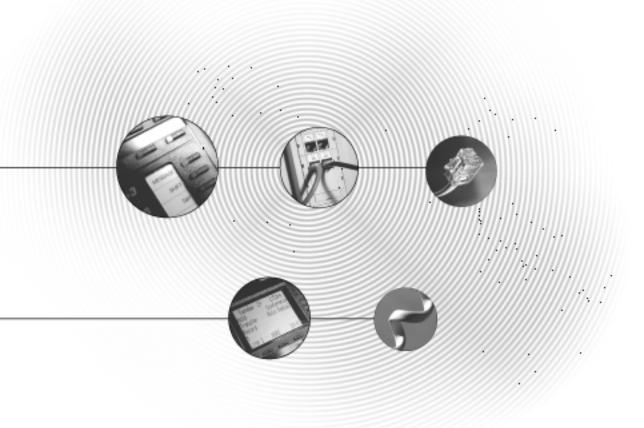
Visual Man-Machine Interface (VMMI) User's Guide

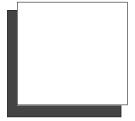




Comdial[®] strives to design the features in our communications systems to be fully interactive with one another. However, this is not always possible, as the combinations of accessories and features are too varied and extensive to insure total feature compatibility.

Accordingly, some features identified in this publication will not operate if some other feature is activated. Comdial disclaims all liability relating to feature non-compatibility or associated in any way with problems which may be encountered by incompatible features. Notwithstanding anything contained in this publication to the contrary, Comdial makes no representation herein as to the compatibility of features.

Issued: 2/12/97



Contents

1	Introducing visual man-machine interface (vmmi)	
	Introducing VMMI	
	Determining Your Equipment Needs	
2	Installing the VMMI Program Software	3
	Loading VMMI with Windows 95, 98, 2000, and NT	3
3	Connecting to the System	5
	Physical Connection	5
	Making the Programming Connection to the System	9
4	Archiving and Restoring an Existing Database	11
	Using VMMI to Archive an Existing Database	11
	Using VMMI to Restore an Existing Database	12
5	Upgrading System Software	13
	Upgrading FX System Software	13
	Upgrading DXP Plus System Software	19
	Upgrading DXP System Software	20
6	Translating an Earlier Database to a CCB Database	25
	Translating a Non-CCB Database	25
	Translating the DXP and DXP Plus Database	26
7	Programming with VMMI	31
	Starting Application	31
	Locating and Using the VMMI Menu and Tool Bars	32
	Defining the <u>F</u> ile Menu	34
	Defining the <u>E</u> dit Menu	35
	Defining the <u>V</u> iew Menu	35
	Defining the Programming Menu	36
	Defining the <u>S</u> witch Menu	37

Defining the Help Menu	38
Understanding Programming Menu Options	39
Understanding <u>N</u> etworking Menu Options	48
Understanding the <u>S</u> tations Window	51
Understanding Station Menu Options	51
Understanding the <u>L</u> ines Window	55
Understanding Line Menu Options	55
Understanding the <u>G</u> roup Intercoms Window	60
Understanding SMDA / SMDR Menu Options	61
Understanding <u>T</u> oll / ARS Menu Options	64
Understanding Peripherals Menu Options	67
Understanding the <u>B</u> oard Configuration Window	73
Understanding the <u>Cabinet View Window</u>	74
Understanding Boards Menu Options	74
Understanding the Switch Menu Options	83
Understanding <u>F</u> ile Menu Options	88
Understanding <u>E</u> dit Menu Options	90
Understanding <u>H</u> elp Menu Options	92



Introducing Visual Man-Machine Interface (VMMI)

Introducing VMMI

Visual Man-Machine Interface (VMMI) is a Microsoft Windows-based menu-driven application that allows you to enter choices in dialog boxes to program directly or indirectly to the communications system. VMMI is designed as Common Code Base software (that is, interchangeable among DXP, DXP Plus, FXS, FXT and FX II). VMMI allows on-line programming without additional communications software and allows creation of databases off-line. VMMI allows you to archive and restore databases to the system and translates earlier databases. Logical board assignments allow you logically to assign the boards before you physically assign the boards. VMMI is only available with Common Code Base (CCB) software Rev. 10A and later.

VMMI has drop-down menus like other windows-based software (for example, wordprocessors and spreadsheets). Use your computer's mouse to move the cursor to the desired location, and either click or double-click the left mouse button to select the desired programming option.

VMMI allows you directly to connect to the communications system and program it on-line. Alternately, you can program a database off-line, save it, and upload it in the communications system later.

For general understanding on how to use VMMI to program a digital communications system, refer to *Chapter 7 - Programming with VMMI* on page 31.

Determining Your Equipment Needs

Use VMMI to program the digital communications system from a personal computer (PC) that meets the following requirements:

- A processor (a minimum requirement—486 recommended),
- 3.5-inch floppy disk drive,
- Hard drive with at least 80 megabytes of storage capacity,
- Available 9-pin or 25-pin serial data port (required for communications with system),
- A mouse that Microsoft Windows 95, Windows 98, Windows 2000, and Windows NT operating software support (optional but highly recommended for Microsoft Windows operation),
- VGA color monitor (highly recommended—VGA monochrome acceptable),
- Microsoft® Windows, version 95, 98, 2000, or NT operating system,
- VMMI program disks.

2

Installing the VMMI Program Software

The VMMI software is your entry to the communications system. Before you can log into the system, you must first load the VMMI program on your computer's hard drive. When installing the VMMI software, you do not need to have your computer connected to the system equipment.

Loading VMMI with Windows 95, 98, 2000, and NT

- 1. Turn on your PC.
- 2. After the Windows Desktop appears, insert the program disk in your computer's disk drive.
- 3. From the Windows Desktop, click Start, and then click Run.
- 4. At the prompt dialog box, type A:\setup, and click OK.
- 5. Add information as required to any additional prompt lines that may appear on your screen.
- 6. The Install program creates a program group and an icon in the Start menu under the Programs title.

<u>Notes</u>



Connecting to the System

Physical Connection

Connecting a PC to the FX System

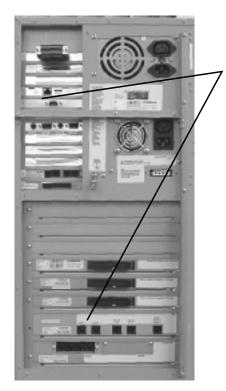
CAUTION

The system will reset itself every hour until you turn on the system software as described in the paragraph titled, Turning on the System Software.

For VMMI programming on the FXS system, make the following initial cable connections:

- Connect the supplied serial data cable (JK504-002) between the PC portion's COM1 serial data port and the telephony portion's COM1 serial data port. This connection provides the initial path between the PC portion and the telephony portion for turning on the system software, programming the telephony portion's database, and arranging the system for using pcANYWHERE for remote maintenance of the PC portion. After you finish these operations, you can arrange the operational connections described in the later paragraph titled, *Making the Operational Connections*.
- For VMMI programming on the FXT or FX II system, connect the serial data port of the external PC to the COM1 serial data port on the cabinet.

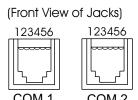
NOTE: Default values for the serial data port on the FX systems are 19200 baud, eight data bits, one stop bit, and no parity bit.



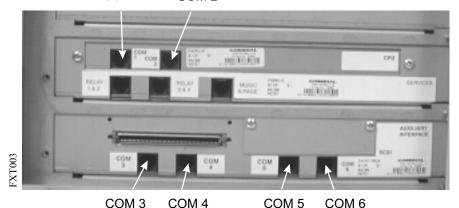
Maintenance Port

- System Software Turn On
- Initial VMMI Programming
- pcANYWHERE for Remote Operation Connect Computer COM1 To Telephony COM1 Use equipment supplied data cable (JK504-002)

FXS Cable Connection for VMMI Programming



Pin 1 = Request to Send Pin 2 = Clear to Send Pin 3 = Receive Data Pin 4 = Transmit Data Pin 5 = Signal Ground Pin 6 = Frame Ground



NOTES:

- Maximum distance between the serial data ports and the external data equipment is based on the baud rate of the port. The distance is limited to 50 feet when the port is operated at 19,200 baud and 500 feet when it is operated at speeds up to 9600 baud.
- 2. Some data devices require the CTS signal for proper operation. Route CTS to the device as needed.

Connecting a PC to the FX System

Connecting a PC to the DXP Plus

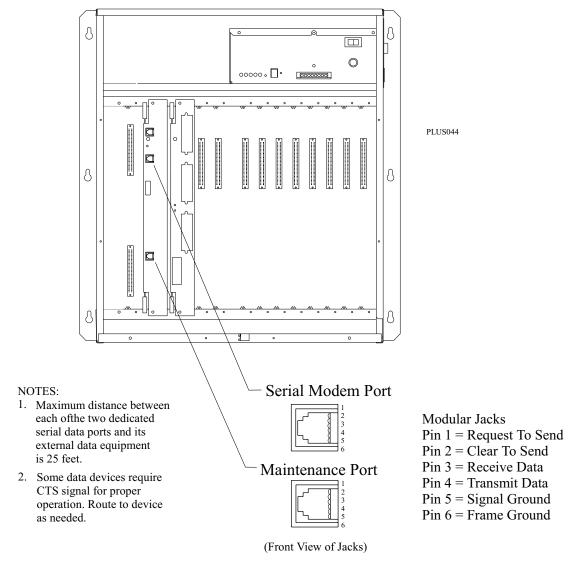
Connect the serial data port of the PC to the maintenance port of the DXP Plus central processor unit (CPU) board. The maintenance port is a dedicated serial data port reserved exclusively for system programming.

The default data formats of these serial data ports are shown in the following chart.

Port Type	Baud Rate	Data Bits	Stop Bits	Parity
Maintenance Port	9600	8	1	None
Modem Port	2400	8	1	None

Note: The recommended baud rate is 19200 bps.

You can connect the PC remotely through a telephone line to the DXP Plus using customer-supplied modems at both the PC and the DXP Plus common equipment. The DXP Plus includes its own modem that you can connect between the CPU board's modem port and an outside telephone line.



DXP Plus Connection for VMMI Programming

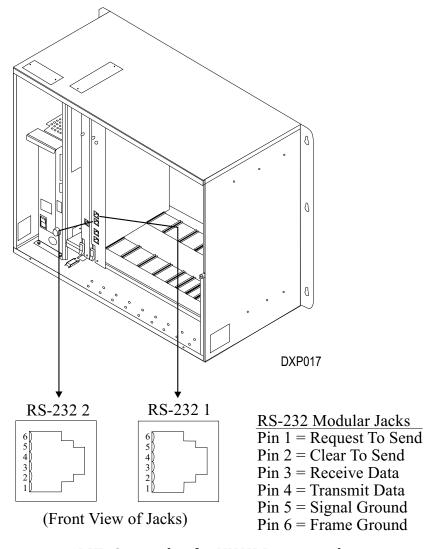
Connecting a PC to the DXP

Connect the serial data port of the PC to either of the serial data ports that the DXP provides on the CPU board. The system designates these modular jacks as RS-232 1 and RS-232 2.

The default data format of the RS-232 1 and RS-232 2 data ports is shown in the following chart.

Port Type	Baud Rate	Data Bits	Stop Bits	Parity
RS-232 1	9600	8	1	None
RS-232 2	300	7	2	None

If you have used the two CPU-provided serial data ports for connecting other DXP features (such as the PC Attendant Position and a serial data printer), you can add a communications card to the DXP and connect the programming PC to a serial data port that the card provides. See your DXP System Hardware Instructions (the Volume I binder) for complete installation details.



DXP Connection for VMMI Programming

Making the Programming Connection to the System

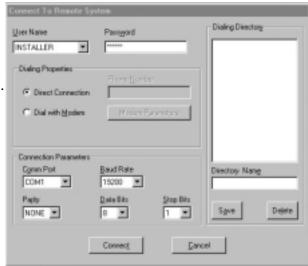
Once you have loaded the software and made the necessary physical connections between the PC and the communications system equipment, you can make the program connection to the system by doing the following procedure.

- 1. Turn on your PC and load Windows.
- 2. Select Start | Programs | Vmmi | VMMI. The computer runs the installed VMMI software program.
- 3. On the Switch menu, click Connect to.
- 4. Select either Administrator or Installer and type the appropriate password. The system defaults all passwords; however, you can customize the passwords as part of VMMI programming if you wish.
- 5. Select the communications port that your PC uses to communicate with the communications system.
- 6. If you are operating remotely through a modem, check the modem prompt.
- 7. Select the serial data parameters that match the requirements for the system (or for the modem if you are connected remotely through a modem). To speed up the data transfer process, you should use a data speed of 19.2 Kbs (kilobits per second) for the DXP Plus, FXS and FXT Systems, and 9600 bit per second for the DXP. If you plan

to operate at this higher data speed, first connect at the default rate, then use the VMMI programming menu to change the data parameters of the system, and finally use the Switch menu to reconnect at the higher speed.

Note: A data speed of 19.2 might not operate reliably through modem connections. In addition, both modems must support the higher data speed. The DXP Plus internal modem does not support data speeds above 2400 Kbs at this time.

8. When you finish making the connection settings, click the Connect button to return to the Switch menu. The system responds by presenting its serial number at the bottom of the



Connect to Remote System

VMMI screen for your reference, and shows an on-line message.

Note: If the system does not complete the connect procedure, check your cable connections, verify your serial data settings, and repeat the log in procedure.

9. Use the Switch menu to disconnect from the system, archive or restore a system database, or download system software.

<u>Notes</u>



Archiving and Restoring an Existing Database

You can use the software to archive (download) and restore (upload) the system's database. To archive and restore data, your PC must be connected to the system.

Using VMMI to Archive an Existing Database

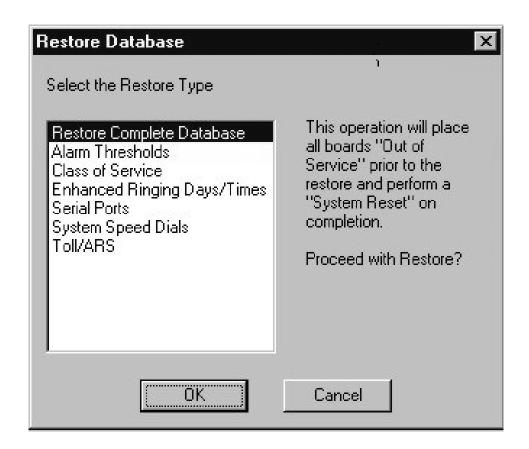
Archive a Database

- 1. Turn on your PC.
- 2. Select Start | Programs | Vmmi | VMMI.
- 3. On the Switch menu, click Connect to.
- 4. On the Connect To Remote System dialog box, click Connect. The program is connected to the communications system and returns to the window.
- 5. On the Switch menu, click Archive Database.
- 6. Choose a memory storage location for the archive operation and OK your choice. Since the database can be quite large, you should choose a location on your computer's hard drive to ensure that you have enough memory to store the database.
- 7. The system automatically archives the database.

Using VMMI to Restore an Existing Database

Restore a Database

- 1. Turn on your PC.
- 2. Select Start | Programs | Vmmi | VMMI.
- 3. On the Switch menu, click Connect to.
- 4. On the Connect To Remote System dialog box, click Connect. The program is connected to the communications system and returns to the window.
- 5. On the Switch menu, click Restore Database.
- 6. Choose Restore Complete Database and click OK.
- 7. Choose the memory storage location that contains an archived database and OK your choice.
- 8. The system automatically restores the database.
- 9. Reset the system after you restore the database.





Upgrading System Software

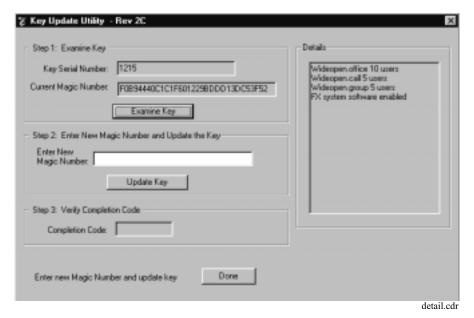
Upgrading FX System Software

Comdial manufacturing technicians load the FX System's operating software. They also load the upgrade software that you use to obtain your key number. You need the key number to activate the system operating software. Once you obtain your key number and enter it in the upgrade software, the system automatically accesses the key through internal software mechanisms.

