NEC

Work Off-Line
- Set up a new database or modify a previously saved database (without being connected to the telephone system). This helps minimize on-site programming time.

Work On-Line (connected directly or via modem)
- Program your system via the PC, in lieu of using the telephone programming.
- Download a database *from* the telephone system which you can modify. Then, save the database to a file on your PC or upload the changes back into the phone system. ***Be sure to download the entire database before saving it.***
- Upload a new database *to* the telephone system.

New	**Off-line:**	This is the same as using *File: New* from the menu bar (see page 3-3). • Opens a *new* (default) database. The first time you use this option, you must specify a region (U.S. or Latin America). ***Always select U.S.***
	On-line:	• Not available.
Open	**Off-line:**	This is the same as using *File: Open* from the menu bar (see page 3-4). • Opens an *existing* (previously saved) database. You cannot connect to the system after opening a database off-line.
	On-line:	• Opens an *existing* database and immediately uploads into the telephone system, ***overwriting the current phone system data***.
Save	**Off-line:**	This is the same as using *File: Save* from the menu bar (see page 3-7). • Saves the currently open database to a file on your PC hard disk. For a new database, you will be prompted to enter a name.
	On-line:	• Saves the currently connected system's database to a file on your PC hard disk. You will be prompted to download the connected system's entire database before saving, if required.
Direct	**Off-line:**	This is the same as using *Connection: Online* from the menu bar (see page 3-80). See page 1-2 to learn how to make a direct connection. • While on-site, directly connect to the telephone system. This option is not available while an off-line database is open.
	On-line:	• Not available.
Remote	**Off-line:**	This is the same as using *Connection: Remote* from the menu bar (see page 3-81). See page 1-5 to learn how to make a modem connection. • While off-site, remotely connect to the telephone system via modem. This option is not available while an off-line database is open.
	On-line:	• Not available.
Break	**Off-line:**	This is the same as using *Connection: Break* from the menu bar (see page 3-83). • Close your open file and return to the opening screen. You will be prompted to save any unsaved data.
	On-line:	• Break your connection and return to the opening screen. You will be prompted to save any unsaved data.
Download	**Off-line:**	• Not available
	On-line:	• While on-line, download the entire database from the telephone system.

1. Connecting the PC
2. Installation and Start-up
3. Programming

DS1000/2000 PC Program User's Guide (01.01.05)

The PC Program requires version 03.**.** system software, CPU P/N 80025B (in DS2000), and cabinet P/N 80200A (in DS1000). For additional resources, visit our Technical Support site on the web at **http://ws1.necii.com/ds2000**.

This manual has been developed by NEC America, Inc. It is intended for the use of its customers and service personnel, and should be read in its entirety before attempting to install or program the system. Any comments or suggestions for improving this manual would be appreciated. Forward your remarks to:

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Chapter 1: Connecting the PC 1-1
Directly Connecting the PC to the Telephone System 1-1
Overview 1-1
Directly Connecting to DS1000 1-2
Directly Connecting to DS2000 1-2
Testing the Connection 1-4
Checking the System's Serial Port Settings 1-4
Connecting a Modem to the Telephone System 1-5
Overview 1-5
Connecting a Modem to DS1000 1-5
Connecting a Modem to DS2000 1-6
Making Data Cables 1-7
Making Your Own Data Cables 1-7

Chapter 2: Installation and Start-up 2-1
Installing the PC Program 2-1
Minimum Requirements 2-1
Installation 2-2
Starting the PC Program 2-4
Initial Start-up 2-4
The PC Program Components 2-5
Menu Bar 2-5
File 2-5
Programming 2-6
Tools 2-6
Connection 2-6
Help 2-7
Button Bar 2-8
New 2-8
Open 2-9
Save 2-9
Direct 2-9
Remote 2-10
Break 2-10
Download 2-10
Programming Shortcuts 2-10
System 2-10
Ports 2-10
Stations 2-11
Trunks 2-11
Extension Numbering 2-11
Toll Restriction 2-11
DSS Console 2-11
System Speed Dial 2-11
Voice Mail 2-11
Program Area 2-12
Programming the Telephone System 2-13
Programming Strategies 2-13

Sending Individual Changes 2-13
Creating and Sending an Entire Database 2-13
Retrieving a Database 2-14
Importing Data from a Saved Database 2-14

Chapter 3 Programming 3-1
Overview 3-1
PC Programming Basics 3-1
How to use this Chapter 3-1
Programming Tips 3-2
Shortcuts 3-2
When Connecting to a Telephone System 3-2
File 3-3
New 3-3
Open 3-4
Close 3-6
Save 3-7
Save As 3-8
Import 3-9
Properties 3-11
Exit 3-12
Programming 3-13
System 3-13
System Toolbar Controls 3-13
Options 3-14
Setup 3-14
Options 3-15
Messages 3-15
Password 3-16
Ring Tones 3-16
Ring Sets 3-17
Ring Over Page 3-17
PBX Codes 3-18
Class of Service (COS) 3-19
Attendant 3-19
Stations 3-19
Single Line Telephones (SLTs) 3-20
Caller ID 3-20
Distinctive Ringing 3-21
Call Forwarding 3-21
Toll Restriction 3-22
Account Codes 3-22
Trunks 3-23
Paging 3-23
Account Codes (Accounts) 3-24
Trunk Groups 3-24
Timers 3-25
System Timers 3-25
Trunk Timers 3-25
Station Timers 3-26
T1/E1 Timers (1 of 3) 3-26

T1/E1 Timers (2 of 3) 3-27
T1/E1 Timers (3 of 3) 3-27
Caller ID 3-28
Options 3-28
HNPA Codes 3-28
HNPA Exceptions 3-29
FNPA Exceptions 3-29
Direct Inward Dialing (DID) 3-30
Ports (DS2000) 3-31
Hardware Toolbar Controls 3-31
Slot Status 3-32
Slot 1 through Slot 8 3-32
Swapping Slots 3-33
Ports (DS1000) 3-34
Hardware Toolbar Controls 3-34
Digital Ports 3-34
Analog Ports 3-35
Door Boxes 3-35
Trunk Ports 3-36
Stations 3-37
Station Toolbar Controls 3-37
Setup 3-39
Stations 3-39
Options 3-40
Trunk Access 3-40
Stations 3-40
Ring Assignments 3-41
Programmable Function Keys 3-41
DSS Keys 3-42
Speed Dial (Personal) Bins 1-10 3-43
Speed Dial (Personal) Bins 11-20 3-44
Mailbox 3-45
Trunks 3-46
Trunk Toolbar Controls 3-46
Setup 3-48
Options 3-48
Trunk Access 3-49
Extension Numbering 3-50
Numbering Toolbar Controls 3-50
System Numbering 3-51
Numbering Plan 3-51
UCD Hunting Group Numbering 3-51
Ring Group Numbering 3-52
Station Numbering 3-52
Station Numbering 3-52
Voice Mail Numbering 3-53
Trunk Numbering 3-53
Toll Restriction 3-54
Toll Restriction Toolbar Controls 3-54
Options 3-55
Equal Access 3-55
1 + NPA 3-56

1 + Six Digit . . . 3-56
NPA/NXX . . . 3-57
Six Digit . . . 3-57
DSS Console . . . 3-58
DSS Console Toolbar Controls . . . 3-58
Keys 1-60 and Keys 61-110 . . . 3-59
System Speed Dial . . . 3-60
System Speed Dial Toolbar Controls . . . 3-60
System Speed Dial Numbers . . . 3-61
Voice Mail . . . 3-62
IntraMail Toolbar Controls . . . 3-62
Voice Mail Setup . . . 3-63
Voice Mail Setup . . . 3-63
Voice Mail Outgoing Trunk Access . . . 3-63
IntraMail System Options . . . 3-64
IntraMail Master Mailbox Options . . . 3-64
IntraMail Routing Mailboxes . . . 3-65
IntraMail Answer Tables . . . 3-65
IntraMail Dial Action Tables . . . 3-66

Tools . . . 3-67
Initialize Toll Restriction . . . 3-67
Online Utilities: PC Card Load/Save . . . 3-68
Online Utilities: Reset Station Port . . . 3-73
Online Utilities: Initialize Caller ID Log . . . 3-74
Online Utilities: Reset System . . . 3-75
Online Utilities: Initialize System . . . 3-76
Options: General . . . 3-77
Options: Communications . . . 3-78
Options: Modem . . . 3-79

Connection . . . 3-80
Online . . . 3-80
Remote . . . 3-81
Break . . . 3-83

Help . . . 3-84
Search For Program Number . . . 3-84
About . . . 3-85

Chapter 1: Connecting the PC

1

Directly Connecting the PC to the Telephone System

Overview

Directly connect your PC to the telephone system when the PC and the phone system are in the same location. You can also use your direct connection for running the Update Utility, outputting Station Message Detail Recording (SMDR), or recording Call History.

- The *Update Utility* allows you to upgrade your system software.
- *SMDR* provides a record of the system's outside calls. Once set up in programming, SMDR automatically outputs from the system's RS-232 (serial) port.
- The *Call History* provides data on system activity. Technical Support personnel can use this data to evaluate system performance.

Note:

- The default communications parameters of the DS1000/DS2000 serial port are 19200 8 N 1 (19200 baud, eight data bits, no parity, and 1 stop bit).

Directly Connecting to DS1000

To connect a PC to your DS1000 telephone system (Figure 1-1)**:**

1. Plug one end of a mod-8 (standard 8 conductor) patch cord into the system's RS-232 port.
2. Plug the other end of the mod-8 patch cord into the DB9 to Mod-8 Adaptor (P/N 85980).
   It is recommended that you use adaptor P/N 85980. If you choose to make your own adaptor and/or cable, however, refer to Making Data Cables on page 1-7.
3. Plug the adaptor into the DB9M COM connector on the back of your PC.
4. Use the *Direct Connection* button (page 2-9) or the *Connection: Online* menu option (page 3-80) to connect the PC Program to the telephone system.

Directly Connecting to DS2000

To connect a PC or laptop to your DS2000 telephone system (Figure 1-2)**:**

1. Plug the DIN end of the 8-PIN DIN to Mod-8 Cable (P/N 80893) into the CPU serial port.
2. Plug one end of the DB9 to Mod-8 Adaptor (P/N 85980) into the cable.
   It is recommended that you use cable P/N 80893 and adaptor P/N 85980. If you choose to make your own adaptor and/or cable, however, refer to Making Data Cables on page 1-7.
3. Plug the other end of the adaptor into the DB9M COM connector on the back of your PC.
4. Use the *Direct Connection* button (*page 2-9*) or the *Connection: Online* menu option (page 3-80) to connect the PC Program to the telephone system.

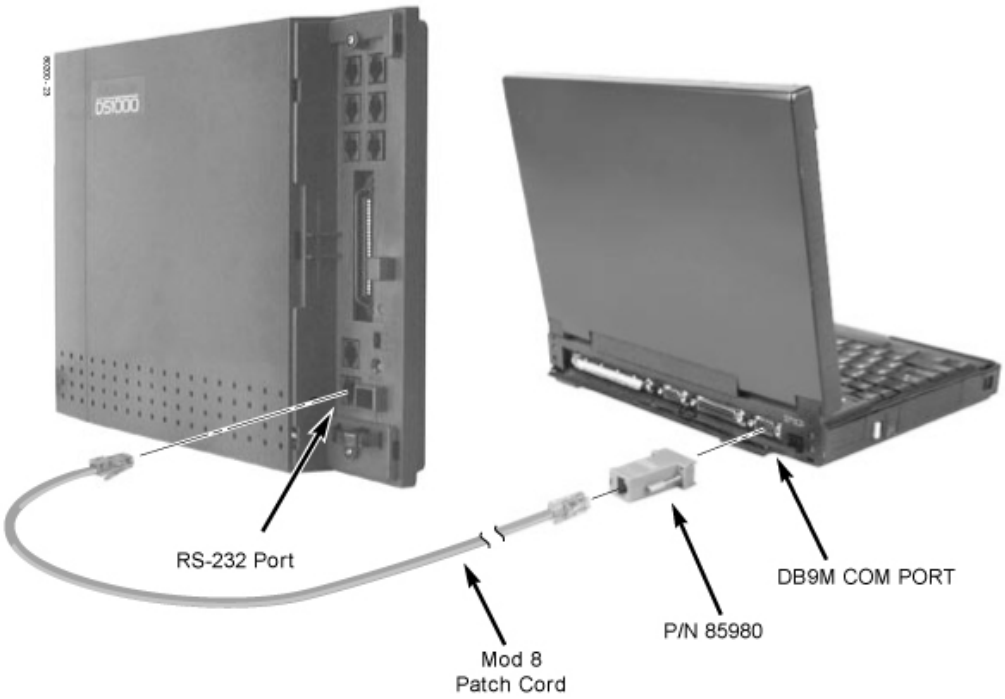


Figure 1-1: DS1000 Direct Connection

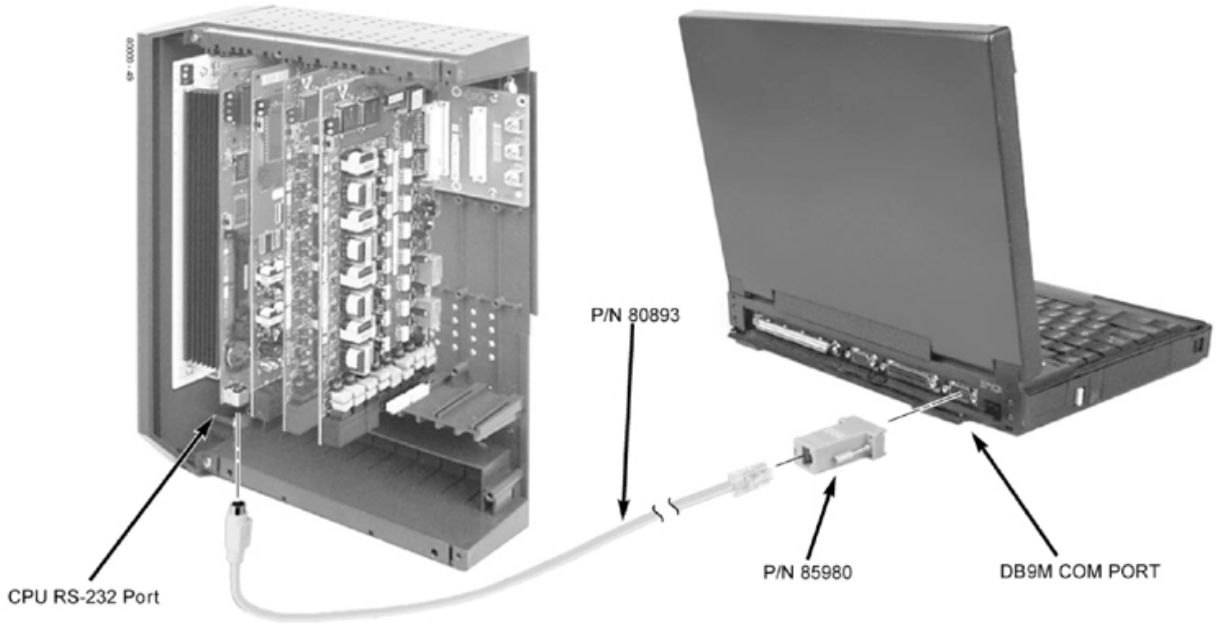


Figure 1-2: DS2000 Direct Connection

Testing the Connection

To test the connection:

1. Open HyperTerminal on your Windows PC or laptop:
   - Click **Start** + **Programs** + **Accessories** + **Communications** + **Hypertrm**.
   - Double-click **Hyperterm.exe**.
   - Name your connection, pick an icon, and click **OK**.
2. When you see the **Connect To** screen, open the **Connect using** drop down and select **Direct to Com n** (where n is the number of the PC COM port connected to the system).
3. Click **OK** after making your selection above.
4. When you see the **COMn Properties**, set the parameters to the following:
   - **Bits per second** = 19200
   - **Data bits** = 8
   - **Parity** = none
   - **Stop bits** = 1
   - **Flow control** = none
5. Click **OK** after making your selections above.
6. Press **Enter**.
   You may see some diagnostic data. If you press Enter again, you will see a "greater than" prompt (>).
   If you don't see anything (or garbage) on your screen, check your connections and HyperTerminal settings, then restart HyperTerminal and try again.
7. From the PC or laptop keyboard, press **Shift 1** to enable history.
   To verify the connection, lift the handset or use features at any telephone. History data will display on the PC or laptop screen.
8. Once you have verified that everything is working OK, press **Shift 1** again to disable history.

Checking the System's Serial Port Settings

To check the system's serial port settings:

1. Enter the programming mode from a display telephone.
2. Enter **0301** + **HOLD**.
3. Press **Vol ▲** until you see: **BAUD RATE?nnnn**
4. Enter the new baud rate, if required + **HOLD**.
   (0=1200, 1=2400, 2=4800, 3=9600, 4=19200, and 5=38400)
5. Press **CONF** to exit program 0301.

Connecting a Modem to the Telephone System

Overview

Use a modem connection when the phone system is in a different (remote) location than your PC. You typically use the remote connection for remote programming and troubleshooting, You would not normally use the remote connection for the *Update Utility*, *SMDR*, and *Call History.*

Connecting a Modem to DS1000

To connect a modem to DS1000 (Figure 1-3)**:**

1. Plug one end of a mod-8 (standard 8 conductor) patch cord into the system's RS-232 port.
2. Plug the other end of the mod-8 patch cord into the DB25 to Mod-8 Adaptor (P/N 85981).

   It is recommended that you use adaptor P/N 85981. If you choose to make your own adaptor and/or cable, however, refer to Making Data Cables on page 1-7.
3. Plug the other end of the adaptor into the DB25F connector on the back of your modem.
4. Following the modem manufacturer's instructions, plug in the modem power supply and connect to the trunk on which you will call to access the system remotely.

   Turn to Tools: Options: Modem on page 3-79 *for more on setting up the modem initialization strings.* ***Be sure the string includes the command to turn flow control off.***
5. Use the *Remote Connection* button (*page 2-10*) or the *Connection: Remote* menu option (page 3-81) to connect the PC Program to the telephone system.

