

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

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

- This is the same as using *File: Open* from the menu bar (see page 3-4).
- Off-line:**
- 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

- This is the same as using *File: Save* from the menu bar (see page 3-7).
- Off-line:**
- 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

- 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.
- Off-line:**
- 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

- 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.
- Off-line:**
- 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

- This is the same as using *Connection: Break* from the menu bar (see page 3-83).
- Off-line:**
- 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)

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**

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.

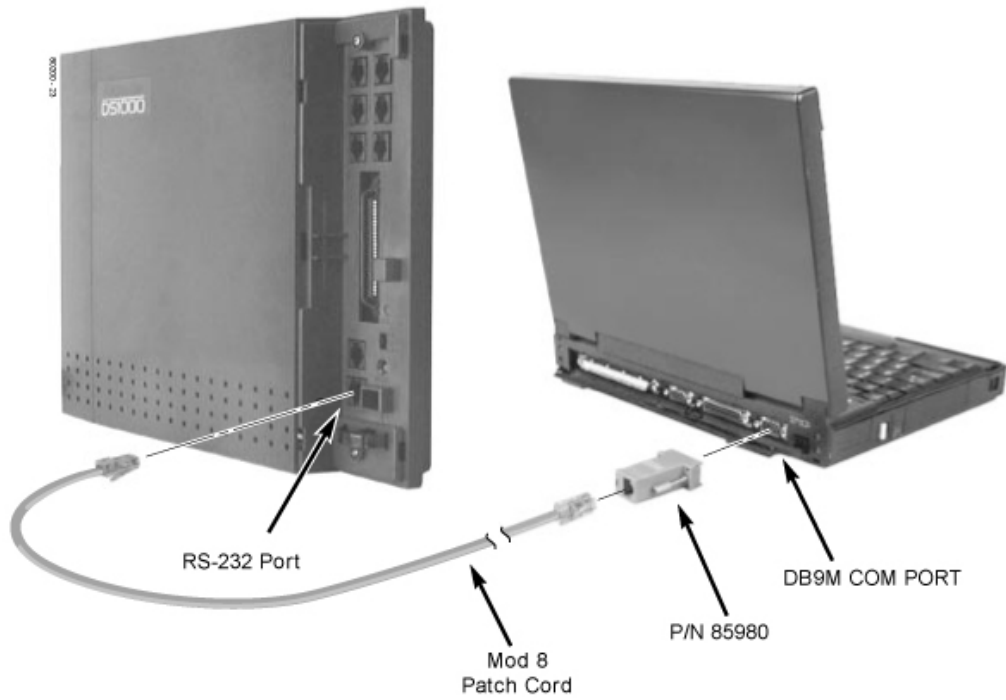


Figure 1-1: DS1000 Direct Connection

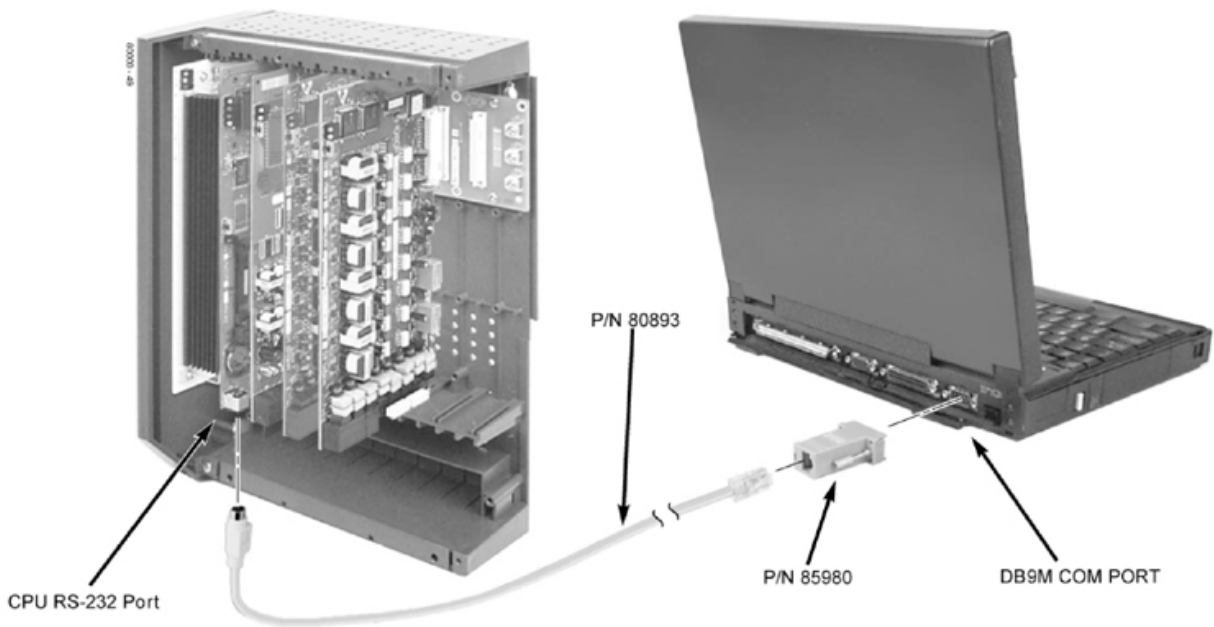


Figure 1-2: DS2000 Direct Connection

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.

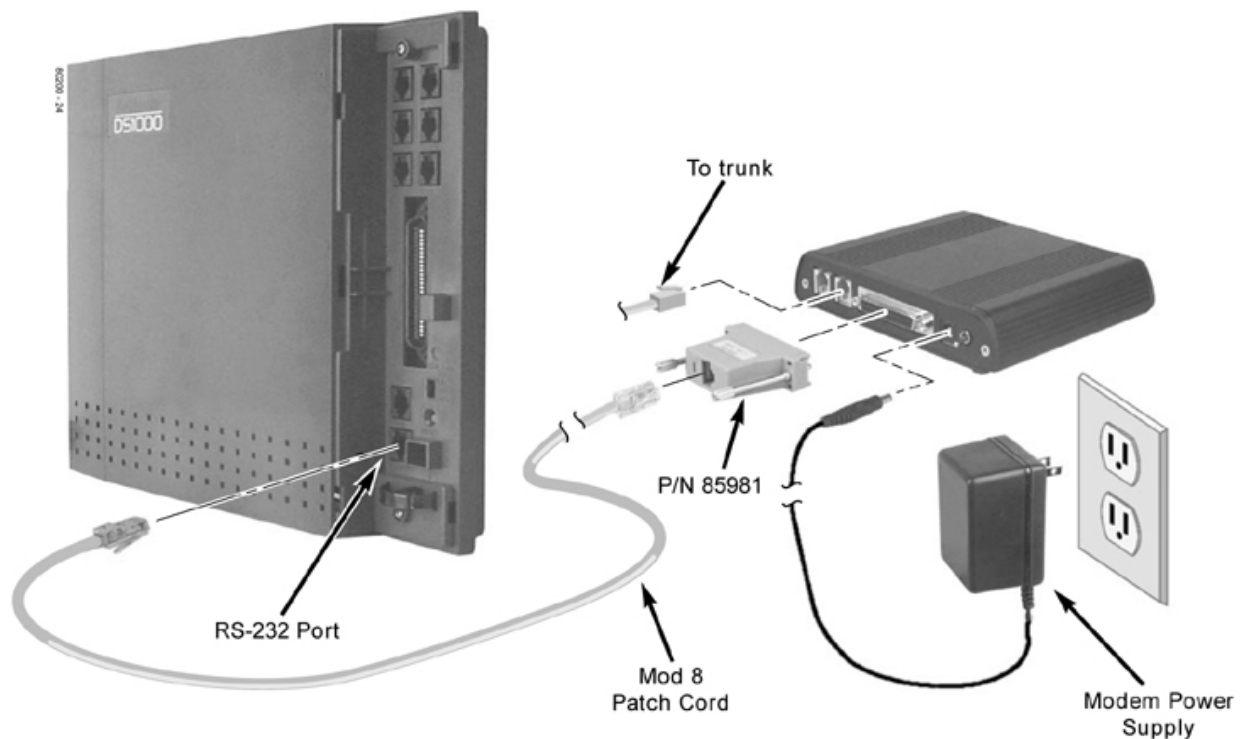


Figure 1-3: DS1000 Remote (Modem) Connection

Connecting a Modem to DS2000

To connect a modem to DS2000 (Figure 1-3):

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 DB25-Mod-8 Adaptor (P/N 85981) into the cable
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.

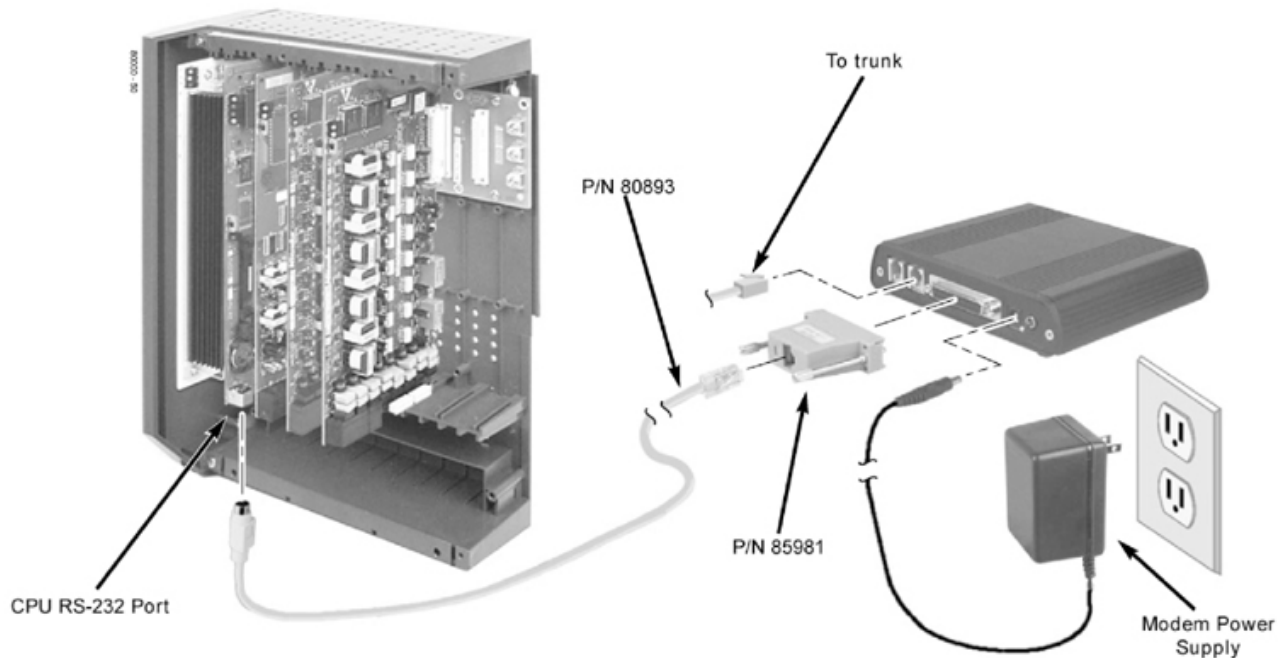


Figure 1-4: DS2000 Remote (Modem) Connection

Making Data Cables

Making Your Own Data Cables

To make your own DS1000 data cables (Figure 1-5):

1. See the illustration below.

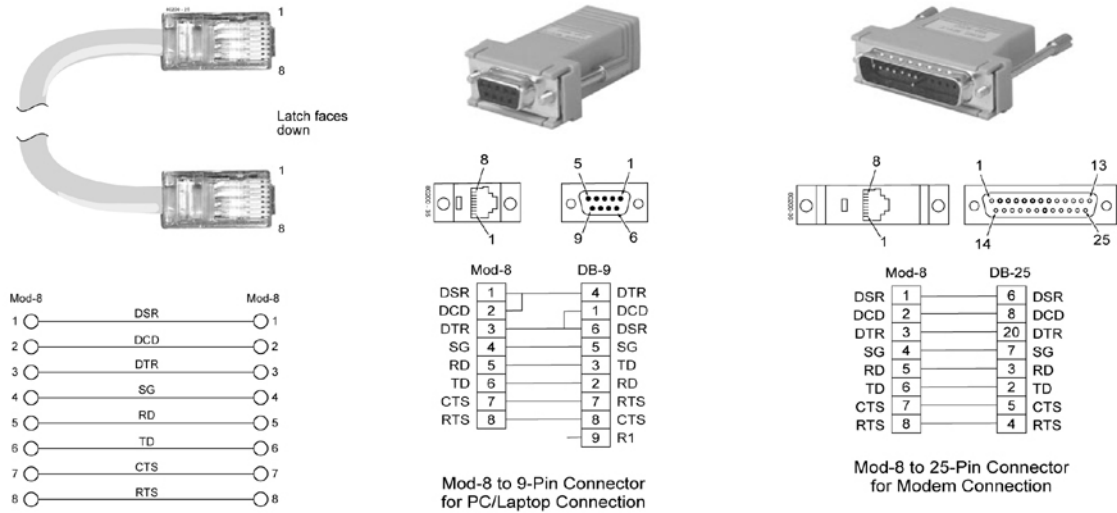


Figure 1-5: Making DS1000 Data Cables

To make your own DS1000 data cables (Figure 1-6):

1. See the illustration below.

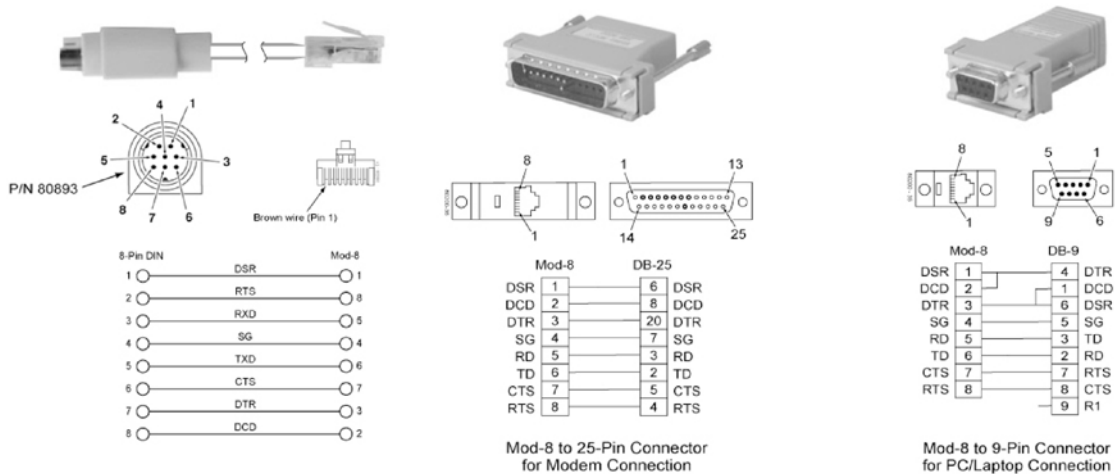


Figure 1-6: Making DS2000 Data Cables

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

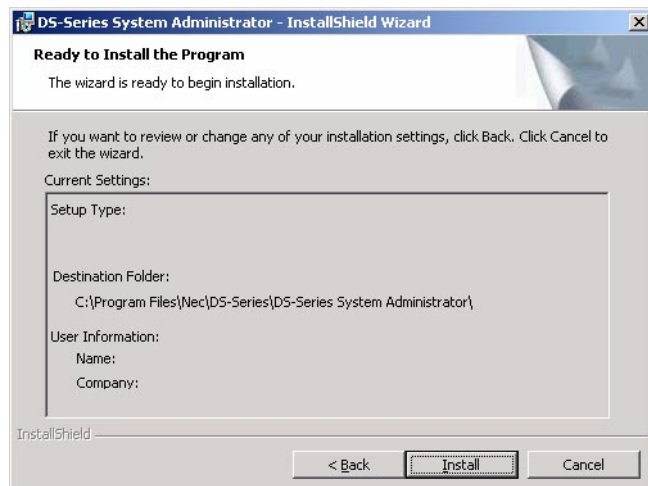
To install the DS1000/2000 PC Program:

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

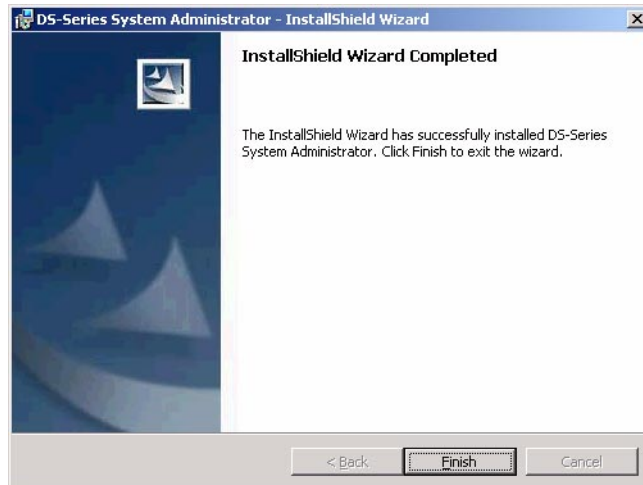
1. Insert your DS1000/2000 System Administrator CD (P/N 80053-V*.**.*).
2. Click **Start + Run + Browse**, then select the 80053-V*.**.* icon.
3. Select the file **DS-Series System Administrator Install.exe** and click **Open**.
4. Click **OK**. After a few minutes, you see:



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:

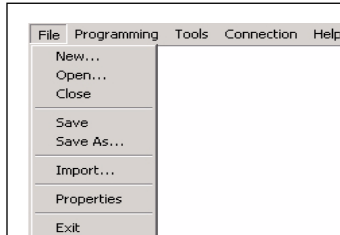
1. Click **Start + Programs + DS Series + DS-Series System Administrator**. You see the opening screen below.