CAUTION

You must obtain your key number to operate the telephony portion of the FX system. Otherwise, the system will reset itself every hour.

NOTE: The Key Update Utility and the portions of the following procedure that apply to CTI applications and voice mail applications are not part of enabling the system software. You can ignore those parts of the procedure if they do not apply to your system.



Key Update Utility

Sequential Software Enabling Details

- 1. Obtain the software *.BIN file and store it on the PC if you have not already done so.
- 2. Make a list of the applications that you plan to purchase from Comdial.
- 3. From Windows Desktop, click the Installation and Maintenance folder then click the VMMI program.
- 4. Determine the system serial number.
 - a. Log into the system with VMMI and view the system serial number at the lower part of the VMMI window.

Note: Remember, the system operates in a demo mode for one hour before it turns itself off.

- 5. Stop the installed voice processing system from running.
 - a. From Windows Desktop, click the Installation and Maintenance folder; select the Services icon.
 - b. Highlight Voice Mail Manager, and click Stop.
 - c. Repeat this procedure to stop the database manager and the FTP server.
- 6. From Windows Desktop, click the Installation and Maintenance folder then click the Key Update Utility Program.
- 7. With the application key installed on the PC's parallel printer port, run this Key Update Utility program to determine the CTI application key's serial number and current magic number. You need to provide this information to the Comdial representative so the representative can, in turn, provide the information you need to turn on the CTI applications.
- 8. From the Key Update Utility dialog box, click the Examine Key button. The system responds by displaying the following information in the key update window:
 - The CTI application key's serial number,
 - The current magic number of the installed key.
- 9. Once you know the system's telephony serial number (and the CTI application information if needed), contact the Comdial representative:
 - 1-800-669-2663 (U.S.A. calls),
 - 1-800-978-2290 (international calls).
- 10. Provide to the representative the following facts:
 - System serial number (from step 4),
 - Port size of the system (from *.BIN file download –see step 1),
 - Feature set wanted (from *.BIN file download-see step 1),
 - System software applications wanted (from *.BIN file download-see step 1),
 - Standalone features wanted (from *.BIN file download-see step 1),
 - CTI applications wanted (if applicable),
 - The serial number and magic number from the CTI application key (if applicable),
 - Method of payment.

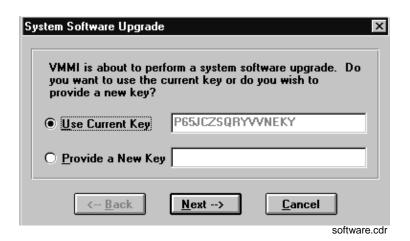
Armed with this information, the Comdial representative, in turn, gives the installer several encrypted alphanumeric character strings that represent the following items:

- The system software key to enable the telephony system software,
- The CTI application Magic Number
- The completion code needed to verify the operation,
- The NT Renew code to enable the voice processing system.

Record these character strings somewhere so that you will have them available to use as you finish this procedure.

- 11. Enter the system software key to enable the telephony system software.
 - a. Use VMMI to log into the system, on the Switch menu, click Archive Database.

Archive the existing database per the window prompts. If you do not wish to archive the existing database, skip this step.



System Software Upgrade

- b. Use VMMI to log into the system, on the Switch menu, click System Software Upgrade.
- c. On the System Software Upgrade dialog box, click the Provide a New Key box and type the **system software key character sequence**.
- d. Click Next.
- e. Browse for and select the software upgrade *.BIN file that you earlier stored in the PC.
- *f.* VMMI provides a new window that presents the feature set and release number of the software upgrade.
- g. Click Finish.
- h. Observe that the system loads the software and then resets itself.
- *i.* Reconnect VMMI to the system, and restore the archived database or reprogram the features as needed.

- 12. Type the CTI application's new magic number to enable the CTI applications.
 - a. Return to the Windows Desktop, click the Installation and Maintenance folder, then click the Key Update Utility program.
 - b. Type the application's new **magic number character sequence** into the update utility.
 - c. Click the Update Key button.

The utility menu shows a completion code value to show that the procedure is finished. Verify that the completion code matches the completion code that the Comdial representative provided to you.

- e. Click Done to end the Key Update Utility session.
- 13. Type the **NT Renew code** to enable the voice processing system.
 - a. Return to Windows Desktop, click the Installation and Maintenance folder, select the NTRENEW icon.

This action opens the NT Renew dialog box.

- b. Type the **NT Renew code** in the provided box.
- c. Click Apply.

The window updates to identify the new voice processing system statistics and access to optional modules.

- d. Click Done to exit the dialog box.
- 14. Restart the voice processing system.
 - a. From Windows Desktop, click the Installation and Maintenance folder, select the Services icon.
 - b. Highlight Voice Mail Manager, click Start.
 - c. Repeat this procedure to restart the database manager and the FTP server.

By completing the steps of the above procedure, you enable the system operating software for the telephony portion of the system, enable the CTI applications that you plan to load and run on the PC portion of the system, and enable system voice processing.

Because your system arrives as voice mail-ready, there is nothing more that you need to do to make the voice processing application operational. If you plan to operate other CTI applications, you must follow the instruction in the next paragraph titled, *Loading the CTI Applications* to make those applications operational.

16 - Upgrading FX System Software

Loading the CTI Applications

After you obtain the magic number from the Comdial representative, your next task is to install the CTI application software onto the hard drive of the PC. When doing this, there are several parameters that you must consider.

- You must install the Wideopen.Office application first,
- You must have available several blank, formatted floppy disks (Wideopen.Office and QuikTrak applications require floppy disks–a prompt appears on the screen when appropriate),
- You can install only one application at a time,
- You must restart the PC whenever a window's dialog box prompts you to do so after an application installation.

Note: Restart the PC from the Start menu and then do the logon and password exercises.

Install the application in the following manner,

- 1. Be sure that you have installed the CTI application key on the PC's parallel printer port.
- 2. Place the application CD in the PC's CD drive–it will start automatically in a few seconds and cause an application installation window to appear on the screen.
- 3. From the Application Installation window, click on the application to be installed and click Install.

Keep in mind, the following items:

- You can install only one application at a time.
- You must load Widopen.Office first.
- You must restart the PC whenever a screen dialog prompts you to do so.
- Need floppy disks for Wideopen.Office and QuikTrak installations.

The Wideopen.Office or QuikTrak installation is a two-step process: the system writes to the floppy disk and then the system installs the application from the disk. The system prompts you to install the floppy disks as you need them. The system also prompts you to install the Wideopen.Office or QuikTrak applications after it writes to the floppy disk. Do this per the following sequence.

- a. Select Start | Settings | Control Panel.
- b. Select Add | Remove Program icon.
- *c.* Be sure that the floppy disk is in drive A:\.
- d. Select Install.
- e. Click Next.
- f. Click Finish.
- q. Remove the floppy disk and restart the PC after the installation.

Note: Some applications require the Key Update Utility program. For those applications, the system prompts you to accept an automatic install of the Key Update Utility program as part of the installation. Make your choice, and the application installation occurs automatically after which a dialog box will prompt you to restart the PC. Remember, remove any installed floppy disk before restarting the PC.

4. Repeat the application load and restart procedure until you have loaded all the applications that you require.

Note: The dialog boxes as they appear, and follow the displayed instructions.

5. Remove the CD and store it away for future use. Some applications have a server part and a client part. For those, you must take the CD to the client PC and install that application there. Again, follow the screen prompts as they appear.

Note: Some applications require specific COM port cable connections for normal operations. Refer to the paragraph titled, Making the Operational Connections for cabling details.

CAUTION

Always make a complete backup of the system PC's hard drive contents after you complete the installation. Afterwards, do regular backup of the PC's hard drive contents. The equipment cabinet includes an installed tape drive and a blank tape cartridge to store the backup data. Use the Windows NT backup utility to backup the PC's hard drive. Click Start /Programs and then click on the backup utility.

Upgrading DXP Plus System Software

The DXP Plus digital communications system includes system software when it ships from the factory. At initial system installation, you do not need to load system software to make the system operational. Should you need later to reload the system software (for software upgrade purposes for example), you can do so using the supplied system software disk. Use Windows or MS-DOS commands to save the disk's information from your computer's floppy drive to its hard drive. Having the software on your computer's hard drive allows the data to load into system memory much quicker than it would from the computer's floppy disk drive.

To load the system software information, your PC must be connected to the communications system.

- 1. Turn on your PC.
- 2. Select Start | Programs | Vmmi | VMMI.
- 3. If you have not previously archived the system database, do so now.
 - a. On the Switch menu, click Archive Database.
 - b. Select a storage location for the archive operation and OK your choice. Since the database can be quite large, you should choose a location on your computer's hard drive.
 - c. The system will archive the database.
- 4. On the Switch menu, click System Software Upgrade.
- 5. The system automatically takes itself out of service and makes a backup of its database. Choose the location where the new software data resides (select disk drive, directory, and file) and OK your choice. The system loads the software data, reloads the database that it previously backed up, resets itself, and places itself back in service.

Upgrading DXP System Software

The upgrade to software release 10A or later requires that you install a new RAM card (DXRAM-EXPC) and the software memory card (DXPSWQ-DLRC) on the DXP's central processor unit. If you need detailed instructions for doing these operations, refer to your DXP System hardware instructions.

Converting the DXP Database

Use this procedure to convert an existing DXP database to software release 9n compatibility. This action places the database in an arrangement that allows you to translate it. Translating the database makes it compatible with the software releases that support VMMI usage (software release 10A and later).

Store the Current DXP Database

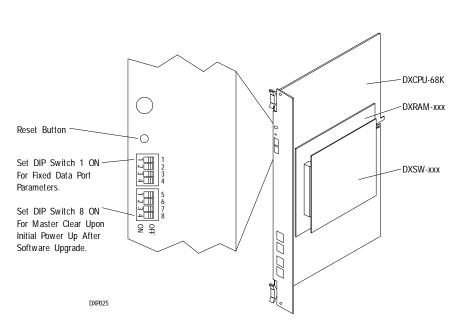
- 1. Employ a PC with a XMODEM communications program and use the DXP's embedded MMI programming method to store the current DXP database to the PC's hard drive. The saved database does not include the SMDA / SMDR records. If you need these SMDA / SMDR records, you must make a printout of them before you do the database storage.
- 2. Disconnect the PC from the DXP.
- 3. If the stored database is not at least software release 9n, obtain a copy of revision 9A, or later PCMMI programming software and load it on your computer.

NOTE: Remember, you can download the latest software version, and PC Attendant software from the Comdial Technical Services Bulletin Board by calling 1-804-978-2583 or from the World Wide Web at http://bbs.comdial.com.

Master Clearing the DXP System

If you do not Master Clear the system, it is possible the DXP will not perform properly with a new memory card. The DXCPU-68K board provides a method for the master clear to occur automatically at the initial power up after you have changed or upgraded the software card. When you do an upgrade, you must execute the following sequence of events exactly as they are stated here.

- 1. On the DXPCPU-68K circuit board, set DIP switch 8 to its **ON** position. This step enables the DXP to do the master clear and is a required step; otherwise, the software upgrade will not occur and the system will not operate.
- 2. Connect the AC power cord to the AC outlet and turn on the AC power switch. At power up, the DXP automatically executes a master clear operation. Observe that the LED indicators on the DXCPU-68K board, the DXSRV services board, and all installed station and line boards flash in a random pattern during the master clear sequence. After the master clear



Master Clearing the DXP System

sequence is complete, the indicators on the DXCPU-68K and DXSRV boards turn on steadily and the indicators on the station and line boards wink ON for four seconds and OFF for four seconds.

- 3. After power up, set DIP switch 8 to its **OFF** position.
- 4. Press the RESET button on the CPU board to reset the system.

Note: The system does the automatic master clear once following the initial power up after you have upgraded the software. It will not do an automatic master clear operation again after subsequent power ups. Because of this, you can leave DIP switch 8 ON if you wish. Leaving it ON will ensure that the DXP will always power up in a master clear and operation mode after you have done a software upgrade. However, by turning DIP switch 8 OFF, you prevent the DXP from becoming operational at power up after you have done a software upgrade. This is good because, should you forget to save your database, it gives you an opportunity to reconsider your actions before the DXP erases the current database.

5. Replace the front panel on the main cabinet.

Installing the RAM Card and Software Card in the DXP

CAUTION

Electronic circuit boards are susceptible to damage caused by electrostatic discharge and must be handled accordingly. Refer to the Comdial publication IMIO1-005, Handling of Electrostatically Sensitive Components, for general information. Specific handling precautions are also included in this installation instruction. The expanded memory card (DXRAM-EXPC) and the system software memory card (DXPSW-DLRC) are supplied in static protection bags. Do not open a static protection bag before installation time.

Installing the Cards in the DXP

Turn off the power to the DXP, and install both the RAM card (DXRAM-EXPC) and the software memory card (DXPSW-DLRC) on the central processor unit (DXCPU-68KJ) circuit board of the DXP digital communications system.

- 1. Loosen the retaining hardware and remove the front panel from the DXP main cabinet.
- 2. Turn off the AC power switch, and disconnect the AC power cord from the AC outlet. Disconnect the cable of the optional battery backup from the main cabinet power supply.
- 3. Place a conductive mat in front of the cabinet area and ground the mat to a good earth ground (the third wire ground of the AC power line is an acceptable grounding point). The grounded conductive mat will provide a safe static electric discharge path.
- 4. Install the static discharge wrist strap (supplied with the main cabinet) on your bare wrist; adjust it for a snug fit. Be sure that the strap is touching bare skin and is not isolated by clothing. Connect the wrist strap cord between the wrist strap and an AC or earth ground.

Note: With the common equipment in the installed position, the ground lug on the side of the cabinet is an appropriate grounding point since it should have a heavy ground wire connected between it and a good earth ground.

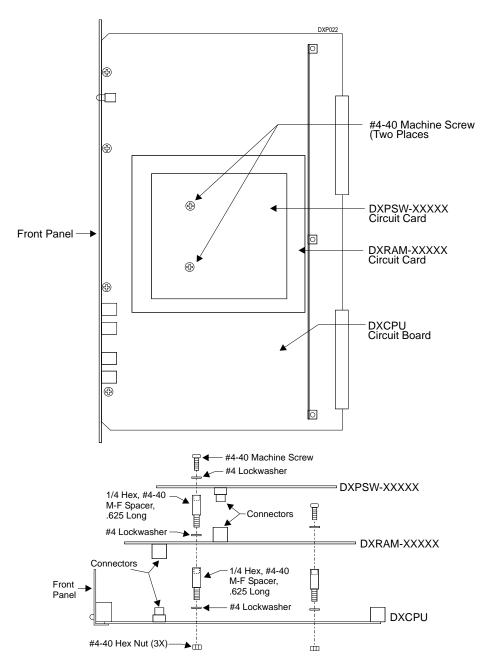
- 5. Find the DXCPU-68K circuit board, loosen the retaining screws, remove it from the DXP main cabinet, place it in a static protection bag, and transport it to the static-safe work area.
- 6. At the static-safe work area, with your wrist strap in place, remove the DXCPU-68K circuit board, the new DXRAM-EXPC expansion memory card and the new DXPSW-DLRC software memory card from their static protection bags.
- 7. Refer to illustration on page 21 and remove the currently installed memory cards from the DXCPU-68K board.
- 8. Orient the board and the new memory cards as shown in the illustration, and attach them with the supplied hardware. (The screws and standoffs between the cards are essential to ensure proper grounding.)
- 9. Place the old memory cards in static protection bags and save them for later return for credit. Place the DXCPU-68K board and newly installed memory cards into a static protection bag and transport back to the DXP main cabinet.