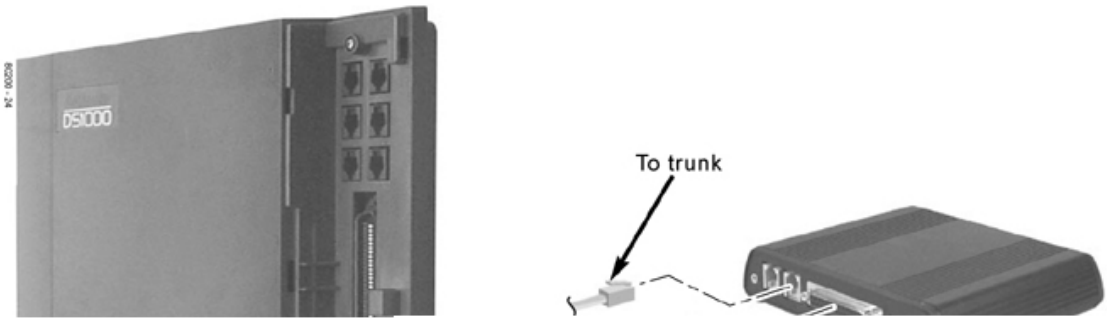


Figure 1-3: DS1000 Remote (Modem) Connection

Chapter 2: Installation and Start-up

2

Installing the PC Program

Minimum Requirements

Be sure the PC on which you want to install the PC Program meets the following minimum requirements:

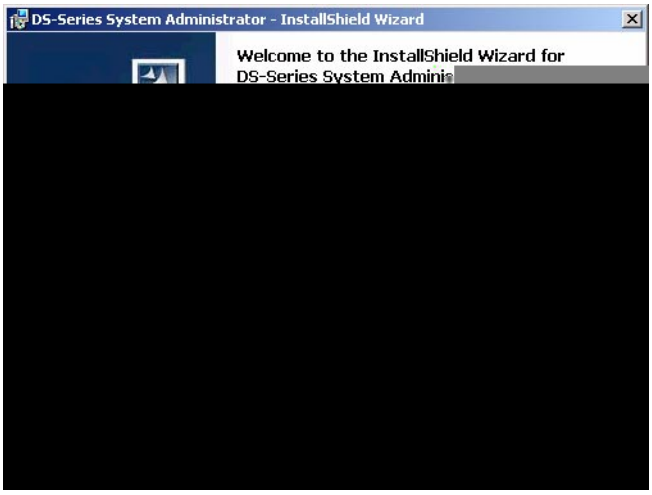
- Windows NT, Windows 2000, Windows XP, and above.
- P133 with 32 MB RAM.
- 256 Color 800 x 600 display (1240 x 1024 is optimal).
- Do not use large fonts.
- 40 MBytes of available hard disk space.

Installation

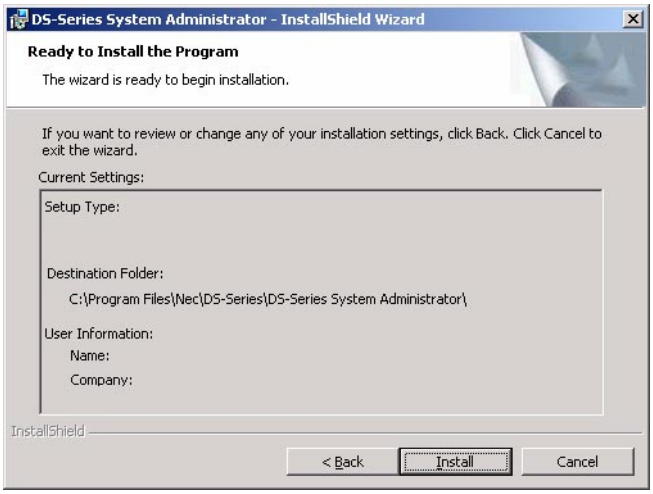
To install the DS1000/2000 PC Program:

Before installing, use Add/Remove Programs to remove any prior installed versions of the DS1000/2000 PC Program.

1. Insert your DS1000/2000 System Administrator CD (P/N 80053-V*.**.**).
2. Click **Start** + **Run** + **Browse**, then select the 80053-V*.**.** icon.
3. Select the file **DS-Series System Administrator Install.exe** and click **Open**.
4. Click **OK**. After a few minutes, you see:



5. Click **Next**. You see:



6. Click **Install**. After a few minutes, you see:

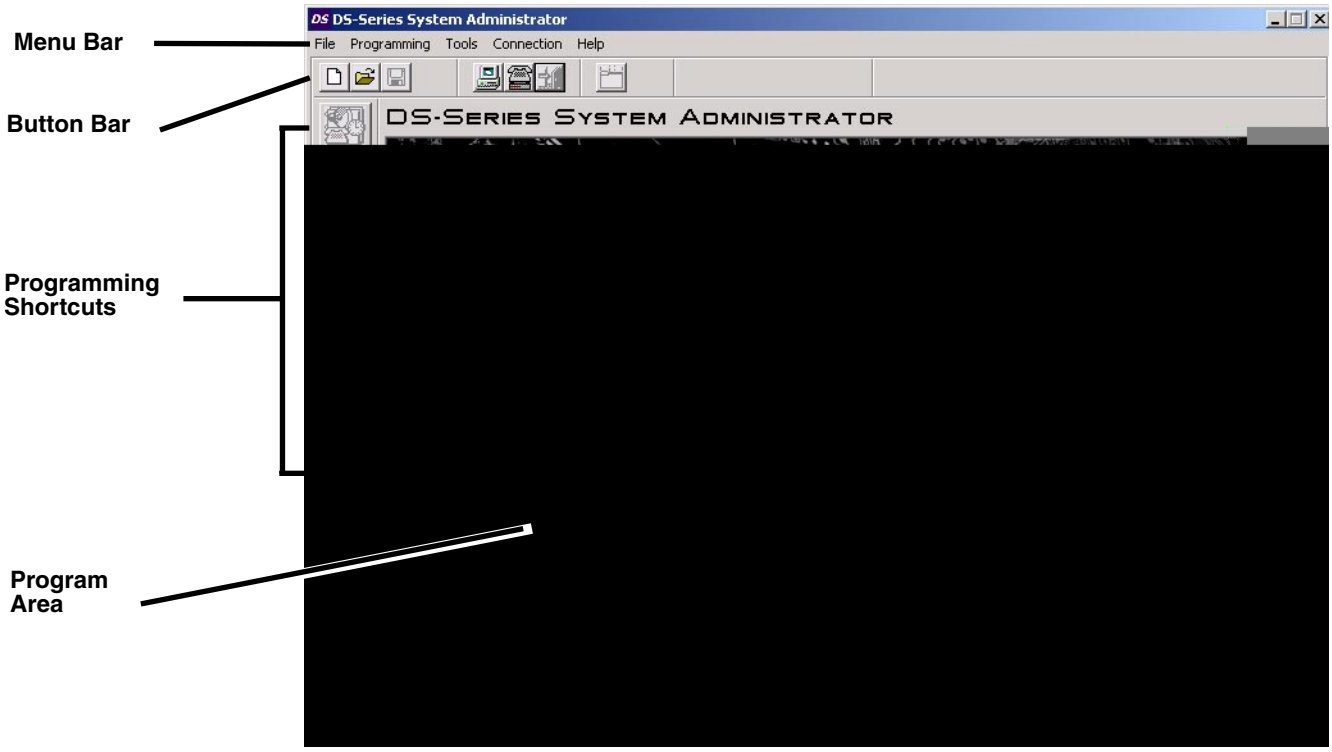
7. Click **Finish** to complete the installation.

Starting the PC Program

Initial Start-up

To start the DS1000/2000 PC Program:

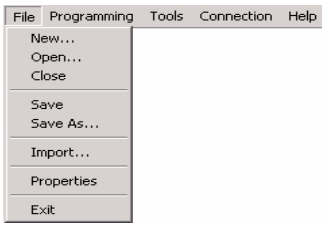
1. Click **Start** + **Programs** + **DS Series + DS-Series System Administrator**. You see the opening screen below.



The PC Program Components

Menu Bar

File



Use the *File* Menu Bar option to open a database, save a database, or import portions of a stored database into your current session.

- *File: New* opens a new (default) database.
  - This option has the same function as the *New* button on the Button Bar.
  - This option is not available while on-line.
- *File: Open* opens a an existing (previously saved) database.
  - It has the same function as the *Open* button on the Button Bar.
  - This option is available while on-line or off-line.
  - While on-line, this option loads the saved database into the telephone system. ***Be careful! You will of overwrite the customer database in the connected system.***
- *File: Close* ends your current programming session and returns you to the opening screen.
  - This option is available while on-line or off-line.
  - While on-line, this option breaks (tears down) your direct or modem connection before returning you to the opening screen.
  - This option is similar to the *Break* button on the button bar.
- *File: Save* saves the currently open database to the PC hard disk.
  - This option is available while on-line or off-line.
  - For a new database while off-line, you will be prompted to enter a name prior to saving.
  - While on-line, this option always asks if you want to download the entire system database prior to saving. ***Be careful! To avoid saving a file with incomplete data, you should download the entire database prior to saving.***
  - *File: Save* is the same as the *Save* button on the Button Bar.
- *File: Save As* allows you to save the currently open database to a new file on the PC hard disk.
  - This option is available while on-line or off-line.
  - While on-line, this option always asks if you want to download the entire system database prior to saving. ***Be careful! To avoid saving a file with incomplete data, you should download the entire database prior to saving.***
- *File: Import* lets you import a portion of a previously saved database into your current session.
  - This option is available while on-line or off-line (with a new or saved database open).
  - For example, you can import just the Toll Restriction settings from another database into your current session.
- *File: Properties* allows you to enter contact information and other data about a site. This data is saved with each file.
- *File: Exit* exits the *File* options.
- For more on the *File* options, see *page 3-3*.

Programming

	The *Programming* Menu Bar option lets you display the various programmable options in the program area. Each programmable option has a corresponding programming shortcut to the left of the program area. Either method accesses the same option - use the method that you find most convenient. For more on each programmable option, refer to: • *Programming: System* on page 3-13. • *Programming: Ports on* page 3-31 and page 3-34. • *Programming: Stations* on page 3-37. • *Programming: Trunks* on page 3-46. • *Programming: Extension Numbering* on page 3-50. • *Programming: Toll Restriction* on page 3-54. • *Programming: DSS Console* on page 3-58. • *Programming: System Speed Dial* on page 3-60. • *Programming: Voice Mail* on page 3-62.

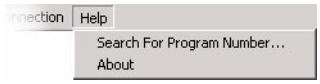
Tools

	The *Tools* Menu Bar option allows you to: • Initialize Toll Restriction. • Use the *Online Utilities* to perform various system resets, in addition to saving and loading PC Card data (DS2000 only). • Set up additional options, such as: - Specifying the region preference (US or Latin America). - Configuring the serial port for direct connections. - Configuring the modem port for remote connections. For more on the *Tools* options, refer to: • *Tools: Initialize Toll Restriction* on page 3-67. • *Tools: Online Utilities: PC Card Load/Save* on page 3-68. • *Tools: Online Utilities: PC Card Load/Save* on page 3-68. • *Tools: Online Utilities: Reset Station Port* on page 3-73. • *Tools: Online Utilities: Initialize Caller ID Log* on page 3-74. • *Tools: Online Utilities: Reset System* on page 3-75. • *Tools: Online Utilities: Initialize System* on page 3-76. • *Tools: Options: General* on page 3-77. • *Tools: Options: Communications* on page 3-78. • *Tools: Options: Modem* on page 3-79.

Connection

	Use the *Connection* Menu Bar option to connect to the telephone system. You can connect directly (*Online*), connect remotely (*Remote*), or *Break* (tear down) an existing connection. • *Connection: Online* has the same function as the *Direct* button on the Button Bar. For more on *Connection: Online*, see page 3-80. • *Connection: Remote* has the same function as the *Remote* button on the Button Bar. For more on *Connection: Remote*, see page 3-81. • *Connection: Break* has the same function as the *Break* button on the Button Bar. For more on *Connection: Break*, see page 3-83.

Help



The *Help* Menu Bar option allows you to access the *Search For Program Number* utility. With this utility, just type in a telephone programming program number (such as 1801) and the utility will automatically tell you where the option is located in the PC Program. The *Help* Menu Bar option also provides a splash screen which displays the PC Program version number.

- For more on the *Help* options, see *page 3-84*.

Button Bar

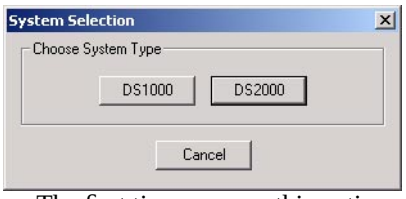
New

This button is the same as using *File: New* from the menu bar (see page 3-3).

Off-line

The *New* button opens a new (default) database. To use this option:

- Click the button. You see:



  - The first time you use this option, you must specify a region (U.S. or Latin America). ***Always select U.S.***
- Select the type of telephone system you want to program. You see the opening screen for a new (default database).

Note that the DID option is not available on DS1000.

On-line

This option is not available while on-line.

Open

This button is the same as using *File: Open* from the Menu Bar. Turn to page 3-4 for more.

Save

Direct

Chapter 3
Programming

Overview

How to use this Chapter

This chapter provides an overview of the items on the PC Program Menu Bar:

- **File**
  Use the *File* Menu Bar option to open a database, save a database, or import portions of a stored database into your current session.
- **Programming**
  The *Programming* Menu Bar option provides access to all the PC Program programmable options. It also explains how to use the toolbars (where available) and cross-references each screen to its corresponding telephone programming option. For detailed information about each of the *Programming* options, refer to the *DS1000/2000 Software Manual* (P/B 80000SWG16 or higher).
- **Tools**
  The *Tools* Menu Bar option allows you to set up direct and remote (modem) connections, save and load data to the DS2000 PC Card, and perform various system resets.
- **Connection**
  Use the *Connection* Menu Bar option to connect to the telephone system. You can connect directly (*Online*), connect remotely (*Remote*), or *Break* (tear down) an existing connection.
- **Help**
  The *Help* Menu Bar option allows you to access the *Search For Program Number* utility for finding telephone programming program numbers in the PC Program. This option also provides a splash screen which displays the PC Program version number.

Programming Tips

Shortcuts

- **Ctrl C** copies data from a programming field.
- **Ctrl X** cuts data from a programming field.
- **Ctrl V** pastes copied data into a programming field.
- **Ctrl Z** restores the previous programming field entry.

When Connecting to a Telephone System

As soon as you connect to a telephone system (directly or remotely), the PC Program automatically downloads the following:

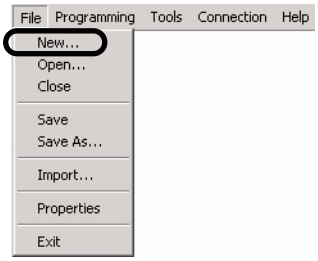
- All data for station 1 (extension 300).
- All data for trunk 101.
- All Toll Restriction data for Toll Restriction Level 1.
- All other system data.

Additional station, trunk and Toll Restriction data is downloaded:

- As required when you go to a new station, trunk, or Toll Restriction Level screen.
  OR
- When you click the *Download* button.

Once connected to a telephone system (directly or remotely), you must take some action every 30 minutes or the PC Program will break the connection.

Description



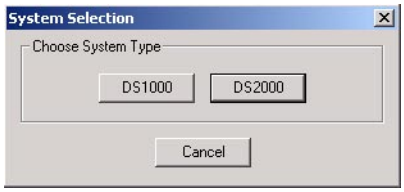
Use the *File: New* option to open a new (default) database. This option has the same function as the *Open New Database* button on the Button Bar. This option is only available while off line.

Programming Shortcut

Program Entry

To use *File: New* (off line only):

1. Click *File: New. You see:*



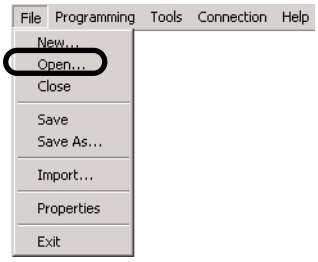
2. Select the system database type you want to open (DS1000 or DS2000).
   - The database loads into the program area.

First Time New Option

The first time you select a new database, you see:

This screen allows you select the region in which your system is installed (U.S. or Latin America). ***For North American applications, always select U.S.***

Description



Use the *File: Open* option to load (open) a database previously saved to your PC hard disk. This option is available while on-line or off-line. While off-line, *File: Open* opens the database into the PC program. While on-line (direct or remote), *File: Open* opens the file and uploads it into the connected system (overriding that system's existing database).

