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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 gcc 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.

1. To create a tar file, unzip the .gz file in the Dialogic package:
`gunzip lnxdlgcsu317.tar.gz`
2. 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:

```
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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 to save, x to save & quit, q to quit) the configuration
? for help and ! for navigation help

You can only configure one board at a time. Enter the number associated with
the 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.

```

root@che116:/home/administrator/vamsiTemp/redistributable-runtime
Dialogic(R) DM3 Board Summary

You must configure or disable each board shown. After a board is configured, a
valid PCD file name is displayed in the PCD File Name column.

Thumb Board          Log   PCD
Wheel Status Model    ID   File Name
-----
1)    C      DM/V600A-2E1-PCI      1    ml10_dsa_net5.pcd

(s to save, x to save & quit, q to quit) the configuration
p to return to Dialogic(R) Configuration Manager - Main Screen
? for help and ! for navigation help

Enter the Thumb Wheel of the board to configure: █

```

DM3 Board Summary

- 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).

```

root@che116:/home/administrator/vamsiTemp/redistributable-runtime
Modify Board Settings

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) Specify the PCD File
2) Trunk Configuration (NOT APPLICABLE)
3) Protocol Development Kit (PDK) Configuration (NOT APPLICABLE)
4) Modify NIC Configuration (NOT APPLICABLE)
5) Copy Configuration From Board (NOT APPLICABLE)
6) Advanced Board Settings

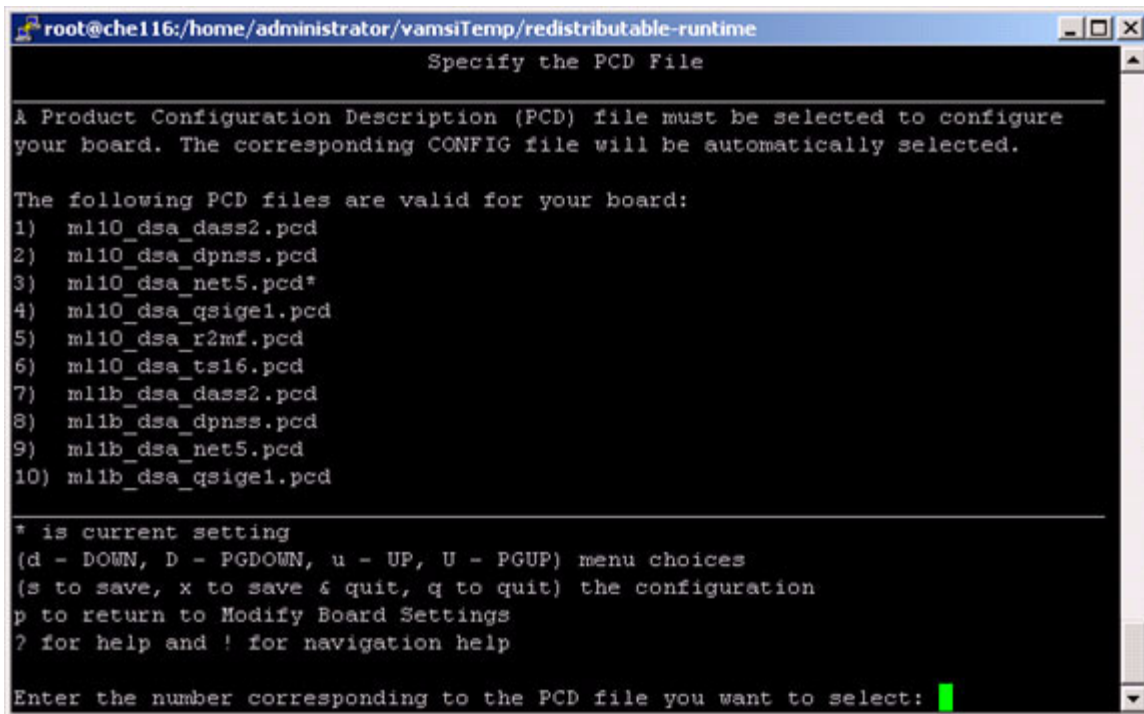
(s to save, x to save & quit, q to quit) the configuration
p to return to Dialogic(R) DM3 Board Summary
? for help and ! for navigation help