10. With your wrist strap properly grounded, remove the DXCPU-68K circuit board from the static protection bag. Orient it with the top and bottom guides in the main cabinet board cage, and press it in firmly until the board edge connector properly mates with the backplane connector.

CAUTION

When pressing the DXCPU-68K board into place, press it only at the extractor level locations. If you apply pressure at other locations, you may damage the board assembly.

11. Make a final inspection to ensure that the DXCPU-68K circuit board is in the correct slot, oriented correctly and mated properly, then install and tighten the supplied screws to secure it to the board cage.



Installing Software and RAM Cards on the DXP

<u>Notes</u>



Translating an Earlier Database to a CCB Database

Translating a Non-CCB Database

To use VMMI on the DXP system, you must upgrade the DXP software to at least release 10A (or to whatever software revision that is current). Further, to preserve your existing database you must convert it though the PCMMI database programming software that is at software release 9x. You can use the 9A revision of the PCMMI programming software to up-load your current DXP database and then download it to a data storage area—such as your computer's hard drive—as a revision 9A database.* You must then use the VMMI feature to translate this stored 9A data into at least a 10A database. Use this procedure to translate a database, which you have first converted to be compatible to software release 9x, to be compatible with a common code base software release 10A or later.

- 1. On the File menu, click Open As.
- 2. On the Open Database File dialog box, select the database that you wish to open, and then click Open.

A prompt asks you to confirm the choice, click OK to proceed.

- 3. Type a new **file location** where the translated database can reside.
- 4. Select the destination platform type and master clear mode for the system and then click Next.
- 5. Select the feature set.

Depending on the type of platform selected the dialog box display supports types. If this option displays, select any combination of supports, and then click Finish. The Select Board Type dialog box appears.

- 6. Use the Select Board Type dialog box to describe the board configuration of the database that you are translating.
 - *a.* For reference before upgrading the software to 10A or later, make a record of the DXP's physical board configuration.

b. Use the board record information to answer the prompts on the Select Board Type dialog box. The prompts first ask for all installed station board beginning with the DXP's leftmost universal slot in the main cabinet. The prompts then ask for all installed line boards beginning with the DXP's leftmost line slot in the main cabinet. When a slot in the original DXP contains an auxiliary board, select the No Board response. The prompt asks for a station board but a line board occupies that slot in the original DXP, select the No Board response. When the prompt asks for a line board but a station board occupies that slot in the original DXP, select the No Board response. When you finish listing the board configuration, OK your selections.

Note: Under BOARD CONFIGURATION | CABINET VIEW, the graphic shows the boards installed in the arrangement that you specified and leave a blank slot for any place that you answered a station or line board prompt with a No Board response.

- c. A prompt asks that you confirm that conversion has taken place by clicking OK.
- 7. Click Open As.
- 8. Select the file name that you specified in step 4 and OK your selection.
- 9. Type the **destination revision** and **destination platform** for the translated database and OK your specification. Database translation now occurs.
- 10. On the File menu, click Save.
- 11. Check the translated results, and under BOARD CONFIGURATION | CABINET VIEW, use your mouse to move the board images to match your plan for the upgraded system, Remember, you must physically move the boards in the common equipment cabinet to match the arrangement that you set with the program.

Translating the DXP and DXP Plus Database

You can use the VMMI to translate the database residing in a DXP to a format that is compatible with a 10A or later software release. Before you can translate the database, you must convert it to a 9A software release level.

- 1. Select Start | Programs | Vmmi | VMMI.
- 2. On the File menu, click Open as.

The system default conditions cause the program to search for all *. files in the VMMI directory; however, you may need to type the path location and DOS file name of the DXP database that you wish to translate.

- 3. On the Open Database File dialog box, select the database for translation, and **NEXT**.
- 4. After translation is complete, on the File menu, click **Save As**. Assign your database a new name.

- 6. Use the Select Board Type dialog box to describe the board configuration of the database that you are translating.
 - *a.* Make a record of the physical board configuration by entering product codes in the following table.

DXP Main Cabinet Universal Slot	Product Code of Installed Board	Station Number of Slot	Line Number of Slot	DXP Expansion Cabinet Universal Slot	Product Code of Installed Board	Station Number of Slot	Line Number of Slot
UNV1/AUX		1-16		UNV6		81-96	121-128
UNV2/AUX		17-32		UNV7		97-112	113-120
UNV3		33-48		UNV8		113-128	105-112
UNV4		49-54		UNV10		129-144	97-104
UNV5		55-80		UNV11		145-160	89-96
LINE1			25-32	UNV12		161-176	81-88
LINE2			17-24			177-192	73-80
LINE3			9-16				
LINE4			1-8				

b. Using your charted information, answer the prompts on the Select Board Type window. The prompts first ask for all installed station boards beginning with the DXP's leftmost universal slot in the main cabinet. The prompts then ask for all installed line boards beginning with the DXP's leftmost slot in the main cabinet. When a slot in the original DXP contains an auxiliary board, select the No Board response. When the prompts ask for a station board but a line board occupies that slot in the original DXP, select the No Board response. When the prompt asks for a line board but a station board occupies that slot in the original DXP, select the No Board response. When you finish listing the board configuration, OK your selections.

- c. The VMMI program presents a screen graphic that depicts the boards installed in a default arrangement in the main and expansion cabinets of a DXP Plus system. The default arrangement places station boards in ascending slot order beginning with slot 1 in the main cabinet; it places line boards in descending slot order beginning with slot thirty in the lower expansion cabinet. The VMMI program leaves a blank slot for any place that you answered a station or line board prompt with a **No Board** response.
- d. Since your system may not include one or both expansions cabinets or you do not care for the software arranged board layouts, use your mouse to move the board images to the slots that you would rather that they occupy. Make a record of these board locations so that you or your installer can physically install the boards to match your plan.

DXP Plus Upper Expansion Cabinet Universal Slot	Enter Product Code of Installed Board
10(1-32)/AUX1	
11(1-32)/AUX2	
12(1-32)	
13(1-32)	
14(1-32)	
15(1-32)	
16(1-32)	
17(1-32)	
18(1-32)	
19(1-32)	
20(1-32)	

DXP Plus Upper Main Cabinet Universal Slot	Enter Product Code of Installed Board
1(1-32)/AUX	
2(1-32)	
3(1-32)	
4(1-32)	
5(1-32)	
6(1-32)	
7(1-32)	
8(1-32)	
9(1-32)	

DXP Plus Lower Expansion Cabinet Universal Slot	Enter Product Code of Installed Board
21(1-32)/AUX1	
22(1-32)/AUX2	
23(1-32)	
24(1-32)	
25(1-32)	
26(1-32)	
27(1-32)	
28(1-32)	
29(1-32)	
30(1-32)	

7. From the File menu, select Save.

The computer saves the translated database to the file that you named in step 5.

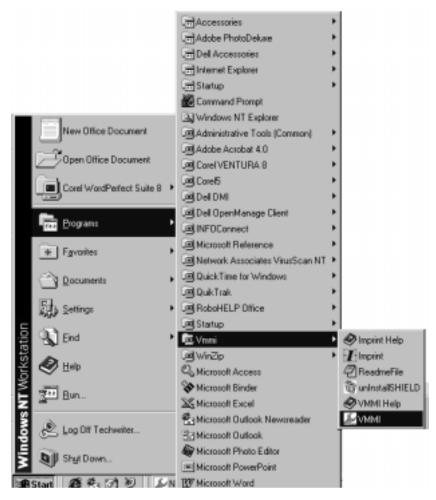
<u>Notes</u>



Programming with VMMI

Starting Application

To start the application from Windows Desktop select Start | Programs | Vmmi | VMMI. The VMMI window appears. The VMMI window contains the menu bar and the Comdial VMMI logo.



Start VMMI Application

Locating and Using the VMMI Menu and Tool Bars



VMMI Menu and Tool Bars

Understanding the Menu Bar

The menu bar is located at the top of your window and contains various options. When you point to a menu title with the mouse and click once, the menu drops down. Clicking once on the desired menu option executes that command. Commands with ellipses (...) after them prompt you for additional information. The following menu bar options are available: File Edit View Programming Switch Help. Paragraphs that follow in this chapter provide detailed descriptions of each of these menu bar options

Note: Using keyboard shortcuts can also execute most commands. For example, you can open the Programming menu by holding down the ALT key and pressing the R key.

Understanding the VMMI Toolbar

The VMMI toolbar contains buttons that help you quickly open, save, and apply. The following list describes each button on the VMMI toolbar.



• New - Allows you to start a new database.



• Open – Allows you to open an existing database.



• Save – Allows you to save a database with all of your changes.



• Cut – Allows you to remove a selected item from one area and place it on the clipboard.



• Copy - Allows you to copy a selected item and place it on the clipboard.



 Paste – Allows you to insert an item from the clipboard into the selected area of the application.



• Print - Allows you to print selected items from the Print Dialog box.



• About – Launches the VMMI Database Programming Help file.



• Apply – Allows you to make changes in the application.



• Undo – Allows you to undo your last action.



• Add Items – Allows you to add items in the database.



• Remove Items - Allows you to remove items from the database.



• Next in Database – Allows you to display the next item in a database.



• Previous in Database – Allows you to display the previous item in a database.



• Connect – Allows you to connect to the switch.



• Disconnect – Allows you to disconnect from the switch.

Item(s)

• Items – Displays the station(s) or other database items.



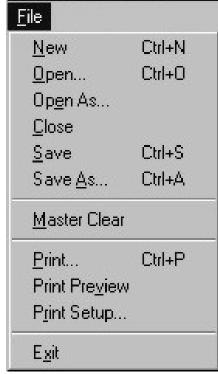
• Browse - Allows you to select the station(s) to display in the Item box

Defining the <u>F</u>ile Menu

The \underline{F} ile menu contains standard File options (for example, New, Open, and Save) In addition, the File menu contains the Master Clear and Print options. The New, Master Clear and Print options are detailed beginning on

page 88.

- <u>New</u> Creates a new database. Refer to page 88 for detailed instructions.
- Open Opens an existing database.
- Open As Translates an existing database.
- Close Closes the current database.
- Save Saves the current database.
- Save <u>As</u> Saves the current database under a new name.
- Master Clear Returns the entire system to the selected default operation parameters, clears all stored speed dial numbers, and clears any other custom programming.
- Print Prints record of selected programming area.
- Print Preview Provides a preview of the selected programming area.
- Print Setup Sets parameters for a printer.
- Exit Exits the VMMI application.

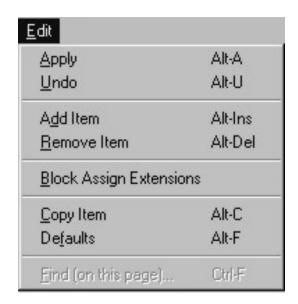


File Menu

Defining the <u>E</u>dit Menu

The <u>E</u>dit menu contains options that allow you to apply your changes, undo recent changes made, add an item, remove an item, block assign extensions, copy items, set defaults and find (on this page) items. The instructions for setting block assign extensions, defaults and using the find (on this page) can be found beginning on page 90.

- Apply Applies the changes made.
- Undo Reverse the last applied change.
- Add Item Allows you to add items (for example, Pilot Numbers, Group Intercom Extension, and Account Codes). This option is only available when the software has information available for adding.
- Remove Item Allows you to remove items (for example, Pilot Numbers, Group Intercom Extensions, and Account Codes). This option is only available when the software has information available for removal.
- Block Assign Extensions Lets you assign blocks of extension numbers to specific station ports.
- Copy Item Allows you to copy items (for example, Pilot Numbers, Group Intercom Extension, and Account Codes). This option is only available when the software has information available for copying.



Edit Menu

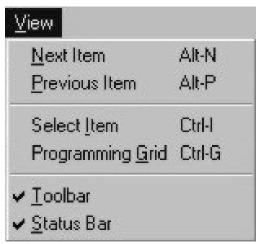
- Defaults Assigns default parameters for specified features.
- Find (on this page) Provides search capability only on the active page.

Defining the View Menu

The <u>View</u> menu contains options that allow you to view the next item, previous item, selected item, programming grid, toolbar, and status

bar. Toggle the toolbar or status bar to display or hide the bar.

- <u>N</u>ext Item Displays the next item.
- Previous Item Displays the previous item.
- Select Item Displays the selected item.
- Programming <u>G</u>rid Displays the programming grid.
- Toolbar Displays or hides the toolbar.
- Status Bar Displays or hides the status bar.



View Menu

Defining the P<u>r</u>ogramming Menu

The Programming menu contains options that allow you to program the configuration for VMMI. The menu options that contain an arrow beside them have an additional drop-down menu. The Programming Menu options are described in detail on page 39.

- System... Displays a sub-menu that allows you to set general parameters for the entire system.
- <u>Networking</u> Displays a sub-menu that allows you to set parameters for linking two or more systems together providing unified extensions and feature access across the network system.
- <u>Stations</u> Displays the Database Programming: Stations window.
- Station Menus Displays a sub-menu that allows you to customize individual stations and groups of stations to have the particular features needed by different users.
- <u>Lines</u> Displays the Database Programming: Lines window.
- Line Menu... Displays a sub-menu that allows you to define the lines connected to the switch.
- Group Intercoms Displays the Database
 Programming: Group Intercom window. This
 window allows you to specify the system intercom
 numbering and provide information and options
 about each of the group intercom numbers.
- SMDA / SMDR... Displays a sub-menu that provides call activity records for each station in the system.



Programming Menu

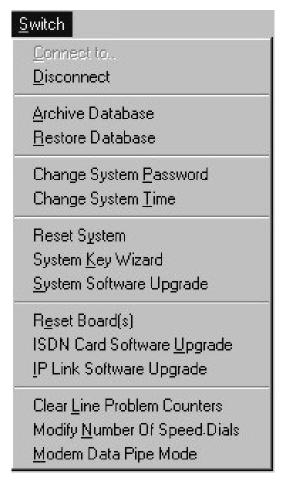
- <u>T</u>oll / ARS... Displays a sub-menu that allows you to program different dialing needs by allowing users to dial certain numbers yet restricting them from others.
- Peripherals... Displays a sub-menu that allows you to program the peripheral equipment.
- <u>Board Configuration</u> Displays the Database Programming: Board Configuration window. This window allows you to specify which boards are installed in the main and expansion cabinets.
- <u>Cabinet View</u> Displays the Database Programming: Cabinet View window. This window allows you to specify which boards are installed in the main and expansion cabinets.
- Boards Menu Displays a sub-menu that allows you to program the boards that you specified in the configuration.

Defining the <u>S</u>witch Menu

The Switch menu contains options that allow you to connect and disconnect to the switch, archive and restore databases, and change system passwords. The Switch Menu options are described in detail on page 83.

Note: You must be online with the communication system before you can select any of the menu options other than Connect.

- <u>C</u>onnect to Connects VMMI to a remote system.
- <u>D</u>isconnect Disconnects VMMI from the system.
- Archive Database Allows you to download the database from the remote system to a PC.
- Restore Database Allows you to upload a stored database from a PC to the remote system.
- Change System Password Allows you to change the password.
- Change System <u>Time</u> Allows you to change / set the system clock.
- Reset System Allows you to reset your digital communications system.
- System <u>Key Wizard</u> Allows you to view or modify the system software key.
- System Software Upgrade Allows you to upgrade your system software. Displays a warning box prior to upgrading the system software.
- Reset Board(s) Provides you a means to remotely reset T1 and E1 line boards.
 This remote resetting feature eliminates travel to a site to merely reset a T1 or E1 board.



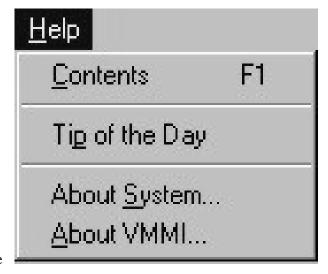
Switch Menu

- ISDN Card Software <u>Upgrade</u> Allows you to upgrade the software on the DXPRI board which installs on the DXPT1 board.
- <u>IP</u> Link Software Upgrade Allows you to upgrade the software on the Voice over Internet Protocol (VoIP) board.
- Clear <u>L</u>ine Problem Counters Allows you return all lines to service and clear the problem counters.
- Modify <u>N</u>umber of Speed Dials Allows you to select the quantity of system speed dial numbers that will be available for use.
- Modem Data Pipe Mode (FX System feature only.) Allows you to access either the telephony or computer aspects of the FX system for support or maintenance purposes.