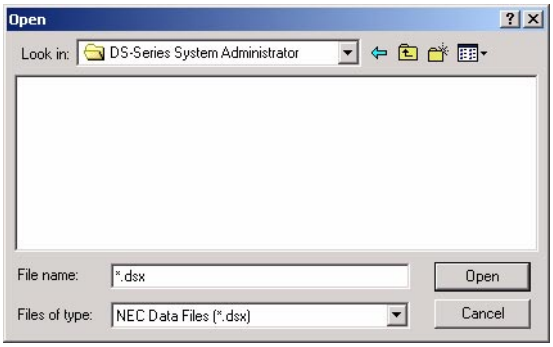
- While on-line, this option loads the saved database into the telephone system. ***Be careful! You have the option of overwriting the customer database in the connected system.***

Programming Shortcut

Program Entry

To use *File: Open* while off line:

1. Click *File: Open*. You see*:*

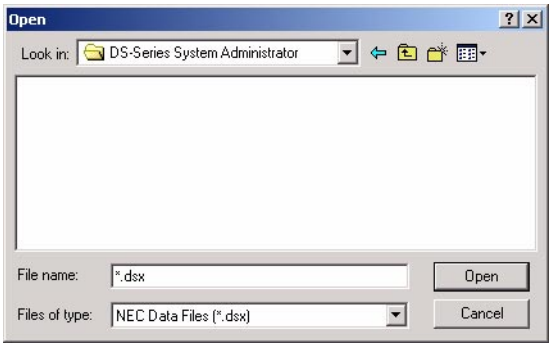


2. Select the stored database you want to open and click *Open*.
   - The database loads into the program area.

To use *File: Open* while on-line:

1. Click *File: Open*. You see:

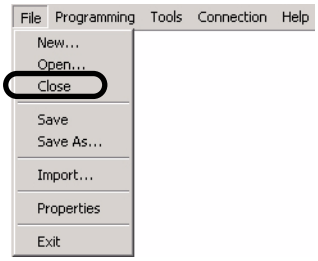
2. Since this process will automatically upload the stored database into the connected system, click *Yes*. You see:



3. Select the stored database you want to upload and click *Open*. You see:

4. To continue with the upload, click *Yes*.

Description



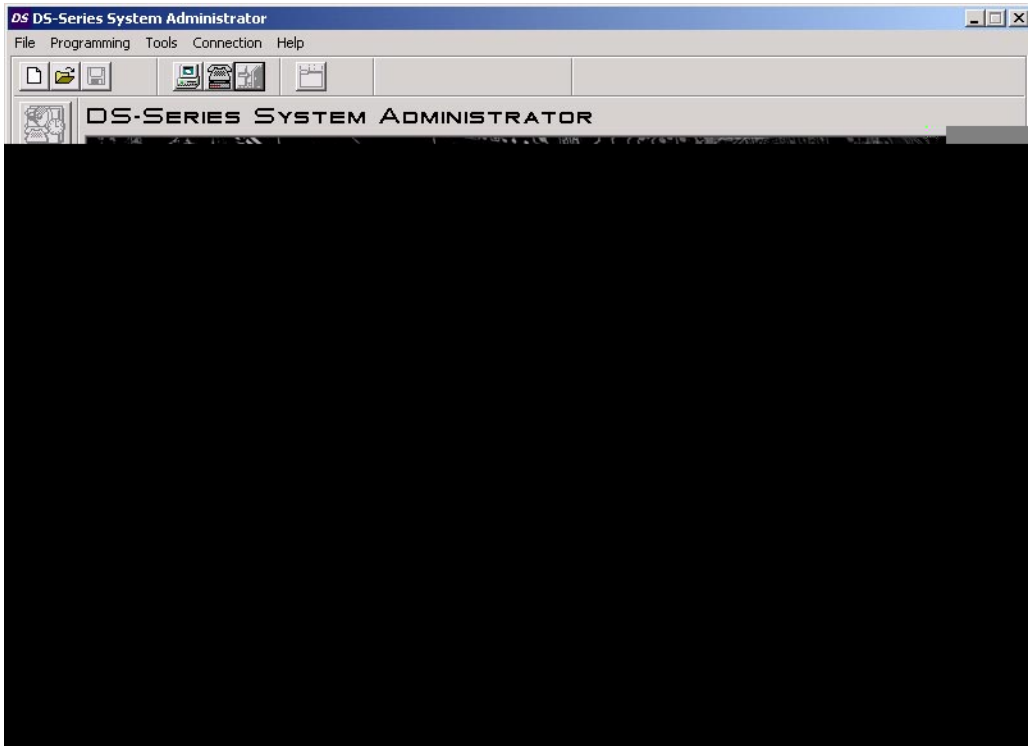
Use the *File: Close* option to end your current programming session and return you to the opening screen. This option is available while on-line or off-line. While on-line, this option breaks (tears down) your direct or modem connection before returning you to the opening screen.

Programming Shortcut

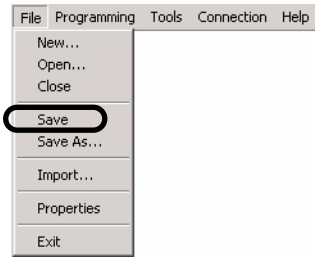
Program Entry

To use *File: Close*:

1. Click *File: Close.* You see*:*



Description



Use the *File: Save* option to save the currently open database to the same file on the PC hard disk. This option is available while on-line or off-line. While on-line, this option always asks if you want to download the entire system database prior to saving. ***Be careful! You have the option of saving a partial database – which you can upload later over the customer database in the connected system.***

Programming Shortcut

Program Entry

To use *File: Save*:

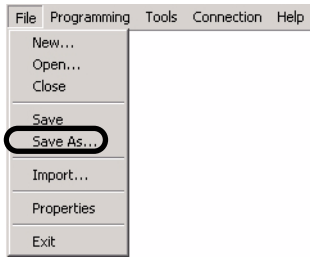
1. Click *File: Save*. If you are off-line, skip to step 3.
2. If you are on-line, you see:

Normally, click *Yes* to be sure you have downloaded all the programming from the connected telephone system before saving.

3. The database saves to the existing file on the PC hard disk.
   - For a new database, you will be prompted to enter a name.

Save As

Description



Use the *File: Save As* option to save a database to a file on your PC hard disk. You can save a database you created using the *New* button or a database you downloaded using the *Download* button. The *File: Save As* option is available while off-line and on-line. While on-line, this option always asks if you want to download the entire system database prior to saving. ***Be careful! You have the option of saving a partial database – which you can upload later over the customer database in the connected system.***

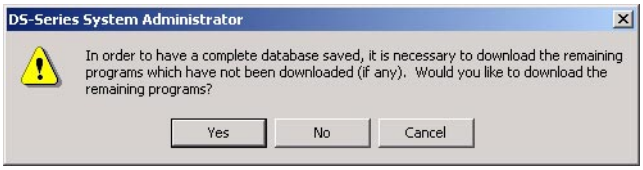
Programming Shortcut

N/A

Program Entry

To use *File: Save As*:

1. Click *File: Save As*. If you are off-line, skip to step 3.
2. If you are on-line, you see:



Normally, click *Yes* to be sure you have downloaded all the programming from the connected telephone system before saving.

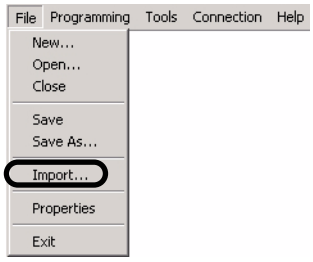
3. When you see:

Enter a name for your saved database and click *Save*.

OR

Double-click on an existing file and click *Yes* to overwrite a previously saved database.

Description



Use the *File: Import* option to import a portion of a previously saved database into your current session. For example, you can import just the Toll Restriction settings from another database into you current session. This option is available while on-line or off-line. After importing the data, you can:

- Click *Send* to upload the imported data to the connected telephone system.
- Use *File: Save* the save the data to the same file on the PC hard disk (and optionally upload the changed data to the phone system if on-line).
- Use *File: Save As* to save the data to a new file on the PC hard disk (and optionally upload the changed data to the phone system if on-line).

Be careful! You have the option of saving a partial database – which you can upload later over the customer database in the connected system.

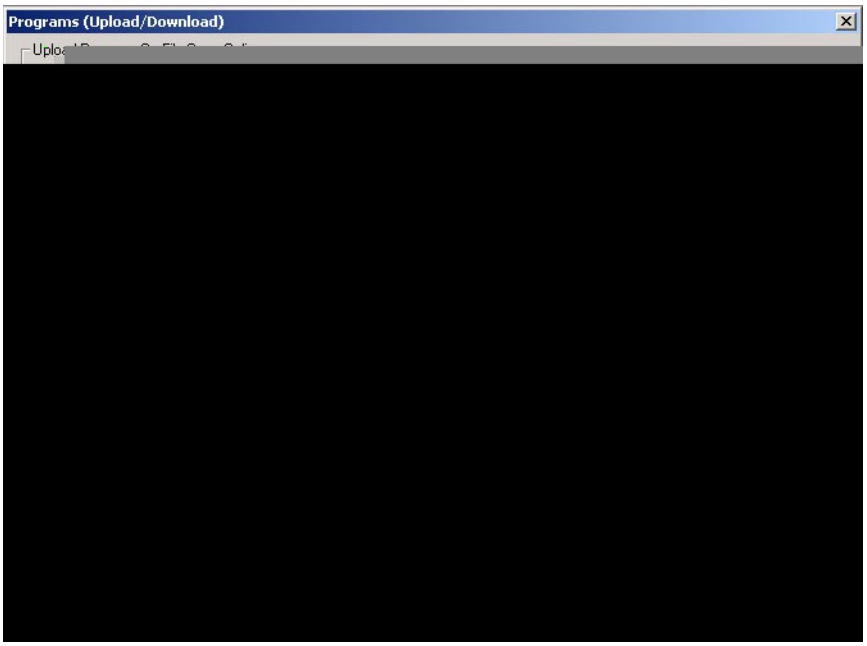
Programming Shortcut

N/A

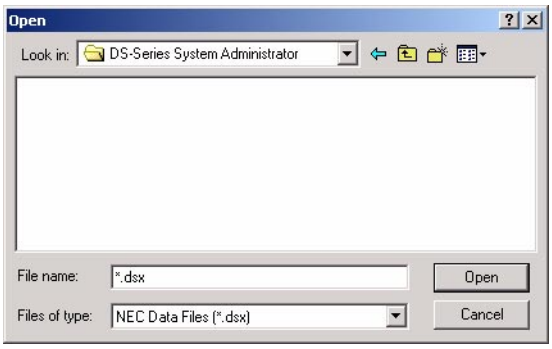
Program Entry

To use *File: Import*:

1. Click *File: Import*. You see:

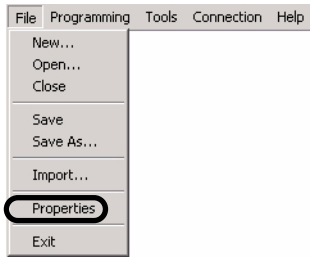


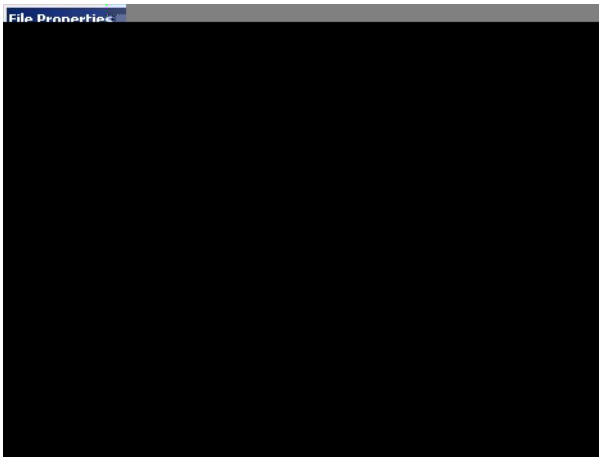
2. Select the programs you want to import and click *OK*. You see:



3. Select the file from which you want to import the programs you selected in step 2.
4. Click *OK*. The selected data is imported into your existing session.

Description





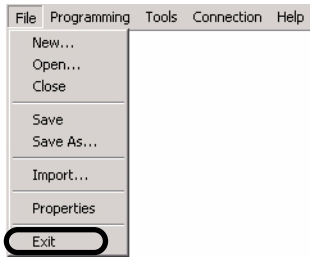
Use *File: Properties* to enter important information about the remote site. You can enter contact information, the remote telephone numbers, as well as important notes and when the site was last accessed. The properties data is saved as part of the database.

Program Entry

To use *File: Properties*:

1. Click *File: Properties*.

Description



Use the *File: Exit* to exit the PC Program. (The system will prompt you if you try to exit while you have unsaved changes.)

Programming Shortcut

N/A

Program Entry

To use *File: Exit*:

1. Click *File: Exit*.

Description

The *Programming: System* option provides access to system-wide programming.

Programming Shortcut

System Toolbar Controls

Options	COS	Accounts	Groups	Timers	Caller ID	DID	Send	Undo

Options	Click to access Operator and other system option programming. See *System: Options* on page 3-14 for more.
COS	Click to access Class of Service programming. See *System: Class of Service (COS)* on page 3-19 for more.
Accounts	Click to access the Verified Account Codes table. See *System: Account Codes (Accounts)* on page 3-24 for more.
Groups	Click to access Trunk Group programming. See *System: Trunk Groups* on page 3-24 for more.
Timers	Click to access the programming for system, trunk, station, and T1/E1 timers. See *System: Timers* on page 3-25 for more.
Caller ID	Click to access the Caller ID programming. See *System: Caller ID* on page 3-28 for more.
DID	(DS2000 Only) Click to access the DID configuration and the DID translation table programming. See *System: Direct Inward Dialing (DID)* on page 3-30 for more.
Send	• While on-line, sends the programmed changes to the connected telephone system. • *Send* is not available while off-line.
Undo	Cancels any changes you made to the current page.

Options

Setup

Use this page to set up system options, operators, and other system-wide programming. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0301 - System Options (Part 1)**
- **0302 - System Identification**

Note: **For proper PC Program operation, be sure *Fixed Baud Rate* is enabled (checked).**

More on the *Modem: Installed* Option

You should enable (check) *Modem: Installed* when an external modem is connected to the system. If enabled, the system outputs diagnostics, SMDR and call history only while the modem is on-line.

Modem: Installed also enables the modem initialization string. The system outputs this string from the serial port when:

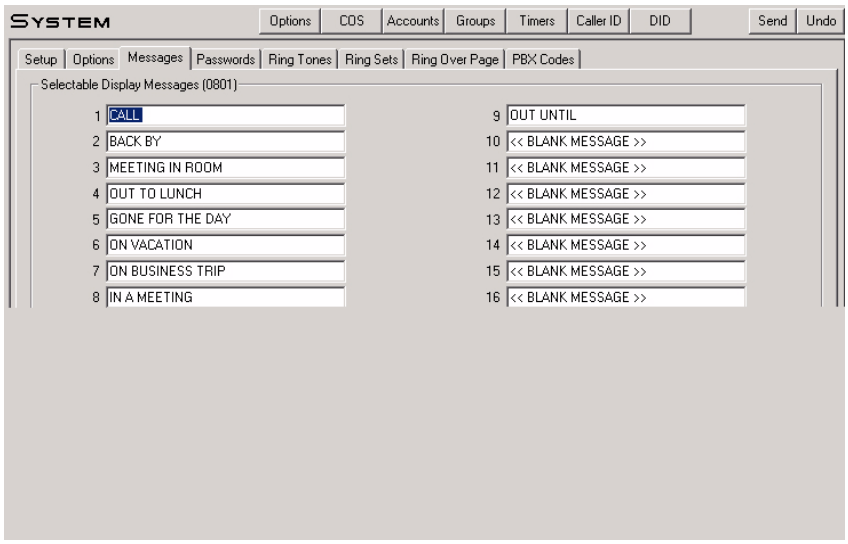
- This system is powered up or reset (while the modem is connected).
- The string is changed in the PC Program (while the modem is connected).The system sends the init string after the PC Program session ends.
- The modem is plugged into the serial port and powered up.
- Any time the *Baud Rate* or *Modem: Installed* options are changed.
- Whenever you click the *Break* button.

Options

Use this page to set up additional system-wide feature options. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0201 - Tenant Option Programming**

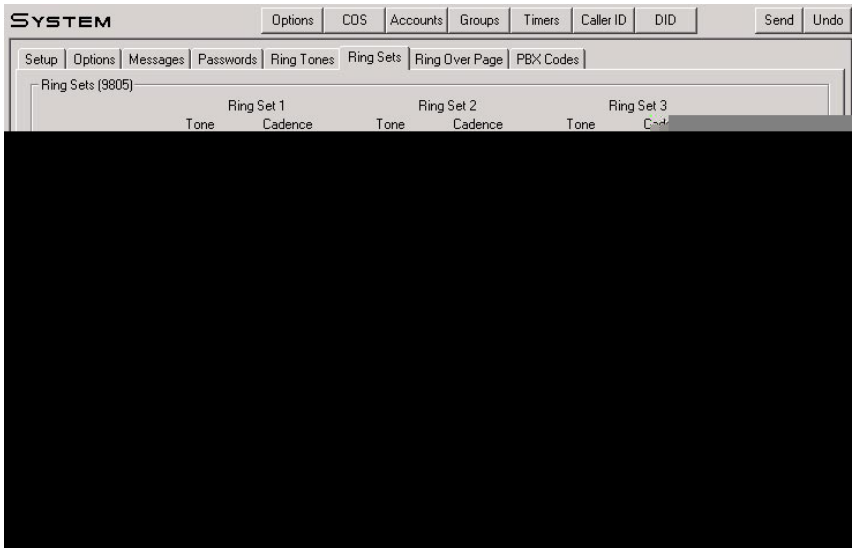
Messages



Use this page to enter the Selectable Display Messages. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0801 - Selectable Display Messages**

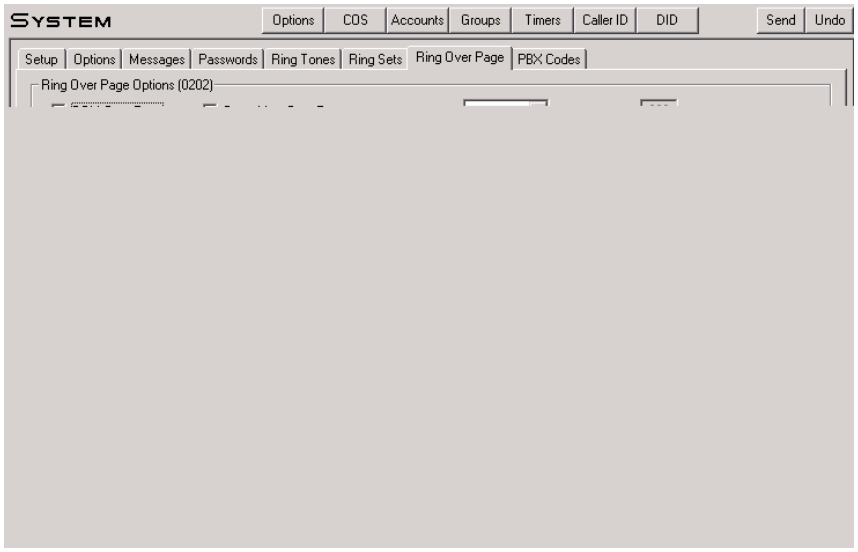
Ring Sets



Use this page to specify the Ring Tone and Cadence for each Ring Type. This program does not exist in telephone programming. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **Distinctive Ringing**

Ring Over Page



Use the top section of this page to set up Ringing Over Page. You can separately enable Background Music, Door Box Chimes, and station or trunk ringing over page. If you enable trunk ringing over page, use the bottom portion of this page to determine which trunks will initiate trunk which type of trunk ringing. (To simultaneously make all entries *Disabled*, click *Disable All*.)

Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0202 - Page Ring Source**
- **0203 - UNA Ringing Over Page**

PBX Codes

Use this page to enter the 10 PBX Access Codes. Each code is either 1 or 2 digits long, using the digits 0-9 and * as a wild card. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0610 - PBX Access Codes Table**

Distinctive Ringing

Use this page to select the Class of Service options that pertain to Distinctive Ringing setup. Refer to the following in the *DS1000/2000 Software Manual* for more:

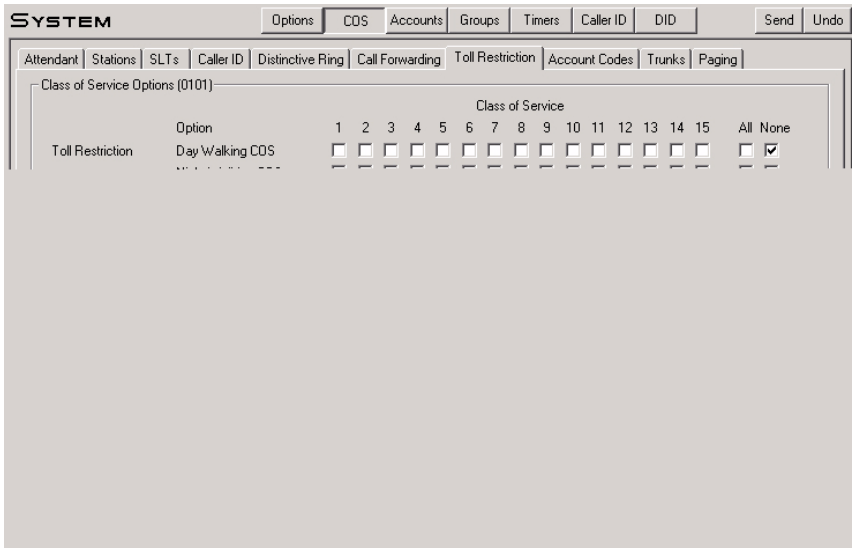
- **0101 - Class of Service Options**

Call Forwarding

Use this page to select the Class of Service options that pertain to Call Forwarding. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0101 - Class of Service Options**

Toll Restriction



Use this page to select the Class of Service options that pertain to Toll Restriction, Walking Class of Service, and Extension Locking. Refer to the following in the *DS1000/2000 Software Manual* for more:

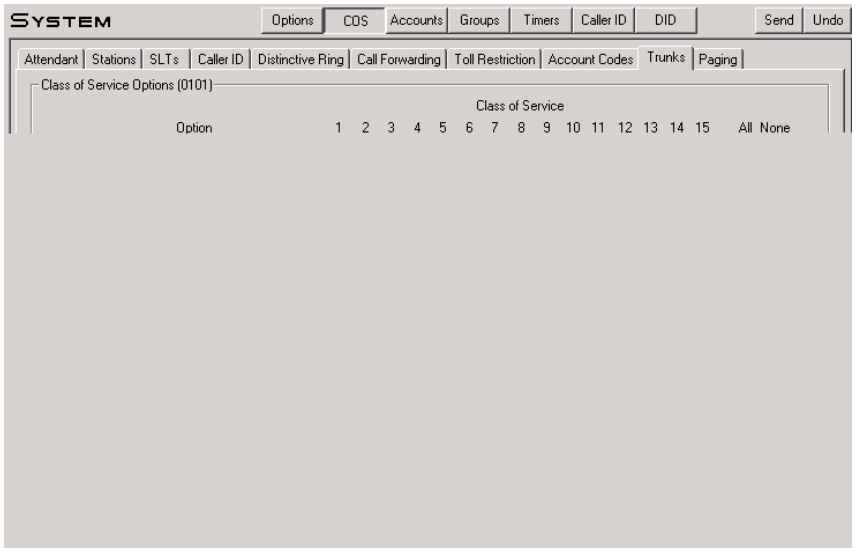
- **0101 - Class of Service Options**

Account Codes

Use this page to select the Class of Service options that pertain to the type of Account Codes in force at a station. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0101 - Class of Service Options**

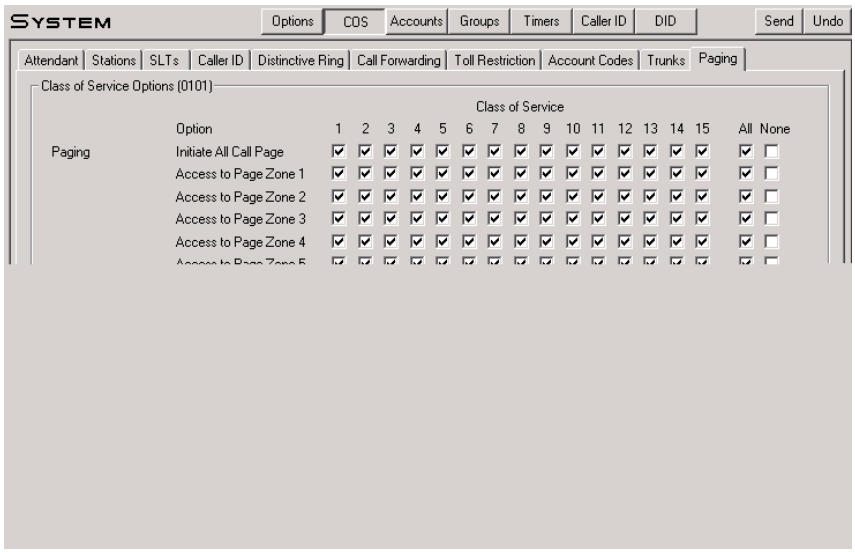
Trunks



Use this page to select the Class of Service options that pertain to a station's outside (trunk) calls. Note that these are *station* Class of Service options, not *trunk* Class of Service options. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0101 - Class of Service Options**

Paging

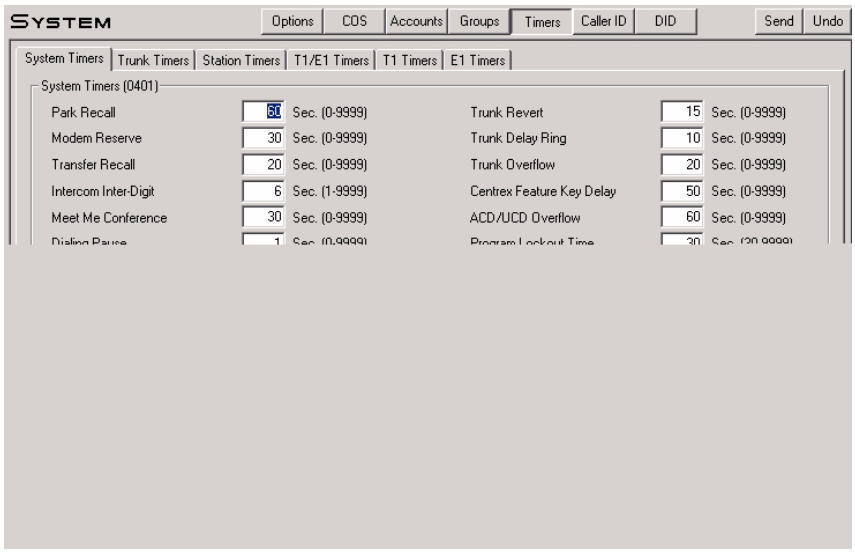


Use this page to set the Class of Service access to Zone and All Call Paging. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0101 - Class of Service Options**

Timers

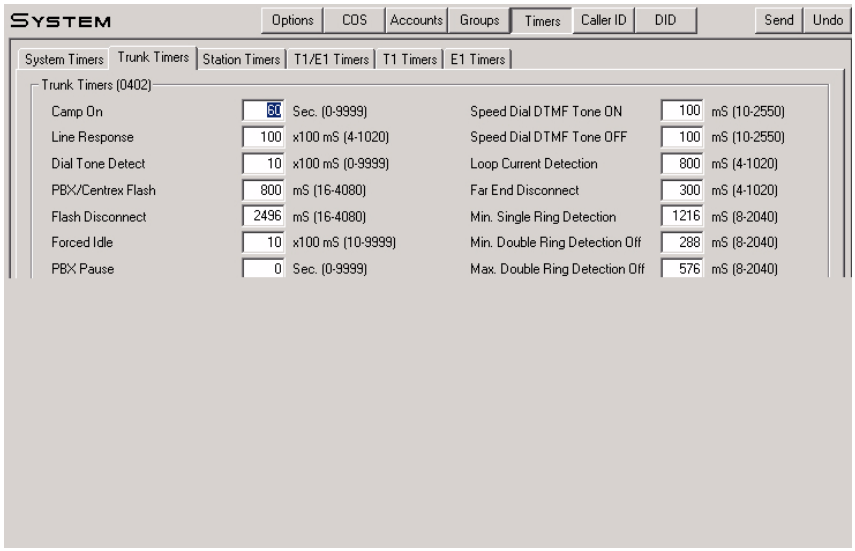
System Timers



Use this page to enter values for the system timers. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0401 - System Timers**

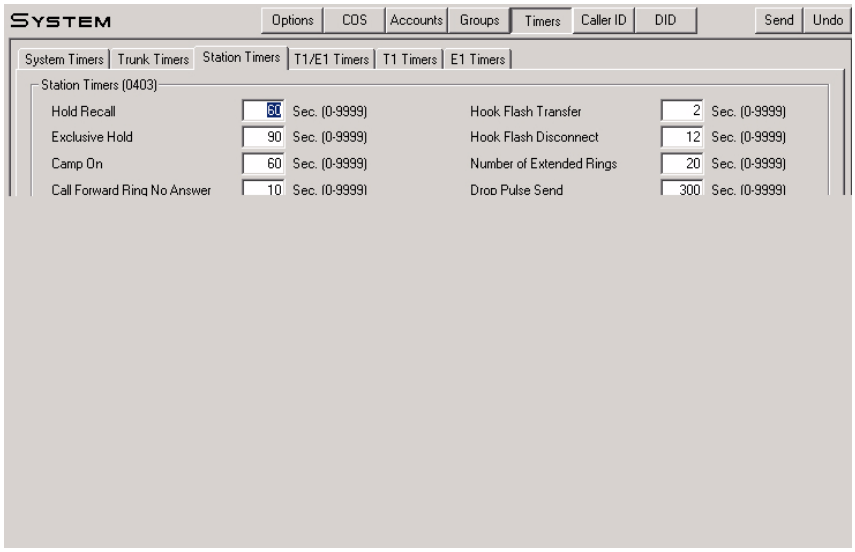
Trunk Timers



Use this page to enter values for the analog trunk timers. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0402 - Trunk Timers**

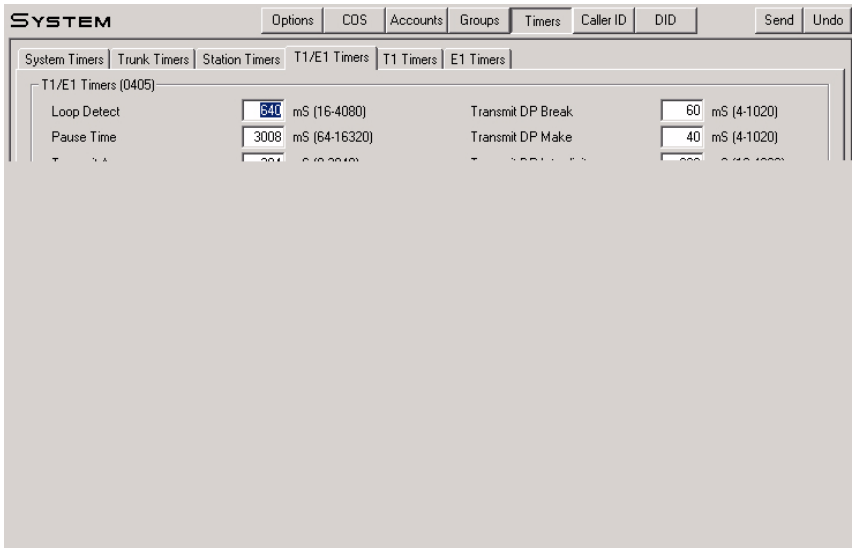
Station Timers



Use this page to enter values for the digital (keyset) station timers and the analog (SLT) station timers. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0403 - Station Timers**
- **0404 - Analog Station Timers**

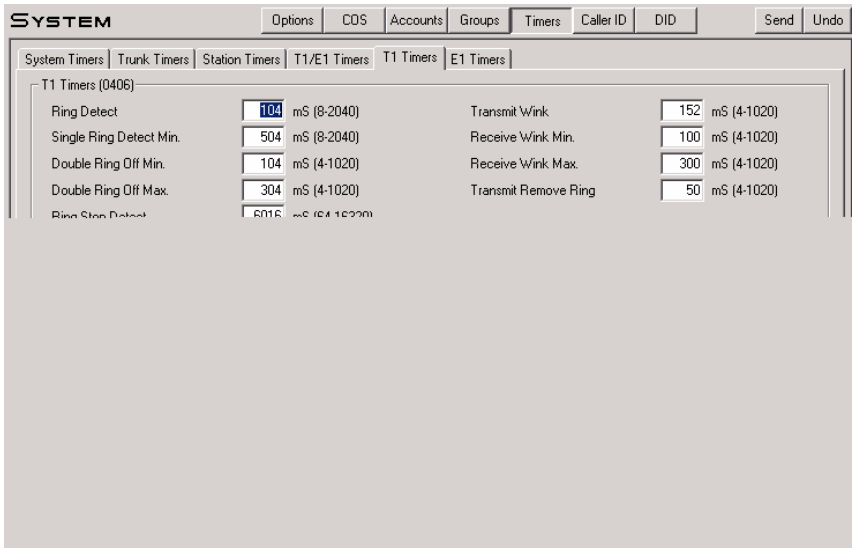
T1/E1 Timers (1 of 3)



(DS2000 Only) Use this page to enter values for the trunk timers used exclusively by the T1/E1 PCB that apply to *both* T1 and E1 trunk circuits. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0405 - T1/E1 Timers**

T1/E1 Timers (2 of 3)



(DS2000 Only) Use this page to enter values for the trunk timers used exclusively by the T1/E1 PCB. This page provides timers used *only* by T1 circuits. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0406 - T1 Timers**

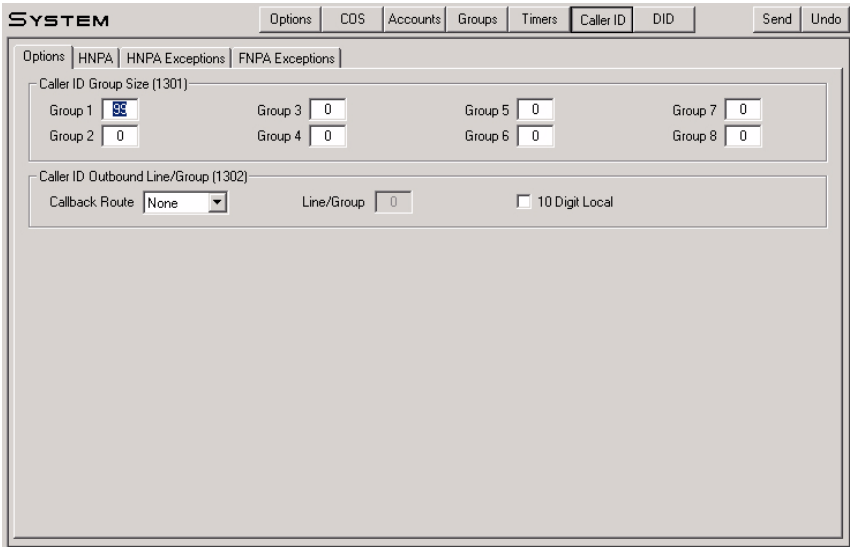
T1/E1 Timers (3 of 3)

(DS2000 Only) Use this page to enter values for the trunk timers used exclusively by the T1/E1 PCB. This page provides timers used *only* by E1 circuits. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0407 - E1 Timers**

Caller ID

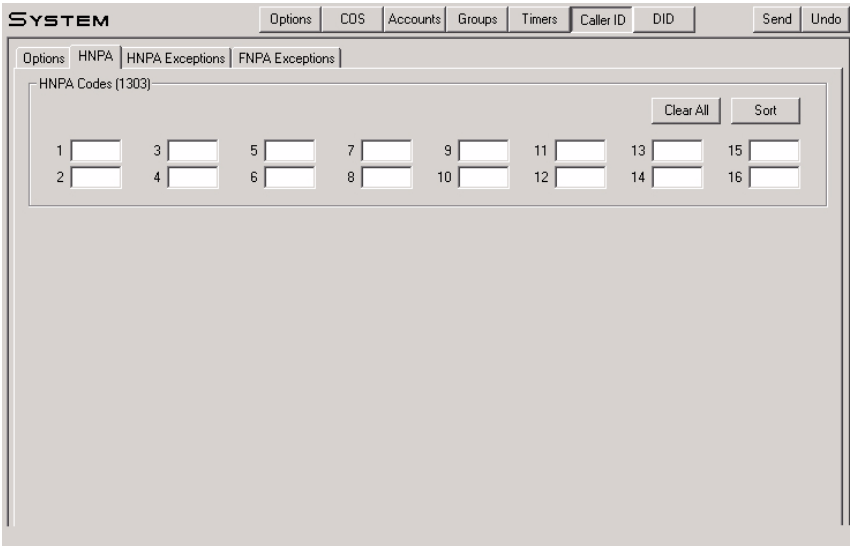
Options



Use the top portion of this page to program the maximum number of records (0-99) in each Caller ID Group. Use the bottom portion of this page to set up Caller ID outbound dialing. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1301 - Caller ID Group Configuration**
- **1302 - Caller ID Outbound Line/Group**
- **1302 - 10 Digit Local Calls**