The PC Program Components

Menu Bar

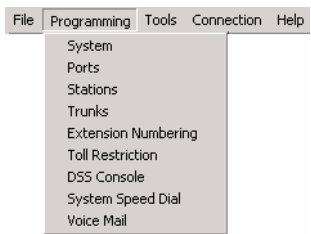
File



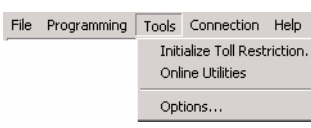
Use the *File* Menu Bar option to open a database, save a database, or import portions of a stored database into your current session.

- *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 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 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.

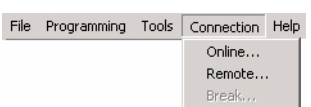
Programming

	<p>The <i>Programming</i> 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:</p> <ul style="list-style-type: none"> • <i>Programming: System</i> on page 3-13. • <i>Programming: Ports</i> on page 3-31 and page 3-34. • <i>Programming: Stations</i> on page 3-37. • <i>Programming: Trunks</i> on page 3-46. • <i>Programming: Extension Numbering</i> on page 3-50. • <i>Programming: Toll Restriction</i> on page 3-54. • <i>Programming: DSS Console</i> on page 3-58. • <i>Programming: System Speed Dial</i> on page 3-60. • <i>Programming: Voice Mail</i> on page 3-62.
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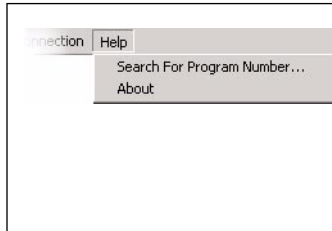
Tools

	<p>The <i>Tools</i> Menu Bar option allows you to:</p> <ul style="list-style-type: none"> • Initialize Toll Restriction. • Use the <i>Online Utilities</i> to perform various system resets, in addition to saving and loading PC Card data (DS2000 only). • Set up additional options, such as: <ul style="list-style-type: none"> - Specifying the region preference (US or Latin America). - Configuring the serial port for direct connections. - Configuring the modem port for remote connections. <p>For more on the <i>Tools</i> options, refer to:</p> <ul style="list-style-type: none"> • <i>Tools: Initialize Toll Restriction</i> on page 3-67. • <i>Tools: Online Utilities: PC Card Load/Save</i> on page 3-68. • <i>Tools: Online Utilities: PC Card Load/Save</i> on page 3-68. • <i>Tools: Online Utilities: Reset Station Port</i> on page 3-73. • <i>Tools: Online Utilities: Initialize Caller ID Log</i> on page 3-74. • <i>Tools: Online Utilities: Reset System</i> on page 3-75. • <i>Tools: Online Utilities: Initialize System</i> on page 3-76. • <i>Tools: Options: General</i> on page 3-77. • <i>Tools: Options: Communications</i> on page 3-78. • <i>Tools: Options: Modem</i> on page 3-79.
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Connection

	<p>Use the <i>Connection</i> Menu Bar option to connect to the telephone system. You can connect directly (<i>Online</i>), connect remotely (<i>Remote</i>), or <i>Break</i> (tear down) an existing connection.</p> <ul style="list-style-type: none"> • <i>Connection: Online</i> has the same function as the <i>Direct</i> button on the Button Bar. For more on <i>Connection: Online</i>, see page 3-80. • <i>Connection: Remote</i> has the same function as the <i>Remote</i> button on the Button Bar. For more on <i>Connection: Remote</i>, see page 3-81. • <i>Connection: Break</i> has the same function as the <i>Break</i> button on the Button Bar. For more on <i>Connection: Break</i>, see page 3-83.
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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

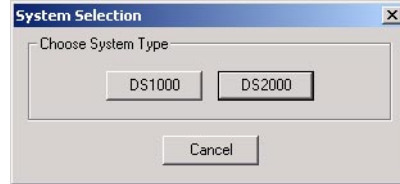


This button is the same as using *File: New* from the menu bar (see page 3-3).

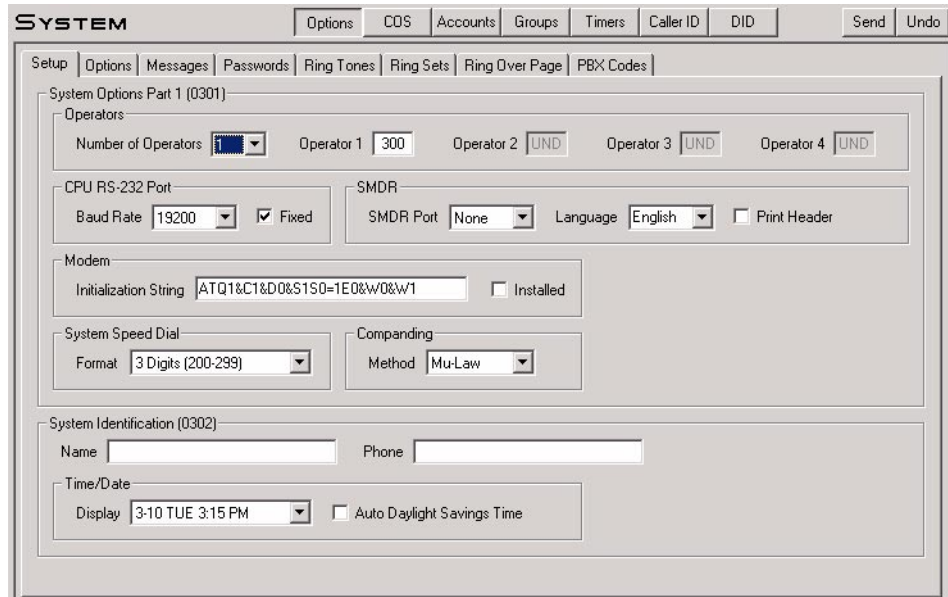
Off-line

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.

Off-line

Use the *Open* button if you want to open an *existing* (previously saved) database. You may want to do this when:

- Making changes to an existing database.
- Opening an existing database which you will then modify and *Save* or *Save As* for use with another system.
- You cannot connect to the system after opening a database off-line.

On-line

- Opens an existing database and immediately uploads it into the system, ***overwriting the current phone system data.***

Save



This button is the same as using *File: Save* from the menu bar. Turn to page 3-8 for more.

Off-line

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

2

Direct



This button is the same as the *Connection: Online* Menu Bar option (see page 3-80).

Off-line

Click the *Direct* button to directly connect to the telephone system while on site. Prior to clicking this button, be sure your PC is properly connected to the telephone system. See page 1-2 to learn how to make a direct connection.

The PC communicates with the telephone system using the settings you enter in *Tools: Options: Communications* on page 3-78. 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 click this button to try again.

On-line

Not available.

Remote



The *Remote Connection* button is the same as the *Connection: Remote* Menu Bar option. See page 3-81 for more.

Off-line

Click the *Remote Connection* button to make an off-site (remote) connection to the telephone system via modem. Prior to clicking this button, be sure your PC and the remote system are properly connected to their respective modems. See *Connecting a Modem to DS1000* on page 1-5 and *Connecting a Modem to DS2000* on page 1-6 to learn how to make these modem connections.

On-line

Not available

Break



This button is the same as using *Connection: Break* from the menu bar (see page 3-83).

Off-line

Use *Break* to close your open file and return to the opening screen. You will be prompted to save any unsaved data.

On-line

Click *Break* to break (tear down) your direct or modem connection and return to the opening screen. You will be prompted to save any unsaved data.

Download



Off-line

Not available.

On-line

While you are connected to the telephone system (directly or remotely), this button lets you download the entire database from the connected telephone system. You might want to do this when:

- You need to obtain a database from a system that was configured using telephone programming (and you don't want to lose the site data).
- You have applied many individual changes during your programming session, and you now want to save a single copy of the entire database. See *Programming* on page 3-13 for more on how to apply individual changes.

After clicking this button, you can select all or just individual programs to download.

Programming Shortcuts

Each of the Programming Shortcuts below has a corresponding *Programming* Menu Bar option. To learn more about the programs available with each shortcut, turn to the referenced *Programming* option.

System



Click to program various system options such as Passwords, Class of Service, Account Codes and Timers.

- See *Programming: System* on page 3-13 for more.

Ports



Click to set up the slots in DS2000 and the ports in DS1000.

- See *Programming: Ports (DS2000)* on page 3-31 and *Programming: Ports (DS1000)* on page 3-34 for more.

Stations

- Click to set up the options at each station.
- See *Programming: Stations* on page 3-37 for more.

Trunks

- Click to set up the options for each trunk.
- See *Programming: Trunks* on page 3-46 for more.

Extension Numbering

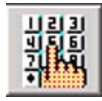
- Click to set up the system numbering, as well as the extension numbers for stations and trunks.
- See *Programming: Extension Numbering* on page 3-50 for more.

Toll Restriction

- Click to set up Toll Restriction.
- See *Programming: Toll Restriction* on page 3-54 for more.

DSS Console

- Click to program the DSS Console key assignments.
- See *Programming: DSS Console* on page 3-58 for more.

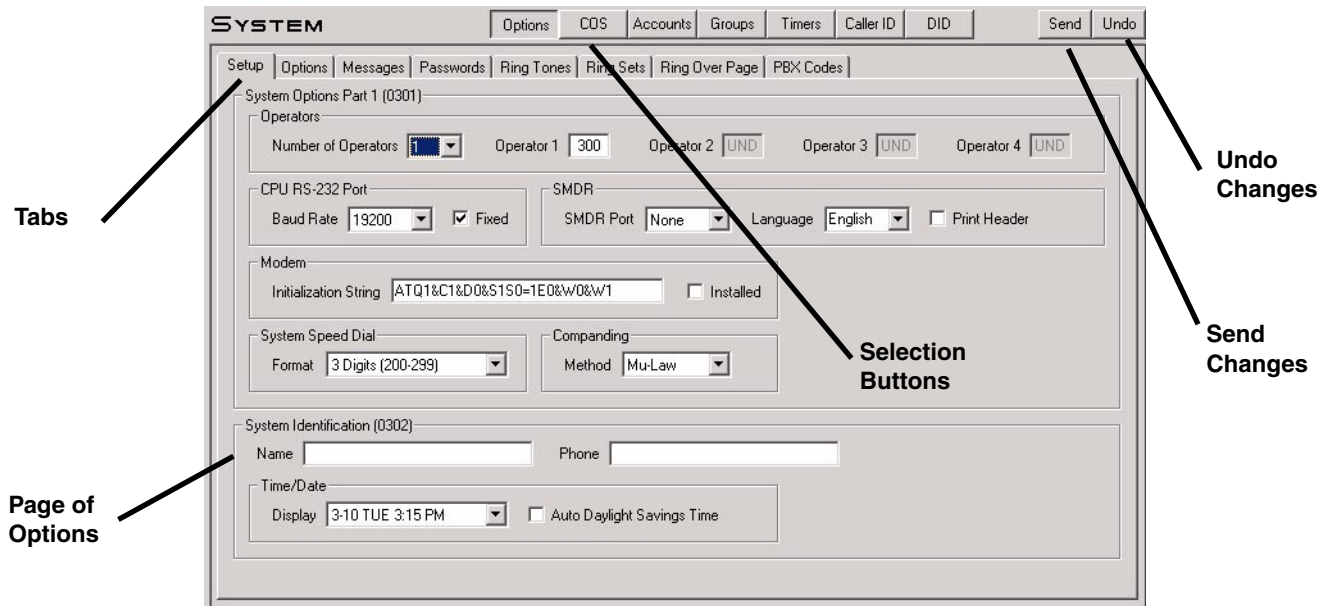
System Speed Dial

- Click to program the System Speed Dial numbers and names.
- See *Programming: System Speed Dial* on page 3-60 for more.

Voice Mail

- Click to program the IntraMail built-in Voice Mail system and set other basic voice mail port options.
- See *Programming: Voice Mail* on page 3-62 for more.

Program Area



The Program Area is where the programming options appear. In this area, you can:


- Click the tabs and selection buttons to choose the page of options you want to program.
- Enter data directly into a field, or select from among the choices in a drop down menu.
- Send your changes to the connected telephone system.
- Prior to sending your changes, undo entries you have made on a particular page and return them to their previous entries. (Undo applies only to the displayed page.)

Programming the Telephone System

Programming Strategies






Sending Individual Changes

To connect to a telephone system and make limited programming changes:

	<ol style="list-style-type: none"> 1. Click the <i>Direct</i> button to directly connect to the telephone system and enter your password (normally 372000). <ul style="list-style-type: none"> - You can optionally connect remotely using the <i>Remote</i> button. - If the system is already in the telephone programming mode, you will see a dialog box that allows you to override the local programming. 2. Using the Programming Shortcuts or the <i>Programming</i> options from the Menu Bar, make the desired programming changes. 3. Click the <i>Send</i> button on the active page. <ul style="list-style-type: none"> - The PC Program sends your changes to the connected telephone system.
---	---




Creating and Sending an Entire Database

To create a new database and send the entire database to a telephone system:

	<ol style="list-style-type: none"> 1. Click the <i>New</i> button to create a new default database. <ul style="list-style-type: none"> - You can only click this button while off-line. 2. Specify the type of database you want to create (DS1000 or DS2000). <ul style="list-style-type: none"> - You will see the opening page of <i>System: Options</i>. 3. Enter all your custom programming.
	<ol style="list-style-type: none"> 4. Click the <i>Save</i> button to save your changes to a database on your PC hard disk.
	<ol style="list-style-type: none"> 5. Click the <i>Break</i> button to close the file and go back to the opening screen.
	<ol style="list-style-type: none"> 6. Click the <i>Direct</i> button to directly connect to the telephone system and enter your password (normally 372000). <ul style="list-style-type: none"> - You can optionally connect remotely using the <i>Remote</i> button.
	<ol style="list-style-type: none"> 7. Click the <i>Open</i> button. 8. Select the database you want to upload into the system. <ul style="list-style-type: none"> - In DS2000, you will see a warning box if your installed hardware does not match the configuration stored in the database. You have the option of sending the database anyway (<i>Program</i>), using the installed configuration (<i>System</i>), or canceling. - Be careful! You have the option of overwriting the customer database in the connected system.