Defining the <u>H</u>elp Menu

The <u>Help</u> menu contains options that allow you to display on-line help, system information, and VMMI information. The Help Menu options are described in detail on page 92.

- <u>C</u>ontents Displays the on-line help system.
- Tip of the Day Provides various tips on VMMI operation. You can turn this option off if you wish.
- About System... Information displayed varies depending if you are programming on-line or off-line. Displays what type of system you are using either on-line or offline. Gives you the system release number and the system feature set. If you are programming on-line it will also provide you with the system network version and system memory information.
- <u>A</u>bout VMMI... Displays the VMMI release number, latest supported feature set, VMMI build number, and copyright information.



Help Menu

Understanding Programming Menu Options

The System menu is where you select the options to set the parameters for VMMI. System programming involves features that affect the operation of every telephone in the system. Some parameters that you set with the system programming menu require that you take further programming action at the line or station level to engage, disengage, or customize a feature for an individual line, station or an entire station class of service. The System menu is under the Programming option on the menu bar.

System Menu

1. On the Programming menu, click System.



System Menu

<u>L</u>CD Messages

The LCD Messages window is where station users set messages at stations with LCD.

Note: This feature is enabled only in station Class of Service 32 by default. If you want this feature in other classes of service, you must enable Messaging.

- 1. On the System menu, click LCD Messages.
- 2. Highlight the LCD Message line to modify.
- 3. In the Feature Value box, type the **message** to display.
- 4. Continue steps 2, 3, and 4 until all the messages are entered. Allows for a total of 30 messages.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

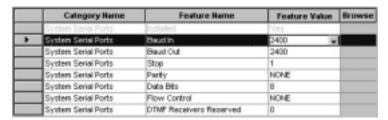


LCD Messages

Serial Ports

The Serial Ports window is where you set serial interfaces that you use for connecting applicable data devices to the communications system.

- 1. On the System menu, click Serial Ports.
- 2. In the Item(s) box on the tool bar, select the serial port to modify (use the browse button if needed).
- 3. Highlight the serial ports feature to modify.
- 4. In the Feature Value box, type the first character **value** or click on the **drop down arrow** and select from the choices listed, or if available, click the **Browse** button to select from a list.
- 5. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.



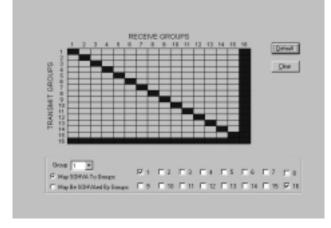
Serial Ports

SOHVA (Subdued Off-Hook Voice Announce) Table

The SOHVA Table is where you set the option to allow a telephone user to break in on any

call in progress at another extension (off-hook) without being heard by the outside party. You can use the Default button to set default values.

- 1. On the System menu, click SOHVA Table.
- 2. Click the Clear button to clear the matrix.
- 3. In the matrix, click on the box where the desired Transmit and Receive Groups intersect or click May SOHVA To Groups: (Transmit Group) or **May Be SOHVAed By**



SOHVA Table

Groups: (Receive group) and the corresponding boxes will be filled in.

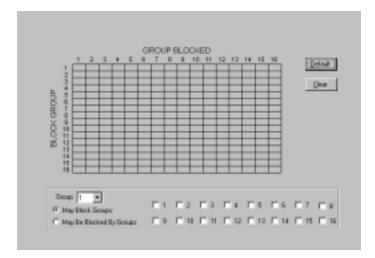
- 5. In the Group list box, click the group taking action.
- 6. In the Group list box, click the group receiving the action.
- 7. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Note: You must first form the SOHVA Groups using the SOHVA Table and then you must assign the individual station to the group.

Station Block Table

The Station Block Table is where you create different groups of stations that cannot make intercom calls to one another if they are not in the same station group. You can use the Default button to set default values.

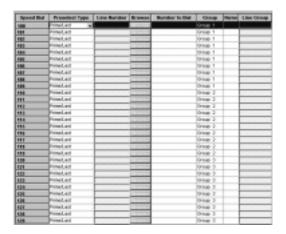
- 1. On the System menu, click Station Block Table.
- 2. Click the Clear button to clear the matrix.
- 3. In the matrix, click on the box where the desired Group Blocked and Block Group intersects or click the desired box in the May Block Groups or **May Be Blocked By Groups** and the corresponding boxes will be filled in.
- 5. In the Group list box, click the block group.
- 6. In the Group list box, click the group blocked.
- 7. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Station Block Table

Speed Dials

The Speed Dials window is where you set speed dial numbers for the system. The system provides 500 system speed dial numbers by default, or fifty groups of ten numbers per group. When connected to the switch you can modify the speed dial to 1000, or fifty groups of twenty numbers per group.



Speed Dial

Note: When you increase the number of system speed dials you will lose all previously programmed speed dial numbers. Once you created the speed dial groups, you must assign none, one, or a range of groups to each station class of service.

- 1. On the System menu, click Speed Dials.
- 2. Highlight the line to modify.
- 3. In the Preselect Type box, click the **drop down arrow** to display available line options.
- 4. Click the desired option.
 - *a.* If you selected Line in the Preselect Type box, the Line Number box becomes active.
 - In the Line Number box, type the **line number** or click on the **Browse** button.
 - b. If you selected Line Group in the Preselect Type box, the Line Group box becomes active.
 - In the Line Group box, type the **line group number** or click on the **drop down arrow** to display available options.
 - c. If you selected Prime/Last, Itcm, or ARS, click on the line number and enter the telephone number associated with that line.
- 5. In the Number to Dial box, type the **speed dial** number (up to 32-digits).
- 6. In the Name box, type the **speed dial** name (up to 7-digits).
- 7. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Timing

The Timing window is where you set the timing parameters for the entire system (for example, time-out periods, recall limits, and time duration for calling features).

- 1. On the System menu, click Timing.
- 2. Highlight the timing feature to modify.
- 3. In the Feature Value box, type the first character **value**, or if available, click the **drop down arrow** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Timing

System Parameters

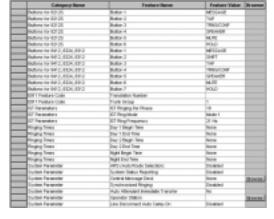
The System Parameters window is where the system user programs options (for example, set majority of operating limits for entire system or to change button designation order).

- 1. On the System menu, click System Parameters.
- 2. Highlight the feature to modify.
- 3. In the Feature Value box, type the first character **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Paging Zones

The Paging Zones window is where you arrange stations to transmit and receive voice announcements, to and from a particular group of stations or to all stations in the system.

- 1. On the System menu, click Paging Zones.
- 2. In the item(s) box on the tool bar, select the paging zone to edit.
- 3. Highlight the feature to modify.
- 4. In the Feature Value box, type the station value, or click the drop down arrow button to select from a list or if available, click the Browse button to add / remove the desired options.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



System Parameters

Relays

The Relays window is where you set relays for enhanced ringing and ringing assignments for specific lines.

- Ringer Assignment You can assign one or more of the four relays, which are located in the equipment cabinet, to tract the ring signal of any or all line ports that you assign to the relays. You can arrange for the tracked ringing to be during the direct, delayed, day 1, day 2, or night ringing modes.
- Enhanced Ringing You can set relay tracking of system enhanced ringing.

Note: The times and days selected will supercede any standard enhanced ringing times.

- 1. On the System menu, click Relays.
- 2. In the item(s) box on the tool bar, select the relay to edit.
- 2. Highlight the feature to modify.
- 3. In the Feature Value box, type the **value**, or if available, click the Browse button to add / remove the desired options.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Relays

External Pagers

The External Pagers window is where you set tracking of an external wide area paging device to the time that you set in system enhanced ringing (see page 47).

- 1. On the System menu, click External Pagers.
- 2. Highlight the feature to modify.
- 3. In the Feature Value box, type the **value**, or if available, click the Browse button to add / remove the desired options.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



External Pagers

Feature Numbers

The Feature Numbers window is where you set the dialing codes for user features. These codes are flexible so that you can renumber them.

CAUTION

If a number conflict exists, the system prompts you. You must remove the conflict before you can make the assignment. Be sure that doing this will not disturb other programmed features that depend upon the removed number.

- 1. On the System menu, click Feature Numbers.
- 2. Highlight the feature to modify.
- 3. In the Current box, type the new **value**. The default value displays in the Default box.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Group	Name	Berleuit	Current
Feature	Account Cade Entry	104	104
Feature	Call Five Cancel	#5	#5
Peakure	Cell Fivid Personal	151	151
Feature	Call Pive All Calls	162	M2
Feature	Cell Fivrd Personal (FNA)	453	453
Feetune	Call Five At Calls (FRA)	764	764
Feature	Camp on Activate	46	46
Feeture	Carry on Cancel	(F)	201
Feature	Call Pickup Directed	14	14
Freakure	Cell Pickup Group	84	84
Feature	SLPS - TAP code	4.6	44
Feature	Authorization Code Entry	W08	#08
Fleekane	DSS programming	PR)	173
Feature	Executive Override	*03	103
Feeture	LCD Hersaging Autivate	703	102
Feature	LCO Herraging Cancel	602	#02
Freakung	May Walling Activate	*0	10
Feature	Meg Welling Cancel	43	43
Peakure	Call Divert	155	*55
Feetune	O.MY	146	176
Feature	Personal Fling Tone 1	**41	**41
Feature	Personal Ring Tone 2	*42	**42
Feature	Personal Fling Tone 3	*43	**43
Feakure	Personal Ring Tone 4	****	**44
Feature	Personal Fling Tone 5	**45	**45
Feature	Personal Ring Tone 6	*46	**46
Feature	Directed Station Hotel Dec	790	190
Feature	Service Observe	#03	#00
Feature	Speed Dist Programming	141	nel .
Feature	Directed Station Hold Off	#98	#90

Feature Numbers

T1 / E1 Alarms

The T1 / E1 Alarms window is where you choose the status and alarm alerting parameters.

- 1. On the System menu, click T1 / E1 Alarms.
- 2. Highlight the feature to modify.
- 3. In the Feature Value box, type the **value**, or if available, click the drop down arrow to select from a list.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Note: E1 is a European version of the North American telephony format.

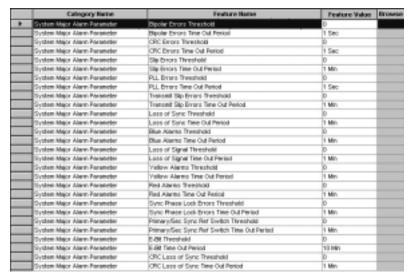


T1 / E1 Alarms

Major Alarms

The Major Alarms window is where you program the system to activate an external, customer-supplied audible or visual alarm to alert the attendant of an alarm condition. The system attendant can turn the alarm off from any specified station by dialing a feature code.

- 1. On the System menu, click Major Alarms.
- 2. Highlight the feature to modify.
- 3. In the Feature Value box, type the **value**, or if available, click the **drop down arrow** to select from a list.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

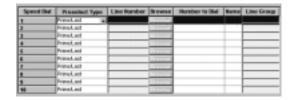


Major Alarms

Centrex Message Waiting

The Centrex Message Waiting window is where you set message waiting and Caller ID interfaces, for the common equipment cabinets.

- 1. On the System menu, click **Centrex Message Waiting**.
- 2. Highlight the line to modify.
- 3. In the Preselect Type box, click the **drop down arrow** to display available line options.
- 4. Click the desired option.
 - a. If you selected Line in the Preselect Type box, the Line Number box becomes active.
 In the Line Number box, type the line number or click on the Browse button.
 - b. If you selected Line Group in the Preselect Type box, the Line Group box becomes active.
 - In the Line Group box, type the line group number or click on the drop down arrow to display available options.



Centrex Message Waiting

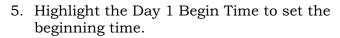
- c. If you selected Prime/Last, Itcm, or ARS, click on the **number to dial box** and enter the telephone number associated with that line.
- 5. Type in the **Number to Dial** no matter what line type is chosen.
- 6. Type in the **Name** associated with the number to dial.
- 7. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Enhanced Ringing Options

The Enhanced Ringing Options window is where you program the versatile set of ringing choices by providing alternate ringing assignments on specific programmed days of the week or specific programmed holidays.

- 1. On the System menu, click Enhanced Ringing Options.
- 2. Highlight the day of the week that you are going to set the beginning and ending times.
- 3. In the Feature Name box, type in the first character value to either enable or disable, or click the **drop down arrow** to display the available options.





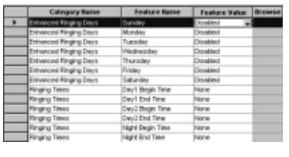
- 6. In the Feature Value box, highlight none and type the **beginning time**.
- 7. Highlight the Day 1 End Time to set the ending time.
- 8. In the Feature Value box, highlight none and type in the **ending time**.
- 9. You can repeat steps 5 8 to set the time for **Day 2**.
- 10. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

Enhanced Ringing <u>H</u>olidays

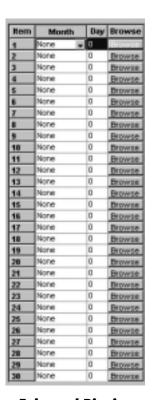
The Enhanced Ringing Holidays window is where you program the month and day for up to thirty holidays.

Note: Set the beginning and ending time for under the Enhanced Ringing Options.

- 1. On the System menu, click Enhanced Ringing Holidays.
- 2. Highlight the item number to assign a holiday.
- 3. In the Month box, type the first character of the desired month or click the **drop down arrow** to select from a list.
- 4. In the Day box, type the **day of the month**, or click Browse and select from a list.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Enhanced Ringing Options



Enhanced Ringing Holidays

Understanding Networking Menu Options

The Networking menu contains the options that allow two or more systems to share features and extension access. The systems participating in the network are called nodes. Each network contains a special node called the hub. The hub controls the networking features of all other nodes. Each node is granted access to particular extensions through the hub database. A database may either be enabled or disabled for networking. A database is enabled for networking as either a hub, node, or QSIG.node. There may be only one hub in the network.

<u>N</u>etworking Menu

1. On the Programming menu, click Networking.

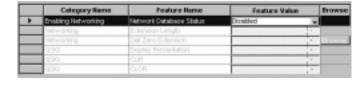


Networking Menu

Network Properties

The Network Properties window is where you enable or disable the hub, node or QSIG node operation.

- 1. On the Networking menu, click Network Properties.
- 2. Highlight the feature to apply.
- 3. In the Feature Value box, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.



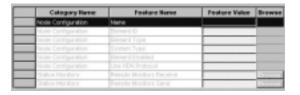
Network Properties

4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Node Configuration

The Node Configuration window is a Hub system only screen where you define the hub and the nodes that the network will use.

- 1. On the Networking menu, click Node Configuration.
- 2. In the item(s) box on the tool bar, select the node to edit.
- 2. Highlight the feature to apply.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.



Node Configuration

4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Network Links

The Network Links window is Hub system only window where you program the physical links between the hub and the nodes.

- 1. On the Networking menu, click Network Links.
- 2. Highlight a row to assign links to the node that appears in the row.
- 3. In the Link Slots box, type the slot of numbers or click Browse to select from a list.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

	Link Slots	Browse	Element Name	Element ID
	None	Browse	Node 1	1
	None	Browse	Node 2	2
	None	Browse	Node 3	3
	None	Browse	Node 4	4 .
Þ.	None	Browse	Node 5	5
	None	Browse	Node 6	6
	None	Browse	Node 7	7
	None	Browse	Node 8	8
	None	Browse	Node 9	9:
	None	Browse	Node 10	10

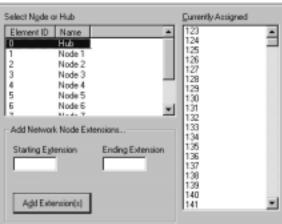
Network Links

Add Network Extension

The Add Network Extension window is a Hub system only window where you provide intercom numbers for validation purposes and either assign these numbers to nodes or remove numbers that you have previously assigned.

