIF S002: 2001	Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network

Additional information:	
Australia test reports:	Futjisu/Siemens report CER+EIC04-0005+E01, dated 19/11/2004 covers EN55022
	Nemko report 4S27513AU1, dated 07/10/2004 covers AS/NZS 60950
	Nemko report 4T27513 issue 3, dated 24/11/2004 covers AS/ACIF S002

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/36/EEC - EMC

USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: US: E3SMM02B800-824

Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803015

Australia: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899

Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation 9800 Cavendish 5th floor Montreal, Quebec Canada, H4M 2V9 Authorized signature, name and function:

Gaetan Hogue - Approvals Manager Date: 15, January, 2008

Dialogic Distribution Limited, our location in Europe operates from: Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

 $\textbf{Copies of this Declaration of Conformity may be downloaded at } \underline{\textbf{http://www.dialogic.com/declarations}}$