Retrieving a Database

To retrieve a database from a telephone system and save it to your PC hard disk:

	<ol style="list-style-type: none">1. Click the <i>Direct</i> button to directly connect to the telephone system and enter your password (normally 372000).<ul style="list-style-type: none">- You can optionally connect remotely using the <i>Remote</i> button.- If the system is already in the telephone programming mode, you will see a dialog box that allows you to override the local programming.
	<ol style="list-style-type: none">2. Click the <i>Download</i> button to download the entire contents of the connected telephone system's database.<ul style="list-style-type: none">- When you see the <i>Programs (Upload/Download)</i> screen, be sure to click <i>All</i> to download the entire database.- The download may take 15-20 minutes.
	<ol style="list-style-type: none">3. Click the <i>Save</i> button to save your changes to a database on your PC hard disk.<ul style="list-style-type: none">- If you skip step 2 above, the program will prompt you to download the entire database in this step.

Importing Data from a Saved Database

To import data from saved database and upload it into the system:

	<ol style="list-style-type: none">1. Click the <i>Direct</i> button to directly connect to the telephone system and enter your password (normally 372000).<ul style="list-style-type: none">- You can optionally connect remotely using the <i>Remote</i> button.- If the system is already in the telephone programming mode, you will see a dialog box that allows you to override the local programming.
	<ol style="list-style-type: none">2. Click <i>File: Import</i>.3. When you see the <i>Programs (Upload/Download)</i> screen, select the programs you want to import into the system and click <i>OK</i>.4. Select the database from which you want to import the data and click <i>OPEN</i>.5. Click the <i>Send</i> button the send the imported change to the telephone system.
	<ol style="list-style-type: none">6. Optionally click the <i>Save</i> button to save your changes to a database on your PC hard disk.
	<ol style="list-style-type: none">7. Click the <i>Break</i> button to close the file and go back to the opening screen.

Chapter 3

Programming

Overview

How to use this Chapter

3

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:

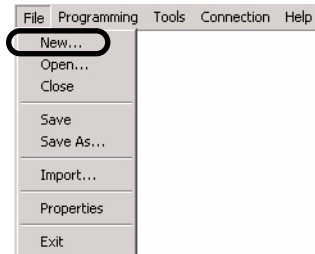
- All data for station 1 (extension 300).
- All data for trunk 101.
- All Toll Restriction data for Toll Restriction Level 1.
- All other system data.

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.

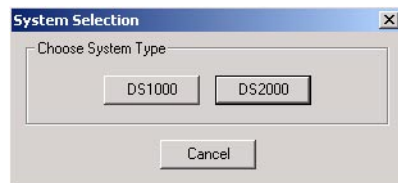
Programming Shortcut



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.

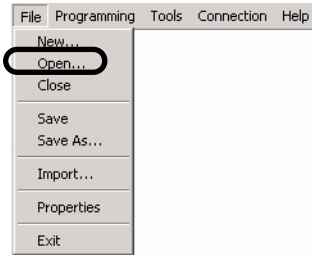
First Time New Option

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.***

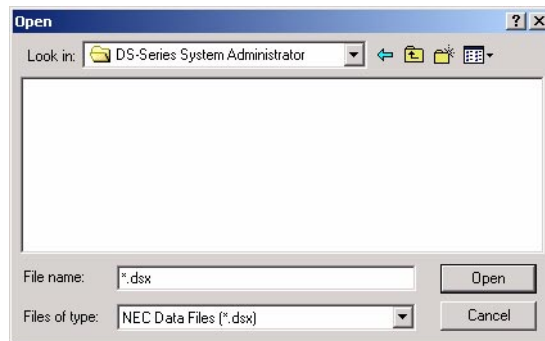
Programming Shortcut



Program Entry

To use *File: Open* while off line:

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



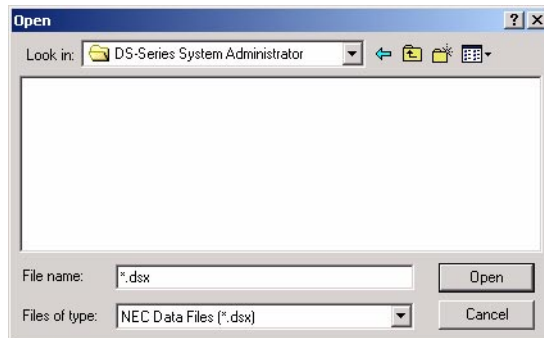
2. Select the stored database you want to open and click *Open*.
 - The database loads into the program area.

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:

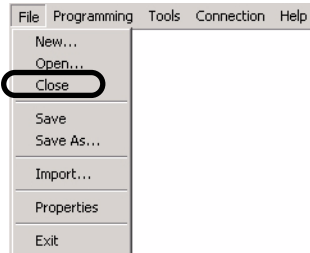


3. Select the stored database you want to upload and click *Open*. You see:



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



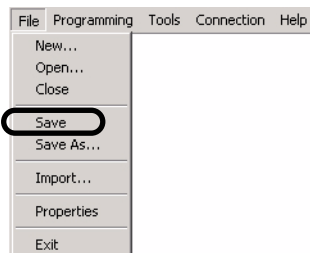
Program Entry

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.***

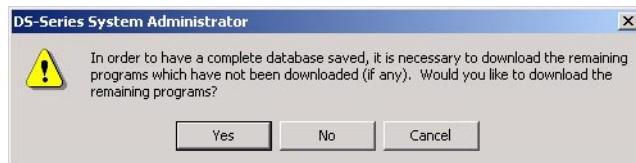
Programming Shortcut



Program Entry

To use *File: Save*:

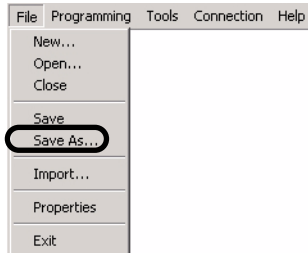
1. Click *File: Save*. If you are off-line, skip to step 3.
2. If you are on-line, you see:



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.

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.***

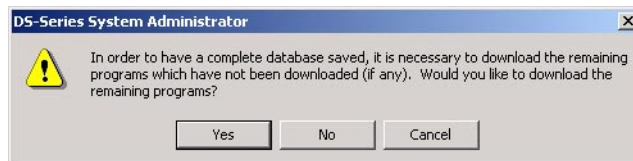
Programming Shortcut

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:

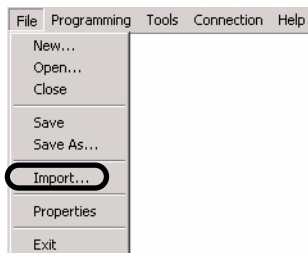


Enter a name for your saved database and click *Save*.

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 your 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* to 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

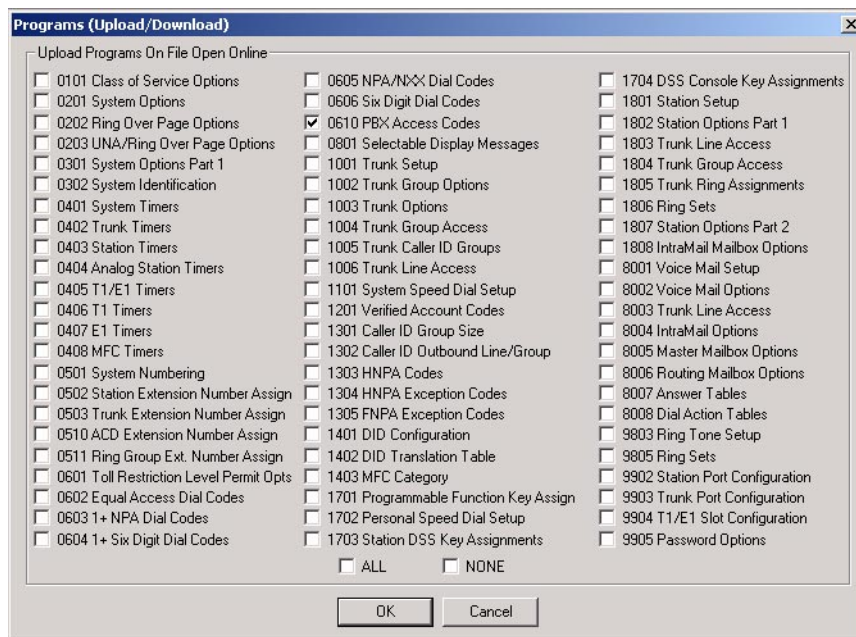
N/A

3

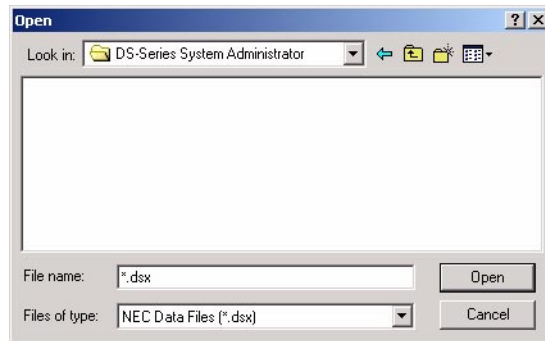
Program Entry

To use *File: Import*:

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

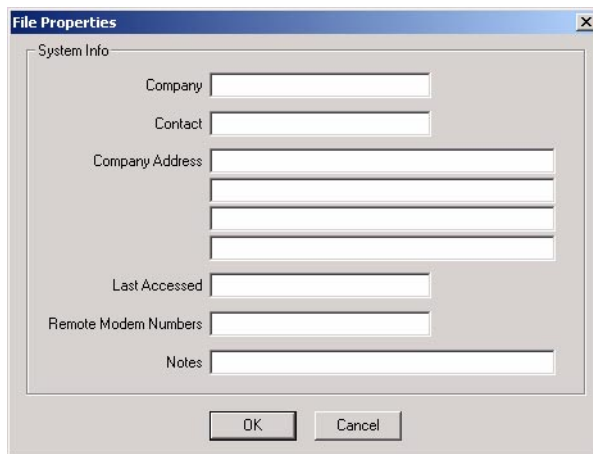
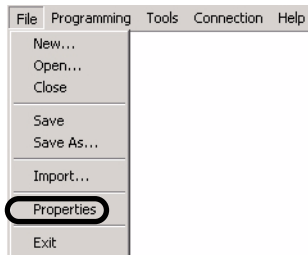


2. Select the programs you want to import and click *OK*. You see:



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



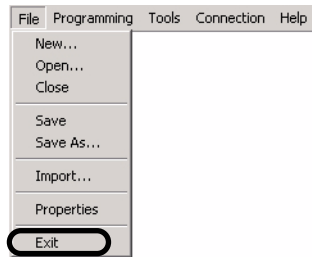
Use *File: Properties* to enter important information about the remote site. You can enter contact information, the remote telephone numbers, as well as important notes and when the site was last accessed. The properties data is saved as part of the database.

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

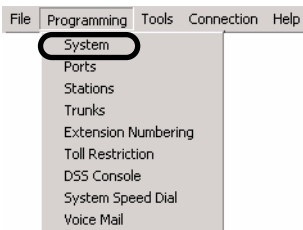
N/A

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
	Click to access Operator and other system option programming. See <i>System: Options</i> on page 3-14 for more.							
	Click to access Class of Service programming. See <i>System: Class of Service (COS)</i> on page 3-19 for more.							
	Click to access the Verified Account Codes table. See <i>System: Account Codes (Accounts)</i> on page 3-24 for more.							
	Click to access Trunk Group programming. See <i>System: Trunk Groups</i> on page 3-24 for more.							
	Click to access the programming for system, trunk, station, and T1/E1 timers. See <i>System: Timers</i> on page 3-25 for more.							
	Click to access the Caller ID programming. See <i>System: Caller ID</i> on page 3-28 for more.							
	(DS2000 Only) Click to access the DID configuration and the DID translation table programming. See <i>System: Direct Inward Dialing (DID)</i> on page 3-30 for more.							
	<ul style="list-style-type: none"> • While on-line, sends the programmed changes to the connected telephone system. • <i>Send</i> is not available while off-line. 							
	Cancels any changes you made to the current page.							

Options

Setup

The screenshot shows the 'SYSTEM' dialog box with the 'Options' tab selected. The 'System Options Part 1 (0301)' section includes: 'Number of Operators' set to 4, 'Operator 1' set to 300, and Operators 2, 3, and 4 set to 'UND'. The 'CPU RS-232 Port' section has 'Baud Rate' set to 19200 and 'Fixed' checked. The 'SMDR' section has 'SMDR Port' set to 'None', 'Language' set to 'English', and 'Print Header' unchecked. The 'Modem' section has 'Initialization String' set to 'ATQ1&C1&D0&S150=1E0&W0&W1' and 'Installed' unchecked. The 'System Speed Dial' section has 'Format' set to '3 Digits (200-299)'. The 'Companding' section has 'Method' set to 'Mu-Law'. The 'System Identification (0302)' section has 'Name' and 'Phone' fields empty, and 'Time/Date' set to '3-10 TUE 3:15 PM' with 'Auto Daylight Savings Time' unchecked.