Note: This window only maps the allowed numbers. You must use intercom number programming at the hub and each node to assign station names and port numbers to intercom numbers. Further, to insure that the network feature operates properly, you must assign unique extension numbers at each system.

- 1. On the Networking menu, click Add Network Extension.
- 2. Highlight the Node or Hub to assign.
- 3. Under Add Network Node Extension, in the Starting Extension box, type the **starting extension number**.
- 4. Under Add Network Node Extension, in the Ending Extension box, type the **ending extension number**.
- 5. Click the Add Extension(s) button and the numbers will appear in the Currently Assigned box.



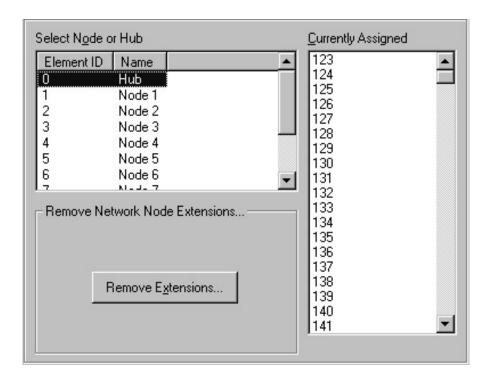
Add Network Extension

6. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

Remove Network Extensions

The Remove Network Extensions window is where you remove intercom numbers from a node.

- 1. On the Networking menu, click Remove Network Extension.
- 2. In the Currently Assigned box, highlight the numbers to remove.
- 3. Click the Remove Extensions button.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

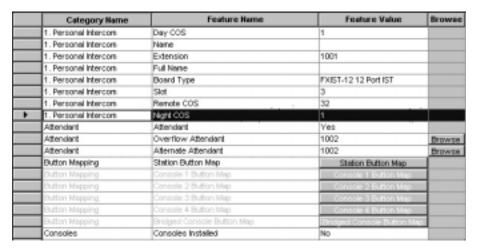


Remove Network Extensions

Understanding the Stations Window

The Stations window is where you customize the features of individual telephone stations to fit special user needs.

- 1. On the Programming menu, click Stations.
- 2. Highlight the station(s) to assign.
- 3. In the item(s) box on the tool bar, select the feature to edit.
- 4. In the Feature Value box, type the **value**, click the **drop down arrow**, or the **Button Map** button, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Stations

Understanding Station Menu Options

The Station menu contains the options to customize class of service from station hunt groups, and assign authorization codes.

Station Menu

1. On the Programming menu, click Station Menu.



Station Menu

Station <u>H</u>unting

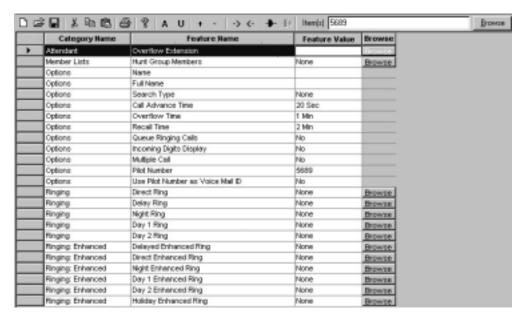
The Station Hunting window is where you configure a system feature, allowing any of several stations to service a call.

- 1. On the Station menu, click Station Hunting.
- 2. On the toolbar, click the **Add Items (+)** icon. Enter a valid **Pilot Number** on the Hunt Group Add screen. Click **OK**.
- 3. In the item(s) box on the tool bar, enter the pilot number of the existing hunt group.
- 4. Highlight the feature to apply.
- 5. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.



Entering Pilot Number

6. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

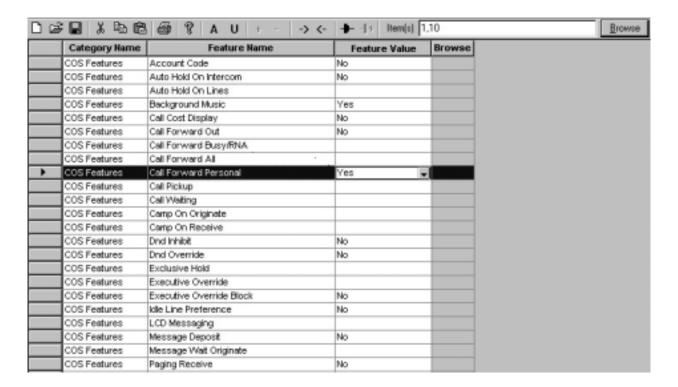


Station Hunting

Class of Service

The Class of Service window is where you assign a group of preprogrammed Class of Service station features to a station. The system makes up to thirty-two different classes of service available, and you can program the feature values differently in each.

- 1. On the Station menu, click Class of Service.
- 2. In the item(s) box on the tool bar, select the class of service to edit.
- 3. Highlight the COS feature to apply.
- 4. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Class of Service

Authorization Codes

The Authorization Codes window is where you provide system users the mobility to use their class of service on any telephone in the system.

- 1. On the Station menu, click Authorization Codes.
- 2. In the Authorization Codes menu, click **edit**, then select **Add Item** or click on the **Add Items (+)** button on the toolbar.
- 3. In the Authorization Code box, type the **authorization code**.
- 4. Click the Browse button to display a list of extensions.
- 5. Select the extension number from the list, then click **OK**.



Add Authorization Codes

6. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Authorization Codes	Extension	Browse
22369	1007	Browse
65432	1005	Browse
75759	1002	Browse

Authorization Code

Understanding the <u>L</u>ines Window

The Lines window allows you to select different operating parameters for each connected line. The digital communications system can use several types of lines, and each line type offers different programming options. Line programming allows you to select different operating parameters for each connected line.

- 1. On the Programming menu, click Lines.
- 2. In the **Item(s)** box type in the line number(s) to be changed or click on the **Browse** button to add / remove lines from the list, then click **OK**. Line(s) selected display in the Item box.
- 3. Highlight the feature to apply.
- 4. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 5. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

Understanding Line Menu Options



Lines

This Line menu contains the options that allow you to customize each telephone line to fit the needs of its user.

Note: DID lines are incoming only and have numbers assigned by the central office. These numbers are translated into intercoms based on the DID Block Translation Table.

Note: Outside callers may call directly into the system. DISA callers dial an authorization code allowing them to use the system's features normally available only to inside callers.

Line Menu

1. On the Programming menu, click Line Menu.

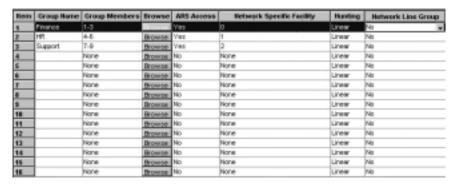


Line Menu

Line Groups

The Line Groups window is where you group similar type line ports together for dial-up access. There is a maximum of sixteen different line groups available. You can put all lines in one group or you can divide the total line capacity across all sixteen groups.

- 1. On the Line menu, click Line Groups.
- 2. Highlight the first blank line.
- 3. In the Group Name box, type the **name for the group**. Maximum of 7-characters.
- 4. Click Browse to add / remove group members in the Group Members box.
- 5. In the ARS Access box, click the **drop down arrow** to select from a list of options.
- 6. In the Network Specific Facility box, click the **drop down arrow** to select from a list of options.
- 7. In the Hunting box, click the **drop down arrow** to select from a list of options.
- 8. Click the Network Line Group box, click the **drop down arrow** to select from a list of options.
- 9. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

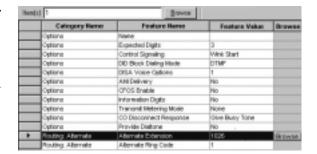


Line Groups

<u>D</u>ID Block Options

The DID Block Options' window is where you set the values for incoming Central Office (CO) calls to reach internal intercom extensions by direct dialing.

- 1. On the Line menu, click DID Block Options.
- 2. In the **Item(s)** box type in the line number(s) to be changed or click on the **Browse** button to add / remove lines from the list, then click **OK**. Line(s) selected display in the Item box.
- 3. Highlight the feature to apply.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.



DID Block Options

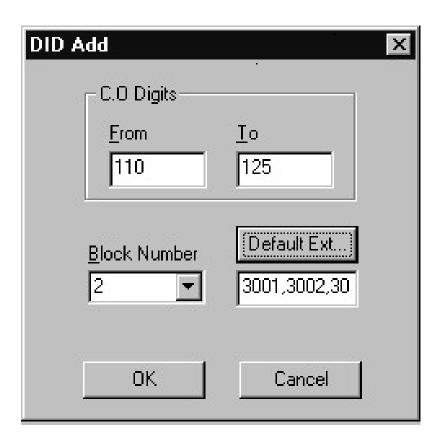
4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

DID Translation Table

The DID Translation Table is where you initialize a translation table. You must first enter the string of CO digits that you obtain from the telephone company.

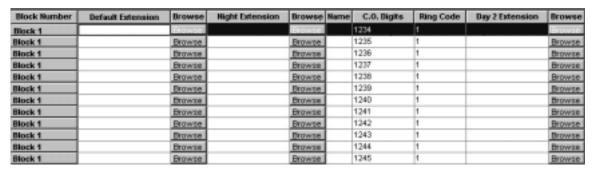
- 1. On the Line menu, click **DID Translation Table**.
- 2. In the DID Translation Table menu, click **edit**, then select **Add Item** or click on the **Add Items (+)** button on the toolbar to add the range of CO digits purchased. The DID Add dialog box appears
- 3. Under the CO Digits, in the From and To boxes, type in the range of numbers you purchased from the CO.
- 4. In the Block Number box, click the drop down arrow to select from a list of block numbers.
- 5. Click the Default Ext button and select the extension numbers from the Extensions Available for Selection list, click Add, then **OK**.
- 6. Click OK on the DID Add dialog box. The DID Translation Table appears. See page 58 for illustration.
- 7. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Note: You can modify the extension numbers on the DID Translation Table.

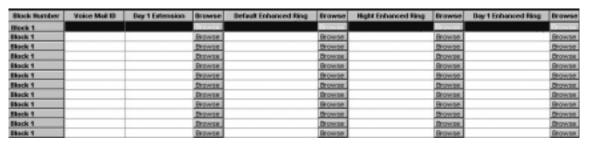


DID Add

Note: Due to the length of the DID Translation Table the writer split it into three sections for display purposes only.



DID Translation Table Part 1



DID Translation Table Part 2



DID Translation Table Part 3

DISA Configuration

The DISA Configuration window is where you program the DISA operation parameters to meet your site's requirements by configuring the features.

Note: DISA must be enabled.

- 1. On the Line menu, click DISA Configuration.
- 2. Highlight the feature to apply.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

	Category Name	Feature Name	Feature Value	Browse
•	Disa Configuration	Day Route Extension	None	Browse
	Disa Configuration	Night Route Extension	None	Browse
	Disa Configuration	Voice Mail Routing ID		
	Disa Configuration	Access Lockout Time	10 Min	
	Disa Configuration	RNA Rings	3	
	Disa Configuration	Max Reminder Timeout	10 Min	
	Disa Configuration	Route Invalid Calls	Drop	

DISA Configuration

Understanding the Group Intercoms Window

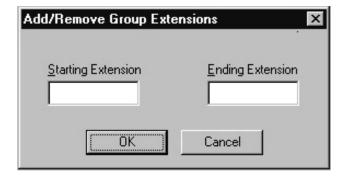
Group intercom numbers are those shared for use by several stations. Anytime someone calls a group intercom number, all stations assigned to the number rings.

Note: You must use the station programming to enable a station's ability to answer and originate calls on an intercom number.

Note: You must also map the button on a telephone at which the group intercom numbers are to appear.

Group Intercoms

- 1. On the Programming menu, click Group Intercoms.
- In the Group Intercoms menu, click edit, then select Add Item or click on the Add Items (+) button on the toolbar to add a range of group extensions.
- 3. In the Starting Extension box, type the starting extension number.
- 4. In the Ending Extension box, type the **ending extension number**.



Adding Group Extensions

- 5. Click OK.
- 6. To add a name and full name to the extension number, highlight the extension number line to add name and full name.
- 7. In the Name box, type the **display name** of the group. Maximum of 7-characters.
- 8. In the Full Name box, type the **complete name** of the group. Maximum of 20-characters.
- 9. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

	Name	Extension	Full Name
		3001	Jane Doe
		3002	John Doe
•		3003	
		3004	
		3005	
		3006	
		3007	
		3008	
		3009	
		3010	

Group Intercoms

Understanding SMDA / SMDR Menu Options

The system provides System Message Detail Accounting (SMDA) and System Message Detail Report (SMDR) information in an ASCII data format for printing on a printer or exporting into a database for processing. The SMDA report contains account code and call costing details that the SMDR does not contain.

SMDA / SMDR Menu

1. On the Programming menu, click SMDA / SMDR.

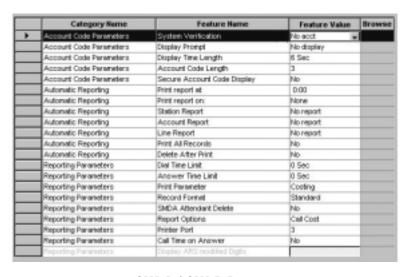


SMDA / SMDR Menu

SMDA / SMDR Reports

The SMDA / SMDR Reports window is where you arrange for the SMDR / SMDA parameters to convey the cost of calls that the stations make, the amount of time that lines have been on hold at the stations, or the metering pulse totals.

- 1. On the SMDA / SMDR menu, click SMDA / SMDR Reports.
- 2. Highlight the feature to apply.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.



SMDA / SMDR Reports

Account Codes

The Account Codes window is where you identify calls by category, so that VMMI can record costing by that category.

- 1. On the SMDA / SMDR menu, click Account Codes.
- 2. In the Account Codes menu, click edit, Item or click on the Add Items (+) button to add a range of account codes.
- 3. Under Add Account Codes, in the the **starting account number**.
- 4. Under Add Account Codes, the Count **count number**.



Add Account Codes

then select **Add** on the toolbar

Start box, type

box, type the

- 5. Click Apply button.
- 6. Click OK when finished adding account codes.
- 7. The Account Codes window displays the Account Codes.

	Acct Code
•	125
	126
	127
	128
	129
	130
	131
	132
	133
	134

Account Codes

Emergency Numbers

The Emergency Numbers window is where you list the designated emergency numbers. The system accepts a total of sixteen numbers, and each entry can have a maximum of sixteen digits.

- 1. On the SMDA / SMDR menu, click Emergency Numbers.
- 2. Highlight the line to modify.
- 3. In the Emergency Number box, type the **emergency number**.
- 4. In the Alarm Level box, click the **drop down arrow** to select from a list of options.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Item	Emergency Number	Alarm Level
1	911	None
2		None
3		None
4		None
5		None
6		None
7		None
8		None
9		None
10		None
11		None
12		None
13		None
14		None
15		None
16		None

Emergency Numbers

UCD Reports

The Uniform Call Distribution (UCD) Reports window provides information about call activity, which will permit better management of call center operations. You must activate the UCD Report when creating a New database to use this feature.

