

Strata[®] ***DK***

Digital Business Telephone Systems

DK Admin/DK Backup Release 4 User Guide

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Introduction

This User Guide introduces you to the DKAdmin/DKBackup programs (previously called 280Admin/280Backup) which support the Strata DK14, DK16e, DK40 and DK424 digital telephone systems.

Note DKAdmin/DKBackup Release 4 software supports Strata DK14, DK16e, DK40, DK280 and DK424 systems.

It guides you step-by-step to mastering the few simple procedures that enable you to fully utilize DKAdmin/DKBackup. With this accomplished, you will find DKAdmin/DKBackup to be invaluable tools.

Organization

This guide contains the following information:

- ♦ **Chapter 1 – The Grand Tour** gives you a general description of the capabilities, screen conventions and basic operations of the DKAdmin/DKBackup programs.
- ♦ **Chapter 2 – Installing DKAdmin** shows you how to install DKAdmin onto your PC.
- ♦ **Chapter 3 – Installing DKBackup** shows you how to install DKBackup onto your PC.
- ♦ **Chapter 4 – Using DKAdmin/DKBackup** explains how to log on and off of DKAdmin/DKBackup, as well as how to use the pull-down menus, view and respond to system messages, and understand the keyboard conventions.
- ♦ **Chapter 5 – File Menu** provides easy step-by-step instructions for using DKAdmin/DKBackup to program and update the Strata DK, including procedures for both new and existing customers. The chapter also includes instructions on how to transfer data to a floppy disk.
- ♦ **Chapter 6 – Administration Menu (DKAdmin)** provides complete how-to instructions on using the Administration Menu options (e.g., flexible key and speed dial programming, system/station and ACD administration, etc.).
- ♦ **Chapter 7 – Backup Menu (DKBackup)** provides detailed instructions on checking the processor type, backing up and restoring system data, and upgrading processors. This menu is only available in the DKBackup program. The options available on this menu — Check Processor Type, Backup/Restore Data, and View/Print Data — also appear on the DKAdmin Administration Menu.
- ♦ **Chapter 8 – Options Menu** explains how to change basic system parameters, maintain your communication setup, view and print data, reindex files, and view system files.
- ♦ **Appendix A – Connecting to Strata DK** shows how to connect a DKAdmin/DKBackup PC to the Strata DK telephone system.

- ♦ **Appendix B – DK424 RCTUE/F Upgrade Using DKAdmin**
- ♦ **Appendix C – Considerations for Upgrading DK Systems to DK424 Release 4.0**
- ♦ **Index**

Conventions

This guide uses the following conventions:

Note Elaborates specific items or references other information. Within some tables, General Notes apply to the entire table and numbered Notes apply to specific items.

Important! *Calls attention to important instructions or information.*

CAUTION! **Advises you that hardware, software applications or data could be damaged if the instructions are not followed closely.**

Courier shows a computer keyboard entry or screen display. “Type” indicates entry of text. “Press” indicates pressing the designated key. Example of both:

Type **prog** then press **Enter**.

- + shows a multiple PC keyboard or phone button entry. Entries without spaces between them show a simultaneous entry. Example: **Delete+Enter**. Entries with spaces between them show a sequential entry. Example: # + 5.
- ~ means “through.” Example: 1 ~ 5.
- denotes the beginning of a procedure.
- denotes the step in a one-step procedure.

Letters in [brackets] represent buttons which have Directory Numbers on them. For example:

- [DN] Directory Number button (also known as an Extension or Intercom Number).
- [PDN] Primary Directory Number button (the extension Number for your telephone).
- [SDN] Secondary appearance of a [PDN]. A [PDN] which appears on another telephone is considered an [SDN].
- [PhDN] Phantom Directory Number button (an additional Directory Number).

Screen Variations

The DKAdmin/DKBackup screens may vary from those shown in this document as selection items are periodically modified.

Related Documentation

The following documents can be used to reference more information about the Strata DK systems.

- ♦ **Strata DK Programming Manual** provides all instructions necessary to program the system and system record sheets.
- ♦ **Strata DK Installation & Maintenance Manual** provides installation instructions for configuring and installing the Strata DK14, DK16e, DK40 and DK424. It also includes T1/DS-1 interface installation and configuration instructions and fault finding provides flowcharts to troubleshoot the systems, and user guides for stations and peripherals. An ACD Section provides instructions for installing ACD into the Strata DK424 and includes all ACD programming instructions and record sheets.
- ♦ **Strata DK Library CD-ROM** – contains all current Strata DK documentation and enables you to view, print, navigate and search publications.

How To Use This Manual

You can use this guide in a variety of ways, depending on your level of experience with the system and your assigned password level.

If you are a new user of DKAdmin/DKBackup, you should attempt to read this entire guide. It introduces you to all the features and procedures of the system and will enable you to begin working with DKAdmin/DKBackup quickly.

If you are proficient in using DKAdmin/DKBackup, you may still have questions from time-to-time about a particular function or procedure. Use the Index to locate a subject or item that you may have questions about, or scan the Contents.

Important!

- *DKAdmin/DKBackup support all releases of the Strata DK14, DK16e, DK40, DK280, and DK424 (all processors). This guide refers to these systems as Strata DK systems.*
- *DKAdmin/DKBackup programs do not support Strata DK8, DK16, or any DK24/56/96 releases.*

The Toshiba Strata DK systems are powerful, state-of-the-art modular digital key/hybrid/PBX telephone systems offering customers outstanding performance and flexibility. The advanced technology behind the Strata DK enables customers to configure a system based on their current telecommunications requirements. Small systems can be expanded over time through the addition of flexible modular units. As needs expand, so does the Strata DK.

DKAdmin/DKBackup are interactive software applications with user-friendly menus and screens that let you program, update, back up and restore Strata DK.

DKAdmin/DKBackup are DOS programs that run on your IBM-compatible personal computer. Although they are not Microsoft® Windows® programs, you can run them as a DOS session under Windows and configure them with an icon in Program Manager (see your Windows manual).

Capabilities

DKAdmin/DKBackup make the installation, programming and support process easier and more efficient. Among other functions, you can:

- ♦ Program, update, back up, restore and upgrade all Strata DK system databases from your IBM-compatible personal computer rather than from a programming telephone.
- ♦ Support DK14, DK16e, DK40 RCTUA, RCTUB, RCTUBA/BB, RCTUC/D, RCTUE/F processors (all releases).

Note Whenever a DKAdmin/DKBackup screen refers to Strata DK Release 3.0, Release 3, etc., the function will also work with Strata DK Release 3.10. DK16e, Release 1 is equivalent to the RCTUA3 feature set but does not provide Distributed Hunt.

- ♦ Backup, restore and upgrade station features, port locations and Strata DK individual customer data programs. This includes:
 - ♦ Station and system speed dial numbers
 - ♦ User names
 - ♦ Voice mail ID codes

- ♦ Voice mail message waiting ID codes
- ♦ Station and system speed dial memos
- ♦ Station and system LCD messages
- ♦ Station feature options
- ♦ CO line to station ringing and access assignments
- ♦ Flexible button assignments
- ♦ Directory number call forward status (Release 3 or above)
- ♦ Directory number message waiting status (Release 3 or above)
- ♦ ANI/Caller ID lost call telephone numbers (Release 3 or above)
- ♦ Display existing station and port data in ASCII format.
- ♦ Control certain system menu access through menu-specific user passwords.
- ♦ Use advanced search features to locate customers, features and programs.
- ♦ Backup, restore, and upgrade existing Strata DK programmed customer data.
- ♦ Transfer DK data to/from the database on the DKAdmin/DKBackup PC hard drive and/or programmed databases from one PC to another, using a floppy disk.
- ♦ Upgrade automatically to a larger processor.