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**

Password

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Setup Options Messages Passwords Ring Tones Ring Sets Ring Over Page PBX Codes

Password Options (9905)

Level 1 Password
System Administrator 1: 0000

Level 2 Password
System Administrator 2: 9999

Level 3 Password
Installer: 372000

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

- **9905 - Password**

Ring Tones

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Setup Options Messages Passwords Ring Tones Ring Sets Ring Over Page PBX Codes

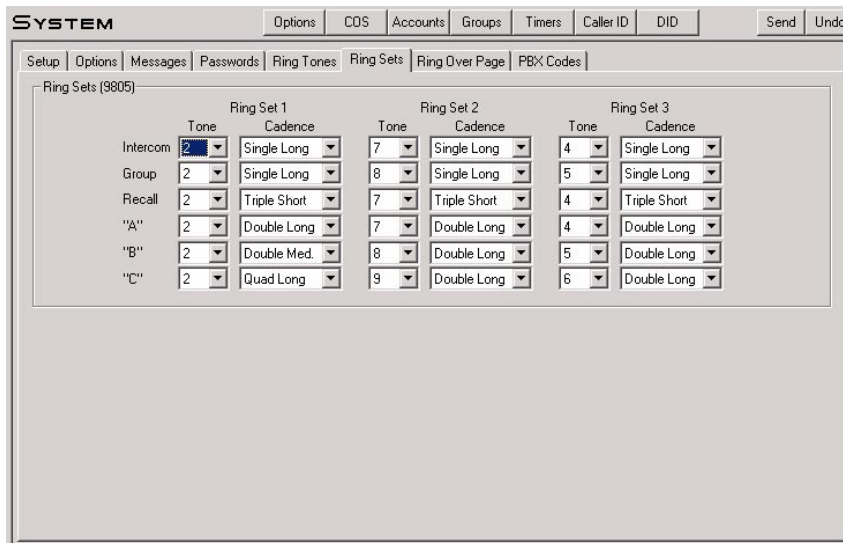
Ring Tone Setup (9803)

	Frequency 1	Frequency 2	Modulation	
Tone 0	888 Hz	711 Hz	23.80 Hz	Default
Tone 1	421 Hz	359 Hz	16.00 Hz	
Tone 2	581 Hz	415 Hz	16.00 Hz	
Tone 3	1032 Hz	864 Hz	16.00 Hz	
Tone 4	400 Hz	640 Hz	11.97 Hz	
Tone 5	603 Hz	864 Hz	11.97 Hz	
Tone 6	900 Hz	1032 Hz	11.97 Hz	
Tone 7	1454 Hz	1185 Hz	8.00 Hz	
Tone 8	2000 Hz	1600 Hz	8.00 Hz	
Tone 9	2666 Hz	2000 Hz	8.00 Hz	

Use this page to specify the two frequencies (Frequency Index 1 and Frequency Index 2) and the modulation rate (Modulation Index) for each of the 10 Ring Tones (0-9). Refer to the following in the *DS1000/2000 Software Manual* for more:

- **Distinctive Ringing**
- **9803 - Ring Tone Setup**

Ring Sets

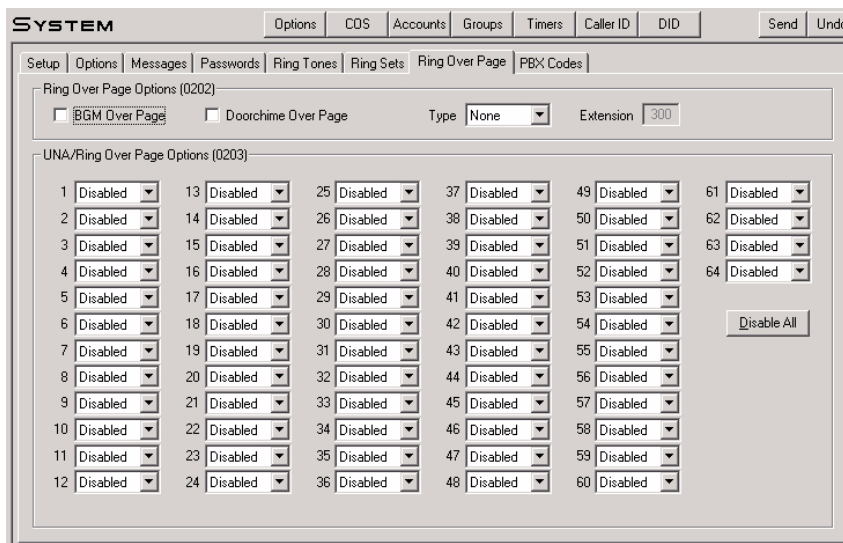


Use this page to specify the Ring Tone and Cadence for each Ring Type. This program does not exist in telephone programming. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **Distinctive Ringing**

3

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

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Setup Options Messages Passwords Ring Tones Ring Sets Ring Over Page PBX Codes

PBX Access Codes (0610)

Code 0	Code 2	Code 4	Code 6	Code 8
Code 1	Code 3	Code 5	Code 7	Code 9

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**

Class of Service (COS)

Attendant

		Class of Service															All	None
Option		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Attendant Features	Forced Trunk Disconnect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Barge In	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Camp On Busy Station	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Silent Monitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	View System Alarms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Activate Night Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Direct Trunk Access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Remote Call Forwarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Use this page to select Class of Service options for the attendant. Although the options on this page are available to any keyset user, they are typically used by system attendants. To enable an option in all Classes of Service, click *All*. To disable an option in all Classes of Service, click *None*. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 0101 - Class of Service Options

Stations

		Class of Service															All	None
Option		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Stations	System Spd Dial Access	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Extended Ring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Privacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	ACD Supervisor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Soft Keys	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Conversation Record	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	DND Override	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Allow DID Calls	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	DID Camp On	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Allow Name Programming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Allow Language Setting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

- 0101 - Class of Service Options

Single Line Telephones (SLTs)

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Attendant Stations SLTs Caller ID Distinctive Ring Call Forwarding Toll Restriction Account Codes Trunks Paging

Class of Service Options (0101)

		Class of Service															All	None
Option		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Single Line Tel.	Flash for Single Line Sets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Single Ring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Special Dial Tone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Hi Volt Msg Waiting Lamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	FSK Msg Waiting Lamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Loop Disconnect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Use this page to select Class of Service options for single line telephones. These options have no affect on keypad operation. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 0101 - Class of Service Options

Caller ID

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Attendant Stations SLTs Caller ID Distinctive Ring Call Forwarding Toll Restriction Account Codes Trunks Paging

Class of Service Options (0101)

		Class of Service															All	None
Option		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Caller ID	Caller ID Display	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2nd Call Caller ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3rd Party Caller ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Caller ID Display Separator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Outgoing ANI Privacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Caller ID Alert Lamp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

- 0101 - Class of Service Options

Distinctive Ringing

		Class of Service															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	All None
Distinctive Ring	Option																
	Ring Type Configuration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Station Ring Override	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Key Ring Override	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

		Class of Service															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	All None
Call Forwarding	Option																
	Off-Premise Call Fwd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Internal Call Fwd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

The screenshot shows the 'Toll Restriction' configuration page. The interface includes a menu bar with 'Options', 'COS', 'Accounts', 'Groups', 'Timers', 'Caller ID', and 'DID'. Below the menu bar, there are tabs for 'Attendant', 'Stations', 'SLTs', 'Caller ID', 'Distinctive Ring', 'Call Forwarding', 'Toll Restriction', 'Account Codes', 'Trunks', and 'Paging'. The main content area is titled 'Class of Service Options (0101)' and contains a table with the following structure:

		Class of Service															All	None
Option		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Toll Restriction	Day Walking COS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Night Walking COS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Station Locking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

The screenshot shows the 'Account Codes' configuration page. The interface includes a menu bar with 'Options', 'COS', 'Accounts', 'Groups', 'Timers', 'Caller ID', and 'DID'. Below the menu bar, there are tabs for 'Attendant', 'Stations', 'SLTs', 'Caller ID', 'Distinctive Ring', 'Call Forwarding', 'Toll Restriction', 'Account Codes', 'Trunks', and 'Paging'. The main content area is titled 'Class of Service Options (0101)' and contains a table with the following structure:

		Class of Service															All	None
Option		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Account Codes	Forced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Verify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Forced (Toll Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Attendant Stations SLTs Caller ID Distinctive Ring Call Forwarding Toll Restriction Account Codes Trunks Paging

Class of Service Options (0101)

		Class of Service															All	None
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Trunks	Option																	
	Camp-On Busy Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Trunk Queuing Priority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Automatic Hold	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Enhanced LND	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Unsupervised Conference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Attendant Stations SLTs Caller ID Distinctive Ring Call Forwarding Toll Restriction Account Codes Trunks Paging

Class of Service Options (0101)

		Class of Service															All	None
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Paging	Option																	
	Initiate All Call Page	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Access to Page Zone 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Access to Page Zone 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Access to Page Zone 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Access to Page Zone 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Access to Page Zone 5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Access to Page Zone 6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Access to Page Zone 7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Account Codes (Accounts)

Use this page to enter the system's Verified Account Codes. Verified Account Codes are 2 to 10 digits long, using * as a wild card. DS2000 has 1000 Verified Account Codes. DS1000 has 500 Verified Account Codes. This page initially shows the first 50 Verified Account Codes. To display additional codes, click *Goto Entry* and enter the first code in the range of codes you want to access. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 1201 - Verified Account Codes Table

Trunk Groups

Order	Trunk	Order	Trunk	Order	Trunk	Order	Trunk	Order	Trunk	Order	Trunk	Order	Trunk		
1	8	9	0	17	0	25	0	33	0	41	0	49	0	57	0
2	7	10	0	18	0	26	0	34	0	42	0	50	0	58	0
3	6	11	0	19	0	27	0	35	0	43	0	51	0	59	0
4	5	12	0	20	0	28	0	36	0	44	0	52	0	60	0
5	4	13	0	21	0	29	0	37	0	45	0	53	0	61	0
6	3	14	0	22	0	30	0	38	0	46	0	54	0	62	0
7	2	15	0	23	0	31	0	39	0	47	0	55	0	63	0
8	1	16	0	24	0	32	0	40	0	48	0	56	0	64	0

Use this page to assign trunks to one of the 9 Trunk Groups (90-98). **A trunk can only be in one Trunk Group.** DS2000 has 64 trunks maximum (1-64); DS1000 has 6 (1-6). Click *Data Check* to see if you have inadvertently assigned the same trunk to more than one group. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 1002 - Trunk Groups

Timers

System Timers

The screenshot shows the 'SYSTEM' configuration window with the 'Timers' tab selected. The 'System Timers (0401)' sub-tab is active, displaying a grid of timer settings. Each setting includes a name, a numeric value in a text box, a unit, and a range.

Timer Name	Value	Unit	Range
Park Recall	60	Sec.	(0-9999)
Modem Reserve	30	Sec.	(0-9999)
Transfer Recall	20	Sec.	(0-9999)
Intercom Inter-Digit	6	Sec.	(1-9999)
Meet Me Conference	30	Sec.	(0-9999)
Dialing Pause	1	Sec.	(0-9999)
Page Duration	30	Sec.	(0-9999)
Door Unlock	30	Sec.	(0-9999)
DIL No Answer	15	Sec.	(0-9999)
Trunk Revert	15	Sec.	(0-9999)
Trunk Delay Ring	10	Sec.	(0-9999)
Trunk Overflow	20	Sec.	(0-9999)
Centrex Feature Key Delay	50	Sec.	(0-9999)
ACD/UCD Overflow	60	Sec.	(0-9999)
Program Lockout Time	30	Sec.	(30-9999)
Forced Program Exit	120	Sec.	(30-9999)
Repeat Dial Retry Time	30	Sec.	(1-99)
Repeat Dial Busy Time	6	Sec.	(1-99)

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

The screenshot shows the 'SYSTEM' configuration window with the 'Timers' tab selected. The 'Trunk Timers (0402)' sub-tab is active, displaying a grid of timer settings. Each setting includes a name, a numeric value in a text box, a unit, and a range.

Timer Name	Value	Unit	Range
Camp On	60	Sec.	(0-9999)
Line Response	100	x100 mS	(4-1020)
Dial Tone Detect	10	x100 mS	(0-9999)
PBX/Centrex Flash	800	mS	(16-4080)
Flash Disconnect	2496	mS	(16-4080)
Forced Idle	10	x100 mS	(10-9999)
PBX Pause	0	Sec.	(0-9999)
Minimum Ring Detection	104	mS	(8-2040)
Dial Pulse Make	40	mS	(4-1020)
Dial Pulse Break	60	mS	(4-1020)
Dial Pulse Interdigit	800	mS	(100-9999)
Manual DTMF Tone ON	150	mS	(10-2550)
Manual DTMF Tone OFF	100	mS	(10-2550)
Speed Dial DTMF Tone ON	100	mS	(10-2550)
Speed Dial DTMF Tone OFF	100	mS	(10-2550)
Loop Current Detection	800	mS	(4-1020)
Far End Disconnect	300	mS	(4-1020)
Min. Single Ring Detection	1216	mS	(8-2040)
Min. Double Ring Detection Off	288	mS	(8-2040)
Max. Double Ring Detection Off	576	mS	(8-2040)
Ringing Signal End Detect	6016	mS	(64-16320)
Caller ID Detection	2944	mS	(64-16320)
Ground Start	800	mS	(16-4080)
Pause	3008	mS	(64-16320)
Dial Pulse Mute	8	mS	(4-1020)
P.F. Recovery Detect	3008	mS	(64-16320)

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

Station Timers (0403)	Value	Unit	Range
Hold Recall	50	Sec.	(0-9999)
Exclusive Hold	90	Sec.	(0-9999)
Camp On	60	Sec.	(0-9999)
Call Forward Ring No Answer	10	Sec.	(0-9999)
Call Wait Tone Interval	10	Sec.	(0-9999)
Call Coverage Delay	10	Sec.	(0-9999)
Hook Flash Transfer	2	Sec.	(0-9999)
Hook Flash Disconnect	12	Sec.	(0-9999)
Number of Extended Rings	20	Sec.	(0-9999)
Drop Pulse Send	300	Sec.	(0-9999)
DTMF Detect	70	Sec.	(0-9999)
Ring No Answer Hunt	10	Sec.	(0-9999)

Analog Station Timers (0404)	Value	Unit	Range
Minimum Break	10	mS	(5-1275)
Maximum Break	100	mS	(5-1275)
Minimum Make	10	mS	(5-1275)
Maximum Make	100	mS	(5-1275)
Dial Pulse Guard	350	mS	(5-1275)
Loop Disconnect	2000	mS	(50-12750)
Minimum Hook Flash	105	mS	(5-1275)
Maximum Hook Flash	1000	mS	(5-1275)
Minimum Off-Hook	105	mS	(5-1275)
Off-Hook Guard	300	mS	(5-1275)
Ring Message Wait Period	750	mS	(50-12750)

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)

T1/E1 Timers (0405)	Value	Unit	Range
Loop Detect	640	mS	(16-4080)
Pause Time	3008	mS	(64-16320)
Transmit Answer	304	mS	(8-2040)
Receive Answer Min.	200	mS	(8-2040)
Receive Answer Max.	400	mS	(8-2040)
Transmit Flash	800	mS	(16-4080)
Receive Flash Min.	640	mS	(16-4080)
Receive Flash Max.	1008	mS	(16-4080)
Transmit DP Break	60	mS	(4-1020)
Transmit DP Make	40	mS	(4-1020)
Transmit DP Interdigit	800	mS	(16-4080)
Receive DP Make Min.	12	mS	(4-1020)
Receive DP Make Max.	76	mS	(4-1020)
Receive DP Break Min.	20	mS	(4-1020)
Receive DP Break Max.	104	mS	(4-1020)
Receive Clear Signal	1000	mS	(16-4080)

(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)

Parameter	Value	Range	Parameter	Value	Range
Ring Detect	104	mS (8-2040)	Transmit Wink	152	mS (4-1020)
Single Ring Detect Min.	504	mS (8-2040)	Receive Wink Min.	100	mS (4-1020)
Double Ring Off Min.	104	mS (4-1020)	Receive Wink Max.	300	mS (4-1020)
Double Ring Off Max.	304	mS (4-1020)	Transmit Remove Ring	50	mS (4-1020)
Ring Stop Detect	6016	mS (64-16320)			

(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)

Parameter	Value	Range	Parameter	Value	Range
Transmit Force Release	800	mS (16-4080)	Transmit Seize Ack.	100	mS (4-1020)
Transmit Clear Signal	1008	mS (16-4080)	Receive Seize Ack. Min.	100	mS (4-1020)
Transmit Seize Signal	800	mS (8-2040)	Receive Seize Ack. Max.	300	mS (4-1020)
Transmit Double Answer	2048	mS (64-16320)	Transmit Digit Ack.	100	mS (4-1020)
Receive Double Answer Min.	1536	mS (64-16320)	Receive Digit Ack. Min.	100	mS (4-1020)
Receive Double Answer Max.	3008	mS (64-16320)	Receive Digit Ack. Max.	300	mS (4-1020)
Receive Line Block Min.	2048	mS (64-16320)	Receive Meter Pulse Min.	100	mS (4-1020)
Receive Line Block Recover	2048	mS (64-16320)	Receive Meter Pulse Max.	300	mS (4-1020)
GA Response	12	Sec. (1-32)	GC Tone Complete	12	Sec. (1-32)
GA Tone Complete	12	Sec. (1-32)	GI Signal	12	Sec. (1-32)
GB Response	12	Sec. (1-32)	GI Tone Complete	12	Sec. (1-32)
GB Tone Complete	12	Sec. (1-32)	GII Signal	12	Sec. (1-32)
GC Response	12	Sec. (1-32)	GA Pulse Time	100	mS (50-600)

(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

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Options HNPA HNPA Exceptions FNPA Exceptions

Caller ID Group Size (1301)

Group 1	99	Group 3	0	Group 5	0	Group 7	0
Group 2	0	Group 4	0	Group 6	0	Group 8	0

Caller ID Outbound Line/Group (1302)