- 1. On the SMDA / SMDR menu, click UCD Reports.
- 2. In the Feature Name box, click on the **drop down arrow**, select yes to enable UCD.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

Category Name	Feature Name	Feature Value	Browse
Automatic Reporting	UCD Report Time	12:01	
Automatic Reporting	UCD Report Frequency	Daily	
Automatic Reporting	UCD Report Time Frame	Week	
Reporting Parameters	Printer Port	4	
Reports Parameters	UCD Auto-Report Enabled	Yes	
Reports Parameters	Summary Group Report	Yes	
Reports Parameters	Summary Station/Group Report	Yes	
Reports Parameters	Summary Group/Station Report	Yes	
Reports Parameters	Summary Line/Group Report	Yes	
Reports Parameters	Summary Group/Line Report	Yes	
Reports Parameters	Detailed Group Report	No	
Reports Parameters	Detailed Station Report	No	
Reports Parameters	Detailed Line Report	No	
Reports Parameters	UCD Collection Start Time	8:00	
Reports Parameters	UCD Collection End Time	11:59	2
Reports Parameters	UCD Enabled	Yes ▼	
Reports Parameters	Print Record	Yes	

UCD Reports

Understanding Toll / ARS Menu Options

The toll restriction feature allows or denies outgoing line calls to selected users over selected lines. The Automatic Route Selection (ARS) feature allows the system to automatically route a call over the least-costly line group available to that station.

Toll / ARS Menu

1. On the Programming menu, click Toll / ARS.



Toll / ARS Menu

Restriction Tables

The Restriction Tables provide for not only toll restriction but also automatic route selection.

- 1. On the Toll / ARS menu, click Restriction Tables.
- 2. Highlight the item to modify.
- 3. In the Restriction Level box, type the first character **value**, or click the **drop down arrow** to select from a list of options.
- 4. In the Exception Number box, type the first character **value**, or click the **drop down arrow** to select from a list of options.
- 5. In the Route Table box, click the **drop down arrow** to select from a list of options.
- 6. In the Number to Restrict box, type the **number to restrict**. Maximum 16-digits including 0-9, #, *, and wildcard symbol @.
- 7. In the Toll Groups box, type the **toll group number**.
- 8. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Rom	Restriction Level	Exception Humber	Route Table	Number To Restrict	Toll Groups
1	2 9	3	1	0	1
2	2	2	1	1@	1
3	2	1	1	a	1
4	Allow all	0	1	911	1
5	Allow all	0	1		1
£	Allow all	0	1		1
7	Allow all	0	1		1
	Allow all	i)	1		1
9	Allow all	0	1		1
18	Allow all	0	1		1
11	Allow all	0	1		1
12	Allow all	0	1		1
13	Allow all	0	1		1
14	Allow all	0	1		1
15	Allow all	0	1		1
16	Allow all	0	1		1
17	Allow all	0	1		1
18	Allow all	0	1		1
19	Allow all	0	1		1
29	Allow all	0	1		1
21	Allow all	0	1		1
22	Allow all	0	1		1
23	Allow all	0	1		1
24	Allow all	0	1		1
25	Allow all	0	1		1

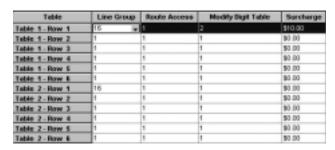
Restriction Table

Route Tables

There are thirty-two route tables. Each route table has six routes.

Note: Because the ARS feature interacts with the toll restriction feature, you must assign a route table (1-32) to the number that you entered in the toll restriction table before the system can do ARS.

- 1. On the Toll / ARS menu, click Route Tables.
- 2. Highlight the line to modify.
- 3. In the Line Group box, click the **drop down arrow** to select from a list of options.
- 4. In the Route Access box, click the **drop down arrow** to select from a list of options.
- 5. In the Modify Digit Table box, click the drop down arrow to select from a list of options.
- 6. In the Surcharge box, type the **surcharge amount**.
- 7. In the Tier 1 Time box, click the **drop down arrow** to select from a list of options.
- 8. In the Route Status box, click the **drop down arrow** to select from a list of options.
- 9. In the Tier 1 Cost box, type the **tier 1 cost amount**.



Route Tables Part 1

Tier 1 Time	Route Status	Tier 1 Cost	Tier 2 Cost
30 Sec	Active	\$15.00	\$20.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00
0 Sec	Not Active	\$0.00	\$0.00

Route Tables Part 2

- 10. In the Tier 2 Cost box, type the **tier 2 cost amount**.
- 11. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

Modify Digit Table

Each of the six routes in each route table requires a Modify Digit Table number index entry of one to 128. The system provides 128 different modify digit tables to detail any modifications that the system needs to do to the user-dialed number. The need for modification is determined by the type of lines that you include in the line group for the route. If a line group requires that the dialed number be in a specific format, you must set up an appropriate Modify Digit Table to create this format.

Note: Numerical sequence of the digits to be added (valid digits are zero to nine, * and # and the pause p digit) in a digit string.

Note: Number of digits to be deleted from the dialed number (this value can be from zero to ten).

Note: When ARS modifies the dialed number, it first deletes from the beginning of the number and then adds to the beginning of the number.

- 1. On the Toll / ARS menu, click Modify Digit Table.
- 2. Highlight the table to modify.
- 3. In the **Command to Process** box, to **Add Digits** type an **I** then the digits to add. To **Delete Digits** type a **D** then the digits to delete.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Table	Number of Digits to Delete	Digits to Add	Command to Process
1			
2	·		
3	;		
4	;		
5	;		
6	÷		
7	÷		
8	÷		
9	÷		
10	;		
11	;		
12	;		
13	;		
14	;		
15	:		

Modify Digit Table

Understanding Peripherals Menu Options

The Peripherals menu contains the options that allow you to program peripheral equipment. For example, Caller ID and Paging.

<u>P</u>eripheral Menu

1. On the Programming menu, click Peripherals.



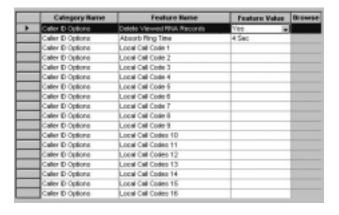
Peripheral Menu

Caller ID

The Caller ID window is where you set the Caller ID options. You can also assign Caller ID ring no-answer capability to the telephones that are on Caller ID lines.

Note: You must use System Programming to match the data baud rate with that of the Caller ID equipment (CID08). Use Line Programming to enable the Caller ID lines and use Station Programming to assign the lines to ring on the telephones.

- On the Peripherals menu, click Caller ID.
- 2. Highlight the Caller ID Options feature to modify.
- 3. In the Feature Value box, type the **value**, or if available, click the **drop down arrow** to select from a list of options.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Caller ID

Modem Settings

The Modem Settings window is where you set the internal modem parameters.

- 1. On the Peripherals menu, click Modem Settings.
- 2. Highlight the modem feature to modify.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

	Category Name	Feature Name	Feature Value	Browse
	Modem	Modern Pilot Number	5999	
	Modem	Modem Name	MODEM	
	Modem	Modem Direct Ring	None	Browse
	Modem	Modern Night Ring	None	Browse
	Modem	Modem Status	Enabled	
	Modem	Data Pipe Port	None	

Typical Modem Settings (FX System shown-other systems similar)

PC Attendant

The PC Attendant position is a computerized attendant operating position. In addition to the fixed keyboard features, you can use button mapping to assign additional features to the function keys along the top of the keyboard. You can also use button mapping to assign special buttons to system telephones so that they are compatible with the text messaging feature available with the PC Attendant. The system accepts four PC Attendants positions.

- 1. On the Peripherals menu, click PC Attendant.
- 2. In the item(s) box on the tool bar, select the PC Attendant position to edit.
- 3. Highlight the PC Att line to modify.
- 4. In the Feature Value box, type the **value**,
- 5. Highlight the Button Mapping line.
- 6. In the Feature Value box, click the Button Map button to display the Button Mapping window.

click the **drop down arrow**, or if available, click the **Browse** button to select from a list.

- 7. Place the cursor in the box you wish to modify.
- 8. Type in the **Feature Code**.
- 9. Press Enter on the keyboard.
- 10. Click Close when finished.
- 11. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

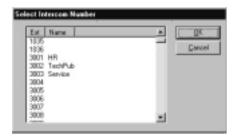
Note: The Button Mapping window graphically displays the DSS / BLF and keypad of the telephone or console installed at that station.

PC Attendant

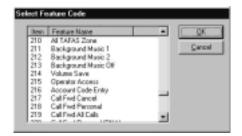
Voice / DVA

The Digital Voice Announce device (DVA) is an optional line-powered unit that connects to a digital station port and plays pre-recorded voice prompts and dialing instructions to incoming callers on the direct inward system access (DISA) lines.

- 1. On the Peripherals menu, click Voice / DVA.
- 2. Highlight the **DVA Message** to modify.
- 3. In the Digit Assignments box, click the **drop down arrow** and select the **digit assignment**.
- 4. Click the Extension button.
- 5. Select the **extension number** from the list.
- 6. Click OK.
- 7. Click Feature button.
- 8. Select feature to assign from the list.
- 9. Click OK.
- 10. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Voice / DVA Extension Options



Voice / DVA Feature Options



Voice/DVA

Pager Units

The Pager Units window is where you interface a digital communications system with the Tracker pagers.

1. On the Peripherals menu, click Pager Units.

Extension	Name	Number	Browse	Status	Model	Base Station
3001		None	Browse	Disabled	P1000	Base Station 1
3002	Ī	None	Browse	Disabled	P1000	Base Station 1
3003		None	Browse	Disabled	P1000	Base Station 1
3004		None	Browse	Disabled	P1000	Base Station 1
3005		None	Browse	Disabled	P1000	Base Station 1
3006		None	Browse	Disabled	P1000	Base Station 1
3007		None	Browse	Disabled	P1000	Base Station 1
3008		None	Browse	Disabled	P1000	Base Station 1
3009		None	Browse	Disabled	P1000	Base Station 1
3010		None	Browse	Disabled	P1000	Base Station 1

Pager Units

- 2. Highlight the value to modify.
- 3. In the Name box, type the name if one does not already appear.
- 4. In the Number box, click the Browse button to select from a list of options.
- 5. In the Status box, click the **drop down arrow** to select from a list of options.
- 6. In the Model box, click the **drop down arrow** to select from a list.
- 7. In the Base Station box, click the **drop down arrow** to select from a list of options.
- 8. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Pager Base Stations

You can connect Tracker base stations to the system directly through a serial data port or indirectly through a PC attendant position.

- 1. On the Peripherals menu, click Pager Base Stations.
- 2. Highlight the value to modify.
- 3. In the Base Station Serial Port box, click the **drop down arrow** to select from a list of options.
- 4. In the Base Station Status box, click the **drop down arrow** to select from a list of options.
- 5. In the Remotely Installed On box, click the **drop down arrow** to select from a list of options.
- 6. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Item	Base Station Serial Port	Base Station Status	Remotely Installed On
1	3	Disabled	None
2	3	Disabled	None
3	3	Disabled	None
4	3	Disabled	None

Pager Base Stations

Voice Mail Extension Table

The Voice Mail Extension Table is where you identify the station intercom number of each voice mail connection and link these numbers together to form a circular hunt group for call-handling purposes.

Note: To make the LCD readouts at the system telephones more descriptive during call transfers, use the intercom name feature found on the station programming general features menu to assign a descriptive name to the personal intercom numbers.

- 1. On the Peripherals menu, click Voice Mail Extension Table.
- 2. Highlight the Station to modify.
- 3. In the Voice Mail Extension box, click the Browse button to select from a list of extension numbers.
- 4. In the Forward to Extension box, click the Browse button to select from a list of extension numbers.
- 5. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

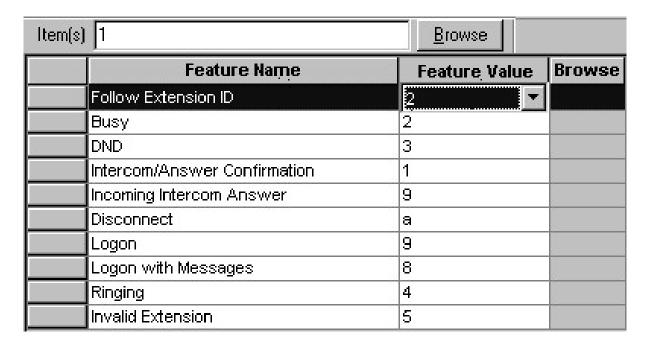
VM Station	Voice Mail Extension	Browse	Forward to Extension	Browse	Interface Device
1		Browse		Browse	
2		Browse		Browse	
3		Browse		Browse	
4		Browse		Browse	
6		Browse		Browse	
6		Browse		Browse	
7		Browse		Browse	
8		Browse		Browse	
9		Browse		Browse	
10		Browse		browse	
11		Browse		Browse	
12		Browse		Browse	
13		Browse		Browse	
14		Browse		Browse	
15		Browse		Browse	
16		Browse		Browse	
17		Browse		Browse	
18		Browse		Browse	
19		Browse		Browse	
20		Browse		Browse	
21		Browse		Browse	
22		Browse		Browse	
23		Browse		Browse	
24		Browse		Browse	
25		Browse		Browse	

Voice Mail Extension Table

Voice Mail Integration Digits

The Voice Mail Integration Digits window is where you choose the digits that the digital communications system sends to a voice mail system. The system defaults the voice mail parameters to match the Comdial voice mail system.

- 1. On the Peripherals menu, click Voice Mail Integration Digits Table.
- 2. Highlight the value to modify.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.



Voice Mail Integration Digits

Understanding the **Board Configuration Window**

The Board Configuration window is where you assign the board type to a particular cabinet slot.

- 1. On the Programming menu, click Board Configuration.
- 2. Highlight the slot to add the board.
- 3. In the Board Type box, click the **drop down arrow** button to select from a list of possible boards.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

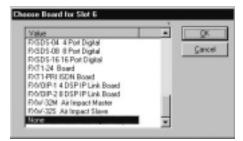
Slot	Board Type	Cabinet
1	DXPT1-24 24 port T1	Main Cabinet
2	DXPT1-PRI ISDN board	Main Cabinet
3	DXDST-16F1 16 port Digital	Main Cabinet
4	DXNET-E1 Network Board	Main Cabinet
5	DXPCO-GD8 8 port Multipurpose	Main Cabinet
6	DXAST-16-16 port Analog	Main Cabinet
7	DXPE1-30 E1 board	Main Cabinet
8	DXPCO-DD8M2 8 port DID	Main Cabinet
9	DXLPM-8 Metering Loop Start	Main Cabinet
10	DXPBRI-8T 16 port trunk	Top Cabinet
11	DXPE1-30 E1 board	Top Cabinet
12	Conference Card	Top Cabinet
13	None	Top Cabinet
14	None	Top Cabinet

Board Configuration

Understanding the Cabinet View Window

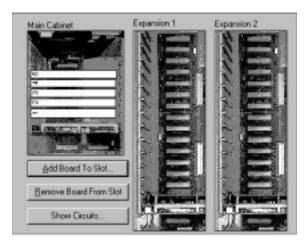
The Cabinet View window depicts the circuit boards installed in their current configuration. If you first use the Add Board To Slot to arrange the boards in the system, this window shows that arrangement. The following instructions are for adding a new board. To remove or move a board refer to the on-line help file.

- 1. On the Programming menu, click Cabinet View.
- 2. Highlight the desired slot.
- 3. Click Add Board To Slot button. The Choose Board For Slot # appears.
- 4. In the Value list box, click a Board Type.
- 5. Click **OK**.
- 6. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



Choose Board for Slot #

Note: Display the circuits for a specific board, highlight the board and click Show Circuits button.



FX Cabinet View Shown per Example

Understanding Boards Menu Options

The Boards menu contains the options that allow you to set arrangement, assign the name of station, line port locations associated with the boards, as well as program the parameters for the various types of boards.

<u>Bo</u>ards Menu

1. On the Programming menu, click Board Menu.



Board Menu

Station Port Locations

The Station Port Locations window lists all the station ports, the intercom assignment of each port, the installation slot location of each port, and the type of station board that provides each station port interface. The name and extension can be assigned on this window.