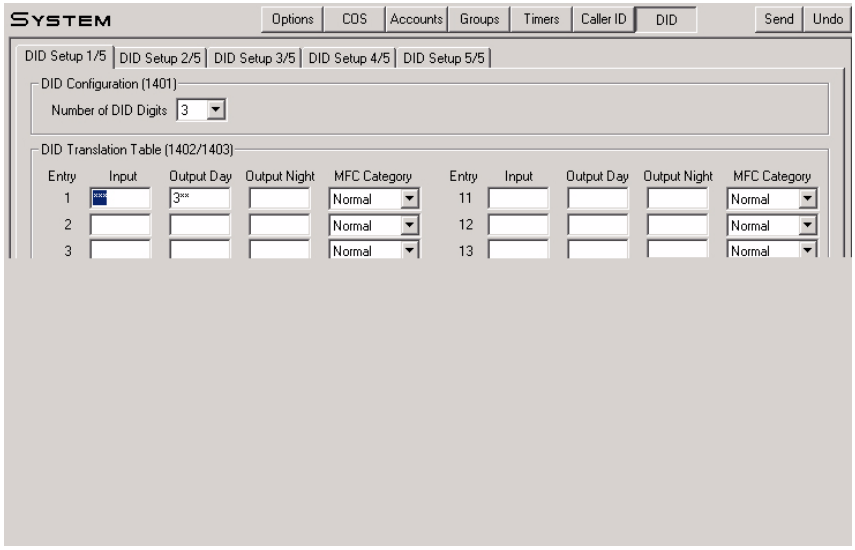
HNPA Codes



Use this page to enter Home Area (HNPA) Codes for Caller ID Logging. The Home Area Code is the local area code in which the system is installed. To erase all the entries in the table, click *Clear All*. To sort your HNPA entries numerically, click *Sort Data*. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1303 - Home Area (HNPA) Codes**

Direct Inward Dialing (DID)



(DS2000 Only) Use the top portion of this page to specify the number of incoming DID digits that should be translated. Use the bottom of portion of this page, as well as the remaining DID tabs, to enter data in the DID Translation Table. There are 100 table entries. Each entry specifies the DID digits received, the day routing for the call, and the night routing for the call. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1401 - Number of DID Digits**
- **1402 - DID Translation Table**
- **1403 - DID MFC Dialing Category**

Description

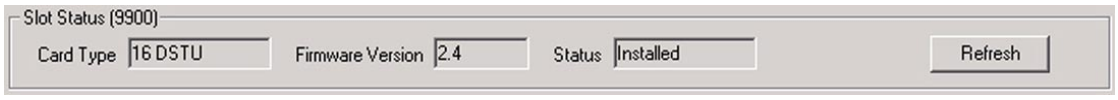
Use *Programming: Ports (DS2000)* to set up the PCB slots in the DS2000.

Programming Shortcut

Hardware Toolbar Controls

Init	Auto-ID	Swap	Send	Undo
Init	Initializes (reorders) the PCB slots. • Click *Init* to have the system reorder all the installed PCBs from left to right (similar to initial power up). • ***Important!* If PCBs of the same type are not installed sequentially from left to right, clicking Init will move extensions to different PCBs. This could disrupt service in a functioning system.**
Auto-ID	If you plug in a PCB while your PC Program session is connected, click *Auto-ID* to include the new PCB in your programming. • *Auto-ID* automatically adds the new PCB, using the next consecutive group of available port numbers. • If you don't click *Auto-ID* after adding a new PCB, it will function correctly but ***not*** be included in the PC program until you exit and reconnect. • To display the formation about a new PCB without including it in the PC Program session, click *Refresh* instead. See *Slot Status* on page 3-32 for more.
Swap	Swaps the programming between two slots.
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

Slot Status



	Displays the type of PCB plugged into the slot.
	Shows the firmware version used by the PCB plugged into the slot.
	Indicates the status of the PCB plugged into the slot. • **Installed** The PCB is physically installed and ***is*** part of the current PC Program session. • **Not installed** The PCB is physically installed but ***is not*** part of the current PC Program session. (This occurs when you install a PCB and click *Refresh* to display the slot's data.) • **Blank** The PC Program thinks the slot is empty.
	Click *Refresh* to display the information about a PCB you have plugged in ***while*** your PC Program session was connected to the system. *Refresh* only displays the PCB's information – it doesn't include the PCB in your open session. • The PCB will function correctly even though it is not included in your programming session. • To automatically add the new PCB to your session, click *Auto-ID* instead. See *Hardware Toolbar Controls* on page 3-31 for more.

Slot 1 through Slot 8

Use the upper portion of this page to set up your DSTU and ASTU PCBs. Use the lower portion of this page to set up your ATRU and other trunk PCBs. These options allow you to:

- Set up a system "off-line" without any PCBs plugged in.
- Uninstall (remove) an installed PCB. (You may want to do this if you need to change the order of your PCBs.)
- Change the Hardware Port to station assignments on an installed PCB. This lets you swap programming for two devices in software without cross-connection.
- Swap the station assignments (and all related programming) of two installed PCBs, without cross-connection.

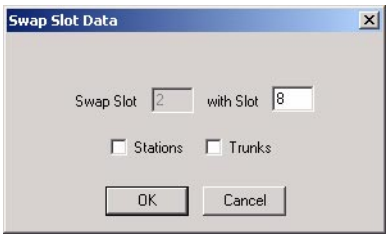
Note that all slots except slot 1 can have both a station and trunk PCB programmed. The system "activates" the programming for whichever PCB is plugged in. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **9902 - Set Up Stations (DS2000)**
- **9903 - Set Up Trunks (DS2000)**
- **9904 - T1/E1 Slot Configuration**

Swapping Slots

To swap the programming between two slots:

1. Select the tab for one of the slots you want to swap (e.g., *Slot 2*).
2. Click *Swap*. You see:



3. In the *with Slot* field, enter the number of the slot with which you want to swap all programming (e.g., 8).
4. Select the type of data you want to swap (*Stations*, *Trunks*, or **both**) and click *OK*.

Description

Use *Programming: Ports (DS1000)* to set up the system's digital ports, analog ports, Door Boxes and trunk ports.

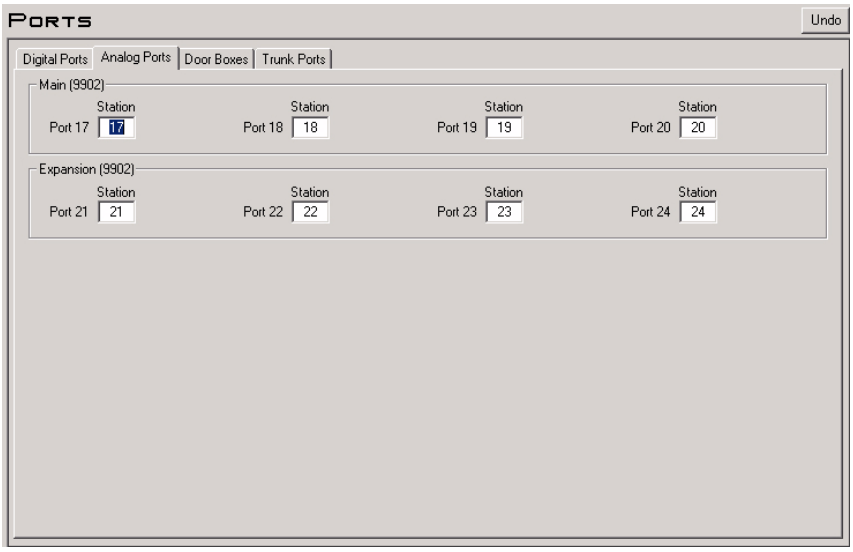
Programming Shortcut

Hardware Toolbar Controls

Digital Ports

Use this page to set up the system's digital ports. This page applies to keysets, UltraMail, and 2-OPX Modules.

Analog Ports



Use this page to set up the system's analog ports. This page applies to analog telephones and analog voice mail (such as VANGARD Mail and NVM-2e). By swapping the port assignments between two analog ports (e.g., ports 17 and 18), you can swap all the related programming (and extension numbers) between the two devices. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **9902 - Set Up Stations (DS1000)**

Door Boxes

Use this page to set up the system's analog Door Box ports. By swapping the port assignments between the two door boxes (e.g., ports 25 and 26), you can swap all the related programming (and extension numbers) between the two devices. Refer to the following in the *DS1000/2000 Software Manual* for more:

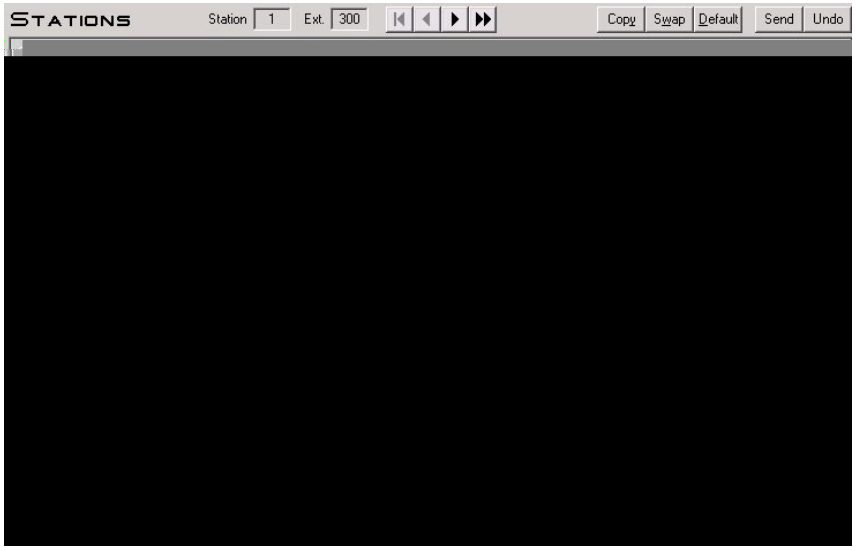
- **9902 - Set Up Stations (DS1000)**

Trunk Ports

Use this page to set up the system's trunk ports. By swapping the port assignments between two trunk ports (e.g., ports 1 and 2), you can swap all the related programming (and extension numbers) between the two devices. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **9903 - Set Up Trunks (DS1000)**

Options



Use this page to set up additional station feature options. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1802 - Extension Options (Part 1)**
- **1807 - Extension Options (Part 2)**

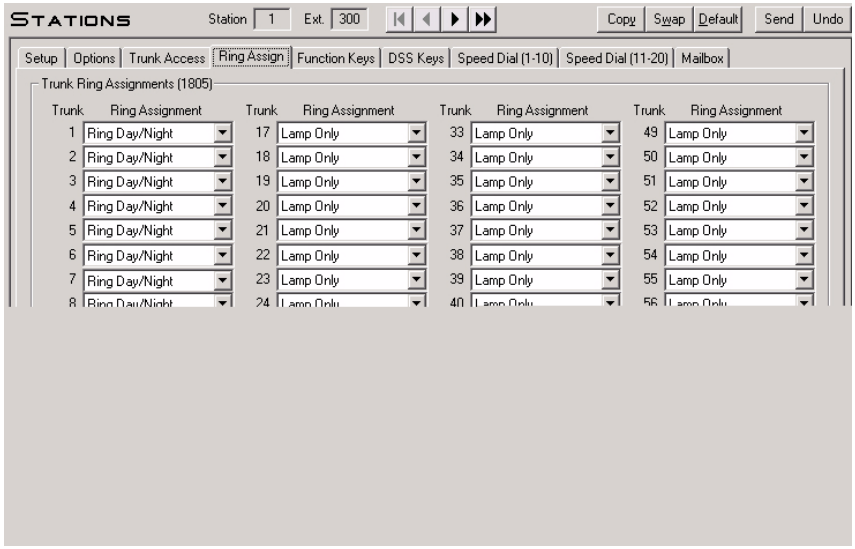
Trunk Access

Stations

Use this page to set up the trunk access assignments for each station. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1803 - Extension Line Access Assignments**

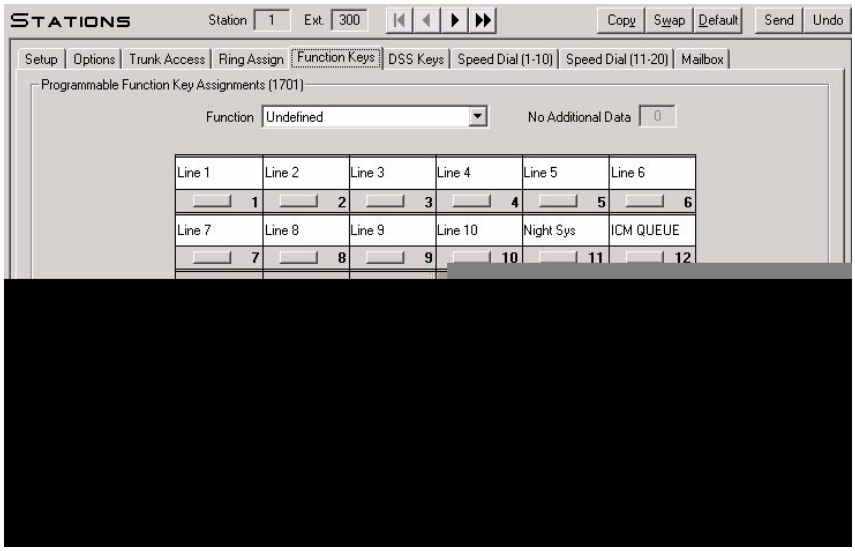
Ring Assignments



Use this page to set up incoming ringing for each trunk at each station. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1805 - Ring Assignments**

Programmable Function Keys



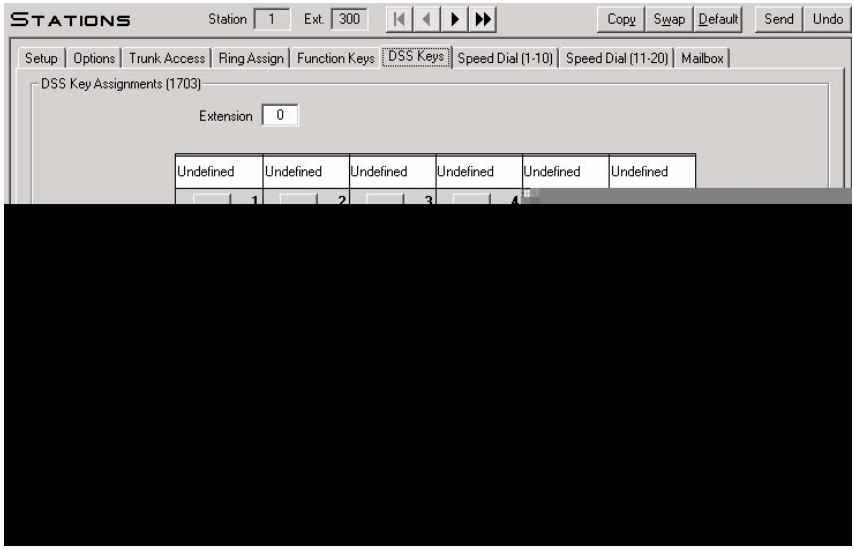
Use this page to set up a station's Programmable Function Key assignments. If you have a 22-button telephone, only the first two rows of keys are available. To assign a Programmable Function Key:

1. Pick a key type from the *Key Function* drop-down box.
2. Enter any additional data (such as Park Orbit or Hotline partner) in the *Additional Data* field.
3. Click the key to which you want to assign the data.
   - You can click additional keys to enter a sequence of assignments (such as consecutive Hotlines).

Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1701 - Programmable Function Key Assignments**

DSS Keys



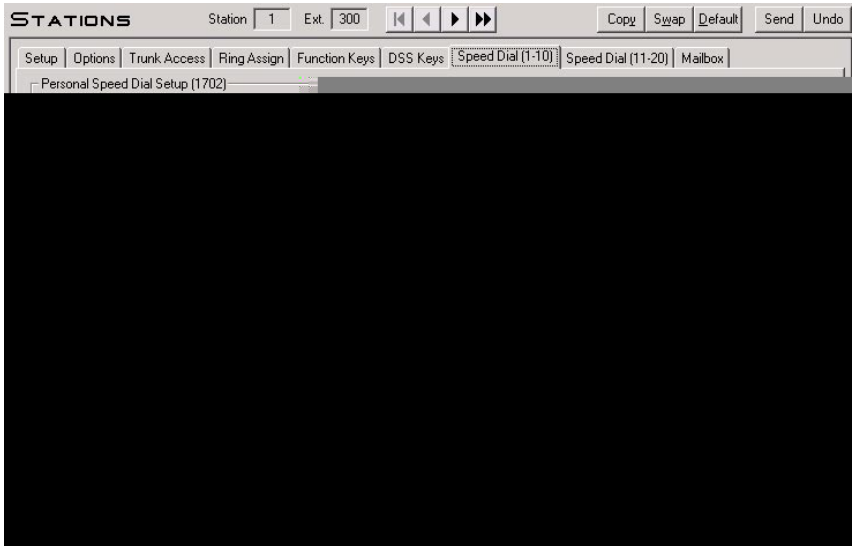
Use this page to assign a station's DSS Keys. If you have a 22-button telephone, only the first two rows of keys are available. To assign a DSS Key:

1. Enable (check) *Busy Lamp Field* in the *Options* page.
2. On the *DSS Keys* page, enter the number of the extension you want assigned to the DSS Key.
3. Click the key to which you want to assign the data.
   - You can click additional keys to enter a sequence of DSS assignments.

Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1703 - DSS Key Assignments**

Speed Dial (Personal) Bins 1-10



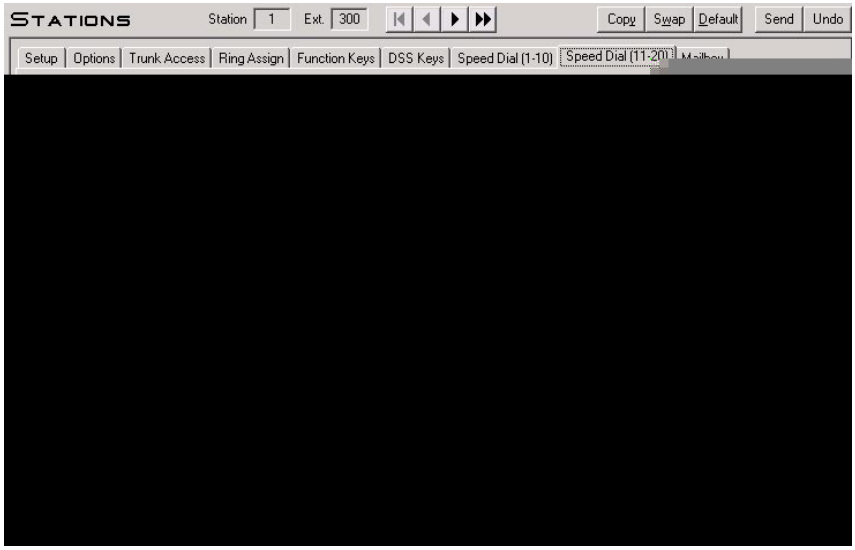
Use this page to assign a station's first 10 Personal Speed Dial bins (701-710). Be sure to follow all the normal Personal Speed Dial restrictions and guidelines. To enter a Flash, type F. To enter a pause, type P. Names can be up to 15 characters long, using digits 0-9, upper and lower case letters, spaces, and the following special characters:

&	‘
-	:
/	

Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1702 - Personal Speed Dial**

Speed Dial (Personal) Bins 11-20



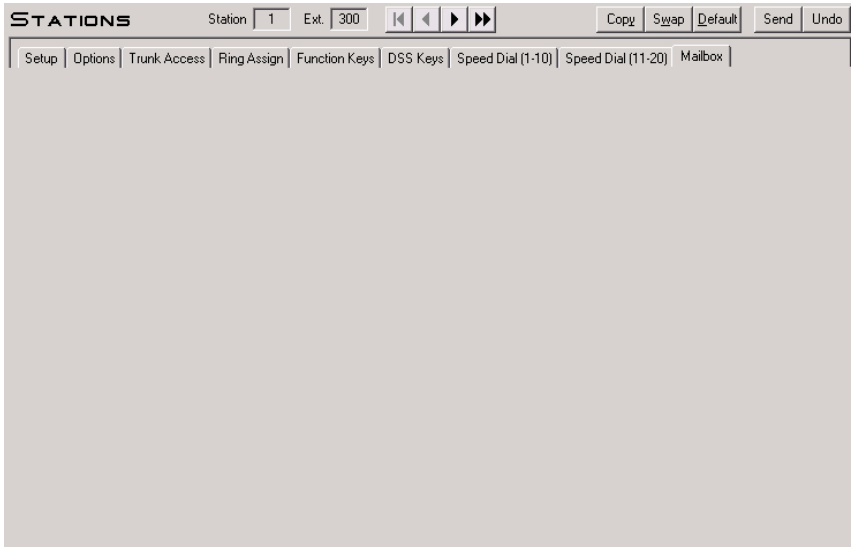
Use this page to assign a station's second 10 Personal Speed Dial bins (711-720). Be sure to follow all the normal Personal Speed Dial restrictions and guidelines. To enter a Flash, type F. To enter a pause, type P. Names can be up to 15 characters long, using digits 0-9, upper and lower case letters, spaces, and the following special characters:

&	‘
-	:
/	

Refer to the following in the *DS1000/2000 Software Manual* for more:

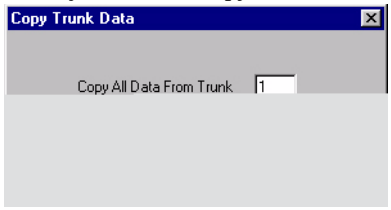
- **1702 - Personal Speed Dial**

Mailbox

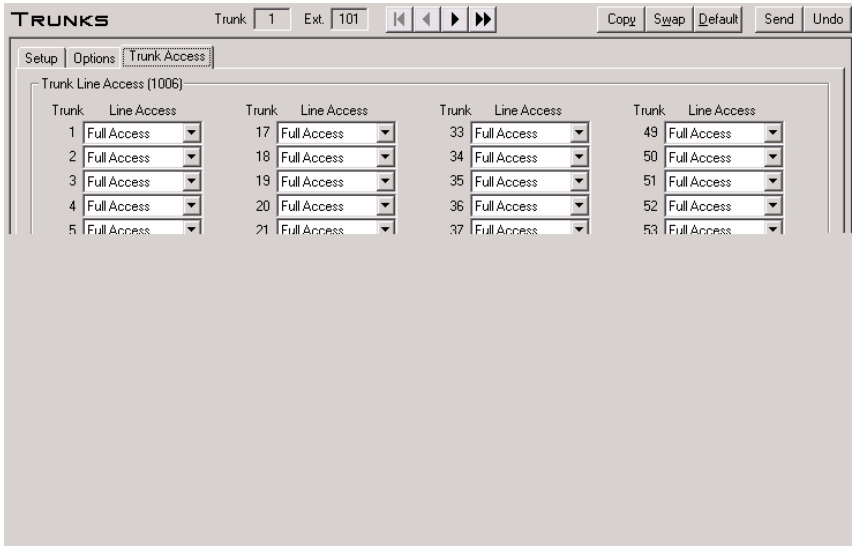


Use this page to assign the station's IntraMail mailbox options (if installed). (To set up system-wide options for the IntraMail Voice Mail, see *Programming: Voice Mail* on page 3-62.*)* Refer to the following in the *IntraMail System Guide* for more:

- **1808 - IntraMail Mailbox Options**

	3. Click *OK*. 4. When you see the *Copy Trunk Data* screen.  Select the source and destination trunk number(s). - The source is the trunk from which you want to copy. - The destination is the trunk or range of trunks that should receive the copied data. 5. Click *OK*.
Swap	Swaps the programming between two trunks. Note that this option *does not* swap trunk numbers (see *Programming: Extension Numbering* instead). 1. Click the *Swap* button. 2. When you see the *Trunk Copy/Swap/Default Option* screen, select the programs you want to swap, or click *All* to swap all listed programs. 3. Click *OK*. 4. When you see the *Swap Trunk Data* screen: Select the source and destination ports and click *OK*.
Default	Resets the current page to its default settings. 1. Click the *Default* button. 2. When you see the *Trunk Copy/Swap/Default Option* screen, select the programs you want to default, or click *All* to default all listed programs. 3. Click *OK*.
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

Trunk Access



Use this page to set up individual trunk access. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1006 - Outgoing Individual Trunk Access**

3

System Numbering

Use *Programming: Extension Numbering* to set up the system's number plan, including station and trunk extension numbers, UCD Hunting Groups, Ring Groups, and feature access digits.

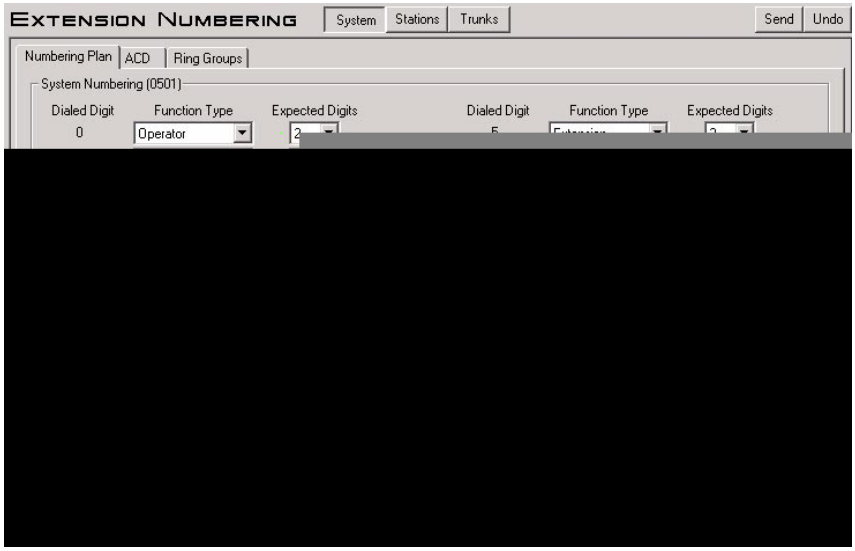
Programming Shortcut

Numbering Toolbar Controls

	Click to access the system numbering options. See *System Numbering* on page 3-51 for more.
Stations	Click to access the station numbering options. See *Station Numbering* on page 3-52 for more.
Trunks	Click to access the trunk numbering options. See *Trunk Numbering* on page 3-53 for more.
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

System Numbering

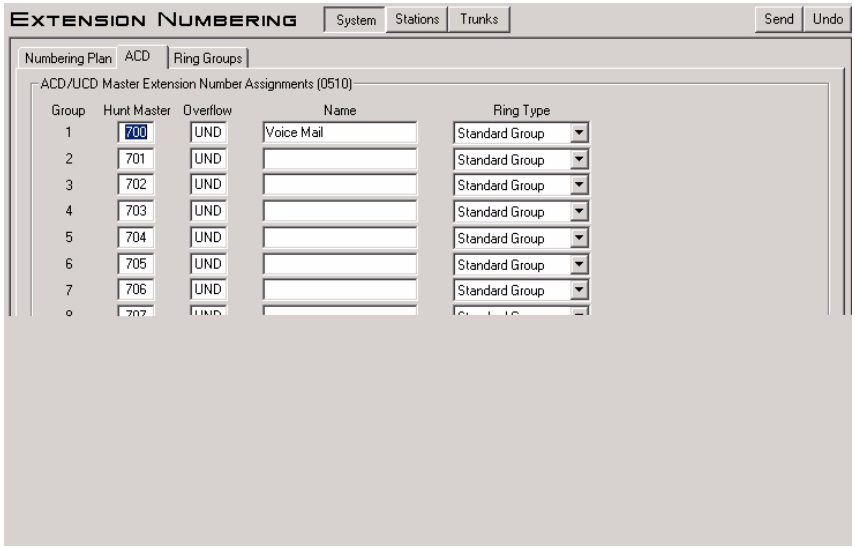
Numbering Plan



Use this page set up the system's number plan. For each dialed digit (0-9, excluding # and *), assign a Function Type and the number of Expected Digits. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0501 - Numbering Plan**

UCD Hunting Group Numbering



Use this page to set up the system's UCD Hunting Groups. For each of the 8 groups, you can assign a Master Number, Overflow Destination, Name, and Distinctive Ringing Ring Type. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0510 - ACD/UCD Master Extension Numbers and Names**

Description

The *Programming: Toll Restriction* option provides access to the Toll Restriction programming.

Programming Shortcut

Toll Restriction Toolbar Controls

Level 1	Displays the Toll Restriction Level you are programming.
	Go back to Toll Restriction Level 1.
	Go to the previous Toll Restriction Level.
	Go to the next Toll Restriction Level.
	Jump (go to) a Toll Restriction Level.
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

Options

Use this page to enable or disable various options for the selected Toll Restriction Level (1-7). Refer to the following in the *DS1000/2000 Software Manual* for more:

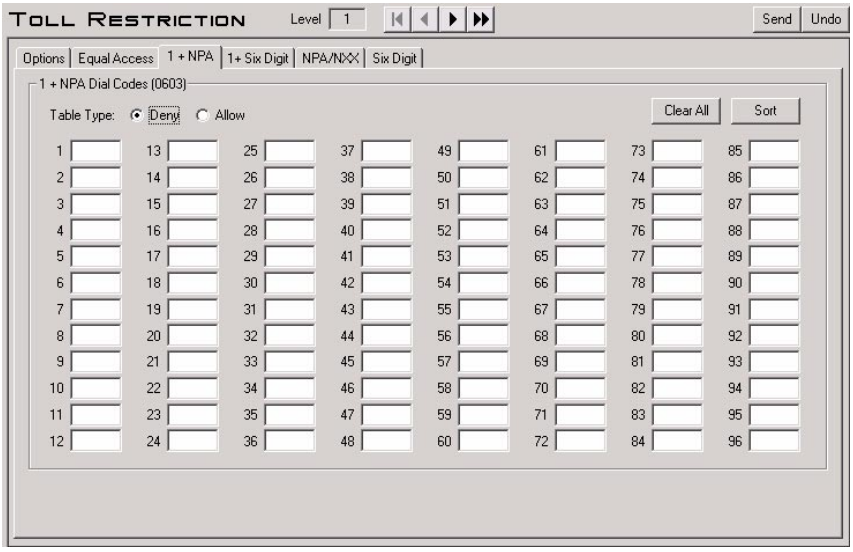
- **0601 - Configure Toll Level Options**

Equal Access

Use this page to set up the 1010 + XXX Equal Access Dialing Table. To erase all the entries in the table, click *Clear All*. To sort your table entries numerically, click *Sort Data*. To set up the table as an Allow Table, click *Allow.* To set up the table as a Deny Table, click *Deny.* Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0602 - 1010 + XXX Equal Access Dialing**

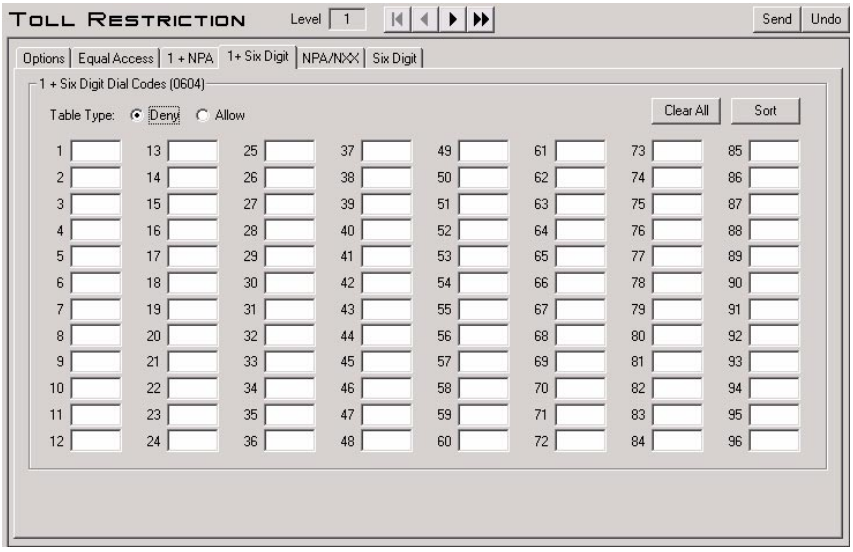
1 + NPA



Use this page to set up the 1 + NPA/NXX Dialing 3-Digit Table. To erase all the entries in the table, click *Clear All*. To sort your table entries numerically, click *Sort Data*. To set up the table as an Allow Table, click *Allow.* To set up the table as a Deny Table, click *Deny.* Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0603 - 1 + NPA/NXX Dialing 3-Digit Table**

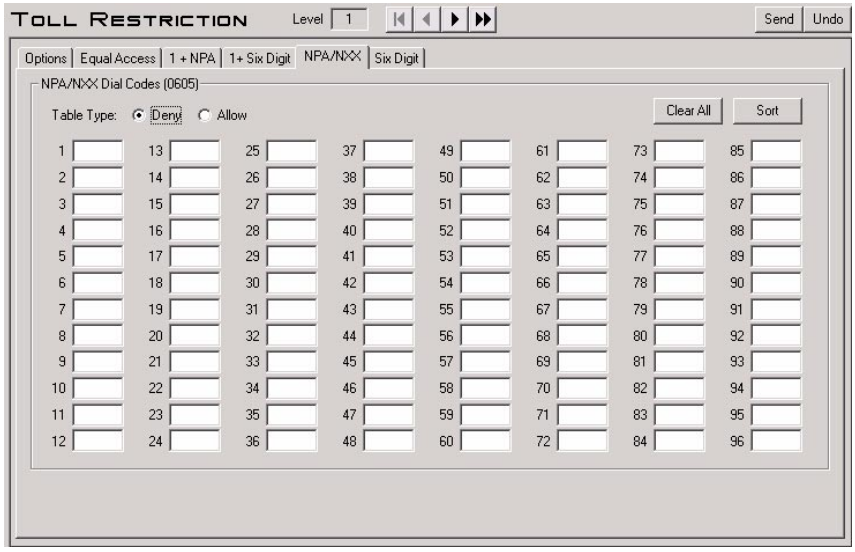
1 + Six Digit



Use this page to set up the 1 + NPA + NXX Dialing 6-Digit Table. To erase all the entries in the table, click *Clear All*. To sort your table entries numerically, click *Sort Data*. To set up the table as an Allow Table, click *Allow.* To set up the table as a Deny Table, click *Deny.* Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0604 - 1 + NPA + NXX Dialing 6-Digit Table**

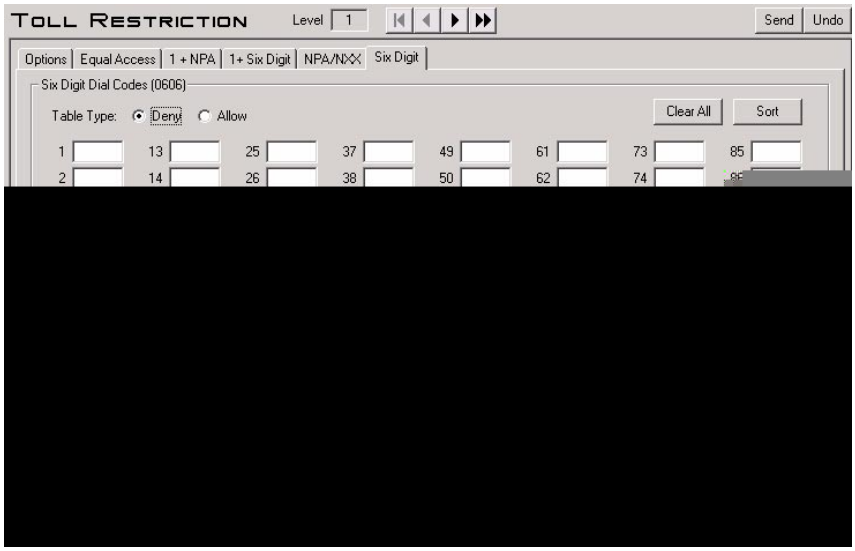
NPA/NXX



Use this page to set up the NPA/NXX Dialing 3-Digit Table. To erase all the entries in the table, click *Clear All*. To sort your table entries numerically, click *Sort Data*. To set up the table as an Allow Table, click *Allow.* To set up the table as a Deny Table, click *Deny.* Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0605 - NPA/NXX Dialing 3-Digit Table**

Six Digit



Use this page to set up the NPA + NXX Dialing 6-Digit Table. To erase all the entries in the table, click *Clear All*. To sort your table entries numerically, click *Sort Data*. To set up the table as an Allow Table, click *Allow.* To set up the table as a Deny Table, click *Deny.* Refer to the following in the *DS1000/2000 Software Manual* for more:

- **0606 - NPA + NXX Dialing 6-Digit Table**

Description

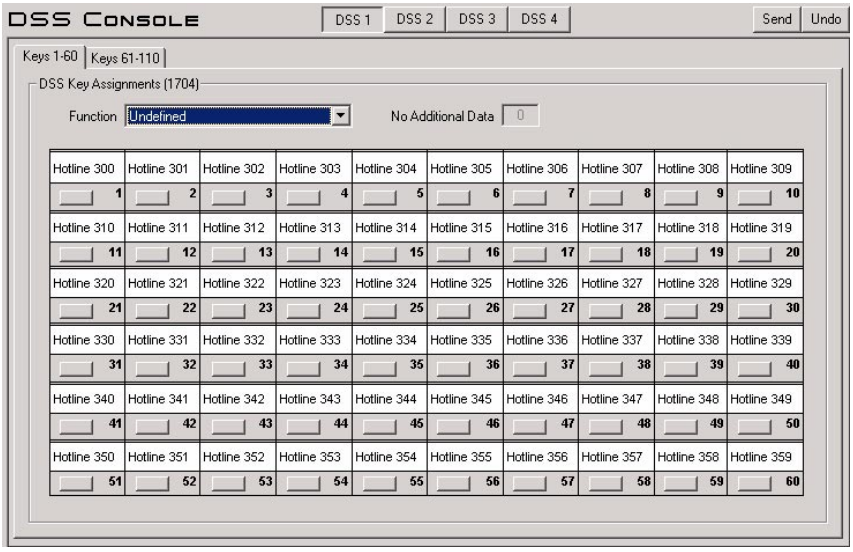
The *Programming: DSS Console* option allows you to program the key assignments on the system's DSS Consoles. You can install up to 4 DSS Consoles (called blocks DSS1-DSS4).