Note A customer database (PRGALL) that is backed up from one type of processor can be upgraded to a larger type of processor, but not to a smaller one. For example, a PRGALL file that is backed up for RCTUB cannot be restored RCTUA but it can be restored (upgraded) to a RCTUC/D type processor.

Basic Operations

The DKAdmin and DKBackup Main Menu consists of the following menus:

DKAdmin	DKBackup
File Menu	File Menu
Administration Menu	Backup Menu
Options Menu	Options Menu

Note The Backup Menu consists of three functions also available on the DKAdmin Administration Menu.

The table below lists the options for each menu. A check mark (✓) appears next to the functions which are available on that menu:

Table 1 Main Menu Options

Main Menu	DKAdmin	DKBackup
File Menu		
Select Customer Select a customer for whom you wish to program or update Strata DK system data.	✓	✓
Maintain Customer File Create a new customer or update an existing customer's basic file information.	✓	✓
Dial DK Automatically select (program displays the Customer List screen) and dial to connect to a customer's Strata DK to upload/download data to/from your PC.	✓	✓
Hangup Connection Disconnect an online connection between your DKAdmin PC and a customer's Strata DK.	✓	✓
Transfer DK Data Transfer Strata DK customer data to/from your PC hard disk drive to a floppy disk.	✓	✓
About Displays the version number of the DKAdmin program.	✓	✓
Exit Exit DKAdmin and return to the C:\ prompt (or Program Manager, if configured to run under Windows).	✓	✓
DKAdmin Administration Menu—DKBackup Backup Menu		
View Cabinet Diagram Shows PCB placement per Program 03.	✓	
Check Processor Type Pulls and displays the processor type, Release and ROM/Flash Memory version from the installed Strata DK RCTU PCB.	✓	✓
System/Station Administration Maintain system and individual stations/port features.	✓	
Flexible Button Programming Section Maintain flexible button program assignments.	✓	
Speed Dial Programming Section Maintain system and station speed dial assignments.	✓	
ACD Administration Section Maintain ACD and ACD Agent programs.	✓	
Program Administration Section Maintain individual DK programs.	✓	
Security Maintenance Section Maintain DK program security levels.	✓	
Directory Number Administration Maintain your Directory Number assignments for PDNs and PhDNs.	✓	
DNIS Administration Maintain assignments for DNIS/DID/ANI lines.	✓	

Table 1 Main Menu Options (continued)

Main Menu	DKAdmin	DKBackup
Distributed Hunt Group Administration Maintain Distributed Hunt Group assignments.	✓	
E911/CAMA Trunk Programs (R4 Only) Maintain E911/CAMA trunk assignments.	✓	
ISDN Programs (R4 Only) Maintain ISDN program assignments.	✓	
Call Forward Assignments Maintain call forward assignments.	✓	
Backup/Restore Data Backup, restore and/or upgrade Strata DK customer databases.	✓	✓
View/Print Data View or print existing customer Strata DK databases in ASCII format.	✓	✓
Options Menu		
System Installation Set up or change screen type/colors, printers, user passwords and communication settings.	✓	✓
System Utilities ReIndex files.	✓	✓

Screen Conventions

All DKAdmin/DKBackup screens are organized in a similar manner (see Figure 1).

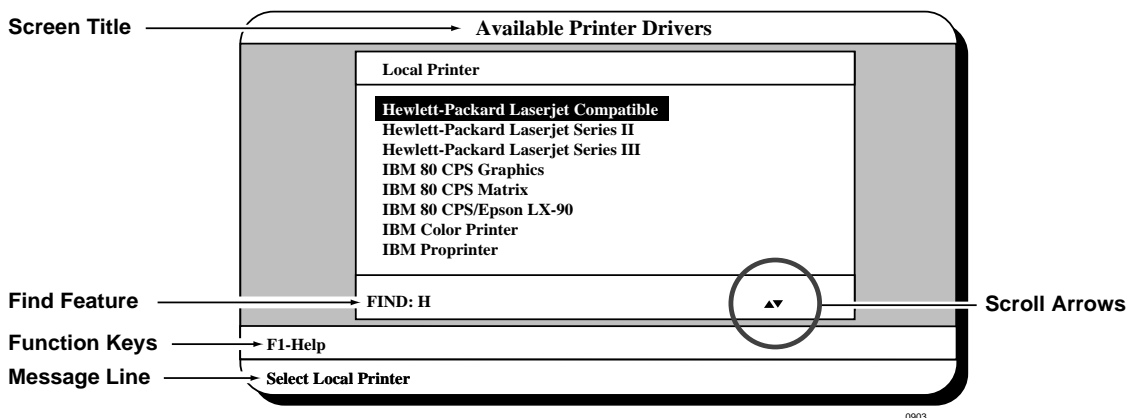


Figure 1 Sample Screen

Screen elements include:

- ♦ **Screen title** (at the top of the screen): tells you what screen is displayed.

- ♦ **Find feature:** Many of the screens in the DKAdmin/DKBackup programs have a Find feature for customer IDs, program numbers, or port numbers. To use the feature, highlight the number field you are searching (e.g., program number) and type the desired number. The DKAdmin/DKBackup programs move the highlighter to the field requested. If the number you have entered is incorrect, the program displays a dialog box telling you that it could not be found.

To repeat the search, press **ESC**, the highlighter moves back to the first number in the column and you can type in the new search number.

Note If the feature is available on the screen you have displayed, the word **FIND** appears at the bottom left corner.

- ♦ **Scroll arrows:** If scroll arrows appear in the bottom right-hand corner of the screen, additional screen information is available. Some screens cannot display all the information they contain within the boundaries of the screen display. Scroll arrows allow you to move the screen (vertically or horizontally). **Tab** and **Shift+Tab** keys enable you to move the bar up and down the screen vertically.
- ♦ **Function keys** (appear above the message line): tell you the processing options available from this screen.
- ♦ **Message line** (at the bottom of the screen): tells you important information about the task you are performing.

Step 1: Check System Requirements

For optimum performance, run DKAdmin on a personal computer with the following minimum specifications:

- ♦ IBM-compatible Pentium® personal computer
- ♦ 100MB or larger hard drive
- ♦ CD-ROM or 3.5" 1.44KB high-density floppy drive

Note DKAdmin software is distributed on a CD-ROM disk. Installation can be performed using the CD-ROM disk or from floppy disk(s) copied from the CD-ROM DKAdmin install program.

- ♦ VGA or SVGA monitor preferred
- ♦ 4MB RAM (minimum)
- ♦ Microsoft® MS-DOS® 6.22, Windows® 3.11 or higher (Windows 95, 98 or Windows NT® 4.0 recommended).
- ♦ A laser printer is recommended
- ♦ For network users, a minimum of 2MB of disk space is required for each person using DKAdmin on the network.
- ♦ DKAdmin hardware key (red)

DKAdmin is a MS-DOS program that can be installed and run under Microsoft Windows 3.11, 95, 98 and NT or MS-DOS (6.22 or higher). The installation and run instructions in this chapter include both Windows and DOS installation information.