Enter the number of the item to modify: █

```

Modify Board Settings

- Enter 1 to set the PCD file.



The screenshot shows a terminal window titled "Specify the PCD File" with a blue header bar. The terminal text explains that a Product Configuration Description (PCD) file must be selected. It lists 10 valid PCD files for the board, with the 3rd option, "ml10_dsa_net5.pcd*", marked as the current setting. Navigation instructions are provided: (d - DOWN, D - PGDOWN, u - UP, U - PGUP) for menu choices; (s to save, x to save & quit, q to quit) for configuration; p to return to Modify Board Settings; and ? for help and ! for navigation help. The prompt "Enter the number corresponding to the PCD file you want to select:" is followed by a green cursor.

```
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.

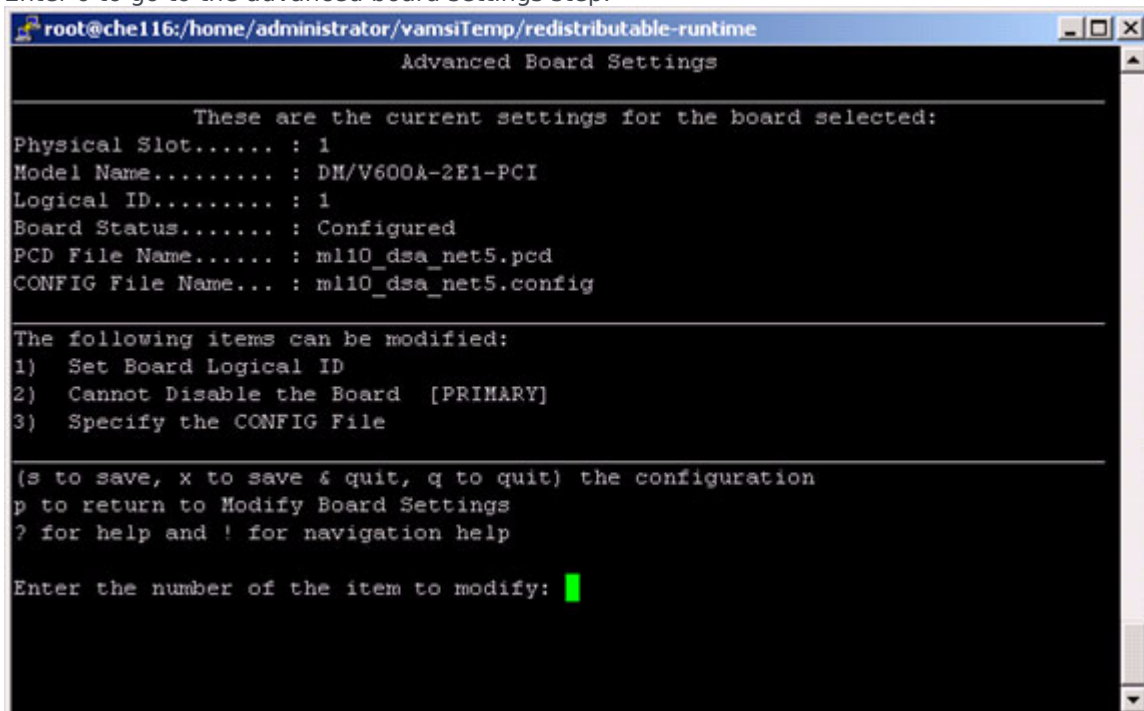
The following PCD files are valid for your board:
1) ml10_dsa_dass2.pcd
2) ml10_dsa_dpnss.pcd
3) ml10_dsa_net5.pcd*
4) ml10_dsa_qsigel.pcd
5) ml10_dsa_r2mf.pcd
6) ml10_dsa_ts16.pcd
7) ml1b_dsa_dass2.pcd
8) ml1b_dsa_dpnss.pcd
9) ml1b_dsa_net5.pcd
10) ml1b_dsa_qsigel.pcd

* 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: █
```

Specify the PCD File

4. 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.



The screenshot shows a terminal window titled "Advanced Board Settings" with a blue header bar. It displays the current settings for the selected board: Physical Slot 1, Model Name DM/V600A-2E1-PCI, Logical ID 1, Board Status Configured, PCD File Name ml10_dsa_net5.pcd, and CONFIG File Name ml10_dsa_net5.config. It then lists three items that can be modified: 1) Set Board Logical ID, 2) Cannot Disable the Board [PRIMARY], and 3) Specify the CONFIG File. Navigation instructions are repeated: (s to save, x to save & quit, q to quit) for configuration; p to return to Modify Board Settings; and ? for help and ! for navigation help. The prompt "Enter the number of the item to modify:" is followed by a green cursor.