Programming Shortcut

DSS Console Toolbar Controls

DSS 1	Click to program the keys for DSS Console 1 (block 1).
DSS 2	Click to program the keys for DSS Console 2 (block 2).
DSS 3	Click to program the keys for DSS Console 3 (block 3).
DSS 4	Click to program the keys for DSS Console 4 (block 4).
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

Keys 1-60 and Keys 61-110



Use this page to set up the selected DSS Console's Programmable Function Key assignments. Click the *Keys 1-60* tab to program keys 1-60. Click the *Keys 61-110* tab to program keys 61-110. To assign a DSS Console Programmable Function Key:

1. Pick a key type from the *Key Function* drop-down box.
2. Enter any additional data (such as Park Orbit or Hotline partner) in the *Additional Data* field.
3. Click the key to which you want to assign the data.
   - You can click additional keys to enter a sequence of assignments (such as consecutive Hotlines).

The 24-Button DSS Console uses the first 24 keys on this page. If you prefer, you can program all 110 keys in case you decide to upgrade to a 110-Button DSS Console later on.

Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1704 - DSS Console Key Assignment**

Description

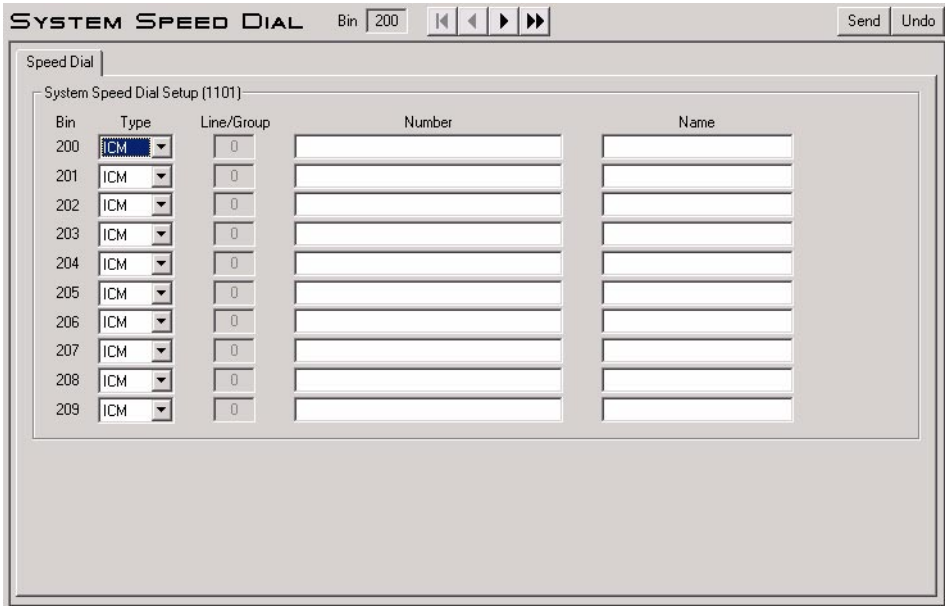
Use *Programming: System Speed Dial* to enter the system's Speed Dial numbers and names.

Programming Shortcut

System Speed Dial Toolbar Controls

Bin 200	Displays the first (lowest numbered) bin on the currently displayed page.
	Go back to the first page (normally bin 200).
	Go to the previous page.
	Go to the next page.
	Jump (go to) a the page containing a specific bin number.
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

System Speed Dial Numbers



Use this page to assign a station's first 10 System Speed Dial bins (normally 200-209).

- To assign additional System Speed Dial bins, click the *Jump* (go to) toolbar button and enter the bin you want to program. The page that contains that bin will display.
- Be sure to follow all the normal Personal Speed Dial restrictions and guidelines. To enter a Flash, type F. To enter a pause, type P.
- System Speed Numbers can be either 2, 3 or 4 digits long, depending on the setting of *Programming: System: Options: System Speed Dial Code Digits Setup* on page 3-14.
- To assign Personal Speed Dial numbers to stations, go to *Speed Dial (Personal) Bins 1-10* on page 3-43.

Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1101 - System Speed Dial Numbers**

Description

Use *Programming: Voice Mail* to set up the Voice Mail and IntraMail system-wide options. (To set up options for each IntraMail voice mailbox, see *Programming: Stations: Mailbox* on page 3-45.*)*

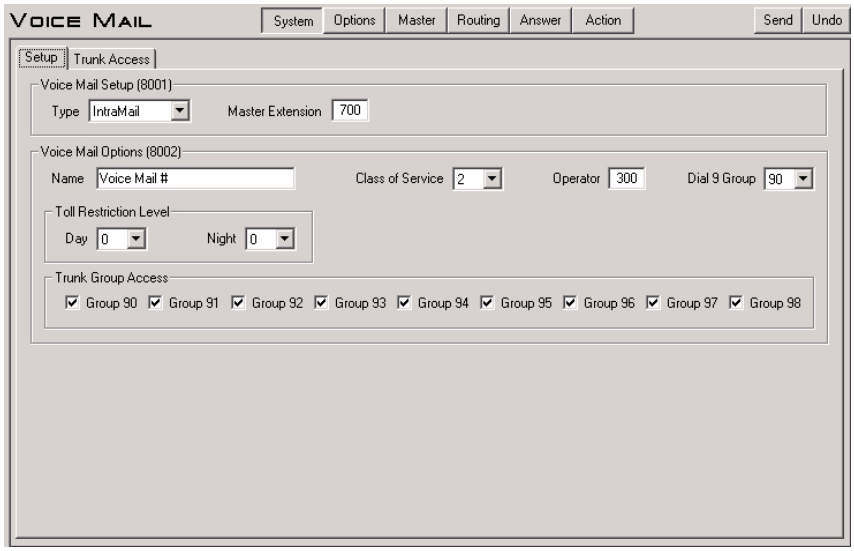
Programming Shortcut

IntraMail Toolbar Controls

System	Click to set up options for Voice Mail ports.
Options	Click to set up IntraMail System Options.
Master	Click to set up the IntraMail Master Mailboxes.
Routing	Click to set up the IntraMail Routing Mailbox options.
Answer	Click to set up the IntraMail Answer Tables.
Action	Click the set up the IntraMail Dial Action Tables.
Send	While on-line, sends the programmed changes to the connected telephone system. • *Send* sends *all* changes made since the last *Send* command. • This button is not available while off-line.
Undo	Cancels any changes you made to the current page.

Voice Mail Setup

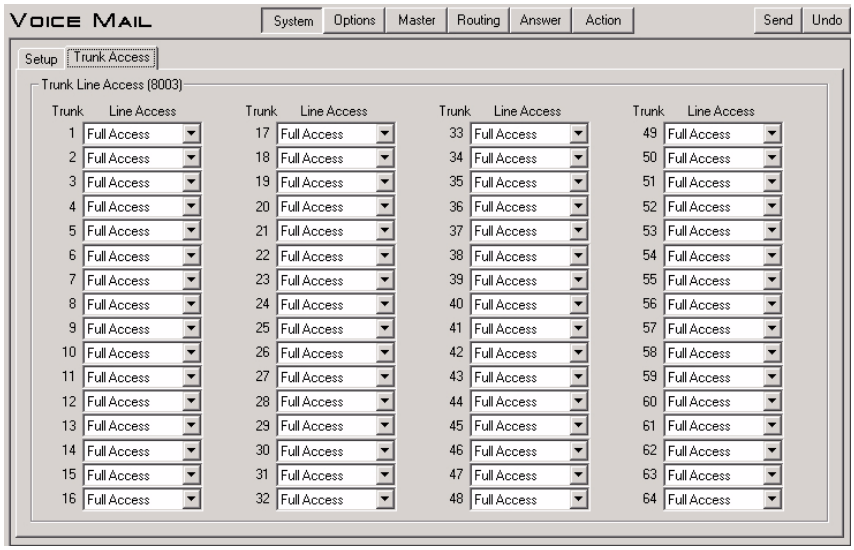
Voice Mail Setup



Use this page to set up various options for Voice Mail ports. Refer to the following in the *IntraMail System Guide* for more:

- **8001 - Voice Mail Setup**
- **8002 - Voice Mail Port Options (Part 1)**

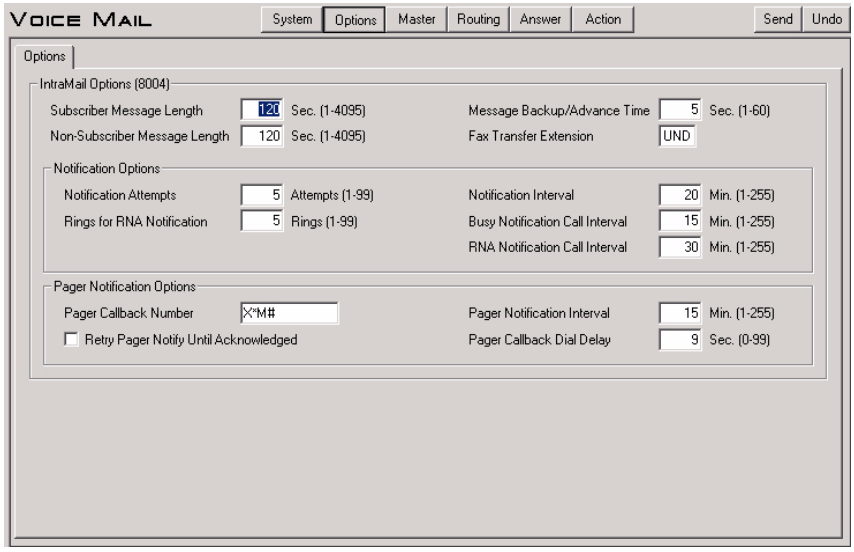
Voice Mail Outgoing Trunk Access



Use this page to set up outgoing trunk group access for Voice Mail ports. Refer to the following in the *IntraMail System Guide* for more:

- **8003 - Voice Mail Port Options (Part 2)**

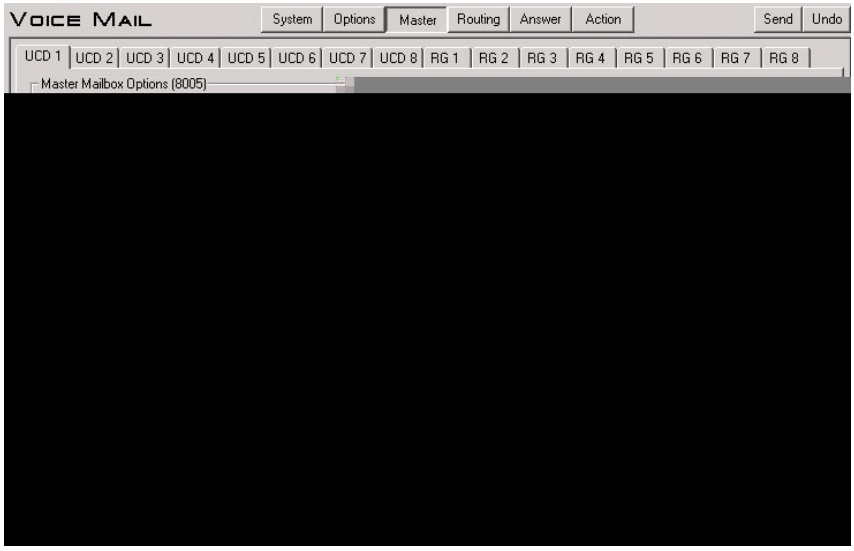
IntraMail System Options



Use this page to set various IntraMail System Options. Refer to the following in the *IntraMail System Guide* for more:

- **8004 - IntraMail System Options**

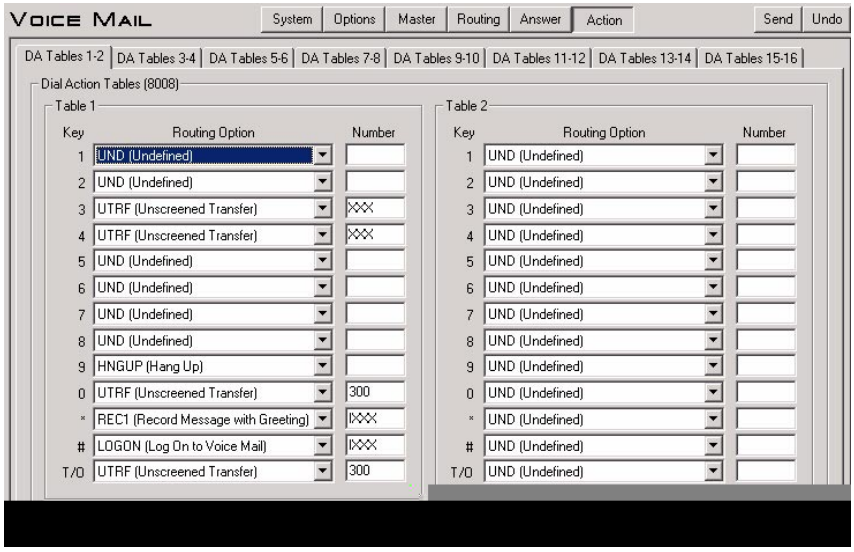
IntraMail Master Mailbox Options



Use this page to set up the 16 IntraMail Master Mailboxes. Refer to the following in the *IntraMail System Guide* for more:

- **8005 - IntraMail Master Mailboxes**

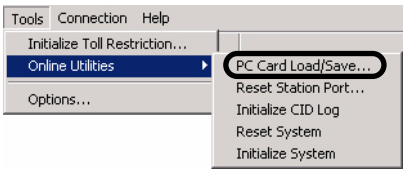
IntraMail Dial Action Tables



Use this page to set up the 16 IntraMail Dial Action Tables. Refer to the following in the *IntraMail System Guide* for more:

- **8008 - IntraMail Dial Action Tables**

Description



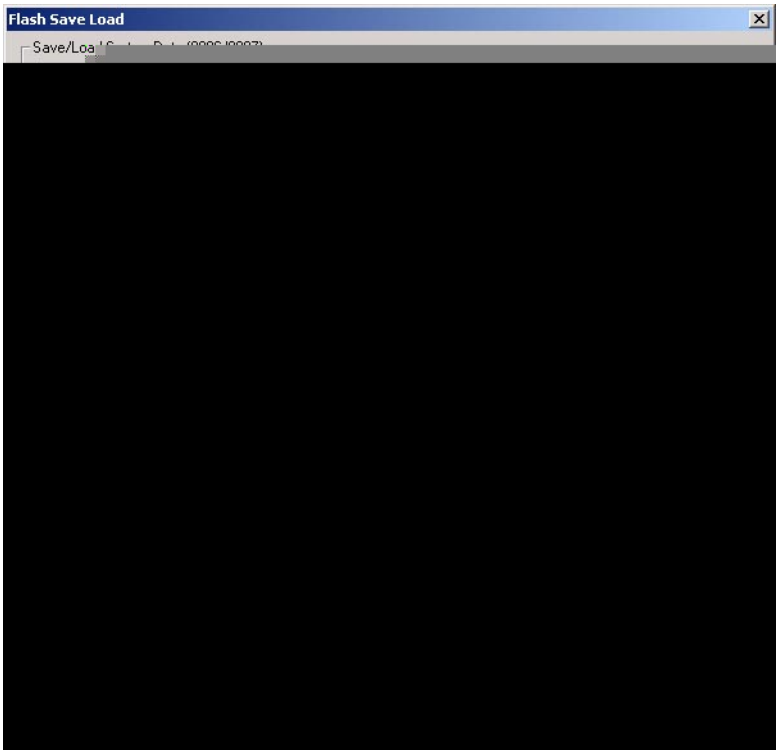
In DS2000, *PC Card Load/Save* allows you to back the site data to a Data Base PC Card (P/N 85880), restore site data from the PC Card, and completely erase the data stored on the PC Card. *PC Card Load/Save* combines the functions of the following DS2000 telephone system programs:

- **9906 - Database Save**
- **9907 - Database Load**
- **9908 - PC Card Erase Utility**

To save a DS2000 database to a PC Card (P/N 85880):

1. Following the instructions in your system's *Hardware Manual*, insert Data Base PC Card P/N 85880 into the CPU.
2. Click *Tools: Online Utilities: PC Card Load/Save*. You see:

3. Since *PC Card Load/Save* backs up whatever data is in the DS2000 CPU, be sure you have uploaded all the required data and click *OK*. You see *Save/Load Main Screen*:



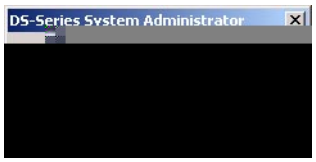
4. In the *Location* field, enter the address of the database (00-15) to which you want to save the data.