Important!

- *If your PC has Windows 3.11 installed, setting your Windows SYSTEM.INI and DOS CONFIG.SYS files with the commands below may help DKAdmin run on your PC.*

```
SYSTEM.INI
[NonWindowsApp]
COMMANDENVSIZE=1024
```

```
DOS CONFIG.SYS
SHELL=C:\COMMAND.COM /e:1024 /p
```

- *If DKAdmin displays a "Run time error" message during installation or operation, erase all "ntx" files under the customer directory (XXX.DK) and the "data" directory.*

- From `C:\280ADMIN\Data`, type `del *.ntx` and press **Enter**.
- From `C:\280ADMIN\XXX.DK`, type `del *.ntx` and press **Enter**.
- Run *ReIndex Files* under *Options/System Utilities Menu* each time before you start to use DKAdmin.
- Always exit DKAdmin before you turn your computer off.

Step 2: Power Up DKAdmin PC

Note The DKAdmin Hardware Key must be installed on the PC LPT1 port, to enable the DKAdmin program to be used after it is installed. If you install DKAdmin without the key, it will not run.

1. Install the DKAdmin hardware key (red) on the LPT1 parallel printer port as shown in [Figure 2](#).

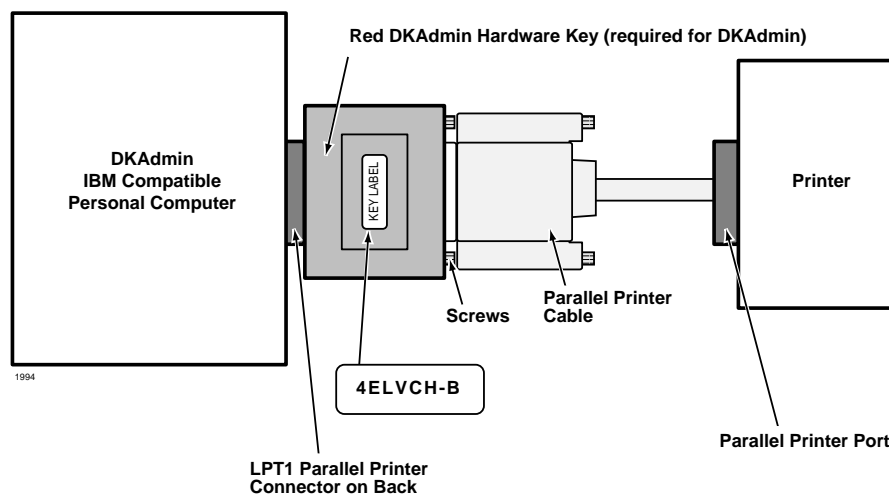


Figure 2 DKAdmin Hardware Connections

Notes

- If you wish, you can install a printer on the end of the LPT1 Admin Hardware Key.
 - The printer can be installed and used on the LPT1/Admin Hardware Key. But, it is not necessary to install a printer to enable DKAdmin to be installed or used.
2. Turn on your computer.

Step 3: (Optional) Make Installation Floppy Disks

From Windows

If you wish to install DKAdmin on a PC that *does not* have a CD-ROM, you will need to make installation floppies from a PC that *has* a CD-ROM. You can make installation disks that *install* the program using a Windows application (this works on all PCs with Windows 3.x, 95, 98 or Windows NT) or you can make DOS only installation disks.

CAUTION! Do not use the DOS installation program on a Windows PC.

Note Be sure to exit all programs running in Windows before starting.

1. Insert the CD-ROM into your CD-ROM drive. The Main Menu appears.
...or if the Main Menu does not appear after you insert the CD-ROM, click Start, Run, then Browse. Select your CD-ROM drive from the Look in: pull down list. Locate and double-click mainmenu.exe. The Main Menu opens.
2. From the Main Menu, select “Make Floppy Installation Disks” then select “DKAdmin Windows Installation Disks” or “DKAdmin DOS Installation Disks” (depending which target PC will get the installation). Follow the prompts.

From DOS Only PC

If you wish to install DKAdmin on a PC that *does not* have a CD-ROM, we recommend that you use a Windows PC and the preceding instructions to make installation floppy disks. However, in the rare case you are using a DOS only PC that has a CD-ROM, follow these steps:

1. Place a blank floppy in floppy drive A: (or B:). Insert the CD-ROM into your CD-ROM drive. Change the DOS prompt to the CD-ROM drive letter and type:
cd\dkados\disk1 and press **Enter**.
2. Type: **copy *.* A: (or B:)** and press **Enter**.
3. Place a another floppy in floppy drive A: (or B:) and type: **cd\dkados\disk2** and press **Enter**.
4. Type: **copy *.* A: (or B:)** and press **Enter**.

Step 4: Install DKAdmin

DKAdmin is a *DOS application program* that can be installed and run in either DOS or as a Windows DOS session.

CAUTION! If any earlier DKAdmin (280Admin) release is already installed on the PC, do not delete it; install DKAdmin Release 4.XX over the existing DKAdmin (280Admin) version as described below. DKAdmin is always installed in the 280Admin directory, overwriting the old DKAdmin (280Admin) operating software but not customer database directories. Existing 280Admin customer data can be used with DKAdmin Release 4.XX.

Note DKAdmin software is also available from the Toshiba FYI Internet site.

Windows PC from CD-ROM

Notes

- When installing DKAdmin to run as a DOS session in Windows NT, the install program assumes that the default directory name (WINNT) and the default system drive (Drive C) contain the system files. The installation procedure looks for this directory (C:\WINNT) and, if found, copies the necessary drivers for Windows NT onto the hard disk.
 - Be sure to exit all programs running in Windows before starting.
1. Insert the CD-ROM into your CD-ROM drive. The Main Menu appears.
...or if the Main Menu does not appear after you insert the CD-ROM, click Start, Run, then Browse. Select your CD-ROM drive from the Look in: pull down list. Locate and double-click mainmenu.exe. The Main Menu opens.
 2. From the Main Menu, select “Install DKAdmin” and follow the prompts.

Important! Remember that the “Install DKAdmin” selection in the Main Menu is a Windows application, but the actual DKAdmin application is a DOS/Windows DOS session application.

Windows PC from Floppy Disks

Note Be sure to exit all programs before running the Setup program.

1. Insert Floppy Disk #1 into the floppy drive and click Start, then Run. Type **a: \setup** (or **b: \setup**). Click OK. Follow the prompts to install DKAdmin.

CAUTION! During installation, selecting “New Installation” overwrites the existing DKAdmin customer list if you already have DKAdmin or 280Admin installed on your PC. Although the customer list is overwritten, you can still retrieve the existing customer data associated to that name by adding that customer’s name using the “Maintain Customer” selection on the newly installed DKAdmin. Do this for each customer name that is overwritten on the list.

2. Reboot your PC when prompted at the end of installation.

Notes

- If you installed DKAdmin for the first time, a 280ADMIN directory was created and the DKAdmin files copied to it.
- If you upgraded an existing DKAdmin program, your customer database has been maintained in the 280ADMIN directory.

DOS Only PC from CD-ROM

In the rare case your DOS only PC has a CD-ROM, follow these steps:

1. Insert the CD-ROM into your CD-ROM drive. Change the DOS prompt to that drive and type: **cd\dkados** and press **Enter**.
Type: **install** and press **Enter**.
2. Go to Step 3 of the procedure entitled [“DOS Only PC from Floppy Disks”](#) below. Disregard procedures referring to Disk #2.