Callback Route: None Line/Group: 0 10 Digit Local

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

SYSTEM Options COS Accounts Groups Timers Caller ID DID Send Undo

Options HNPA HNPA Exceptions FNPA Exceptions

HNPA Codes (1303)

1	3	5	7	9	11	13	15
2	4	6	8	10	12	14	16

Clear All Sort

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**

HNPA Exceptions

1	13	25	37	49	61	73	85
2	14	26	38	50	62	74	86
3	15	27	39	51	63	75	87
4	16	28	40	52	64	76	88
5	17	29	41	53	65	77	89
6	18	30	42	54	66	78	90
7	19	31	43	55	67	79	91
8	20	32	44	56	68	80	92
9	21	33	45	57	69	81	93
10	22	34	46	58	70	82	94
11	23	35	47	59	71	83	95
12	24	36	48	60	72	84	96

Use this page to create the Home Area (HNP A) Exception List. This identifies which (if any) calls in your home area code are toll calls. To erase all the entries in the table, click *Clear All*. To sort your HNP A entries numerically, click *Sort*. To make the table a Local Table, click *Local*. To make the table a Toll Table, click *Toll*. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1304 - Home Area (HNP A) Exception List**

FNPA Exceptions

1	13	25	37	49	61	73	85
2	14	26	38	50	62	74	86
3	15	27	39	51	63	75	87
4	16	28	40	52	64	76	88
5	17	29	41	53	65	77	89
6	18	30	42	54	66	78	90
7	19	31	43	55	67	79	91
8	20	32	44	56	68	80	92
9	21	33	45	57	69	81	93
10	22	34	46	58	70	82	94
11	23	35	47	59	71	83	95
12	24	36	48	60	72	84	96

Use this page to create the Foreign Area (FNPA) Exception List. This identifies which (if any) calls in an adjacent area code are local calls. To erase all the entries in the table, click *Clear All*. To sort your FNPA entries numerically, click *Sort*. Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1305 - Foreign Area (FNPA) Exception List**

Direct Inward Dialing (DID)

DID Configuration (1401)

Number of DID Digits: 3

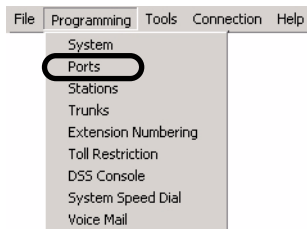
DID Translation Table (1402/1403)

Entry	Input	Output Day	Output Night	MFC Category	Entry	Input	Output Day	Output Night	MFC Category
1	3**			Normal	11				Normal
2				Normal	12				Normal
3				Normal	13				Normal
4				Normal	14				Normal
5				Normal	15				Normal
6				Normal	16				Normal
7				Normal	17				Normal
8				Normal	18				Normal
9				Normal	19				Normal
10				Normal	20				Normal

(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

<input type="button" value="Init"/> <input type="button" value="Auto-ID"/> <input type="button" value="Swap"/> <input type="button" value="Send"/> <input type="button" value="Undo"/>	
<input type="button" value="Init"/>	Initializes (reorders) the PCB slots. <ul style="list-style-type: none"> Click <i>Init</i> 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 <i>Init</i> will move extensions to different PCBs. This could disrupt service in a functioning system.
<input type="button" value="Auto-ID"/>	If you plug in a PCB while your PC Program session is connected, click <i>Auto-ID</i> to include the new PCB in your programming. <ul style="list-style-type: none"> <i>Auto-ID</i> automatically adds the new PCB, using the next consecutive group of available port numbers. If you don't click <i>Auto-ID</i> after adding a new PCB, it will function correctly but <i>not</i> 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 <i>Refresh</i> instead. See <i>Slot Status</i> on page 3-32 for more.
<input type="button" value="Swap"/>	Swaps the programming between two slots.
<input type="button" value="Send"/>	While on-line, sends the programmed changes to the connected telephone system. <ul style="list-style-type: none"> <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. This button is not available while off-line.
<input type="button" value="Undo"/>	Cancels any changes you made to the current page.

Slot Status

Slot Status (9900) Card Type <input type="text" value="16 DSTU"/> Firmware Version <input type="text" value="2.4"/> Status <input type="text" value="Installed"/> <input type="button" value="Refresh"/>	
<input type="text" value="16 DSTU"/>	Displays the type of PCB plugged into the slot.
<input type="text" value="2.4"/>	Shows the firmware version used by the PCB plugged into the slot.
<input type="text" value="Installed"/>	Indicates the status of the PCB plugged into the slot. <ul style="list-style-type: none"> • Installed The PCB is physically installed and <i>is</i> part of the current PC Program session. • Not installed The PCB is physically installed but <i>is not</i> part of the current PC Program session. (This occurs when you install a PCB and click <i>Refresh</i> to display the slot's data.) • Blank The PC Program thinks the slot is empty.
<input type="button" value="Refresh"/>	Click <i>Refresh</i> to display the information about a PCB you have plugged in <i>while</i> your PC Program session was connected to the system. <i>Refresh</i> only displays the PCB's information – it doesn't include the PCB in your open session. <ul style="list-style-type: none"> • 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 <i>Auto-ID</i> instead. See <i>Hardware Toolbar Controls</i> on page 3-31 for more.

Slot 1 through Slot 8

PORTS

Slot 1 Slot 2 Slot 3 Slot 4 Slot 5 Slot 6 Slot 7 Slot 8

Slot Status (9900)
 Card Type Firmware Version Status

Station Port Configuration (9902)

Card Type	Port	1st	2nd	Port	1st	2nd	Port	1st	2nd	Port	1st	2nd
16 DSTU	1	17	UND	5	21	UND	9	25	UND	13	29	UND
	2	18	UND	6	22	UND	10	26	UND	14	30	UND
	3	19	UND	7	23	UND	11	27	UND	15	31	UND
	4	20	UND	8	24	UND	12	28	UND	16	32	UND

Trunk Port Configuration (9903)

Card Type	Port	Trunk	Port	Trunk	Port	Trunk	Port	Trunk	Port	Trunk	Port	Trunk	Port	Trunk
16 DSTU	1	9	5	13	9	17	13	21	17	25	21	29	25	UND
	2	10	6	14	10	18	14	22	18	26	22	30	26	UND
	3	11	7	15	11	19	15	23	19	27	23	31	27	UND
	4	12	8	16	12	20	16	24	20	28	24	32	28	UND

T1/E1 Slot Configuration (9904)
 Channels Clock Loopback Line Build Out
 ESF/CRC-4
 B8ZS/HDB3

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.

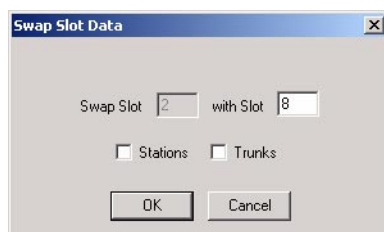
Note that all slots except slot 1 can have both a station and trunk PCB programmed. The system “activates” the programming for whichever PCB is plugged in. Refer to the following in the *DS1000/2000 Software Manual* for more:

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

Swapping Slots

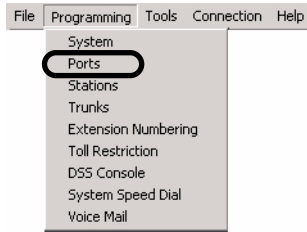
To swap the programming between two slots:

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.

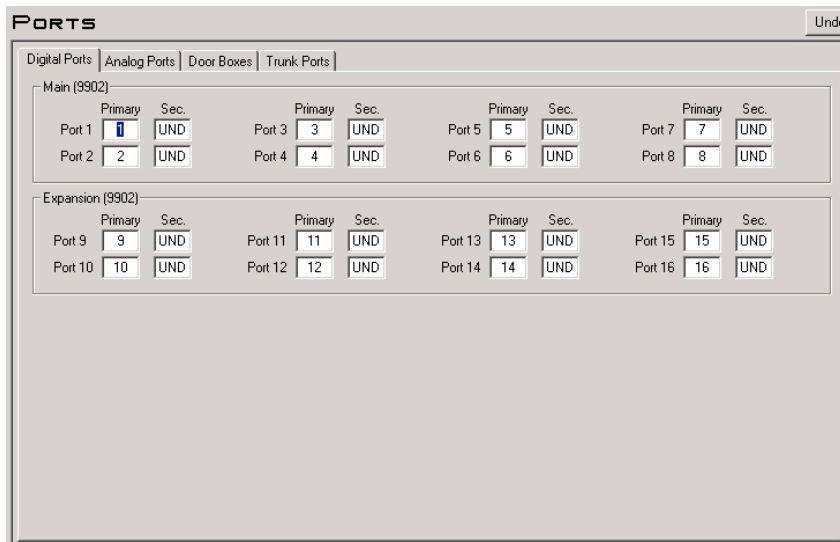
Programming Shortcut



Hardware Toolbar Controls

Send Undo	
Send	<p>While on-line, sends the programmed changes to the connected telephone system.</p> <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
Undo	<p>Cancels any changes you made to the current page.</p>

Digital Ports



Use this page to set up the system's digital ports. This page applies to keysets, UltraMail, and 2-OPX Modules. By swapping the primary port assignments between two digital ports (e.g., ports 5 and 6), 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)**

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)

3

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

The screenshot shows a software window titled "PORTS" with an "Undo" button in the top right corner. Below the title bar are four tabs: "Digital Ports", "Analog Ports", "Door Boxes", and "Trunk Ports", with "Trunk Ports" being the active tab. The window is divided into two main sections: "Main (9903)" and "Expansion (9903)".

In the "Main (9903)" section, there are three trunk port settings:

Port	Trunk
Port 1	1
Port 2	2
Port 3	3

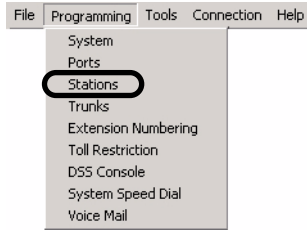
In the "Expansion (9903)" section, there are three trunk port settings:

Port	Trunk
Port 4	4
Port 5	5
Port 6	6

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)**

Description



The *Programming: Stations* option provides the station specific programming.

Programming Shortcut





Station Toolbar Controls

	Displays the station number you are programming.
	Displays the extension number for the station you are programming.
	Go back to the first station.
	Go to the previous station.
	Go to the next station.
	Jump (go to) a specific station.

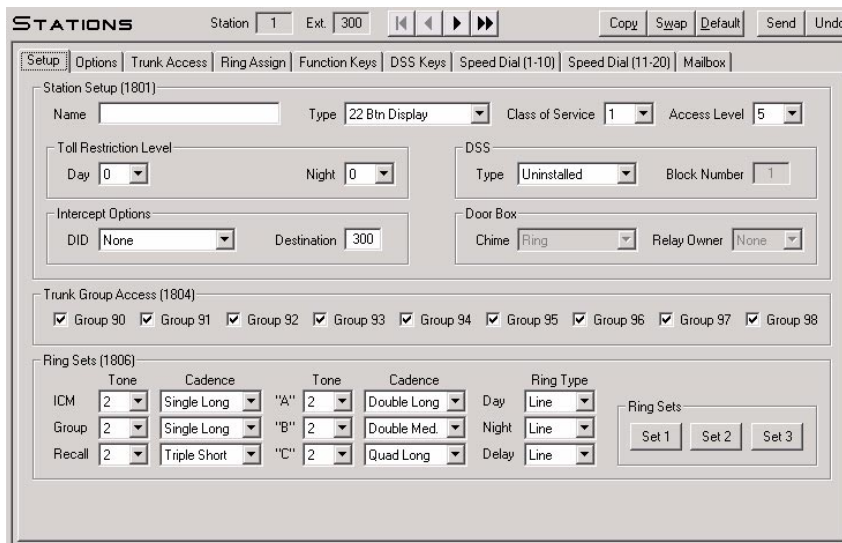
3

<p>Copy</p>	<p>Copies data from a station to another station or range of stations.</p> <ol style="list-style-type: none"> 1. Click the <i>Copy</i> button. You see the <i>Station Copy/Swap/ Default Option</i> screen: <div data-bbox="602 327 1146 667" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> </div> 2. Select the programs you want to copy, or click <i>All</i> to copy all listed programs. 3. Click <i>OK</i>. 4. When you see the <i>Copy Extension Data</i> screen. <div data-bbox="599 772 951 947" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> </div> <p>Select the <u>source</u> and <u>destination</u> station(s).</p> <ul style="list-style-type: none"> - The <u>source</u> is the station from which you want to copy. - The <u>destination</u> is the station or range of stations that should receive the copied data. <ol style="list-style-type: none"> 5. Click <i>OK</i>.
<p>Swap</p>	<p>Swaps the programming between two stations. Note that this option <i>does not</i> swap extension numbers (see <i>Programming: Extension Numbering</i> on page 3-50 instead).</p> <ol style="list-style-type: none"> 1. Click the <i>Swap</i> button. You see the <i>Station Copy/Swap/ Default Option</i> screen. 2. Select the programs you want to swap in the <i>Station Copy/Swap/ Default Option</i> screen, or click <i>All</i> to swap all listed programs. 3. Click <i>OK</i>. 4. When you see the <i>Swap Extension Data</i> screen: <div data-bbox="602 1360 951 1535" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> </div> <p>Select the <u>source</u> and <u>destination</u> ports and click <i>OK</i>.</p>
<p>Default</p>	<p>Resets the current page to its default settings.</p> <ol style="list-style-type: none"> 1. Click the <i>Default</i> button. <ul style="list-style-type: none"> - If the current page has a single program, the PC Program immediately resets the options to default. - If the current page has multiple programs, you see the <i>Station Copy/Swap/ Default Option</i> screen. Go to step 2. 2. Select the programs you want to default in the <i>Station Copy/Swap/ Default Option</i> screen, or click <i>All</i> to default all listed programs. 3. Click <i>OK</i>.

	<p>While on-line, sends the programmed changes to the connected telephone system.</p> <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
	<p>Cancels any changes you made to the current page.</p>

Setup

Stations



The screenshot shows the 'STATIONS' programming interface. At the top, it displays 'Station 1' and 'Ext. 300'. Below this are navigation buttons (left, right, home, end) and action buttons (Copy, Swap, Default, Send, Undo). The main interface is divided into several sections:

- Station Setup (1801):** Includes fields for Name, Type (22 Btn Display), Class of Service (1), and Access Level (5). It also has Toll Restriction Level (Day 0, Night 0), DSS (Type Uninstalled, Block Number 1), Intercept Options (DID None, Destination 300), and Door Box (Chime Ring, Relay Owner None).
- Trunk Group Access (1804):** A list of checkboxes for groups 90 through 98, all of which are checked.
- Ring Sets (1806):** A table for configuring ring tones and cadences for ICM, Group, and Recall. It includes columns for Tone, Cadence, and Ring Type (Day, Night, Delay). Buttons for 'Set 1', 'Set 2', and 'Set 3' are also present.

3

Use this page to set up station feature options, outgoing trunk group access, and define the Distinctive Ringing for each station. This option also lets you define the tone and cadence for each ring type in each of the station's default Ring Sets. (Normally, this capability is only available from a display telephone.) Refer to the following in the *DS1000/2000 Software Manual* for more:

- **1801 - Extension Port Description**
- **1804 - Extension Trunk Group Access**
- **1806 - Ring Type Configuration**

Note: After changing the Distinctive Ringing setup and applying the change to the system, you must use *Tools: Online Utilities: Reset Station Port* on page 3-73 to reset the station port.