```
root@che116:/home/administrator/vamsiTemp/redistributable-runtime
Advanced Board Settings

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

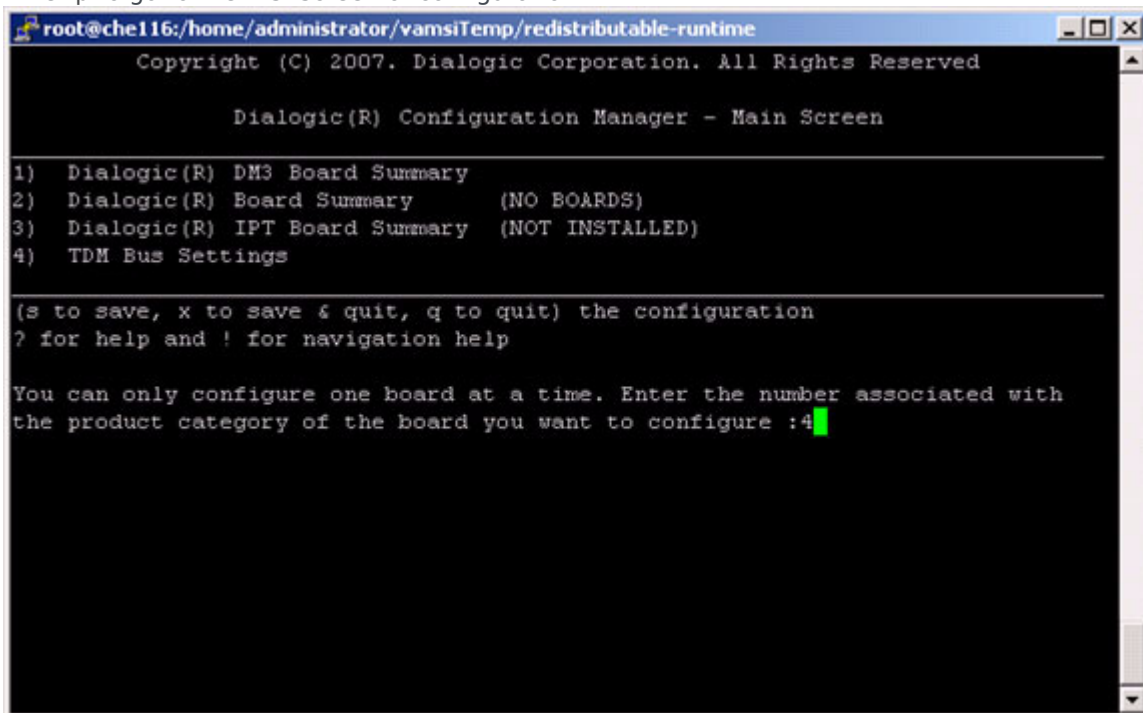
The following items can be modified:
1) Set Board Logical ID
2) Cannot Disable the Board [PRIMARY]
3) Specify the CONFIG File