- 1. On the menu, click Station Port Locations.
- 2. Highlight the Station to modify.
- 3. In the Name box, type the **name**.
- 4. In the Extension box, type the **extension number**.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Station	n Name Extension		on Name Extension Board Type		Board Type	Slot
1	3	1234	DXDST-16F1 16 port Digital	3		
2	4	2345	DXDST-16F1 16 port Digital	3		
3	5	3456	DXDST-16F1 16 port Digital	3		
4	6	4567	DXDST-16F1 16 port Digital	3		
5			DXDST-16F1 16 port Digital	3		
6			DXDST-16F1 16 port Digital	3		
7			DXDST-16F1 16 port Digital	3		
8			DXDST-16F1 16 port Digital	3		
9			DXDST-16F1 16 port Digital	3		
10			DXDST-16F1 16 port Digital	3		

Station Port Locations

Line Port Locations

The Line Port Locations window lists all the line ports, the name assignment of each port, the installation slot location of each port, and the type of line board that provides each line port interface. The name assignment of each port can be assigned on this window.

- 1. On the menu, click Line Port Locations.
- 2. Highlight the line to modify.
- 3. In the Line Name box, type the **name**.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

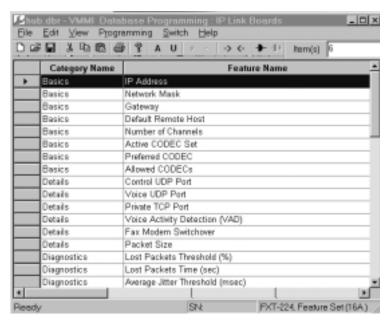
Line	Line Name	Board Type	Slot
1		DMPT1-24 24 port T1	1
2		DXPT1-24 24 port T1	1
3		DXPT1-24 24 port T1	1
4		DXPT1-24 24 port T1	1
5		DXPT1-24 24 port T1	1
6		DXPT1-24 24 port T1	1
7		DMPT1-24 24 port T1	1
8		DMPT1-24 24 port T1	1
9		DXPT1-24 24 port T1	1
10		DMPT1-24 24 port T1	1
11		DMPT1-24 24 port T1	1
12		DXPT1-24 24 port T1	1
13		DMPT1-24 24 port T1	1
14		DXPT1-24 24 port T1	1
15		DXPT1-24 24 port T1	1
16		DMPT1-24 24 port T1	1
17		DXPT1-24 24 port T1	1
18		DXPT1-24 24 port T1	1
19		DMPT1-24 24 port T1	1
20		DMPT1-24 24 port T1	1
21		DXPT1-24 24 port T1	1
22		DMPT1-24 24 port T1	1
23		DXPT1-24 24 port T1	1
24		DXPT1-24 24 port T1	1
26		DMPT1-PRHISDN board	2
26		DXPT1-PRHSDN locard	2
27		DXPT1-PftI ISDN board	2
28		DMPT1-PRHISDN board	2
29		DXPT1-PRHSDN locard	2
30		DXPT1-PRHSDN board	2

Line Port Locations

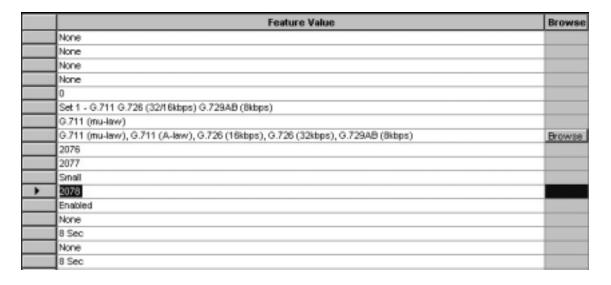
IP Link Boards

The IP Link Boards window allows you to modify the settings for networking between several Wide Area Network (WAN) Ethernet configurations.

- 1. On the Board menu, click IP Link Boards.
- 2. Highlight the **feature** to modify.
- 3. In the Feature Value box, type in the new value or if available click on the **Browse** button to select from a list.
- 4. Ind the Edit menu, click Apply, or click on the Apply symbol on the toolbar.



IP Link Boards Part 1



IP Link Boards Part 2

ISDN PRI Boards

The ISDN PRI Boards window is where you make choices that affect ISDN-PRI service. When you add a board in a board slot, that slot becomes programmable.

- 1. On the Board menu, click ISDN PRI Boards.
- 2. Highlight the value to modify.
- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

200	Category Name	Feature Name	Feature Value	Browse
•	PRI Board Programming	Protocol	NET5	-
	PRI Board Programming	Default Number		
	PRI Board Programming	Calling Number ID Mode	Default Number	
	PRI Board Programming	NFAS membership Mode	Non Member	
<u>)</u>	PRI Board Programming	Primary D-Channel Board	1	
),	PRI Board Programming	Interface Number	0	22
	PRI Board Programming	NFAS Group Members	None	Browse
	PRI Board Programming	Network Specific Facility	None	
<u>)</u> .	PRI Board Programming	Called Party Number	Subscriber	
),	PRI Board Programming	Calling Party Number	Unknown	
	PRI Board Programming	Local Tones	Enabled	

ISDN PRI Boards

ISDN BRI Interfaces

This feature is for DXP and DXP Plus systems only. It provides a way for subscribers to get digital service from the service provider for two telephones or a telephone and a data device over one special pair of wires.

- 1. On the Boards menu, click ISDN BRI Interfaces.
- 2. Highlight the Interface value to modify.
- 3. In each Option box, click the **drop down arrow** to select from a list of options.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.

Interface	Protocol	Default Number	Calling Number ID Mode	Network Specific Facility
Board 5, Interface 1	NET3		Default Number	None
Board 5, Interface 2	NET3		Default Number	None
Board 5, Interface 3	NET3		Default Number	None
Board 5, Interface 4	NET3		Default Number	None
Board 5, Interface 5	NET3		Default Number	None
Board 5, Interface 6	NET3		Default Number	None
Board 5, Interface 7	NET3		Default Number	None
Board 5, Interface 8	NET3		Default Number	None

ISDN BRI Interface Part 1

Called Party Number	Calling Party Number	Local Tones	Point to Point	Static TEI
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto
Unknown	Unknown	Disabled	Point to Multipoint	Auto

ISDN BRI Interface Part 2

IST Boards

The IST Boards window is where you add application flexibility for industry standard telephones, the hookswitch and pulse dial timing is programmable for each IST board that you install in the system.

- 1. On the Boards menu, click IST Boards.
- 2. Highlight the value to modify.
- 3. In the Feature Value box, type the **value**, or click the **drop down arrow** to select from a list of options.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.



IST Boards

Centrex Msg Wait Boards

The Centrex Msg Wait Boards window is where you filter out the Abbreviated Incoming Message Wait Ring.

- 1. On the Boards menu, click Centrex Msg Wait Boards.
- 2. Highlight the value to modify.



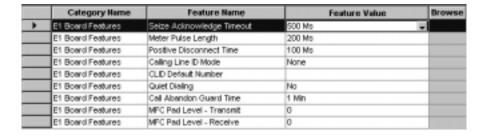
Centrex Msg Wait Boards

- 3. In the Feature Value box, type the **value**, click the **drop down arrow**, or if available, click the **Browse** button to select from a list.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

E1 Boards

The E1 Boards window is where you set the parameters for the E1 Boards.

- 1. On the Board menu, click E1 Boards.
- 2. Highlight the value to modify.
- 3. In the Feature Value box, type the **value**, or click the **drop down arrow** to select from a list of options.
- 4. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

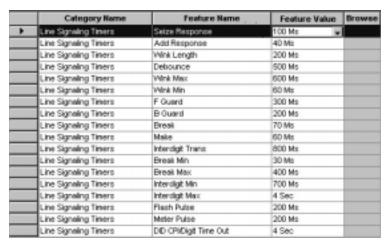


E1 Boards

Line Signaling Timers

The Line Signaling Timers window is where you set the parameters for using the Line Signaling Timers that define DID protocol for line types on the R2-DID line board and E&M protocol for lines that support E&M signaling on the E1 line board.

- 1. On the Boards menu, click Line Signaling Timers.
- 2. Highlight the value to modify.
- 3. In the Feature Value box, type the **value**, or click the **drop down arrow** to select from a list of options.
- 4. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



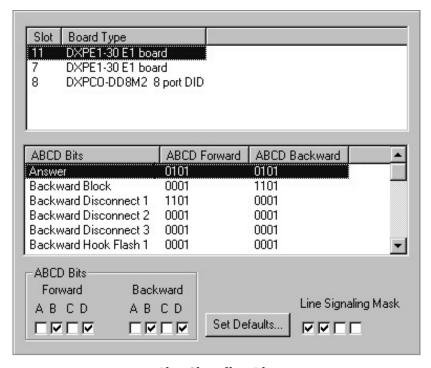
Line Signaling Timers

Line Signaling Bits

The Line Signaling Bits window is where you set the parameters for using the Line Signaling Bits that define DID protocol for line types on the R2-DID line board and E&M protocol for lines that support E&M signaling on the E1 line board. R2 type analog signaling is applicable in international applications.

- 1. On the Board menu, click Line Signaling Bits.
- 2. In the ABCD Bits box, click on the appropriate Forward and Backward options.
- 3. Click on the required boxes under Line Signaling Mask.
- 4. If you are unsure or wish to use preset defaults, click **Set Defaults** and choose either **Preselect 1** or **Preselect 2** under Protocol. Click **OK**.
- 5. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

Note: This option is for international use only.



Line Signaling Bits

PCTB Board Programming

The PCTB Board Programming window is where you set the parameters for PCTB boards. PC-based Telecommunications Bus (PCTB) circuit boards are a family of special-purpose circuit boards. Boards of this type provide conditioned voice paths and signaling methods that permit various Computer Telephony Interface (CTI) applications to interface between the PC and telephony portions of the FXS and FXT digital communications systems.

- 1. On the Board menu, click PCTB Board Programming.
- 2. Highlight the value to modify.
- 3. In the Master Clock box, click the drop down arrow to select from a list.
- 4. In the Bus Speed box, click the drop down arrow to select from a list.
- 5. In the Edit menu, click Apply, or click on the **Apply** symbol on the toolbar.



PCTB Board Programming

SC Bus Port Programming

The SC Bus interface board connects Computer Telephony Interface (CTI) applications between circuit boards in the PC and the telephony portion of the FXS and FXT systems (for example; network, voice, facsimile, speech recognition, video, and so forth to digital station ports and line ports). The SC Bus board does this through time division multiplexing (TDM) on the SC Bus.

- 1. On the Board menu, click SC Bus Port Programming.
- 2. Highlight the desired feature.
- 3. In the Port Type box, click the **drop down arrow** to select from a list of options.
- 4. In the OAI Link box, click the **drop down arrow** to select from a list of options.
- 5. In the Edit menu, click Apply, or click on the Apply symbol on the toolbar.

	Port Type	OAI Link	Transmit Timeslot	Receive Timeslot	Logical Port	Slot	Circuit
M	Station 🐷	1	None	None	21	7	1
	Station	None	None	None	22	7	2
	Station	None	None	None	23	7	3
	Station	None	None	None	24	7	4
	Station	None	None	None	25	7	5
	Station	None	None	None	26	7	6
	Station	None	None	None	27	7	7
	Station	None	None	None	28	7	8
	Station	None	None	None	29	7	9
	Station	None	None	None	30	7	10
	Station	None	None	None	31	7	11
	Station	None	None	None	32	7	12
	Station	None	None	None	33	7	13
	Station	None	None	None	34	7	14
	Station	None	None	None	35	7	15
	Station	None	None	None	36	7	16

SC Bus Port Programming

Understanding the Switch Menu Options

The Switch Menu contains options that allow you to do several system related operations (for example, change passwords and archive and restore databases).

Switch Menu

1. On the Switch menu, click **Connect To** in order to activate this menu.

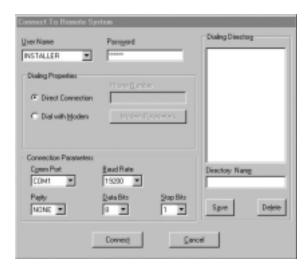


Switch Menu

Connect To

The Connect To window is where you connect to a remote system.

- 1. On the Switch menu, click Connect to.
- 2. In the User Name box, select Installer or Administrator.
- In the Password box, type your password.
- 4. Under Dialing Properties, select Direct Connection.
- 5. Under Connections Parameters, type the **parameters** in the appropriate boxes.
- 6. Click Connect.



Connect To

Disconnect

This window is where you disconnect from the remote system.

1. On the Switch menu, click Disconnect.

Archive Database

Refer to page 11 - Archive a Database.

Restore Database

Refer to page 12 - Restore a Database.

Change System Password

The Change System Password option is where you change the program entry password for both the installer and the administrator.

- 1. On the Switch menu, click Change System Password.
- 2. In the User Name box, select Installer or Administrator.
- 3. In the Current Password box, type your **current** password.
- 4. In the New Password box, type your **new password**.
- 5. Click OK.



Change System Password

Change System Time

The system clock provides time and date information for display on the LCD and SMDA / SMDR timing and reporting.

- 1. On the Switch menu, click Change System Time.
- 2. In the New Time/Date box, click the **drop down arrow** for each option to be changed.
- 3. Click OK.



Changing System Time

Reset System

Times may arise when you need to reset your digital communication system.

- 1. On the Switch menu, click **Reset System**.
- 2. You will receive a message box warning that "You are about to perform a System Software Reset. This operation will reset the system and disconnect the VMMI. Reset the system software now?," click **OK**.
- 3. If necessary to reconnect, on the Switch menu, click Connect to.

System Key Wizard

The System Key wizard allows you to view or modify the system software key. To view current software key features:

- 1. On the Switch menu, click **System Key Wizard**.
- 2. Click Next.
- 3. A box will display showing you, which software feature set as well as the standalone features that are enabled.
- 4. Click **Cancel** to exit this screen or click **Back** to enter a New Software Key.
- 5. Click on the **Provide a New Key** box, then type in the **new software key number**.
- 6. Click Next.
- 7. A box will display showing you, which software feature set as well as the standalone features that will be enabled.
- 8. Click **Finish** to install the key. The system resets after the new key is installed.



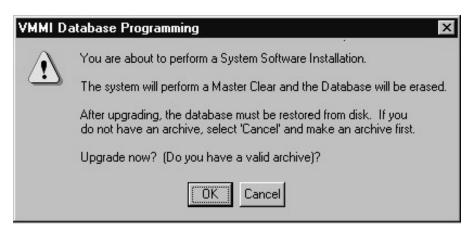
System Key Wizard



Display Box

System Software Upgrade

This option allows you to update your system software for the DXP, DXP Plus, FXS and FXT Feature Set and Release Number when necessary. After you click on the **System Software Upgrade** feature on the Switch menu, you will see a warning box. Carefully read the message box before proceeding. Detailed information can be found in the help file under **Switch | System Software Upgrade**.



System Software Upgrade Warning

Reset Boards

Provides a means for you to remotely reset T1, T1-PRI, T1-NET and IP Link line boards. This feature alleviates the need to travel to a remote site simply to reset a board.

- 1. On the Switch menu, click Reset Boards.
- 2. A dialog box will pop-up that reads "Please enable board reset first in order to see the selectable boards here." Click on the box so that a check mark appears.
- 3. Select the board you wish to reset from the list, click **Reset**.
- 4. The selected board will be reset automatically.



Reset Boards



Reset Boards Dialog Box

ISDN Card Software Upgrade

Allows you to upgrade the software on the DXPRI card with new software issued by Comdial.

- 1. On the Switch menu, click ISDN Card Software Upgrade.
- 2. Select the Board Slot for the Firmware Download, click OK.
- 3. The following message box will appear as a reminder, click OK.





Board Slot for the Firmware Download

- 4. Locate the *.bin file that you obtained from Comdial and loaded onto your PC.
- 5. Follow the screen prompts to complete the software upgrade.

IP Link Software Upgrade

Used to program the software upgrades for the Voice over Internet Protocol (VoIP) board. While you can perform the VoIP software upgrade remotely through a modem and the IP network, it is normally programmed while, on site and with your PC directly connected to the communications system and the Wide Area Network (WAN). For details on programming the VoIP board, see the help topic entitled, IP Link Boards.

Clear Line Problem Counters

You can mark a line that is not functioning properly as a problem line. You do this by dialing a feature code or by pressing a preprogrammed button. After you have marked a problem line for the number of times selected, the system takes the line out of service, logs the condition for printout and display, and triggers an alarm.