CAUTION! *During installation, selecting “New Installation” overwrites the existing DKAdmin customer list if you already have DKAdmin or 280Admin installed on your PC. Although the customer list is overwritten, you can still retrieve the existing customer data associated to that name by adding that customer’s name using the “Maintain Customer” selection on the newly installed DKAdmin. Do this for each customer name that is overwritten on the list.*

DOS Only PC from Floppy Disks

1. Insert the DKAdmin Disk #1 into drive A: (or B:).
2. Using DOS, type: **a:\install** (or **b:\install**) at the **C:** prompt and press **Enter**.
The Toshiba Install DKAdmin System screen automatically displays. Follow the prompts to install DKAdmin.
3. During installation, if you have an existing customer file in an older version of DKAdmin (280Admin) on your PC, highlight the **DKAdmin 4.0 Upgrade Installation Only** selection and press **Enter**.
...or if you are installing for the first time, highlight the **DKAdmin 4.0 New Installation** selection and press **Enter**.

CAUTION! *During installation, selecting “New Installation” overwrites the existing DKAdmin customer list if you already have DKAdmin or 280Admin installed on your PC. Although the customer list is overwritten, you can still retrieve the existing customer data associated to that name by adding that customer’s name using the “Maintain Customer” selection on the newly installed DKAdmin. Do this for each customer name that is overwritten on the list.*

4. Remove the floppy disk from your floppy disk drive and reset the PC to initialize the changes made during installation.
5. Go to Step 3 in the [“Run DKAdmin Program”](#) on [Page 12](#).

Notes

- If you installed DKAdmin for the first time, a 280ADMIN directory was created and the DKAdmin files copied to it.

- If you upgraded an existing DKAdmin program, your customer database has been maintained in the 280ADMIN directory.
- If your Config.sys file is changed and you have problems with the new file when you reboot your computer, restore the original file (i.e., Config. bak).

Step 5: Run DKAdmin Program

Note Running the program under Windows 95, 98 or Windows NT is recommended for the best performance.

Start-up DKAdmin under Windows 98, 95 or Windows NT 4.0

- Click on the DKAdmin icon. The Toshiba Title screen displays.

Start-up DKAdmin in MS-DOS

1. From the **C:** prompt, type **CD 280ADMIN** and press **Enter**.
2. From the **C:\280ADMIN** prompt, type **dkadmin** and press **Enter**. The Toshiba Title screen displays.

Run DKAdmin

Note If the DKAdmin red hardware key is not installed, the following message displays: **Hardware key Not Installed. Exiting to DOS. OK.** Install the DKAdmin hardware key, then retry running the program.

1. Once the Toshiba Title screen displays, press any key to continue. This message appears: **Please Enter Your User ID:**
2. Type **Master** and press **Enter**. This message appears: **Please Enter Your Password.**
3. Type **Master** and press **Enter**. For security, your password does not display on the screen as you type it.

The default DKAdmin Password File Maintenance screen displays (shown right).

It is recommended that you change the MASTER password and create any other user passwords.

4. To change or add passwords, see "User Password Level Setup" on [Page 121](#).
5. After completing your password setup, press **Esc**. The message **Do You Want To Copy User File Back On The Installation Disk?** displays.



The screenshot shows a window titled "Password File Maintenance" with a table of user information. The table has four columns: User Id, User Name, Password, and Level. The rows are: ADMIN1 (Administrator Level I, ADMIN1, 2), ADMIN2 (Administrator Level II, ADMIN2, 5), MASTER (Principal, MASTER, 9), and TECH1 (TECH I, TECH1, 8). The ADMIN1 row is selected. At the bottom, there are keyboard shortcuts: F1-Help, Ins-Insert Record, Del-Delete Record, and Esc-Exit. Below the table, it says "User Login Id".

User Id	User Name	Password	Level
ADMIN1	Administrator Level I	ADMIN1	2
ADMIN2	Administrator Level II	ADMIN2	5
MASTER	Principal	MASTER	9
TECH1	TECH I	TECH1	8

6. Highlight **Yes** and press **Enter**. If you choose **No**, your new passwords are not installed on the disk.
7. A **"Copy to Drive"** dialog box displays. The box defaults to drive **A:**. If you do not want drive **A:**, type the drive letter to which you wish to copy the installation information. Press **Enter**. A dialog box displays asking you to insert the DKAdmin Installation Disk #1 into the appropriate disk drive.
8. Insert DKAdmin Installation Disk #1 into the floppy-disk drive and press any key to continue. When complete, a message **Process Successful** displays and your new passwords are now available on your DKAdmin Installation Disk #1.
9. Press any key to display the DKAdmin Main Menu screen (shown right).

You are now ready to use DKAdmin and can use your:

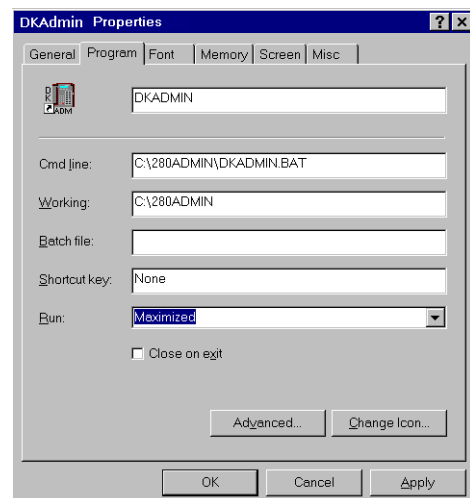
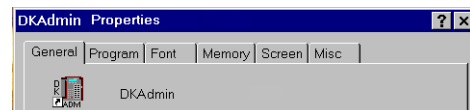
- ✦ Modified installation disks to install DKAdmin on additional workstations.
- ✦ New passwords to log in to DKAdmin.



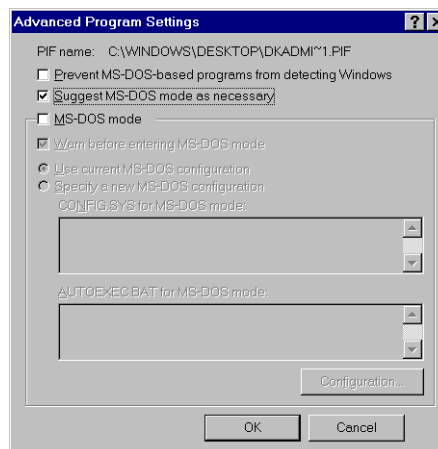
Set Windows DKAdmin Program Properties

Set these properties when running DKAdmin as a DOS session under Windows:

1. Right click on the DKAdmin desktop icon, then click on Properties.
The DKAdmin Properties dialog box displays (shown at right).
2. Select the Program Tab screen (shown at right). You should see:
Cmd line: **C:\280ADMIN\DKADMIN.BAT**
Working: **C:\280ADMIN**
3. In the Run box, select **Maximized** from the drop-down menu.
4. Click Apply.
5. On the same screen, click Advanced. The Advanced Program Settings screen displays.