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

Trunk	Line Access	Trunk	Line Access	Trunk	Line Access	Trunk	Line Access
1	Full Access	17	Full Access	33	Full Access	49	Full Access
2	Full Access	18	Full Access	34	Full Access	50	Full Access
3	Full Access	19	Full Access	35	Full Access	51	Full Access
4	Full Access	20	Full Access	36	Full Access	52	Full Access
5	Full Access	21	Full Access	37	Full Access	53	Full Access
6	Full Access	22	Full Access	38	Full Access	54	Full Access
7	Full Access	23	Full Access	39	Full Access	55	Full Access
8	Full Access	24	Full Access	40	Full Access	56	Full Access
9	Full Access	25	Full Access	41	Full Access	57	Full Access
10	Full Access	26	Full Access	42	Full Access	58	Full Access
11	Full Access	27	Full Access	43	Full Access	59	Full Access
12	Full Access	28	Full Access	44	Full Access	60	Full Access
13	Full Access	29	Full Access	45	Full Access	61	Full Access
14	Full Access	30	Full Access	46	Full Access	62	Full Access
15	Full Access	31	Full Access	47	Full Access	63	Full Access
16	Full Access	32	Full Access	48	Full Access	64	Full Access

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

3

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

STATIONS Station 1 Ext. 300 Copy Swap Default Send Undo

Setup Options Trunk Access Ring Assign Function Keys DSS Keys Speed Dial (1-10) Speed Dial (11-20) Mailbox

DSS Key Assignments (1703)

Extension 0

Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
1	2	3	4	5	6
Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
7	8	9	10	11	12
Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
13	14	15	16	17	18
Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
19	20	21	22	23	24

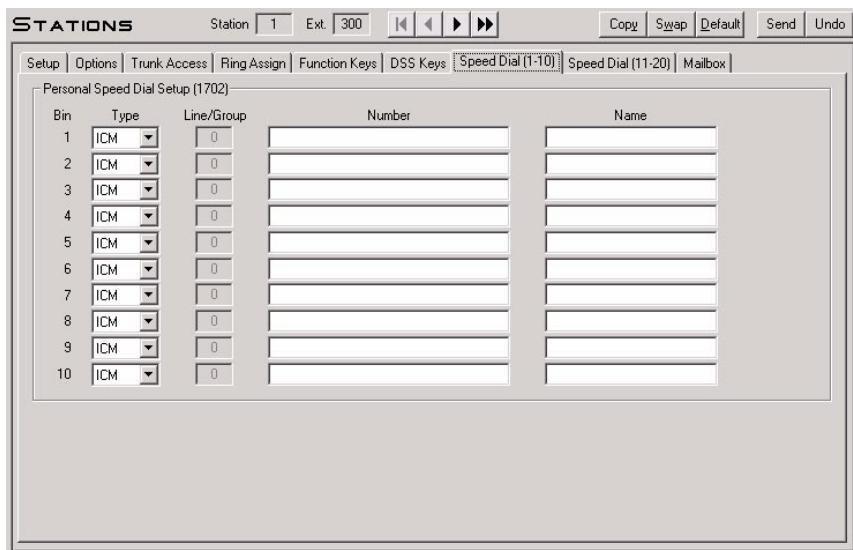
Use this page to assign a station's DSS Keys. If you have a 22-button telephone, only the first two rows of keys are available. To assign a DSS Key:

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**

3

Speed Dial (Personal) Bins 11-20

Bin	Type	Line/Group	Number	Name
11	ICM	0		
12	ICM	0		
13	ICM	0		
14	ICM	0		
15	ICM	0		
16	ICM	0		
17	ICM	0		
18	ICM	0		
19	ICM	0		
20	ICM	0		

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

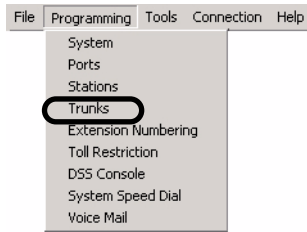
The screenshot shows the 'STATIONS' software interface. At the top, there are fields for 'Station' (1) and 'Ext.' (300), along with navigation arrows and buttons for 'Copy', 'Swap', 'Default', 'Send', and 'Undo'. Below this is a menu bar with options: 'Setup', 'Options', 'Trunk Access', 'Ring Assign', 'Function Keys', 'DSS Keys', 'Speed Dial (1-10)', 'Speed Dial (11-20)', and 'Mailbox'. The main window is titled 'IntraMail Mailbox Options (1808)'. It contains several settings:

- Enabled
- Next Call Routing Mailbox:
- Number of Messages:
- Message Retention Time: Days (0=IND, 1-90)
- Message Playback:
- Auto Save/Erase:
- Auto Time Stamp
- System Administrator Mailbox
- Force Unscreened Transfer
- Record Conversation Beep
- Automated Attendant DND
- Next Call Routing Mailbox Dialing Option
- Update Message Waiting Lamp

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**

Description



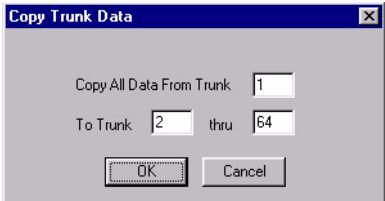
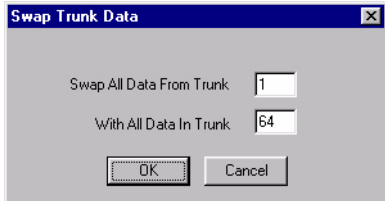
The *Programming: Trunks* option provides the trunk specific programming.

Programming Shortcut



Trunk Toolbar Controls

	Displays the number of the trunk you are programming.
	Displays the extension number for the trunk you are programming.
	Go back to the first trunk.
	Go to the previous trunk.
	Go to the next trunk.
	Jump (go to) a specific trunk.
	<p>Copies data from a trunk to another trunk or range of trunks.</p> <ol style="list-style-type: none"> Click the <i>Copy</i> button. You see the <i>Trunk Copy/Swap/Default Option</i> screen. <div data-bbox="597 1549 1140 1814" data-label="Image"> </div> Select the programs you want to copy, or click <i>All</i> to copy all listed programs.

	<p>3. Click <i>OK</i>.</p> <p>4. When you see the <i>Copy Trunk Data</i> screen.</p>  <p>Select the <u>source</u> and <u>destination</u> trunk number(s).</p> <ul style="list-style-type: none"> - The <u>source</u> is the trunk from which you want to copy. - The <u>destination</u> is the trunk or range of trunks that should receive the copied data. <p>5. Click <i>OK</i>.</p>
<p style="text-align: center;">Swap</p>	<p>Swaps the programming between two trunks. Note that this option <i>does not</i> swap trunk numbers (see <i>Programming: Extension Numbering</i> instead).</p> <ol style="list-style-type: none"> 1. Click the <i>Swap</i> button. 2. When you see the <i>Trunk Copy/Swap/Default Option</i> screen, select the programs you want to swap, or click <i>All</i> to swap all listed programs. 3. Click <i>OK</i>. 4. When you see the <i>Swap Trunk Data</i> screen:  <p>Select the <u>source</u> and <u>destination</u> ports and click <i>OK</i>.</p>
<p style="text-align: center;">Default</p>	<p>Resets the current page to its default settings.</p> <ol style="list-style-type: none"> 1. Click the <i>Default</i> button. 2. When you see the <i>Trunk Copy/Swap/Default Option</i> screen, select the programs you want to default, or click <i>All</i> to default all listed programs. 3. Click <i>OK</i>.
<p style="text-align: center;">Send</p>	<p>While on-line, sends the programmed changes to the connected telephone system.</p> <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
<p style="text-align: center;">Undo</p>	<p>Cancels any changes you made to the current page.</p>

Setup

The screenshot shows the 'TRUNKS' software interface. At the top, it displays 'Trunk 1' and 'Ext. 101'. Below this are navigation buttons (left, right, home, end) and action buttons (Copy, Swap, Default, Send, Undo). The main window has three tabs: 'Setup', 'Options', and 'Trunk Access'. The 'Setup' tab is active, showing 'Trunk Setup (1001)'. Fields include: Name (empty), Type (Loop Start DTMF), Class of Service (1), Toll Restriction Level (0), Gain / Attenuation (Transmit: 0.0 dB, Receive: 0.0 dB), Caller ID (Type: None, Forward to Voice Mail: checked), ANI / DNIS Options (Format: None, Delimiter: *, Digits: 10), Analog Trunk Options (Loop Length: Long), E1 Options (Signal Type: 0, MFC Type: None, MFC Group B Signalling: checked), PBX Line (unchecked), Print SMDR (checked), Dial Tone Detect (unchecked), and Disable Forced Account Codes (unchecked). Below this is 'Trunk Group Access (1004)' with checkboxes for Groups 90 through 98, all of which are checked.

Use this page to set up basic trunk features and Outgoing Trunk Group Access. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 1001 - Trunk Port Description
- 1004 - Outgoing Trunk Group Access for Trunks

Options

The screenshot shows the 'TRUNKS' software interface. At the top, it displays 'Trunk 1' and 'Ext. 101'. Below this are navigation buttons (left, right, home, end) and action buttons (Copy, Swap, Default, Send, Undo). The main window has three tabs: 'Setup', 'Options', and 'Trunk Access'. The 'Options' tab is active, showing 'Trunk Options (1003)'. Fields include: Tandem Trunk (unchecked), Operator (300), Dial 9 Group (90), Pickup Group (0), Voice Mail Answering Table (1), Ring Type (Day: Type A, Night: Type A, Delay: Type A), Music On Hold (Source: External, Allu Extension: 0), Ring Destination (Day) (Direct Termination: Key Ring, Extension: UND, Overflow Destination: Extension, Extension: 300, Activate Overflow Day: unchecked), Ring Destination (Night) (Direct Termination: Key Ring, Extension: UND, Overflow Destination: Extension, Extension: 300, Activate Overflow Night: unchecked), and Trunk Caller ID Groups (1005) (Group 1: checked, Groups 2-8: unchecked).

Use this page to set up additional trunk features (such as Direct Inward Lines and overflow), as well as assign trunks to Caller ID Groups. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 1003 - Trunk Options
- 1005 - Trunk Caller ID Logging Group

Trunk Access

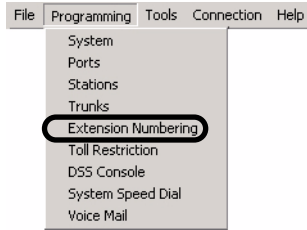
The screenshot shows a software window titled "TRUNKS" with a menu bar containing "Setup", "Options", and "Trunk Access". Below the menu bar, there are fields for "Trunk 1" and "Ext. 101", along with navigation arrows and buttons for "Copy", "Swap", "Default", "Send", and "Undo". The main content area is titled "Trunk Line Access (1006)" and contains a table with 4 columns of "Trunk" and "Line Access" pairs. Each pair has a dropdown menu set to "Full Access".

Trunk	Line Access	Trunk	Line Access	Trunk	Line Access	Trunk	Line Access
1	Full Access	17	Full Access	33	Full Access	49	Full Access
2	Full Access	18	Full Access	34	Full Access	50	Full Access
3	Full Access	19	Full Access	35	Full Access	51	Full Access
4	Full Access	20	Full Access	36	Full Access	52	Full Access
5	Full Access	21	Full Access	37	Full Access	53	Full Access
6	Full Access	22	Full Access	38	Full Access	54	Full Access
7	Full Access	23	Full Access	39	Full Access	55	Full Access
8	Full Access	24	Full Access	40	Full Access	56	Full Access
9	Full Access	25	Full Access	41	Full Access	57	Full Access
10	Full Access	26	Full Access	42	Full Access	58	Full Access
11	Full Access	27	Full Access	43	Full Access	59	Full Access
12	Full Access	28	Full Access	44	Full Access	60	Full Access
13	Full Access	29	Full Access	45	Full Access	61	Full Access
14	Full Access	30	Full Access	46	Full Access	62	Full Access
15	Full Access	31	Full Access	47	Full Access	63	Full Access
16	Full Access	32	Full Access	48	Full Access	64	Full 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**

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

System Stations Trunks Send Undo	
	Click to access the system numbering options. See <i>System Numbering</i> on page 3-51 for more.
	Click to access the station numbering options. See <i>Station Numbering</i> on page 3-52 for more.
	Click to access the trunk numbering options. See <i>Trunk Numbering</i> on page 3-53 for more.
	While on-line, sends the programmed changes to the connected telephone system. <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
	Cancels any changes you made to the current page.

System Numbering

Numbering Plan

Dialed Digit	Function Type	Expected Digits	Dialed Digit	Function Type	Expected Digits
0	Operator	2	5	Extension	3
1	Extension	3	6	Extension	3
2	Extension	3	7	Extension	3
3	Extension	3	8	Extension	3
4	Extension	3	9	Trunk Group	1

Single Digit Access

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**

3

UCD Hunting Group Numbering

Group	Hunt Master	Overflow	Name	Ring Type
1	700	UND	Voice Mail	Standard Group
2	701	UND		Standard Group
3	702	UND		Standard Group
4	703	UND		Standard Group
5	704	UND		Standard Group
6	705	UND		Standard Group
7	706	UND		Standard Group
8	707	UND		Standard Group

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**

Ring Group Numbering

Group	Extension	Name	Ring Type
1	600		Standard Group
2	601		Standard Group
3	602		Standard Group
4	603		Standard Group
5	604		Standard Group
6	605		Standard Group
7	606		Standard Group
8	607		Standard Group

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

- 0511 - Ring Group Master Extension Numbers and Names

Station Numbering

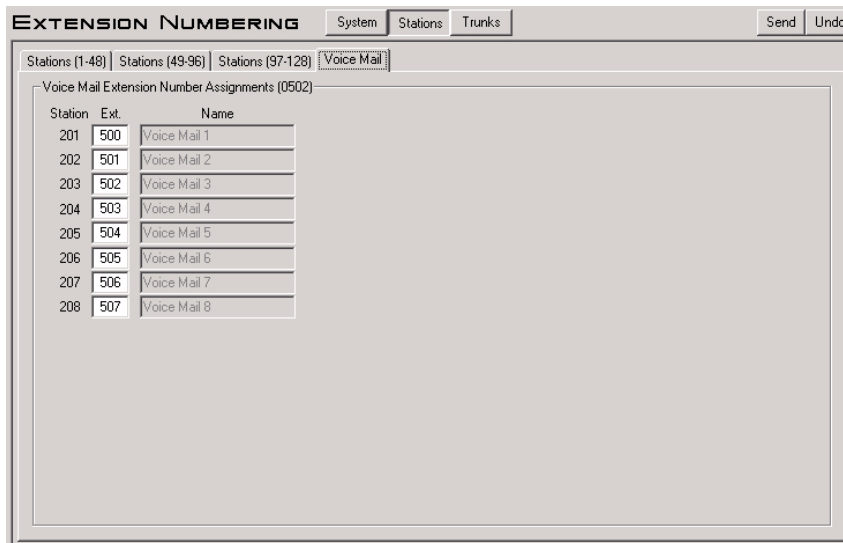
Station Numbering

Station	Ext.	Name	Station	Ext.	Name	Station	Ext.	Name
1	300		17	316		33	332	
2	301		18	317		34	333	
3	302		19	318		35	334	
4	303		20	319		36	335	
5	304		21	320		37	336	
6	305		22	321		38	337	
7	306		23	322		39	338	
8	307		24	323		40	339	
9	308		25	324		41	340	
10	309		26	325		42	341	
11	310		27	326		43	342	
12	311		28	327		44	343	
13	312		29	328		45	344	
14	313		30	329		46	345	
15	314		31	330		47	346	
16	315		32	331		48	347	

Use this page to assign extension numbers and names to each station. By editing the *Ext* field, you can also use this option to change (or swap) the extension numbers of two stations. For example, to make station 3 extension 303 and station 4 extension 302, just swap their *Ext* field entries. Note that this program **does not swap programming, just extension numbers**. (To swap programming, refer to *Programming: Ports (DS2000)* on page 3-31 and *Programming: Ports (DS1000)* on page 3-34.) In DS2000, the 128 stations are programmable via three separate tabs. In DS1000, all 34 stations are programmable from a single tab. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 0502 - View Extension Numbers