1. On the Switch menu, click Clear Line Problem Counters to reset the counters.

Modify Number of Speed Dials

The Modify Number of Speed Dials allows you to increase the number of speed dial numbers available from 500 or 1000. If you are running Release 180 or later software, then you can set the system for a maximum of 2000 speed dial numbers. Remember, though that choosing the larger speed dial capacities reduces slightly the number of SMDR records that the system can store.

- 1. On the Switch menu, click Modify Number of Speed Dials.
- 2. An Information message will appear informing you that "The current system speed dial information will be lost.," click **OK**.
- 3. Choose the modified number of speed dials needed, click **OK**.
- 4. A Warning message will appear stating that, "The system will reset if the command is successful. Do you want to continue?," click **OK**.
- 5. VMMI will update, than you will need to reconnect to the system.



Speed Dial Information Message



Modified Number of Speed Dials

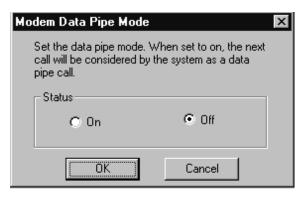


Speed Dial Warning Message

Modem Data Pipe Mode

The Modem Data Pipe Mode allows access to the FX system computer from a remote PC, using , and having that remote PC connected to the FX system.

- 1. On the Switch menu, click Modify Data Pipe Mode.
- 2. Under Status, select On or Off.
- 3. Click OK.



Modem Data Pipe Mode

Understanding \underline{F} ile Menu Options

The File menu contains standard file options (New, Open, Close and Save). In addition, the File menu contains the Master Clear and Print options.

File Menu

New

The New option affords you the opportunity to create a new database. VMMI presents you with a dialog box that lets you specify the data communications system for the new database that you are creating and the master clear mode you wish the system to use.

- 1. On the File menu, click **New**.
- 2. In the Platform box, click the **drop down arrow** to scroll through the list and highlight your selection.
- 3. In the Master Clear Mode box, click the **drop down arrow** to select from a list of options.
- 4. Click Next.
- 5. In the Feature Set box, click on the **drop down arrow** to select the correct feature set being used. If you are using a DXP platform, click **Finish**.
- 6. If you are using an FX platform, click in the box next to the appropriate standalone features, click **Finish**.



New Database



Using a FX Platform

Master Clear

The Master Clear option returns the entire system to the selected default operating parameters, clears all stored speed dial numbers, and clears any other custom programming.

- 1. On the File menu, click Master Clear.
- 2. Click the OK button on the Warning dialog box.
- 3. In the System Mode box, click the **drop down arrow** to select from a list of options.
- 4. Click OK. You will then need to reconnect.



Master Clear

Print

If you have a printer connected to your computer, you can make a hard copy printout of a programming menu after you make your programming choices.

- 1. On the File menu, click Print.
- 2. Select the items to print from the Unselected Items list.
- 3. Click Add.
- 4. Click Print.



Print

Understanding Edit Menu Options

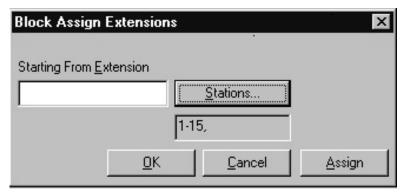
The Edit menu contains options that allow you to apply your changes, undo recent changes made, add an item, remove an item, and copy items. In addition it also allows you to block assign extensions, assign defaults, and find items on the current page.

Edit Menu

Block Assign Extensions

The Block Assign Extensions window lets you assign a block of extension numbers to specific station ports.

- 1. On the Edit menu, click Block Assign Extensions.
- 2. In the Starting From Extension box, type the starting from extension number.
- 3. Click the Stations button to select from a list of extensions.
- 4. Click OK.

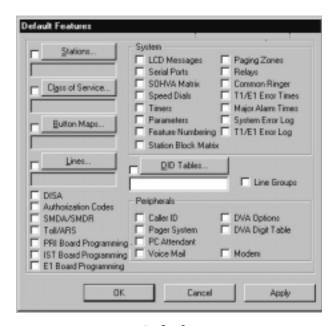


Block Assign Extensions

Defaults

The Defaults window is where you set default parameters for VMMI.

- 1. On the Edit menu, click Defaults.
- 2. Select the desired defaults.
- 3. Click OK.



Defaults

Find (on this page)

The Find (on this page) window lets you do a search on the current page only.

- 1. On the Edit menu, click Find (on this page).
- 2. Type in the word or words that you are trying to find.
- 3. In the Direction box, click on the direction you want to search in.
- 4. Click on the find next button.
- 5. Repeat steps 2–4 to start a new search.
- 6. Click cancel to exit.



Using Find (on this page)

Understanding Help Menu Options

Help Menu

Contents (On-line Help)

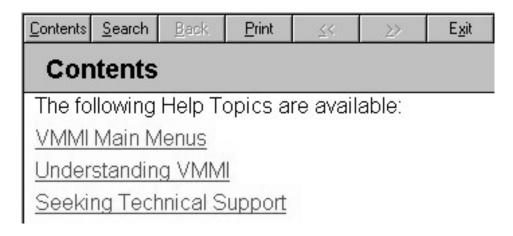
A detailed on-line help file accompanies the programming menus. The on-line help files are accessible from all windows by selecting Help from the menu bar and then selecting Contents. On-line help files always start at the Main Contents Menu where you can navigate to the appropriate discussion windows to provide the technical information that you need. These discussion windows may include green-colored words and phrases that you can click on to expand the technical discussion or to open other related help files.

Anytime, you click on the Contents button you will return to the Main Contents Menu. From this menu, you can click on a topic to open any discussion window that you wish to read.

The discussion windows provide a Search button for your use. When you click on the Search button, the help file opens a subject menu that you can scroll through as you search for a particular topic that you need help with. Once you find the topic, you can click on it to jump directly to its discussion.

Often, the discussion windows provide additional jump paths that allow you to quickly review related topics. These jump paths may take several forms. They may appear as separate large windows that you can scroll through as you read the information, or they may appear as small windows that appear in the middle of the window that you are currently viewing. When you finish reading the information in the large windows, return to the starting point by clicking on the Back button as often as necessary. Exit the small windows by clicking once outside the borders. If you wish completely to leave the help file when you finish using it, do so by clicking on the Exit button that is on the button bar.

Sometimes you may also want a hard copy of the help file. If so, you can press the Print button on the help dialog to obtain the printout. You can only print one topic at a time.



Contents

Tip of the Day

Each time this screen is displayed you will receive a new and useful tip. You have the option of having a tip show each time you startup VMMI. If you are looking for a particular subject area you can keep clicking on the **next tip** button to scroll through a variety of tips. When you are finished simply click on the **close** button.



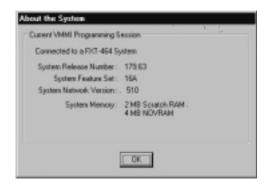
Tip of the Day

About System

This will provide you with information concerning your current VMMI programming session.

- Type of database being programmed.
- Online or Offline mode.
- System Release Number
- System Feature Set

To exit this screen, click OK.



About System

About VMMI

You will find information on the current VMMI software release number you are programming in. Also listed is the latest Comdial supported feature set of software being run. To exit this screen, click **OK**.



About VMMI

<u>Notes</u>

Index GCA40-182

Index

Centrex Msg Wait Boards , 79

A	Change System Password , 84		
— About System , 93	Change System Time , 84		
About VMMI , 93	Class of Service , 53		
Account Codes , 62	Clear Line Problem Counters , 87		
Add Network Extension , 49	COM Port Cable , 18		
Archive Database , 83	COM1 Serial Data Port , 5		
Authorization Code , 54	Connect To , 83		
Automatic Route Selection (ARS) , 64, 65	Connections		
, ,, ,	Physical , 5, 6, 7, 8		
	Programming , 9		
<u>B</u>	Contact Comdial Representative , 14		
Baud Rate , 7	CTI Application		
Block Assign Extensions , 90	Install , 17		
Board Configuration , 73	CTI Applications		
Board Menu , 74, 75, 76, 77, 78, 79, 80, 81, 82	Loading , 17		
Boards			
Centrex Msg Wait , 79	D		
ISDN BRI , 78	<u>D</u>		
ISDN PRI , 77	Data Format		
IST , 79	Data , 7		
Boards Menu	Default , 8		
Centrex Msg Wait Boards , 79	Database		
E1 Boards , 80	Archive , 11, 83		
ISDN BRI Boards , 78	Converting DXP , 20		
ISDN PRI Boards , 77	Restore, 12, 83		
IST Boards , 79	Store Current DXP , 20		
Line Port Location , 75	Translate DXP , 26, 27, 28, 29		
Line Signaling Bits , 81	Translate to Common Code Base , 25		
PCTB Board Programming, 82	Defaults , 90		
SC Bus Port Programming , 82	DID Block Options , 56		
Station Port Locations , 75	DID Protocol , 80, 81		
	DID Translation Table , 57		
_	DISA Configuration, 59		
<u>C</u>	DISA Operation Parameters , 59		
Cabinet View , 74	Disconnect, 83		
Caller ID , 67	DXCPU-68K , 22		
Cards	DXP, 8, 20, 21, 22, 23, 26, 27		
Installing in DXP , 22	DXP Plus , 7, 19, 28		

GCA40-182 Index

DXPCPU-68K, 21 DXPCPU-68KJ, 22 \boldsymbol{K} DXPSW-DLRC, 22 Key Update Utility Program, 18 DXPSWQ-DLRC, 20 DXRAM-EXPC, 20, 22 DXSRV, 21 L LCD Messages, 39 Line Groups, 56 $oldsymbol{E}$ Line Menu, 55, 56, 57, 58, 59 Equipment Needs, 2 DID Block Options, 56 E&M Protocol, 80, 81 DID Translation Table, 57 E1 Boards, 80 DISA Configuration, 59 Emergency Numbers, 62 Line Groups, 56 Enhanced Ringing, 44 Line Port Locations, 75 Enhanced Ringing Holidays, 47 Line Signaling Bits, 81 Enhanced Ringing Options, 47 Loading VMMI, 3 External Pagers, 44 M Major Alarms, 46 Feature Numbers, 45 Master Clear, 21, 89 File Menu, 34 Menu Bar, 32 Filtering Out the Abbreviated Incoming Message Wait Ring, Menu Bar Understanding, 32 FX System, 13, 14, 15, 16, 17, 18 Menus Boards, 74, 75, 76, 77, 78, 79, 80, 81, 82 File, 34 G Line, 55, 56, 57, 58, 59 Group Intercoms, 60 Peripheral, 67, 68, 69, 70, 71, 72 Programming, 36 SMDA/SMDR, 61, 62, 63 \boldsymbol{H} Station, 51, 52, 53, 54 Help Switch, 37, 83, 84, 85, 86, 87 On-line, 92 System, 39 Printing, 92 Toll / ARS, 64, 65, 66 Hub , 48 View, 35 Modem Settings, 68 Modify Data Pipe Mode, 88 IP Link Software Upgrade, 87 Modify Digit Table, 66 ISDN / BRI Interface Board, 78 ISDN Card Software Upgrade, 86 N ISDN PRI Boards, 77 Network Properties, 48 IST Boards, 79 Networking Menu Add Network Extension, 49

Index GCA40-182

	Network Links , 49	Programming
	Network Properties , 48	PCTB Board , 82
	Node Configuration , 48	SC Bus Port , 82
	Remove Network Extensions , 50	Programming Menu , 36
Node	·	
	Hub , 48	_
	QSIG , 48	<u>R</u>
Node (Configuration , 48	R2-DID , 80, 81
		Relays , 44
_		Remove Network Extensions , 50
<u>o</u>		Reports
On-line	e Help , 92	SMDA/SMDR, 61
	Printing, 92	Reset Boards , 86
		Reset System , 84
P		Restore Database , 83
_	I. i. 70	Restriction Tables , 64
•	Jnits , 70	Ringer Assignment , 44
	Zones , 43	Route Tables , 65
Parame		RS-232 1 , 8
	Default Operation 80	RS-232 2 , 8
	Default Operation 59	
	DISA Operation , 59	S
	E1 , 80	-
	Line Signaling Timers , 80	SC Bus Port Programming , 82
	PCTB, 82	Serial Ports , 40
	System , 43	SMDA/SMDR , 20 SMDA/SMDR Menu , 61, 62, 63
Passwo	Voice Mail , 72	Account Codes , 62
	endant, 68	Emergency Numbers , 62
	WHERE , 5	SMDA/SMDR Reports , 61
•	Database Programming Software , 25	SMDA/SMDR Reports , 61
	loard Programming , 82	SOHVA Table , 40
	eral Menu , 67, 68, 69, 70, 71, 72	Speed Dials , 42
	erals Menu	Station Block Table , 41
rempire	Modem Settings , 68	Station Hunting , 52
	Pager Base Station , 70	Station Menu , 51, 52, 53, 54
	Pager Units , 70	Authorization Code , 54
	PC Attendant , 68	Class of Service , 53
	Voice Mail Extension Table , 71	Station Hunting , 52
	Voice Mail Integration Digits Table , 72	Station Port Locations , 75
	Voice/DVA , 69	Stations, 51
Pipe M		Switch Menu , 37, 83, 84, 85, 86, 87
	Modify Data , 88	Change System Password, 84
Print, 8	•	Change System Time , 84
	• •	Change System Time, 04

GCA40-182 Index

Clear Line Problem Counters , 87	Boards Menu , 74, 75, 76, 77, 78, 79, 80, 81
Connect To , 83	82
Disconnect, 83	Cabinet View , 74
Modify Data Pipe Mode , 88	Defaults , 90
Restore Database , 83	File Menu , 34
System Key Wizard , 85	Group Intercoms , 60
System Menu , 39	Line Menu , 55, 56, 57, 58, 59
Enhanced Ringing Holidays , 47	Lines , 55
Enhanced Ringing Options , 47	Master Clear , 89
External Pagers , 44	Menu Bar , 32
Feature Numbers , 45	On-line Help , 92
LCD Messages , 39	Peripheral Menu , 67, 68, 69, 70, 71, 72
Major Alarms , 46	Print, 89
Paging Zones , 43	Programming , 31
Relays , 44	Programming Menu , 36
Serial Ports , 40	SMDA/SMDR Menu , 61, 62, 63
SOHVA Table , 40	Starting , 31
Speed Dials , 42	Station Menu , 51, 52, 53, 54
Station Block Table , 41	Stations , 51
System Parameter , 43	Switch Menu , 37, 83, 84, 85, 86, 87
T1/E1 Alarms , 45	System Menu , 39
Timing , 43	Toll / ARS Menu , 64, 65, 66
System Parameters , 43	Toolbar , 33
System Software	View Menu , 35
Enabling Details , 14	Voice Mail , 16
System Time , 84	Voice Mail Extension Table , 71
	Voice Mail Integration Digits Table , 72
	Voice/DVA , 69
T	
T1/E1 Alarms , 45	
Timing, 43	<u>X</u>
Tip of the Day , 93	XMODEM, 20
Toll / ARS Menu , 64, 65, 66	
Modify Digit Table , 66	
Restriction Tables , 64	
Route Tables , 65	
Toolbar , 33	
77	
<u>v</u>	
View Menu , 35	
VMMI	

Block Assign Extensions , 90 Board Configuration , 73 This manual has been developed by Comdial Corporation (the "Company") and is intended for the use of its customers and service personnel. The information in this manual is subject to change without notice. While every effort has been made to eliminate errors, the Company disclaims liability for any difficulties arising from the interpretation of the information contained herein.

The information contained herein does not purport to cover all details or variations in equipment or to provide for every possible contingency to be met in connection with installation, operation, or maintenance. Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's purposes, contact Comdial, Inside Sales Department, Charlottesville, Virginia 22906.



P.O. Box 7266
Charlottesville, VA
22906-7266
I-800-COMDIAL
www.comdial.com

GCA40—182.05 02/01 Printed in U.S.A.