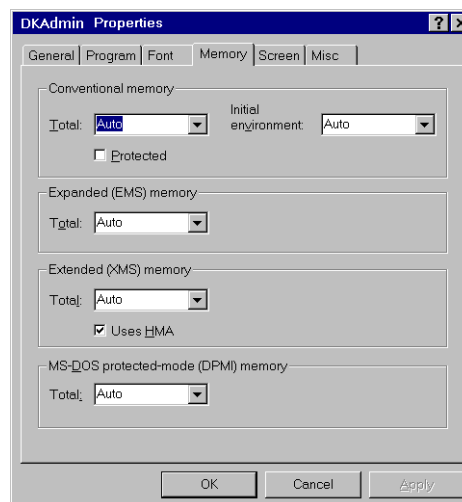


- From Advanced Program Settings screen (shown at right), check only the **Suggest MS-DOS mode as necessary** option. Click on OK.



Note Other screen settings should not be selected.

- Select the Memory Tab screen (shown at right). All fields should read **Auto**. If you make changes, click on OK.



- Select the Screen Tab screen (shown at right). The selected settings should be:

Usage: **Full-screen**

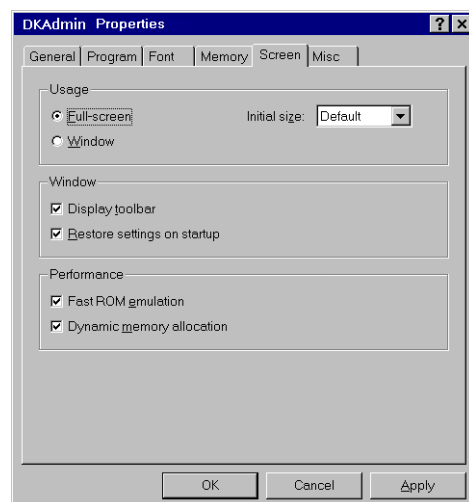
Window:

Display toolbar
Restore settings on startup

Performance:

Fast ROM emulation
Dynamic memory allocation

If you make changes, click on Apply.

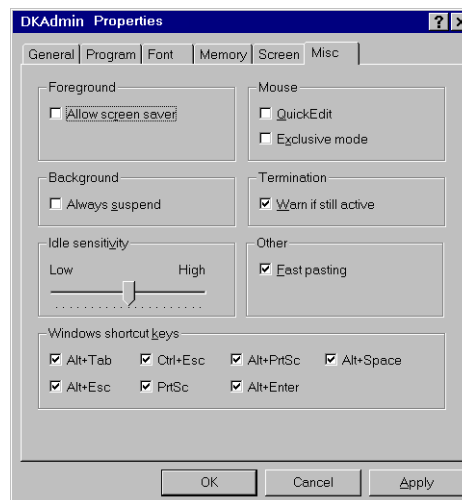


9. Select the Misc Tab screen (shown at right).
10. Only the items in the Termination, Other and Windows shortcut keys boxes should be selected.

Note It is best not to allow screen savers.

If you make changes, click on Apply.

11. Close the DKAdmin Properties dialog box and return to Step 3 of “[Start-up DKAdmin under Windows 98, 95 or Windows NT 4.0](#)” on [Page 12](#).



Step 6: Connect to the Strata DK Telephone System

- To program or update a Strata DK, you must be connected to the Strata DK telephone system. For procedures on connecting your PC to the Strata DK, see [Appendix A – Connecting to Strata DK](#).

Step 1: Check System Requirements

For optimum performance, run DKBackup on a personal computer with the following minimum specifications:

- ♦ IBM-compatible 386/486 personal computer or higher level
- ♦ 20MB or larger hard drive
- ♦ CD-ROM or 3.5" 1.44KB high-density floppy drive

Note DKBackup software is distributed on a CD-ROM disk. Installation can be performed using the CD-ROM disk or from floppy disk(s) copied from the CD-ROM DKBackup install program.

- ♦ VGA or SVGA monitor preferred
- ♦ 640KB RAM (minimum)
- ♦ Microsoft® MS-DOS® 6.22, Windows® 3.11 or higher (Windows 95, 98 or Windows NT® 4.0 recommended).
- ♦ A laser printer is recommended
- ♦ For network users, a minimum of 2MB of disk space is required for each person using DKBackup on the network.
- ♦ DKBackup hardware key (green or red)

DKBackup is a MS-DOS program that can be installed and run under Microsoft Windows 3.11, 95, 98, NT or MS-DOS (6.22 or higher). The installation and run instructions in this chapter include both Windows and DOS installation information.

Important!

- *If your PC has Windows installed, setting your Windows SYSTEM.INI and DOS CONFIG.SYS files with the commands below may help DKBackup run on your PC.*

```
SYSTEM.INI
[NonWindowsApp]
COMMANDEVNSIZE=1024
```

```
DOS CONFIG.SYS
SHELL=C:\COMMAND.COM /e:1024 /p
```

- *If DKBackup displays a "Run time error" message during installation or operation, erase all "ntx" files under the customer directory (XXX.DK) and the "data" directory.*

- From `C:\280BCKUP\Data`, type `del *.ntx` and press **Enter**.
- From `C:\280BCKUP\XXX.DK`, type `del *.ntx` and press **Enter**.
- Run "ReIndex Files" under Options/System Utilities Menu each time before you start to use DKBackup.
- Always exit DKBackup before you turn your computer off.

Step 2: Power Up DKBackup PC

Note The DKBackup or DKAdmin Hardware Key must be installed on the PC LPT1 port, to allow the DKBackup program to be used after it is installed. If you install DKBackup without the key, it will not run.

1. Install the DKBackup hardware key (green or red) on the LPT1 parallel printer port as shown in [Figure 3](#).

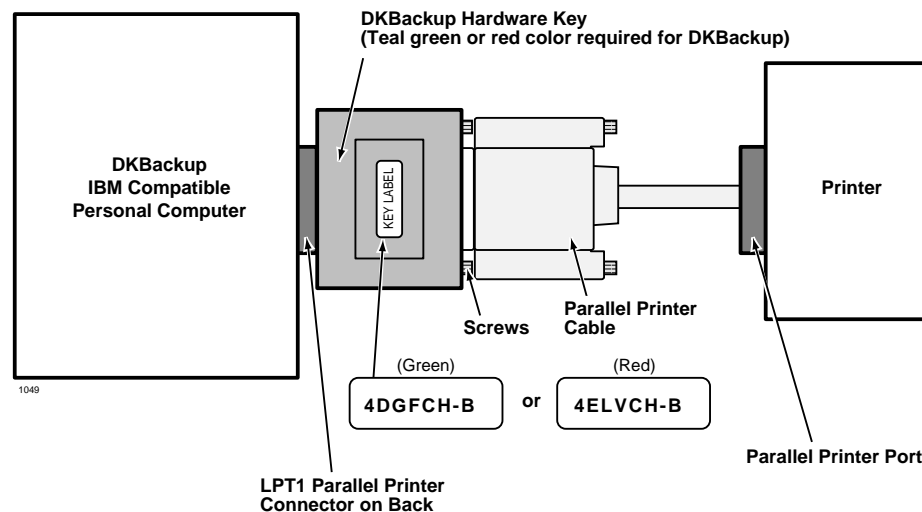


Figure 3 DKBackup Hardware Connections

Notes

- If you wish, you can install a printer on the end of the LPT1 Admin Hardware Key.
 - The printer can be installed and used on the LPT1/Backup Hardware Key. But, it is not necessary to install a printer to enable DKBackup to be installed or used.
2. Turn on your computer.