(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.



```
root@che116:/home/administrator/vamsiTemp/redistributable-runtime
Copyright (C) 2007. Dialogic Corporation. All Rights Reserved

Dialogic(R) Configuration Manager - Main Screen

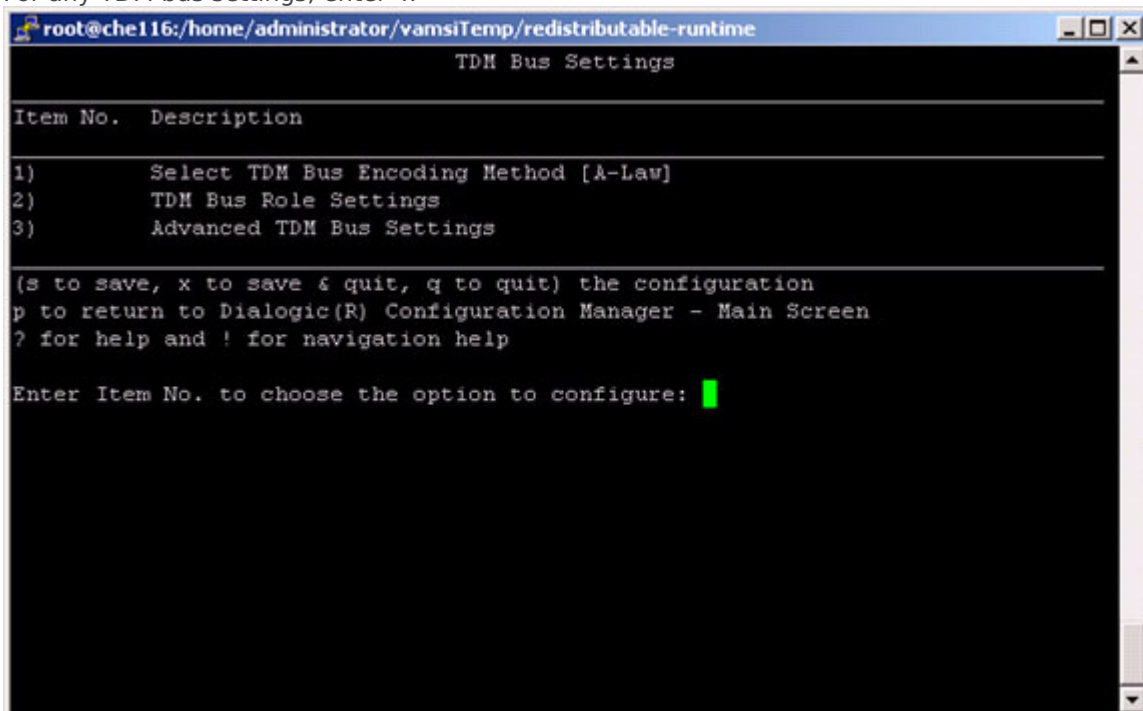
1) Dialogic(R) DM3 Board Summary
2) Dialogic(R) Board Summary      (NO BOARDS)
3) Dialogic(R) IPT Board Summary (NOT INSTALLED)
4) TDM Bus Settings

(s to save, x to save & quit, q to quit) the configuration
? for help and ! for navigation help

You can only configure one board at a time. Enter the number associated with
the product category of the board you want to configure :4
```

Configuration Manager - Main Screen

8. For any TDM bus settings, enter 4.



```
root@che116:/home/administrator/vamsiTemp/redistributable-runtime
TDM Bus Settings

Item No.  Description
-----
1)        Select TDM Bus Encoding Method [A-Law]
2)        TDM Bus Role Settings
3)        Advanced TDM Bus Settings

(s to save, x to save & quit, q to quit) the configuration
p to return to Dialogic(R) Configuration Manager - Main Screen
? for help and ! for navigation help

Enter Item No. to choose the option to configure: 
```

