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GVP Deployment Guide

Installing and Configuring the PSTN Connector

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Installing and Configuring the PSTN Connector

- Procedure: Installing the PSTN Connector (Linux)
- Dialogic Installation

Procedure: Installing the PSTN Connector (Linux)

Install and use the PSTN Connector on the host only after careful consideration—because the Dialogic boards used in PSTNC are no longer sold. Although Dialogic supports this hardware until 2018, that support may have limitations and there is no assurance that future versions of GVP will preserve backward support for PSTNC.

- 1. Verify that:
 - The PSTN Connector host was prepared for the installation. See Preparing the Hosts for GVP.
 - The PSTN Connector Application object template was imported, and an Application object was created. See Preinstallation Activities.
- 2. At the Linux host, log in as the root user and enter su.
- 3. Navigate to the directory that contains the PSTN Connector installation package.
- 4. Complete Steps 3 to 13 of the procedure Manually Installing GVP on Linux, substituting PSTN Connector for Media Control Platform.
- 5. Configure the PSTN Connector Application object to start automatically. See Procedure: Configuring Application Objects to Start Automatically.

Dialogic and gcc support

A Dialogic installation automatically compiles its drivers. You must install gcc to enable this functionality.

- The official versions of gcc supported by Dialogic are gcc 3.2, gcc 3.4.4, and gcc 3.4.6. There is no official support extended to the latest versions of gcc viz or gcc 4.x. However, Dialogic confirms that even if their drivers are built with gcc 4.x compiler, it is acceptable if you have also installed hcc 3.4 backwards-compatibility libraries.
- With RHEL5 installation, gcc 4.x is the default version installed. This creates a conflict because Dialogic drivers are either compiled with gcc 3.4 or gcc 3.2. To avoid any discrepancies in the functionalities of the drivers, Dialogic suggests installing the compatibility-gcc 3.4.x libraries during the installation of the Linux OS. This is performed during the OS-installation steps. Thus, no additional steps are required for RHEL5 for installing Dialogic.

Dialogic Installation

This installation contains two procedures and two configurations:

- Installing LiS
- Installing Dialogic
- Configuring DMV Boards
- Configuring JCT Boards

Procedure: Installing LiS

LiS is a mandatory component; Dialogic will not install without it. For this, LiS drivers have to be made into Kernel modules. This step requires availability of Linux source code on the system. This was already installed as part of the OS installation.

The LiS package is provided with the Dialogic package; there is no need to download LiS separately.

- To create a tar file, unzip the .gz file in the Dialogic package: gunzip lnxdlgcsu317.tar.gz
- Untar the tar file: tar xf lnxdlgcsu317.tar Untarring creates the directories needed by the Dialogic installation.
- 3. Unzip and untar the LiS package file. Under the redistributable-sources/ directory, you can find the LiS/ directory where the LiS package is located, because a .gz file will be present. Go to the directory LiS2.x/ and issue the command: # make This step prompts for various options but the first prompt asking whether to run LiS as Kernel module or User module alone is the most important. Choose the Kernel module option in this step. All subsequent options can have the default values. Once this is complete without errors, enter this command: # make install
- 4. Reboot the system.
- 5. Install Dialogic.

Procedure: Installing Dialogic

- 1. Go to the top directory of the untarred Dialogic package and start the installation: install.sh
- 2. Subsequent steps offer various Dialogic packages for installation. Only these two are important to install:
 - Drivers for DMV/JCT boards
 - Global call library packages
- 3. If the installer asks Please install LiS, then reboot the system.

- 4. When the installer asks to install redistributable-sources package, select Yes and press **Enter**. For further installation/configuration instructions, if needed, please refer to the Dialogic installation documents.
- 5. Configure your Dialogic boards. See Configuring Dialogic Boards, below.

Configuring Dialogic Boards

When the installation is complete, the Dialogic installer prompts you to run config.sh. Select Y to proceed with the configuration. There are two other ways to begin the configuration:

- Run config.sh in the /redistributable-runtime/ directory.
- Run the CFG utility in the Dialogic installation /bin/ directory.

Both methods begin the installation and display the same first screen:

Copyright (C) 2007. Dialogic Corporation. All Rights Reserved			
	Dialogic(R) Configuration Manager - Main Screen		
1)	Dialogic(R) DM3 Board Summary		
2)	Dialogic (R) Board Summary (NO BOARDS)		
3)	Dialogic (R) IPT Board Summary (NOT INSTALLED)		
4)	TDM Bus Settings		
(s ? f	to save, x to save $\&$ quit, q to quit) the configuration for help and ! for navigation help		
You the	a can only configure one board at a time. Enter the number associated with e product category of the board you want to configure :		

Dialogic Board Configuration Opening Screen

From here, perform the appropriate procedure:

[+] Configuring DMV Boards

Use the screen shots to guide yourself through the DMV board configuration. Your screens will vary slightly.