Voice Mail Numbering

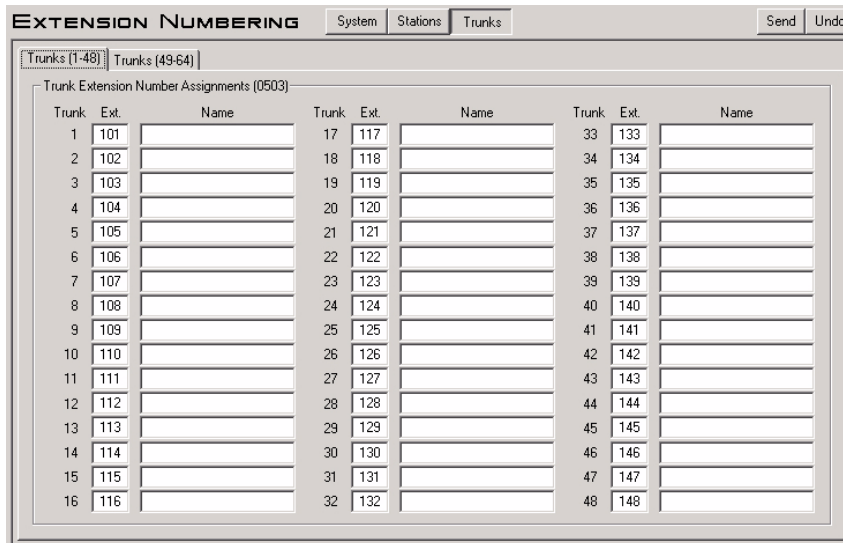


Use this page to assign extension numbers and names to the system’s 8 Voice Mail station ports (201-208). Wherever possible, simplify Voice Mail installation by leaving these assignments at their default values. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 0502 - View Extension Numbers

3

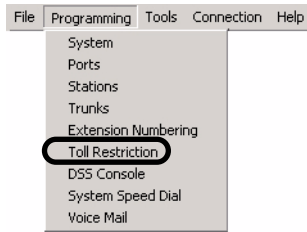
Trunk Numbering



Use this page to assign extension numbers and names to each trunk. You can also use this option to change (or swap) the extension numbers of two trunks. For example, to make trunk 3 extension 104 and trunk 4 extension 103, just swap their *Ext* field entries. Note that this program **does not swap programming, just extension numbers**. (To swap programming, refer to *Programming: Ports (DS2000)* on page 3-31 and *Programming: Ports (DS1000)* on page 3-34.) In DS2000, the 64 trunks are programmable via two separate tabs. In DS1000, all 6 trunks are programmable from a single tab. Refer to the following in the *DS1000/2000 Software Manual* for more:

- 0503 - View Trunk Numbers

Description



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

Programming Shortcut



Toll Restriction Toolbar Controls

	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.
	While on-line, sends the programmed changes to the connected telephone system. <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
	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**

3

Equal Access

1	13	25	37	49	61	73	85
2	14	26	38	50	62	74	86
3	15	27	39	51	63	75	87
4	16	28	40	52	64	76	88
5	17	29	41	53	65	77	89
6	18	30	42	54	66	78	90
7	19	31	43	55	67	79	91
8	20	32	44	56	68	80	92
9	21	33	45	57	69	81	93
10	22	34	46	58	70	82	94
11	23	35	47	59	71	83	95
12	24	36	48	60	72	84	96

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

TOLL RESTRICTION Level 1

Options | Equal Access | 1 + NPA | 1 + Six Digit | **NPA/NXX** | Six Digit

NPA/NXX Dial Codes (0605)

Table Type: Deny Allow

Clear All Sort

1	13	25	37	49	61	73	85
2	14	26	38	50	62	74	86
3	15	27	39	51	63	75	87
4	16	28	40	52	64	76	88
5	17	29	41	53	65	77	89
6	18	30	42	54	66	78	90
7	19	31	43	55	67	79	91
8	20	32	44	56	68	80	92
9	21	33	45	57	69	81	93
10	22	34	46	58	70	82	94
11	23	35	47	59	71	83	95
12	24	36	48	60	72	84	96

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

3

Six Digit

TOLL RESTRICTION Level 1

Options | Equal Access | 1 + NPA | 1 + Six Digit | NPA/NXX | **Six Digit**

Six Digit Dial Codes (0606)

Table Type: Deny Allow

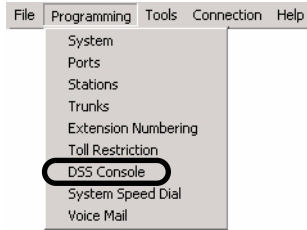
Clear All Sort

1	13	25	37	49	61	73	85
2	14	26	38	50	62	74	86
3	15	27	39	51	63	75	87
4	16	28	40	52	64	76	88
5	17	29	41	53	65	77	89
6	18	30	42	54	66	78	90
7	19	31	43	55	67	79	91
8	20	32	44	56	68	80	92
9	21	33	45	57	69	81	93
10	22	34	46	58	70	82	94
11	23	35	47	59	71	83	95
12	24	36	48	60	72	84	96

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).

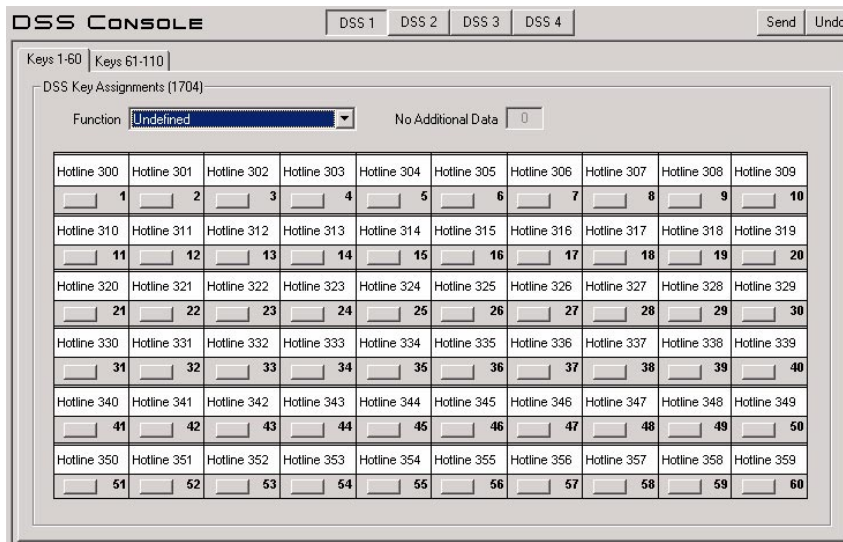
Programming Shortcut



DSS Console Toolbar Controls

	Click to program the keys for DSS Console 1 (block 1).
	Click to program the keys for DSS Console 2 (block 2).
	Click to program the keys for DSS Console 3 (block 3).
	Click to program the keys for DSS Console 4 (block 4).
	While on-line, sends the programmed changes to the connected telephone system. <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
	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

	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.
	While on-line, sends the programmed changes to the connected telephone system. <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
	Cancels any changes you made to the current page.

System Speed Dial Numbers

Bin	Type	Line/Group	Number	Name
200	ICM	0		
201	ICM	0		
202	ICM	0		
203	ICM	0		
204	ICM	0		
205	ICM	0		
206	ICM	0		
207	ICM	0		
208	ICM	0		
209	ICM	0		

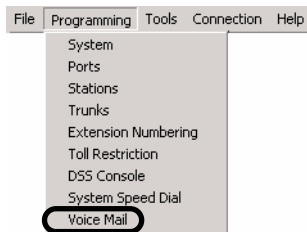
Use this page to assign a station's first 10 System Speed Dial bins (normally 200-209).

- 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 Options Master Routing Answer Action Send Undo	
	Click to set up options for Voice Mail ports.
	Click to set up IntraMail System Options.
	Click to set up the IntraMail Master Mailboxes.
	Click to set up the IntraMail Routing Mailbox options.
	Click to set up the IntraMail Answer Tables.
	Click the set up the IntraMail Dial Action Tables.
	While on-line, sends the programmed changes to the connected telephone system. <ul style="list-style-type: none"> • <i>Send</i> sends <i>all</i> changes made since the last <i>Send</i> command. • This button is not available while off-line.
	Cancels any changes you made to the current page.

Voice Mail Setup

Voice Mail Setup

The screenshot shows the 'VOICE MAIL' configuration window with tabs for System, Options, Master, Routing, Answer, and Action. The 'Setup' tab is active, showing 'Trunk Access' configuration. The 'Voice Mail Setup (8001)' section includes a 'Type' dropdown set to 'IntraMail' and a 'Master Extension' field set to '700'. The 'Voice Mail Options (8002)' section includes a 'Name' field set to 'Voice Mail #', a 'Class of Service' dropdown set to '2', an 'Operator' field set to '300', and a 'Dial 9 Group' dropdown set to '90'. Below this is a 'Toll Restriction Level' section with 'Day' and 'Night' dropdowns both set to '0'. The 'Trunk Group Access' section shows a row of checkboxes for groups 90 through 98, all of which are checked.

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)**

3

Voice Mail Outgoing Trunk Access

The screenshot shows the 'VOICE MAIL' configuration window with the 'Trunk Line Access (8003)' section. It features a table with four columns of 'Trunk' and 'Line Access' pairs, each with a 'Full Access' dropdown menu. The trunks are numbered 1 through 64 in increments of 17.

Trunk	Line Access	Trunk	Line Access	Trunk	Line Access	Trunk	Line Access
1	Full Access	17	Full Access	33	Full Access	49	Full Access
2	Full Access	18	Full Access	34	Full Access	50	Full Access
3	Full Access	19	Full Access	35	Full Access	51	Full Access
4	Full Access	20	Full Access	36	Full Access	52	Full Access
5	Full Access	21	Full Access	37	Full Access	53	Full Access
6	Full Access	22	Full Access	38	Full Access	54	Full Access
7	Full Access	23	Full Access	39	Full Access	55	Full Access
8	Full Access	24	Full Access	40	Full Access	56	Full Access
9	Full Access	25	Full Access	41	Full Access	57	Full Access
10	Full Access	26	Full Access	42	Full Access	58	Full Access
11	Full Access	27	Full Access	43	Full Access	59	Full Access
12	Full Access	28	Full Access	44	Full Access	60	Full Access
13	Full Access	29	Full Access	45	Full Access	61	Full Access
14	Full Access	30	Full Access	46	Full Access	62	Full Access
15	Full Access	31	Full Access	47	Full Access	63	Full Access
16	Full Access	32	Full Access	48	Full Access	64	Full Access

Use this page to set up outgoing trunk group access for Voice Mail ports. Refer to the following in the *Intra-Mail 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 Routing Mailboxes

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

- 8006 - IntraMail Routing Mailboxes

3

IntraMail Answer Tables

Entry	Type	Start Day	End Day	Start Time	End Time	Date	Mailbox
1	Day Range	Mon	Fri	8 : 30	17 : 00	/	0
2	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
3	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
4	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
5	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
6	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
7	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
8	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
9	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND
10	Undefined	Sun	Sun	0 : 00	0 : 00	/	UND

Use this page to set up the 8 IntraMail Answer Tables. There are 10 possible entries in each Answer Table. (For additional capacity, you can link Answer Tables using the *Next Table* drop down box.) Refer to the following in the *IntraMail System Guide* for more:

- 8007 - IntraMail Answer Tables

IntraMail Dial Action Tables

VOICE MAIL System Options Master Routing Answer Action Send Undo

DA Tables 1-2 | DA Tables 3-4 | DA Tables 5-6 | DA Tables 7-8 | DA Tables 9-10 | DA Tables 11-12 | DA Tables 13-14 | DA Tables 15-16

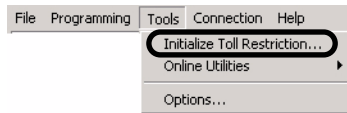
Dial Action Tables (8008)

Table 1			Table 2		
Key	Routing Option	Number	Key	Routing Option	Number
1	UNDEF (Undefined)		1	UNDEF (Undefined)	
2	UNDEF (Undefined)		2	UNDEF (Undefined)	
3	UTRF (Unscreened Transfer)	XXX	3	UNDEF (Undefined)	
4	UTRF (Unscreened Transfer)	XXX	4	UNDEF (Undefined)	
5	UNDEF (Undefined)		5	UNDEF (Undefined)	
6	UNDEF (Undefined)		6	UNDEF (Undefined)	
7	UNDEF (Undefined)		7	UNDEF (Undefined)	
8	UNDEF (Undefined)		8	UNDEF (Undefined)	
9	HNGUP (Hang Up)		9	UNDEF (Undefined)	
0	UTRF (Unscreened Transfer)	300	0	UNDEF (Undefined)	
*	REC1 (Record Message with Greeting)	XXX	*	UNDEF (Undefined)	
#	LOGON (Log On to Voice Mail)	XXX	#	UNDEF (Undefined)	
T/O	UTRF (Unscreened Transfer)	300	T/O	UNDEF (Undefined)	

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



Use this option to initialize Toll Restriction. You must initialize Toll Restriction prior to programming it for the first time.

To initialize Toll Restriction:

1. Click *Tools: Initialize Toll Restriction*. You see:



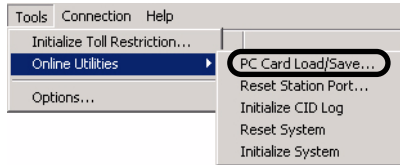
2. For installations in North America, select *United States* from the drop-down box and click *OK*. You see:



3. Click *OK* to initialize Toll Restriction and go to the *Programming: Toll Restriction: Options* screen. See page 55 for more.