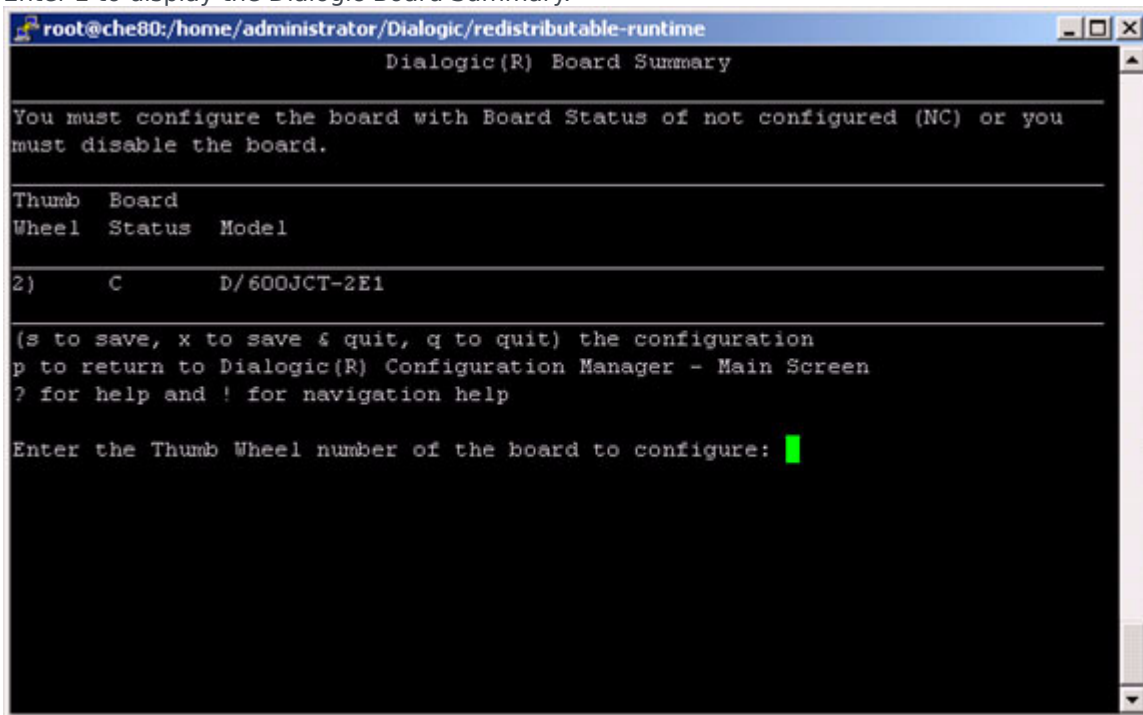
TDM Bus Settings

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
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)
2) Trunk Configuration
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.

```

root@che80:/home/administrator/Dialogic/redistributable-runtime
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

1) NONE      No ISDN protocol is used
2) CTR4      EURO-ISDN ETSI300-102
3) DASS2     British National BTNR-190-1985
4) DPNSS     British Private Branch Exchange DASS2 extension
5) NE1       EURO-ISDN ETSI300-102
6) 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: █
    
```

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

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
4) DPNSS     British Private Branch Exchange DASS2 extension
5) NE1       EURO-ISDN ETSI300-102
6) 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

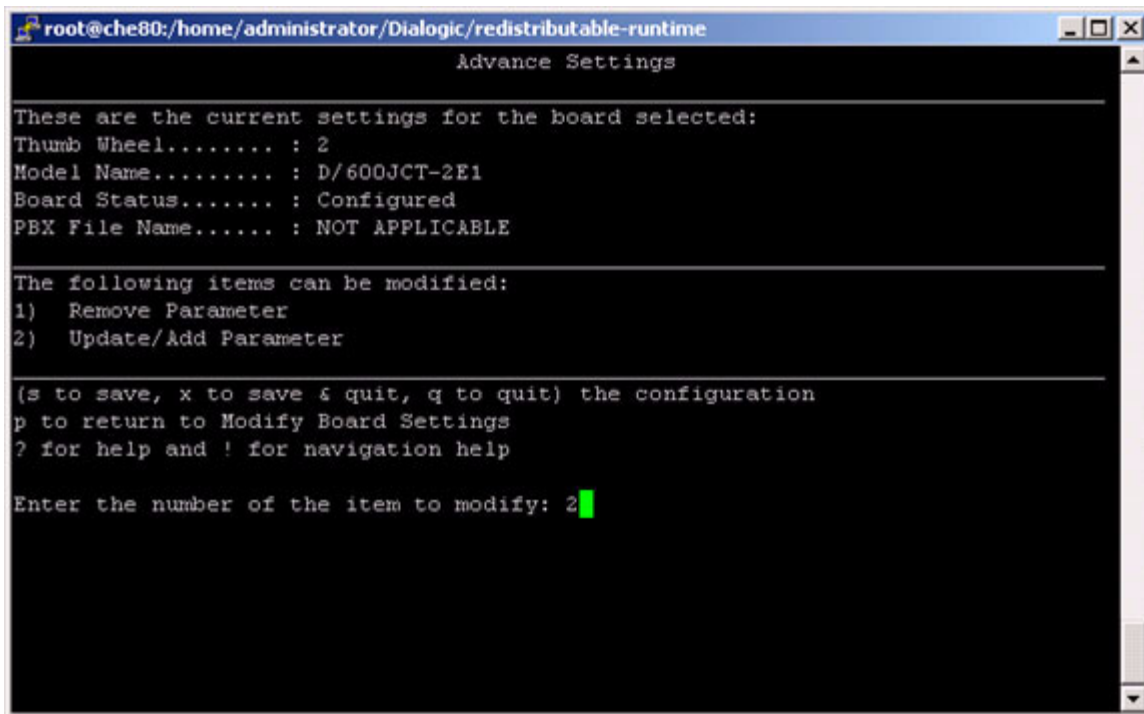
5. Set the Protocol for Trunk #2.