1. Enter 1 to see the DMV board summary.

Proot@che116:/home/administrator/vamsiTemp/red	istributable-runtime
Dialogic(R) DM3	Board Summary
You must configure or disable each board valid PCD file name is displayed in the	d shown. After a board is configured, a PCD File Name column.
Thumb Board Wheel Status Model	Log PCD ID File Name
1) C DM/V600A-2E1-PCI	1 ml10_dsa_net5.pcd
(s to save, x to save & quit, q to quit) p to return to Dialogic(R) Configuration ? for help and ! for navigation help Enter the Thumb Wheel of the board to co	the configuration n Manager - Main Screen onfigure:

DM3 Board Summary

2. In the screen shot, there is one DMVA card installed on the computer. To configure it: at the prompt, enter 1 (the number of the Thumb Wheel of the board, listed in the first column).

Reprose and the second se		- D ×
Modify Board Setting	8	-
These are the current settings for t Physical Slot : 1 Model Name : DM/V600A-2E1-PCI Logical ID : 1 Board Status : Configured PCD File Name : ml10_dsa_net5.pcd CONFIG File Name : ml10_dsa_net5.config	he board selected:	
The following items can be modified: 1) Specify the PCD File 2) Trunk Configuration 3) Protocol Development Kit (PDK) Configuration 4) Modify NIC Configuration 5) Copy Configuration From Board 6) Advanced Board Settings	(NOT APPLICABLE) (NOT APPLICABLE) (NOT APPLICABLE) (NOT APPLICABLE)	
(s to save, x to save & quit, q to quit) the conf p to return to Dialogic(R) DM3 Board Summary ? for help and ! for navigation help Enter the number of the item to modify:	iguration	*

Modify Board Settings

3. Enter 1 to set the PCD file.

📌 root@che116:/home/administrator/vamsiTemp/redistributable-runtime
Specify the PCD File
A Product Configuration Description (PCD) file must be selected to configure your board. The corresponding CONFIG file will be automatically selected.
The following PCD files are valid for your board: 1) ml10_dsa_dass2.pcd 2) ml10_dsa_dpnss.pcd 3) ml10_dsa_net5.pcd* 4) ml10_dsa_qsige1.pcd 5) ml10_dsa_r2mf.pcd 6) ml10_dsa_ts16.pcd 7) ml1b_dsa_dass2.pcd 8) ml1b_dsa_dpnss.pcd 9) ml1b_dsa_net5.pcd 10) ml1b_dsa_qsige1.pcd
<pre>* is current setting (d - DOWN, D - PGDOWN, u - UP, U - PGUP) menu choices (s to save, x to save & quit, q to quit) the configuration p to return to Modify Board Settings ? for help and ! for navigation help Enter the number corresponding to the PCD file you want to select:</pre>

Specify the PCD File

Specify the appropriate pcd file. Once configured, the configuration returns to the previous screen.

5. Enter 6 to go to the advanced board settings step.

# root@che116:/home/administrator/vamsiTemp/redistributable-runtime	
Advanced Board Settings	<u> </u>
These are the current settings for the board selected: Physical Slot : 1 Model Name : DM/V600A-2E1-PCI Logical ID : 1 Board Status : Configured PCD File Name : ml10_dsa_net5.pcd CONFIG File Name : ml10_dsa_net5.config	
The following items can be modified: 1) Set Board Logical ID 2) Cannot Disable the Board [PRIMARY] 3) Specify the CONFIG File	
(s to save, x to save & quit, q to quit) the configuration p to return to Modify Board Settings ? for help and ! for navigation help Enter the number of the item to modify:	

Advanced Board Settings

- 6. Set the parameters appropriately and save the configuration.
- 7. Enter p to go to the first screen of configuration.



Configuration Manager - Main Screen

8. For any TDM bus settings, enter 4.

🚽 root@che	116:/home/administrator/vamsiTemp/redistributable-runtime	- O ×
	TDM Bus Settings	<u>_</u>
Item No.	Description	
1) 2) 3)	Select TDM Bus Encoding Method [&-Law] TDM Bus Role Settings Advanced TDM Bus Settings	
(s to sav p to retu ? for hel Enter Ite	re, x to save & quit, q to quit) the configuration wrn to Dialogic(R) Configuration Manager - Main Screen p and ! for navigation help m No. to choose the option to configure:	
		•

TDM Bus Settings

- 9. Choose the next configuration step and set the parameters appropriately such as the encoding method, TDM bus settings of primary and secondary masters (this is mostly not required).
- 10. Save the configuration and exit.
- 11. Start Dialogic one of these two ways:
 /etc/init.d/ct_intel start
 OR
 <Dialogic bin dir>/dlstart

[+] Configuring JCT Boards

Use the screen shots to guide yourself through the JCT board configuration. Your screens will vary slightly.