Step 3: (Optional) Make Installation Floppy Disks

From Windows

If you wish to install DKBackup on a PC that *does not* have a CD-ROM, you will need to make installation floppies from a PC that *has* a CD-ROM. You can make installation disks that *install* the program using a Windows application (this works on all PCs with Windows 3.x, 95, 98 or Windows NT) or you can make DOS only installation disks.

CAUTION! Do not use the DOS installation program on a Windows PC.

Note Be sure to exit all programs running in Windows before starting.

1. Insert the CD-ROM into your CD-ROM drive. The Main Menu appears.
...or if the Main Menu does not appear after you insert the CD-ROM, click Start, Run, then Browse. Select your CD-ROM drive from the Look in: pull down list. Locate and double-click mainmenu.exe. The Main Menu opens.
2. From the Main Menu, select "Make Floppy Installation Disks" then select "DKBackup Windows Installation Disks" or "DKBackup DOS Installation Disks" (depending which target PC will get the installation). Follow the prompts.

From DOS Only PC

If you wish to install DKBackup on a PC that *does not* have a CD-ROM, we recommend that you use a Windows PC and the preceding instructions to make installation floppy disks. However, in the rare case you are using a DOS only PC that has a CD-ROM, follow these steps:

1. Place a blank floppy in floppy drive A: (or B:). Insert the CD-ROM into your CD-ROM drive. Change the DOS prompt to the CD-ROM drive letter and type:
cd\dkbdos\disk1 and press **Enter**.
2. Type: **copy *.* A: (or B:)** and press **Enter**.
3. Place a another floppy in floppy drive A: (or B:) and type: **cd\dkbdos\disk2** and press **Enter**.
4. Type: **copy *.* A: (or B:)** and press **Enter**.

Step 4: Install DKBackup

DKBackup is a *DOS application program* that can be installed and run in either DOS or as a Windows DOS session.

CAUTION! If any earlier DKBackup (280Backup) release is already installed on the PC, do not delete it; install DKBackup Release 4.XX over the existing DKBackup (280Backup) version as described below. DKBackup is always installed in the 280Backup directory, overwriting the old DKBackup (280Backup) operating software but not customer database directories. Existing 280Backup customer data can be used with DKBackup Release 4.XX.

Note DKBackup software is also available from the Toshiba FYI Internet site.

Windows PC from CD-ROM

Notes

- When installing DKBackup to run as a DOS session in Windows NT, the install program assumes that the default directory name (WINNT) and the default system drive (Drive C) contain the system files. The installation procedure looks for this directory (C:\WINNT) and, if found, copies the necessary drivers for Windows NT onto the hard disk.
 - Be sure to exit all programs running in Windows before starting.
1. Insert the CD-ROM into your CD-ROM drive. The Main Menu appears.
...or if the Main Menu does not appear after you insert the CD-ROM, click Start, Run, then Browse. Select your CD-ROM drive from the Look in: pull down list. Locate and double-click mainmenu.exe. The Main Menu opens.
 2. From the Main Menu, select “Install DKBackup” and follow the prompts.

Important! Remember that the “Install DKBackup” selection in the Main Menu is a Windows application, but the actual DKBackup application is a DOS/Windows DOS session application.

Windows PC from Floppy Disks

Note Be sure to exit all programs before running the Setup program.

1. Insert Floppy Disk #1 into the floppy drive and click Start, then Run. Type **a:** \setup (or **b:** \setup). Click OK. Follow the prompts to install DKBackup.

CAUTION! During installation, selecting “New Installation” overwrites the existing DKBackup customer list if you already have DKBackup or 280Backup installed on your PC. Although the customer list is overwritten, you can still retrieve the existing customer data associated to that name by adding that customer’s name using the “Maintain Customer” selection on the newly installed DKBackup. Do this for each customer name that is overwritten on the list.

2. Reboot your PC when prompted at the end of installation.

Notes

- If you installed DKBackup for the first time, a 280BCKUP directory was created and the DKBackup files copied to it.
- If you upgraded an existing DKBackup program, your customer database has been maintained in the 280BCKUP directory.

DOS Only PC from CD-ROM

In the rare case your DOS only PC has a CD-ROM, follow these steps:

1. Insert the CD-ROM into your CD-ROM drive. Change the DOS prompt to that drive and type: **cd\dkados** and press **Enter**.
Type: **install** and press **Enter**.
2. Go to Step 3 of the procedure entitled [“DOS only PC from Floppy Disks”](#) below. Disregard procedures referring to Disk #2.

CAUTION! *During installation, selecting “New Installation” overwrites the existing DKBackup customer list if you already have DKBackup or 280Backup installed on your PC. Although the customer list is overwritten, you can still retrieve the existing customer data associated to that name by adding that customer’s name using the “Maintain Customer” selection on the newly installed DKBackup. Do this for each customer name that is overwritten on the list.*

DOS only PC from Floppy Disks

1. Insert the DKBackup Disk #1 into drive A: (or B:).
2. Using DOS, type: **a:\install** (or **b:\install**) at the **C:** prompt and press **Enter**.
The Toshiba Install DKBackup System screen automatically displays. Follow the prompts to install DKBackup.
3. During installation, if you have an existing customer file in an older version of DKBackup (280Backup) on your PC, highlight the **DKBackup 4.0 Upgrade Installation Only** selection and press **Enter**.
...or if you are installing for the first time, highlight the **DKBackup 4.0 New Installation** selection and press **Enter**.

CAUTION! *During installation, selecting “New Installation” overwrites the existing DKBackup customer list if you already have DKBackup or 280Backup installed on your PC. Although the customer list is overwritten, you can still retrieve the existing customer data associated to that name by adding that customer’s name using the “Maintain Customer” selection on the newly installed DKBackup. Do this for each customer name that is overwritten on the list.*

4. Remove the floppy disk from your floppy disk drive and reset the PC to initialize the changes made during installation.
5. Go to Step 3 in the [“Run DKBackup”](#) on [Page 22](#).

Notes

- If you installed DKBackup for the first time, a 280BCKUP directory was created and the DKBackup files copied to it.
- If you upgraded an existing DKBackup program, your customer database has been maintained in the 280BCKUP directory.
- If your Config.sys file is changed and you have problems with the new file when you reboot your computer, restore the original file (i.e., Config. bak).

Step 5: Run DKBackup Program

Note Running the program under Windows 95, 98 or Windows NT is recommended for the best performance.

Start-up DKBackup under Windows 3.11, 95, 98 or Windows NT 4.0

- Click on the DKBackup icon. The Toshiba Title screen displays.

Start-up DKBackup in MS-DOS

1. From the **C:** prompt, type **CD 280BCKUP** and press **Enter**.
2. From the **C:\280BCKUP** prompt, type **dkbackup** and press **Enter**. The Toshiba Title screen displays.

Run DKBackup

Note If the DKBackup red or green hardware key is not installed, the following message displays: **Hardware key Not Installed. Exiting to DOS. OK.** Install the DKBackup hardware key, then retry running the program.

1. Once the Toshiba Title screen displays, press any key to continue. This message appears: **Please Enter Your User ID:**
2. Type **Master** and press **Enter**. This message appears: **Please Enter Your Password.**
3. Type **Master** and press **Enter**. For security, your password does not display on the screen as you type it.

The default DKBackup Password File Maintenance screen displays (shown right).

It is recommended that you change the MASTER password and create any other user passwords.