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.



```
root@che80:/home/administrator/Dialogic/redistributable-runtime
Advance 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

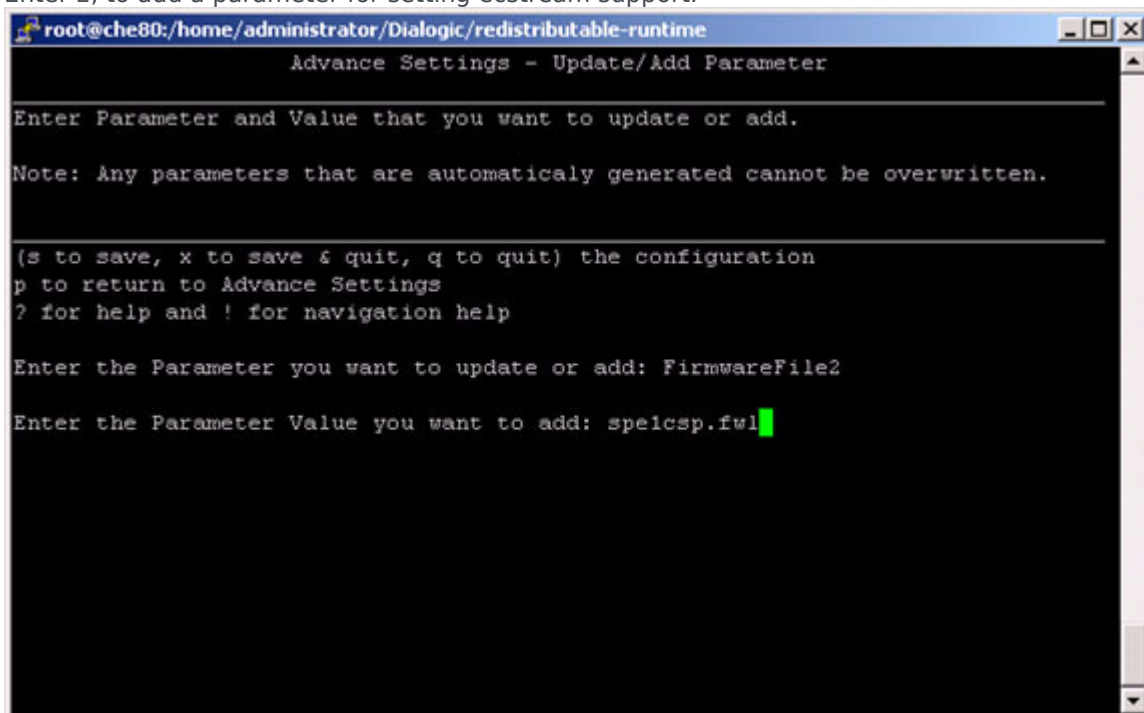
The following items can be modified:
1) Remove Parameter
2) Update/Add Parameter

(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: 2
```

Advanced Settings

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



```
root@che80:/home/administrator/Dialogic/redistributable-runtime
Advance Settings - Update/Add Parameter

Enter Parameter and Value that you want to update or add.

Note: Any parameters that are automatically generated cannot be overwritten.

(s to save, x to save & quit, q to quit) the configuration
p to return to Advance Settings
? for help and ! for navigation help

Enter the Parameter you want to update or add: FirmwareFile2
Enter the Parameter Value you want to add: speicsp.fw
```

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`