1. Enter 2 to display the Dialogic Board Summary.



Dialogic Board Summary

2. Enter the thumb wheel of the dialogic card to be configured.

```
📌 root@che80:/home/administrator/Dialogic/redistributable-runtime
                                                                            - 0 ×
                             Modify Board Settings
These are the current settings for the board selected:
Thumb Wheel..... : 2
Model Name..... : D/600JCT-2E1
Board Status..... : Configured
PBX File Name..... : NOT APPLICABLE
The following items can be modified:
1) Model Name
                              (NOT APPLICABLE)
   Trunk Configuration
21
3) PBX File
                              (NOT APPLICABLE)
4) Cannot Disable the Board [PRIMARY]
5) Advanced
(s to save, x to save & quit, q to quit) the configuration
p to return to Dialogic(R) Board Summary
for help and ! for navigation help
Enter the number of the item to modify:
```

Modify Board Settings

3. Enter 2 to choose Trunk Configuration.

```
Proot@che80:/home/administrator/Dialogic/redistributable-runtime
                                                                             - 0 ×
             Trunk Configuration - Specify Protocols for the Trunks
Configure the ISDN protocol for the Trunk(s) on your board.
Note: You must manually modify the Parameter file to set the Digital Network
Interface (DNI) parameters.
Trunk #1: None
                      Trunk #2: None

    NONE

           No ISDN protocol is used
CTR4
            EURO-ISDN ETSI300-102
3) DASS2
            British National BTNR-190-1985
DPNSS
            British Private Branch Exchange DASS2 extension
            EURO-ISDN ETSI300-102
5) NE1
            Q.SIG ISO 11572, ISO 11574 (Network Side)
  QNT
            Q.SIG ISO 11572, ISO 11574 (User Side)
  QTE
(s to save, x to save \boldsymbol{\epsilon} quit, q to quit) the configuration
p to return to Modify Board Settings
? for help and ! for navigation help
Enter the number of the Protocol desired for Trunk #1:
```

Trunk Configuration - Specify Protocols for the Trunks

4. Set the protocol for Trunk #1.

🛃 root@che80:/home/administrator/Dialogic/redistributable-runtime		
Trunk Configuration - Specify Protocols for the Trunks	Ŀ	
Configure the ISDN protocol for the Trunk(s) on your board.		
Note: You must manually modify the Parameter file to set the Digital Network Interface (DNI) parameters.		
Trunk #1: None Trunk #2: None		
1) NONE No ISDN protocol is used 2) CTR4 EURO-ISDN ETSI300-102		
3) DASS2 British National BTNR-190-1985		
 DPNSS British Private Branch Exchange DASS2 extension 		
5) NE1 EURO-ISDN ETSI300-102		
 QNT Q.SIG ISO 11572, ISO 11574 (Network Side) 		
7) QTE Q.SIG ISO 11572, ISO 11574 (User Side)		
(s to save, x to save & quit, q to quit) the configuration p to return to Modify Board Settings ? for help and ! for navigation help		
Enter the number of the Protocol desired for Trunk #1: 2		
Enter the number of the Protocol desired for Trunk #2: 1	-	

Trunk Configuration - Specify Protocols for the Trunks

5. Set the Protocol for Trunk #2.

Tip

If the two Trunks are intended for call-handling and no ecstream support is required by ASR applications, select the appropriate protocol from the numbers 2-7. If the two Trunks will be required to support ASR applications for which ecstream support by PSTNC is mandatory, set the protocol NONE (by entering 1).

The configuration wizard returns to the previous screen.

6. Select 5 for Advanced settings, if the ecstream support is desired on the second span.



Advanced Settings

7. Enter 2, to add a parameter for setting ecstream support.



Advanced Settings - Update/Add Parameter

- 8. Set the parameter FirmwareFile2 and its value.
- 9. Enter s to save the configuration changes.

- 10. (Optional) Press p to return to the previous screen and set any other parameters, as necessary.
- 11. Save the changes and exit the configuration.
- 12. Start Dialogic one of these two ways: /etc/init.d/ct_intel start OR <Dialogic bin dir>/dlstart