Online Utilities: PC Card Load/Save

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:

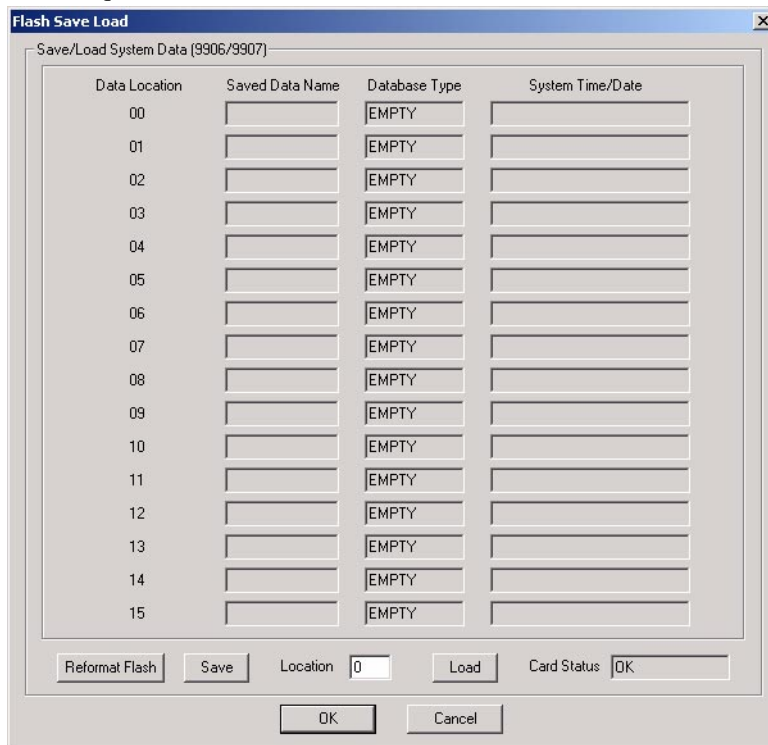
- 9906 - Database Save
- 9907 - Database Load
- 9908 - PC Card Erase Utility

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:

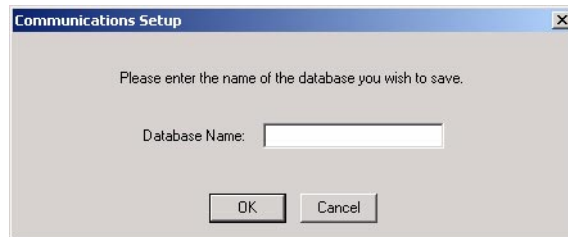


3. Since *PC Card Load/Save* backs up whatever data is in the DS2000 CPU, be sure you have uploaded all the required data and click *OK*. You see *Save/Load Main Screen*:

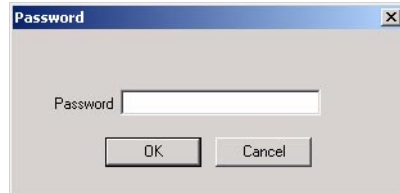


4. In the *Location* field, enter the address of the database (00-15) to which you want to save the data.

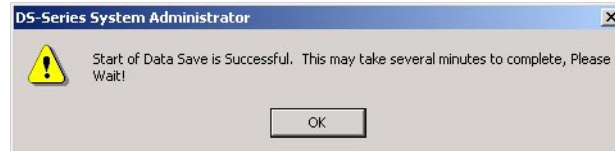
5. Click *Save*. You see:



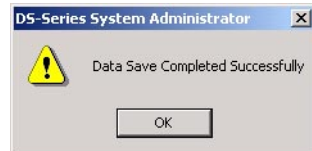
6. Enter a name for the database you wish to save (up to 15 characters) and click *OK*. You see:



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:

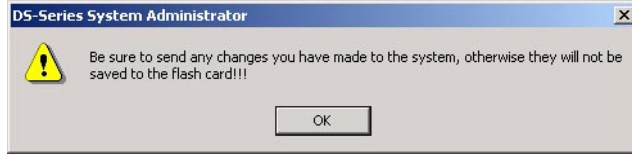


9. Click *OK* to return to the *Save/Load Main Screen*.

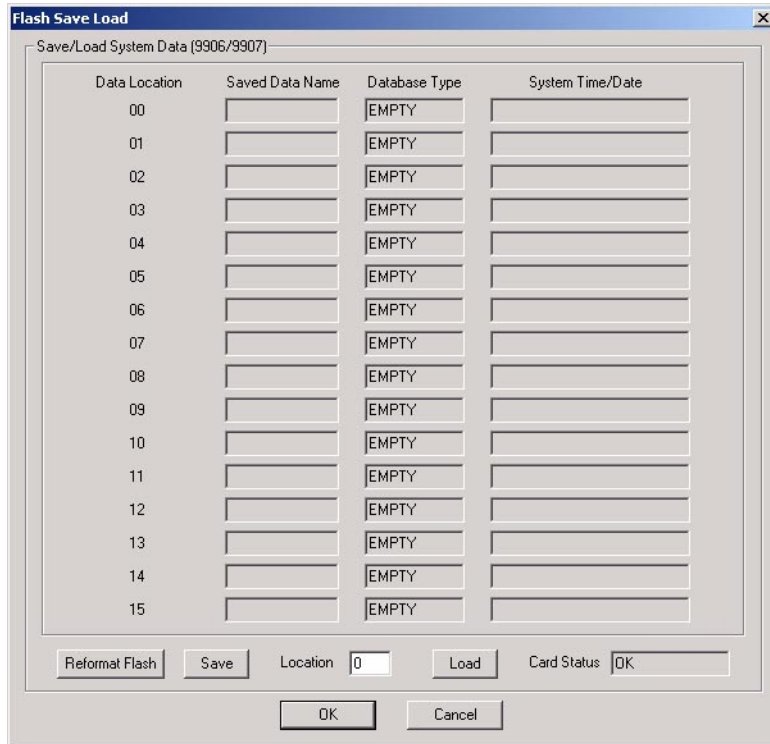
Online Utilities: PC Card Load/Save

To load a DS2000 database from a PC Card (P/N 85880):

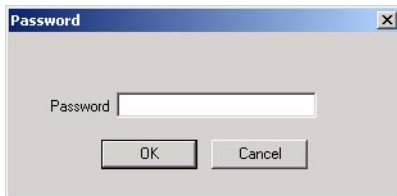
1. Following the instructions in your system's *Hardware Manual*, insert Data Base PC Card P/N 85880 into the CPU.
2. Click *Tools: Online Utilities: PC Card Load/Save*. You see:



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) from which you want to load the data.
5. Click *Load*. You see:



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



7. Click *OK* to begin the database load. After a few minutes, the load completes.

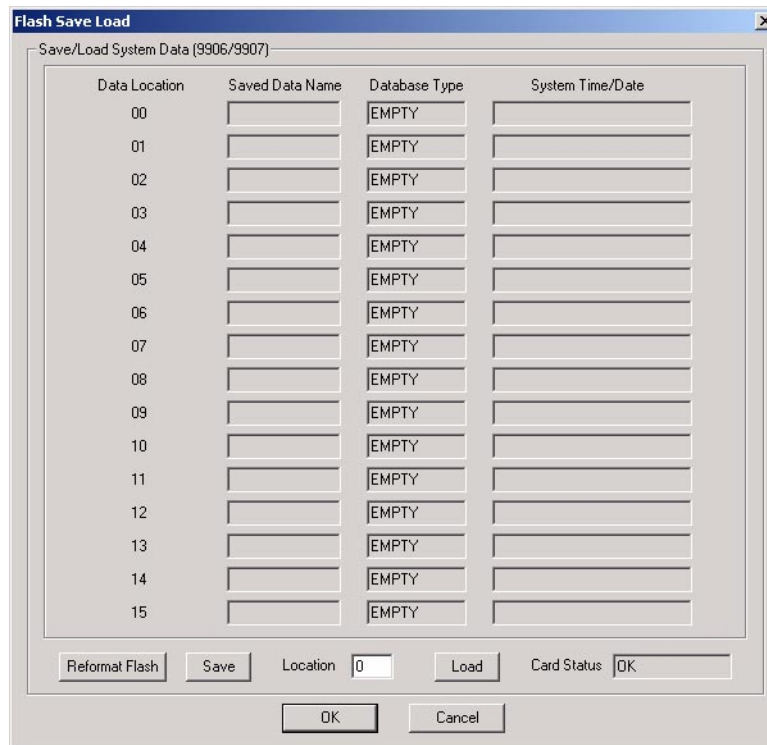
To format (erase) a DS2000 database PC Card (P/N 85880):

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

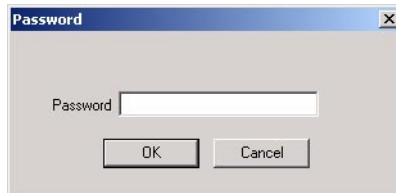
- Following the instructions in your system's *Hardware Manual*, insert Data Base PC Card P/N 85880 into the CPU.
- Click *Tools: Online Utilities: PC Card Load/Save*. You see:



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



- Click *Reformat Flash*. You see:



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



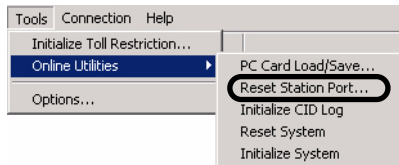
Online Utilities: PC Card Load/Save

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.

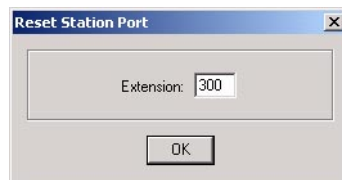
Description



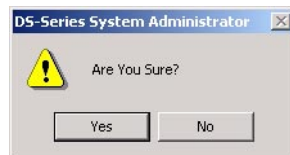
Reset Station Port allows you to reset an extension. This is the same as using telephone system program **9901 - Reset Station Port**.

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:



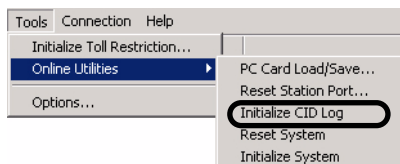
3. Click *Yes*. The extension resets and you see:



4. Click *OK*.

Online Utilities: Initialize Caller ID Log

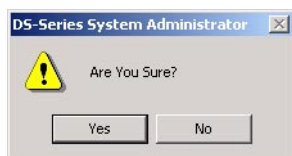
Description



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:

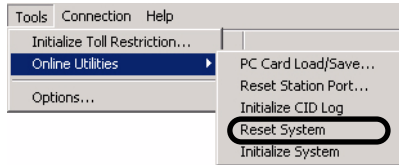


2. Click *Yes* to initialize the Caller ID logs. You see:



3. Click *OK*.

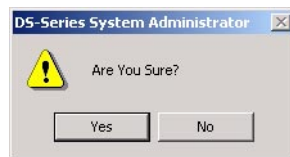
Description



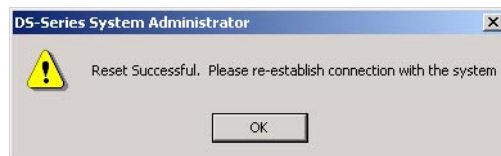
Use *Reset System* to do a reboot (warm reset) of the system without initializing. This is the same as pressing your system's red reset button.

To reset system:

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



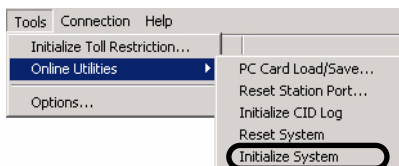
2. Click *Yes* to reset the system. You see:



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

Online Utilities: Initialize System

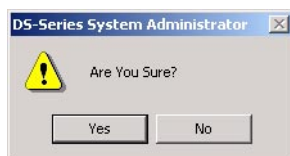
Description



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:

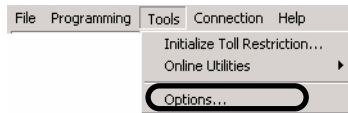


2. Click *Yes* to initialize the system. You see:



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

Description

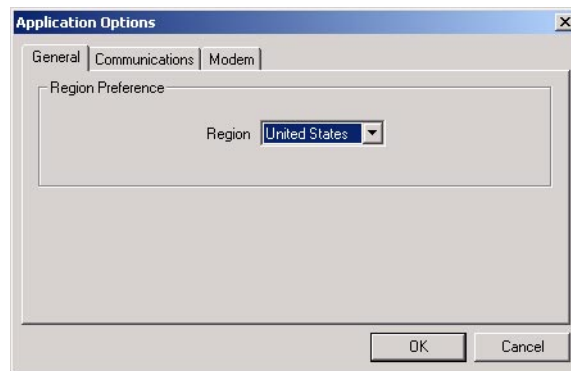


Use *Options: General* to set the Region Preference for new databases you create using the PC Program. **In North America, always choose *United States*** as the Region Preference. Selecting *Latin America* will:

- 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:

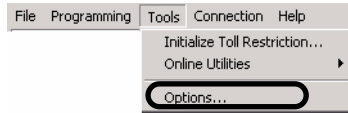
1. Click *Tools: Options* and click the *General* tab. You see:



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

Options: Communications

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:

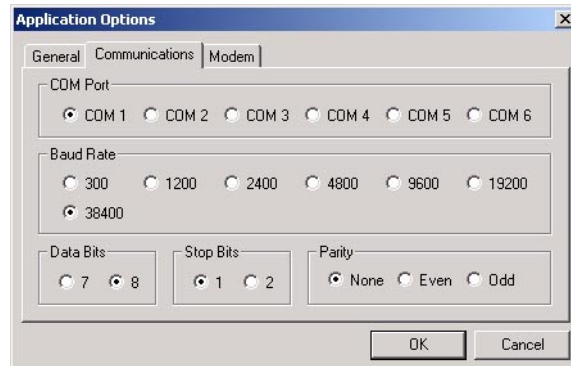
- Com 1 Selected
- 38,400 Baud
- No parity
- 8 data bits
- 1 stop bit

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.

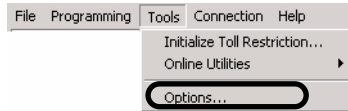
To set PC serial port parameters:

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



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

Description

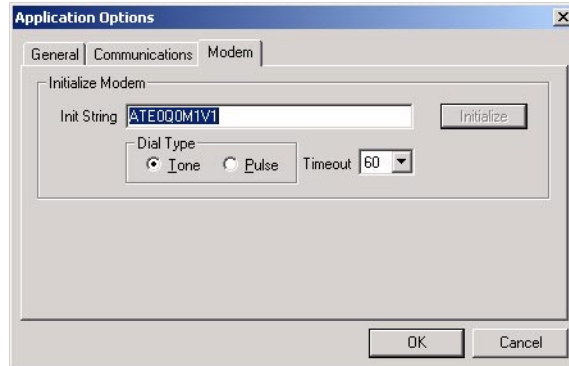


Use *Options: Modem* to set the PC modem's initialization string and whether the modem uses tone (DTMF) or pulse (DP) dialing. *Options: Modem* also sets how long the PC Program will wait for *Timeout* (i.e., for the remote modem to answer and connect).

- 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.

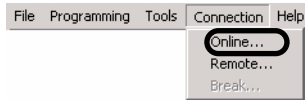
To set the modem options:

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:

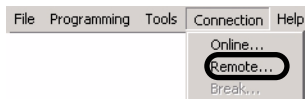


Enter the system password (normally 372000) and click *OK*.

- 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.

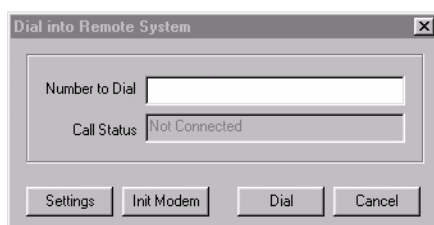
Description



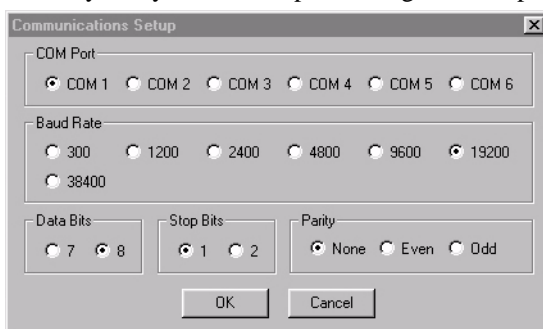
Use this option to connect to the telephone system remotely via modem.

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:

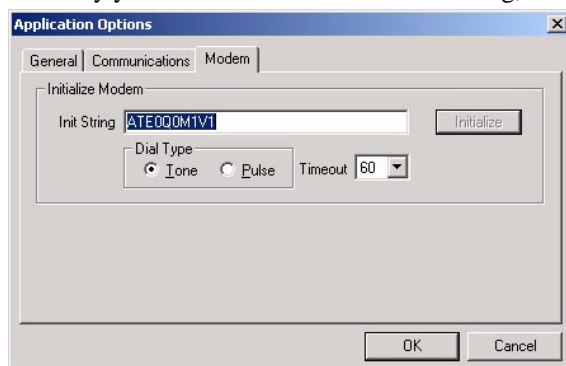


4. To verify that your modem port settings are compatible with you modem, click *Settings*. You see:



- 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:

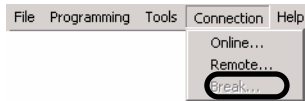


- The initialization string for your PC modem should be: **AT E0 Q0 M1 V1**
- The initialization string for the modem connected to the remote system should be: **AT Q1 &C1 &D0 &S1 S0=1 E0 &W0 &W1**
- Click *OK* when you are done.
- Set *Timeout* interval. The remote modem must respond within this interval.

Remote

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:



Search For Program Number

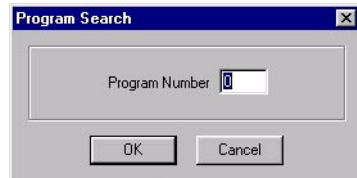
Description



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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