4. To change or add passwords, see “User Password Level Setup” on [Page 121](#).

The screenshot shows a window titled "Password File Maintenance" with a table of user accounts. The table has four columns: User Id, User Name, Password, and Level. The rows are: ADMIN1 (Administrator Level I, ADMIN1, 2), ADMIN2 (Administrator Level II, ADMIN2, 5), MASTER (Principal, MASTER, 9), and TECH1 (TECH I, TECH1, 8). The ADMIN1 row is selected with a mouse cursor. At the bottom of the window, there are keyboard shortcuts: F1-Help, Ins-Insert Record, Del-Delete Record, and Esc-Exit. Below the window, the text "User Login Id" is visible.

User Id	User Name	Password	Level
ADMIN1	Administrator Level I	ADMIN1	2
ADMIN2	Administrator Level II	ADMIN2	5
MASTER	Principal	MASTER	9
TECH1	TECH I	TECH1	8

5. After completing your password setup, press **Esc**. The message **Do You Want To Copy User File Back On The Installation Disk?** displays.
6. Highlight **Yes** and press **Enter**. If you choose **No**, your new passwords are not installed on the disk.
7. A **"Copy to Drive"** dialog box displays. The box defaults to drive **A:**. If you do not want drive **A:**, type the drive letter to which you wish to copy the installation information. Press **Enter**. A dialog box displays asking you to insert the DKBBackup Installation Disk into the appropriate disk drive.
8. Insert the DKBBackup Installation Disk into the floppy-disk drive and press any key to continue. When complete, a message **Process Successful** displays and your new passwords are now available on your DKBBackup Installation Disk.
9. Press any key to display the DKBBackup Main Menu screen (shown right).

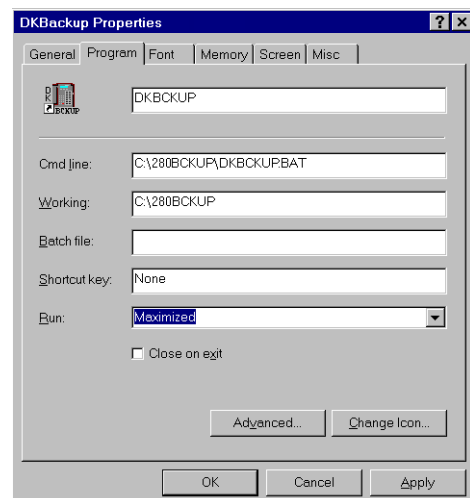
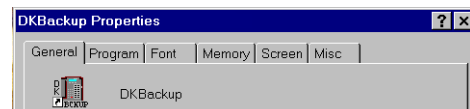
You are now ready to use DKBBackup and can use your:

- ✦ Modified installation disks to install DKBBackup on additional workstations.
- ✦ New passwords to log in to DKBBackup.



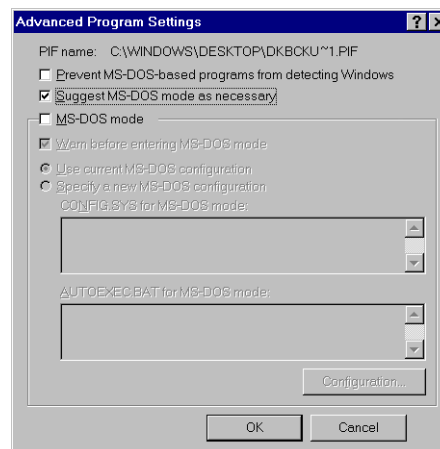
Set Windows DKBBackup Program Properties

1. Right click on the DKBBackup desktop icon, then click on Properties.
The DKBBackup Properties dialog box displays (shown at right).
2. Select the Program Tab screen (shown at right). You should see:
Cmd line: **C:\280BCKUP\DKBCKUP.BAT**
Working: **C:\280BCKUP**
3. In the Run box, select **Maximized** from the drop-down menu.
4. Click Apply.
5. On the same screen, click Advanced. The Advanced Program Settings screen displays.

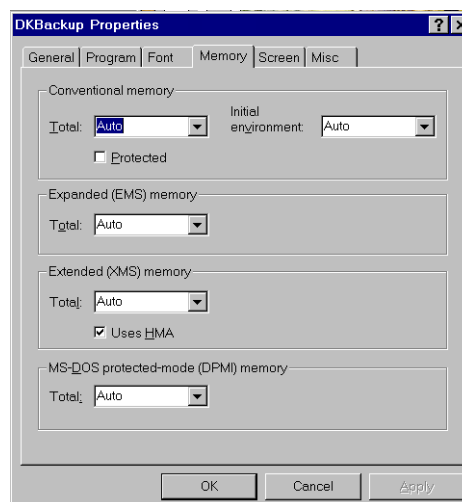


- From Advanced Program Settings screen (shown at right), check only the **Suggest MS-DOS mode as necessary** option. Click on OK.

Note Other screen settings should not be selected.



- Select the Memory Tab screen (shown at right). All fields should read **Auto**. If you make changes, click on OK.



- Select the Screen Tab screen (shown at right). The selected settings should be:

Usage: **Full-screen**

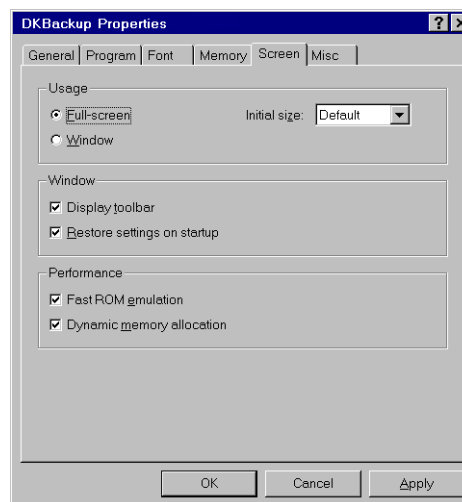
Window:

Display toolbar
Restore settings on startup

Performance:

Fast ROM emulation
Dynamic memory allocation

If you make changes, click on Apply.

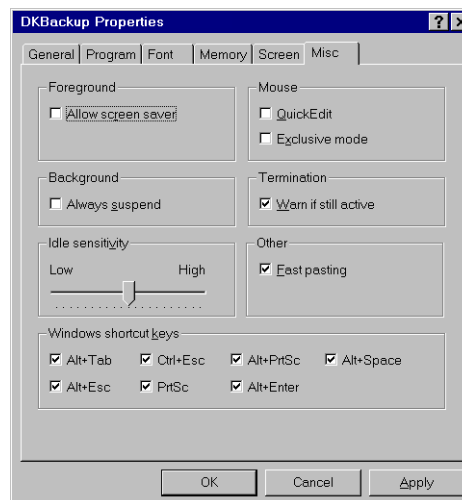


9. Select the Misc Tab screen (shown at right).
10. Only the items in the Termination, Other and Windows shortcut keys boxes should be selected.

Note It is best not to allow screen savers.

If you make changes, click on Apply.

11. Close the DKBackup Properties dialog box and return to Step 3 of “[Start-up DKBackup under Windows 3.11, 95, 98 or Windows NT 4.0](#)” on [Page 22](#).



Step 6: Connect to the Strata DK Telephone System

- To program or update a Strata DK, you must be connected to the Strata DK telephone system. For procedures on connecting your PC to the Strata DK, see [Appendix A – Connecting to Strata DK](#).