5. Click *Save*. You see:

6. Enter a name for the database you wish to save (up to 15 characters) and click *OK*. You see:

7. Enter the system password (normally 372000) and click *OK*. You see:

8. Click *OK* to begin the database save. After a few minutes, the save completes and you see:



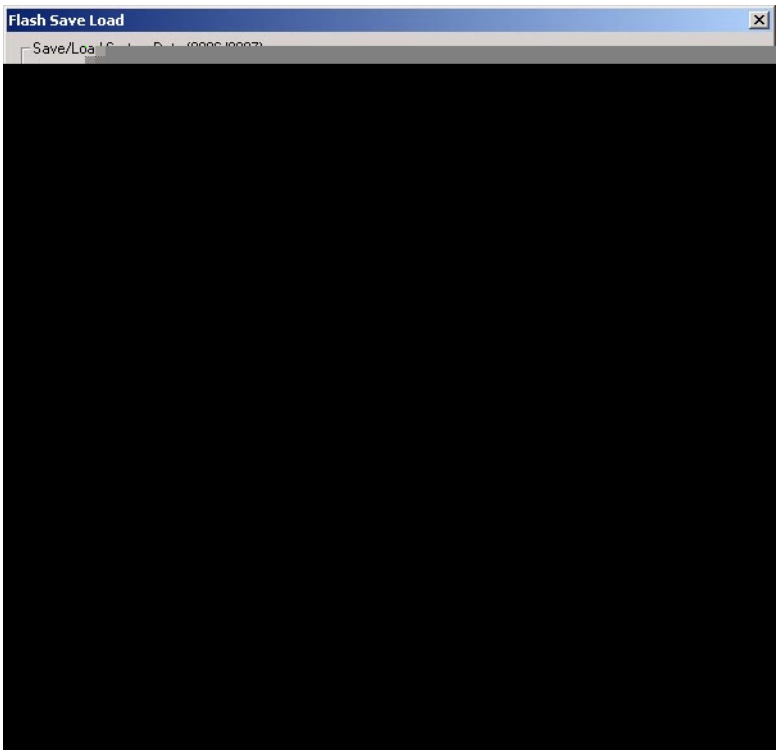
9. Click *OK* to return to the *Save/Load Main Screen*.

To format (erase) a DS2000 database PC Card (P/N 85880):

Formatting the PC Card will erase all data stored on the card.

1. Following the instructions in your system's *Hardware Manual*, insert Data Base PC Card P/N 85880 into the CPU.
2. Click *Tools: Online Utilities: PC Card Load/Save*. You see:

3. Click *OK*. You see *Save/Load Main Screen*:



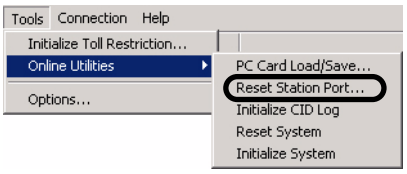
4. Click *Reformat Flash*. You see:

5. Enter the system password (normally 372000) and click *OK*. You see:

6. Click *OK* to reformat the PC Card. When the reformat completes, you see:

7. Click *OK* to return to the *Save/Load Main Screen.*
   - You must reconnect to the system to continue programming.

Description



Reset Station Port allows you to reset an extension. This is the same as using telephone system program **9901 - Reset Station Port**.

To reset an extension:

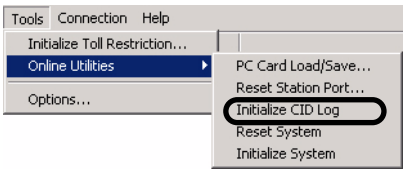
1. Click *Tools: Online Utilities: Reset Station Port*. You see:

2. Enter the number of the extension you want to reset (e.g., 300) and click *OK*. You see:

3. Click *Yes*. The extension resets and you see:

4. Click *OK*.

Description



Initialize CID LOG to initialize (clear) all the Caller ID logs system-wide. This clears all the personal logs as well as all the group logs. It has no effect on other Caller ID programming. This is the same as using telephone system program **9804 - Initialize Caller ID Log Utility**.

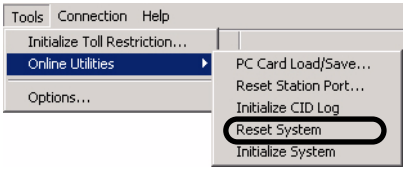
To reset the Caller ID logs:

1. Click *Tools: Online Utilities: Initialize CID Log*. You see:

2. Click *Yes* to initialize the Caller ID logs. You see:

3. Click *OK*.

Description



Use *Reset System* to do a reboot (warm reset) of the system without initializing. This is the same as pressing your system's red reset button.

To reset system:

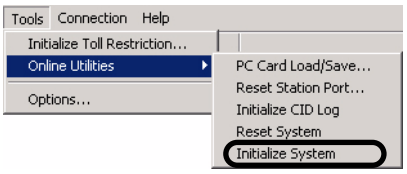
1. Click *Tools: Online Utilities: Reset System*. You see:

2. Click *Yes* to reset the system. You see:

3. Click *OK*.
   - You must reconnect with the system to continue programming.

3

Description



Use *Initialize System* to initialize the system database. ***Initializing the system database erases all your programmed entries and replaces them with the factory-installed default values***. do a reboot (warm reset) of the system without initializing. This is the same as using system program **9804 - Initialize Caller ID Log Utility**.

To initialize the system:

1. Click *Tools: Online Utilities: Initialize System*. You see:

2. Click *Yes* to initialize the system. You see:

3. Click *OK*.
   - You must reconnect with the system to continue programming.

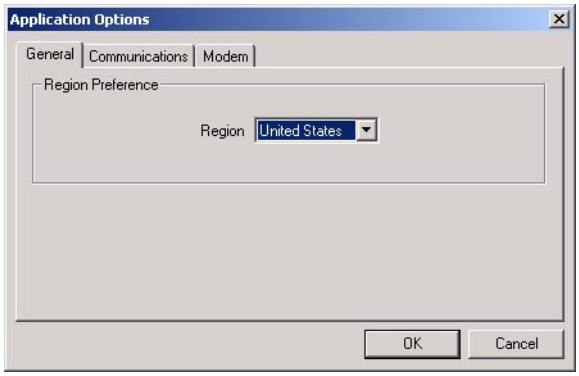
Description

Use *Options: General* to set the Region Preference for new databases you create using the PC Program. **In North America, always choose *United States*** as the Region Preference. Selecting *Latin America* will:

- Enable the Latin American Toll Restriction options in *Programming: Toll Restriction*.
- Enable A-Law Companding in *Programming: System: Setup: Companding*.
- Enable Spanish as the SMDR language in *Programming: System: Setup: SMDR.*
- Enable Spanish as the telephone display language in *Programming: Stations: Options: Display.*
- Change the Time and Date format in *Programming: System: Setup: Time/Date* to (for example) **10 MAR TUE 15:15** (from the US standard of **3-10 TUE 3:15 PM**).

To set the Region Preference:

1. Click *Tools: Options* and click the *General* tab. You see:



2. Make sure *United States* is selected and click *OK*.

Description

Use *Options: Communications* to set the RS-232-C serial port parameters of the PC running the DS 1000/2000 PC Program.When connected directly to the telephone system, the PC will use these settings. ***Do not change these settings once connected.*** Initially, the settings are:

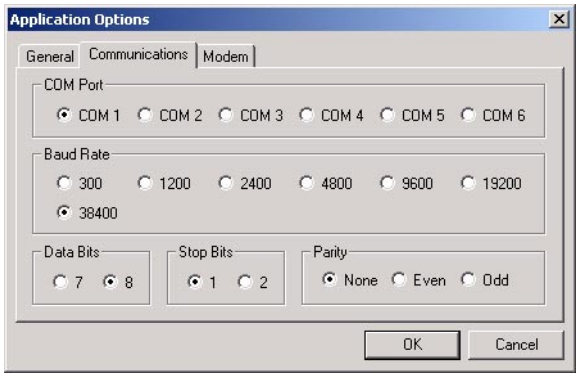
- Com 1 Selected
- 38,400 Baud
- No parity
- 8 data bits
- 1 stop bit

The PC communicates with the telephone system using the settings you enter in this option. When the programming session ends (i.e., you break the connection), the telephone system returns to the settings specified in **0303 - CPU Baud Rate**.

Note: The default baud rate for the telephone system is 19200 baud, with the Fixed Baud Rate option enabled. See *Programming: System: Options* on page 3-14 for more.

To set PC serial port parameters:

1. Click *Tools: Options* and click the *Communications* tab. You see:



2. Make your selections as required and click *OK*.

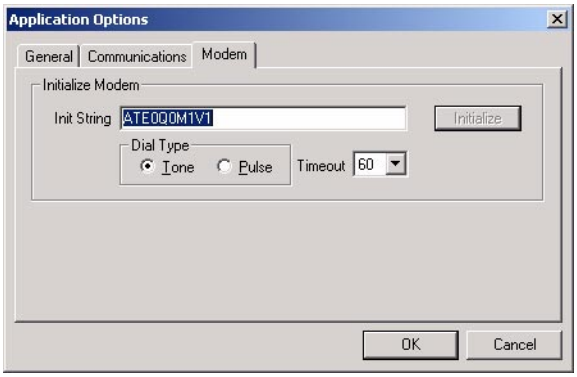
Description

Use *Options: Modem* to set the PC modem's initialization string and whether the modem uses tone (DTMF) or pulse (DP) dialing. *Options: Modem* also sets how long the PC Program will wait for *Timeout* (i.e., for the remote modem to answer and connect).

- The initialization string for your PC modem should be: **ATT E0 Q0 M1 V1**.
- The initialization string for the modem connected to the remote system should be:
  AT Q1 &C1 &D0 &S1 S0=1 E0 &W0 &W1
  Be sure this string includes the command to turn flow control off.
- For more on the modem settings, see *Connection: Remote* on page 3-81.

To set the modem options:

1. Click *Tools: Options* and click the *Modem* tab. You see:



2. Make your selections as required and click *OK*.

Description

Use this option to connect directly from your PC's serial port to the telephone system.

To make a direct connection to the telephone system:

1. Turn to *Chapter 1: Connecting the PC* to review the cabling requirements.
2. Click *Connections: Online*.
   - You can also click the *Direct Connection* button on the button bar.
3. When you see:

   Enter the system password (normally 372000) and click *OK*.
   - The PC communicates with the telephone system using the settings you enter in *Utilities: Initialize Toll Restriction* on page 3-67. When the PC programming session ends (i.e., you break the connection), the telephone system returns to the settings specified in **0303 - CPU Baud Rate**.

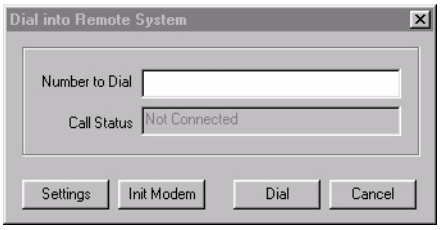
Note: If reconnecting after an unexpected disconnect, you may see a "communication synchronization" error message. Just select this option to try again.

Description

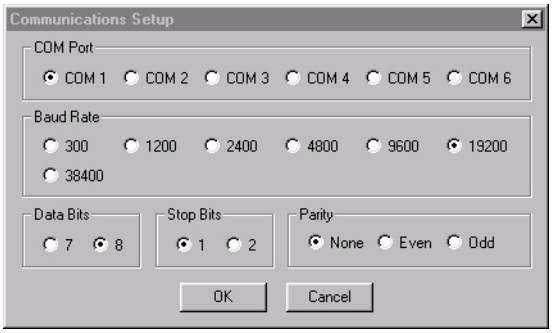
Use this option to connect to the telephone system remotely via modem.

To connect to the telephone system remotely via modem:

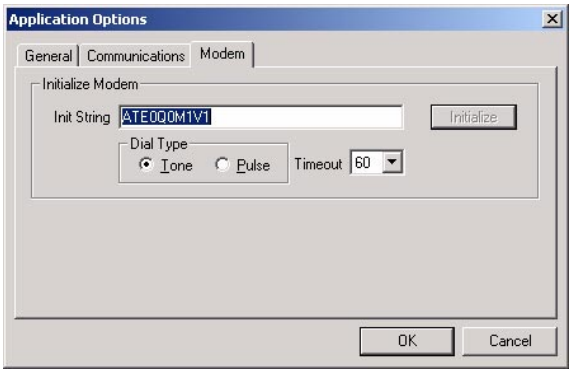
1. Turn to *Chapter 1: Connecting the PC* to review the modem and cabling requirements.
2. Click *Connection: Remote*.
   - You can also click the *Remote Connection* button on the button bar.
3. You see:



4. To verify that your modem port settings are compatible with you modem, click *Settings*. You see:



   - Select the Com port, baud rate, parity, data bits, and stop bits as required.
   - Click *OK* when you are done.
   - ***Do not change these settings once connected.***
5. To verify your PC modem's initialization string, click *Init Modem*. You see:



   - The initialization string for your PC modem should be: **AT E0 Q0 M1 V1**
   - The initialization string for the modem connected to the remote system should be: **AT Q1 &C1 &D0 &S1 S0=1 E0 &W0 &W1**
   - Click *OK* when you are done.
   - Set *Timeout* interval. The remote modem must respond within this interval.

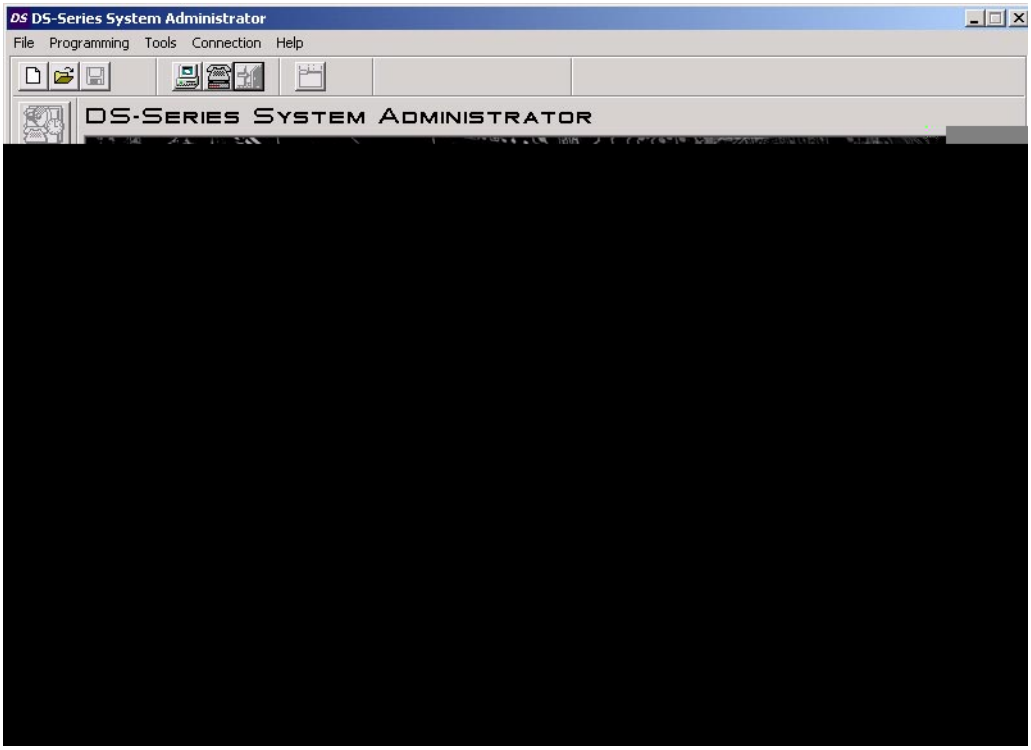
6. In the *Number to Dial* field, enter the phone number of the remote system.
   - The number should contain any required access digits.
   - **To enter a pause (for example, after a trunk access code), enter a comma (,).**
7. Click *Dial*.

Description

This option ends your current programming session and returns you to the opening screen. It is available while on-line or off-line. While on-line, this option breaks (tears down) your direct or modem connection before returning you to the opening screen. This option is the same as *File: Close* and the *Break Connection* button on the button bar.

To break the connection with the telephone system and return to the opening screen:

1. Click *Connection: Break.*
   - You can also click the *Break Connection* button on the button bar.
2. You see:



3

Search For Program Number

Description

If you know a telephone programming program number, use this option to help you locate it in the PC Program.

To find a program number in the PC Program:

1. Click *Help: Search For Program Number*. You see:

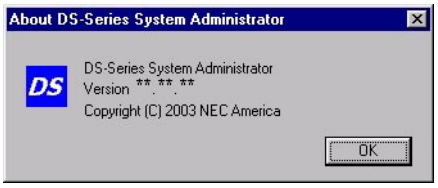
2. Enter the number of the program you want to locate and click *OK*.
   - A dialog box will explain where the program is located.
   - For example, if you entered 1801 and clicked *OK*, you would see:

Description

Use this option to display the PC Program version number.

To display the PC Program Version Number:

1. Click *Help: About*. You see:



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