This chapter shows you how to log on and off DKAdmin/DKBackup, use the pull-down menus and select system options, respond to system and error messages, and describes the keyboard conventions used in the programs.

Before You Start

Before using DKAdmin/DKBackup, you must:

- ◆ Connect your personal computer to a Strata DK in order to send/receive data between the DKAdmin/DKBackup PC and a Strata DK (see [Appendix A – Connecting to Strata DK](#) for procedures).
- ◆ Properly install the DKAdmin/DKBackup hardware key (see [Chapter 2 – Installing DKAdmin](#) and [Chapter 3 – Installing DKBackup](#) for procedures).
- ◆ Correctly set your communications (see [Chapter 8 – Options Menu](#)).

Logging On

DKAdmin

► To log on to DKAdmin

1. After powering up your computer, at the C:\ prompt type **CD 280ADMIN** and press **Enter**.
2. From the C:\280ADMIN prompt, type **dkadmin** and press **Enter**. The Toshiba start-up page displays (shown right).
3. Type your User ID and press **Enter**.
4. Type your password and press **Enter**.



If you have entered your User ID and password correctly, the DKAdmin Main Menu displays (shown right).

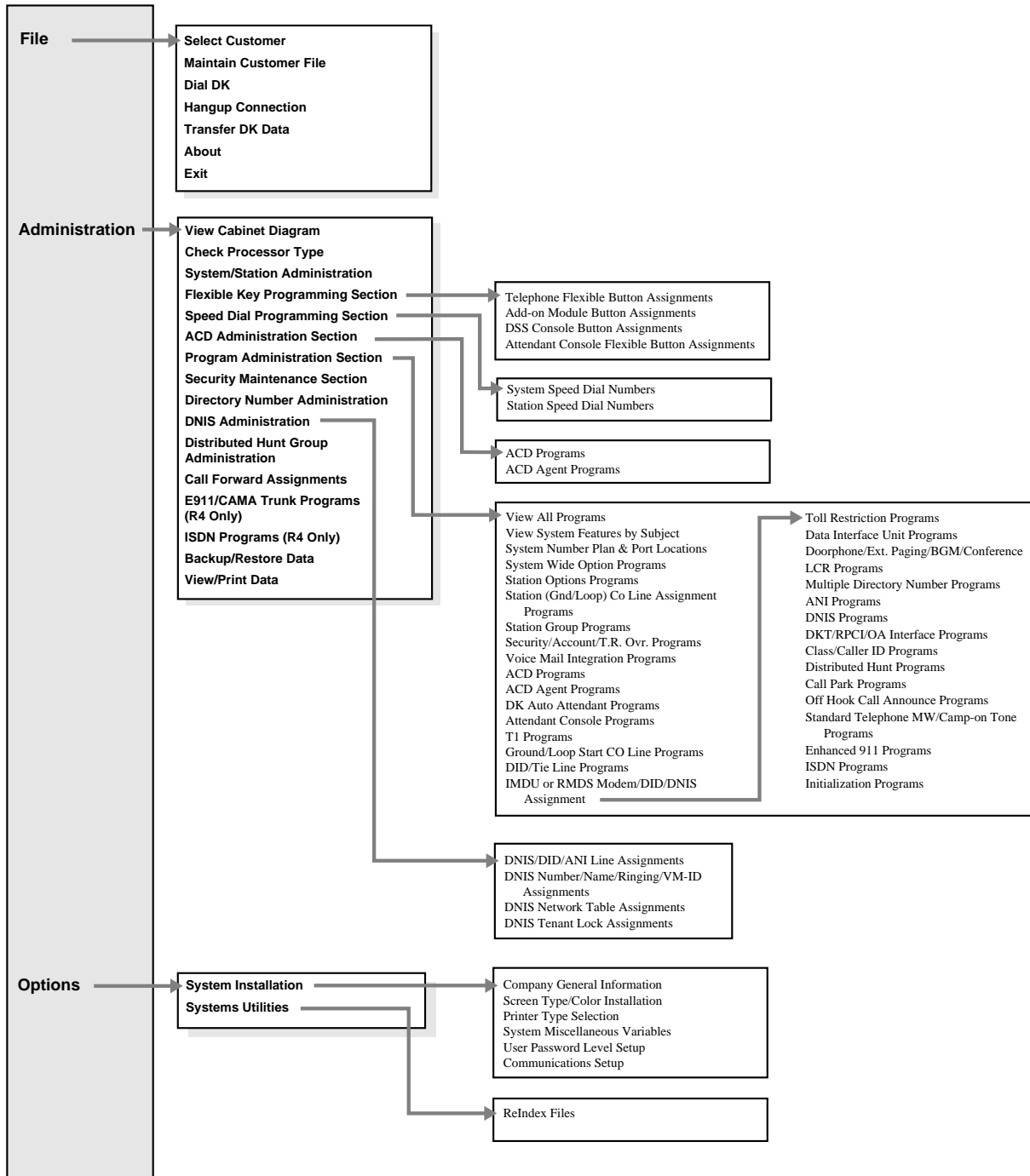
All DKAdmin activity originates from the DKAdmin Main Menu.

The three items across the DKAdmin Main Menu bar (i.e., File, Administration,

Options) enable you to perform the many functions shown in [Figure 5](#). Some items may not be available for selection, depending on your assigned User ID and password. The menus shown here depict DKAdmin Master password Level 9 options.



Important! *It is recommended to run “ReIndex Files” each time you start to use DKAdmin/DKBackup. If files are not indexed correctly you may encounter problems using some functions of DKAdmin/DKBackup.*



1089

Figure 4 DKAdmin Main Menu Options

DKBackup

► To log on to DKBackup

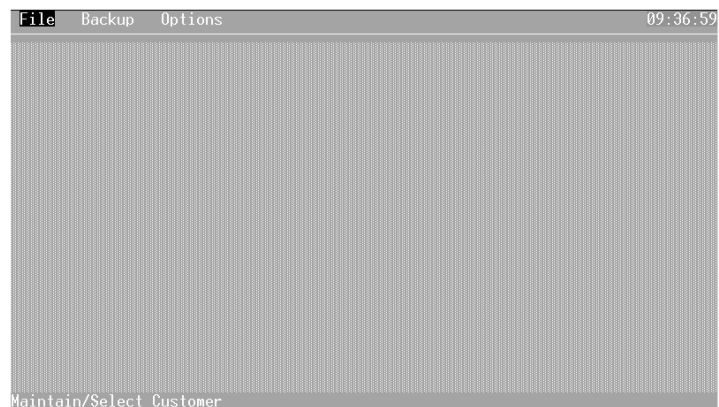
1. After powering up your computer, at the C:\ prompt type **CD 280BCKUP** and press **Enter**.
2. From the C:\280BCKUP prompt, type **dkbackup** and press **Enter**. The Toshiba start-up page displays (shown right).
3. Type your User ID and press **Enter**.
4. Type your password and press **Enter**.



If you have entered your User ID and password correctly, the DKBackup Main Menu displays (shown right).

All DKBackup activity originates from the DKBackup Main Menu.

The three items across the DKBackup Main Menu bar (i.e., File, Backup, Options) enable you to perform the many functions shown in [Figure 5](#). Some items may not be available for selection, depending on your assigned User ID and password. The menus shown here depict DKBackup Master password Level 9 options.



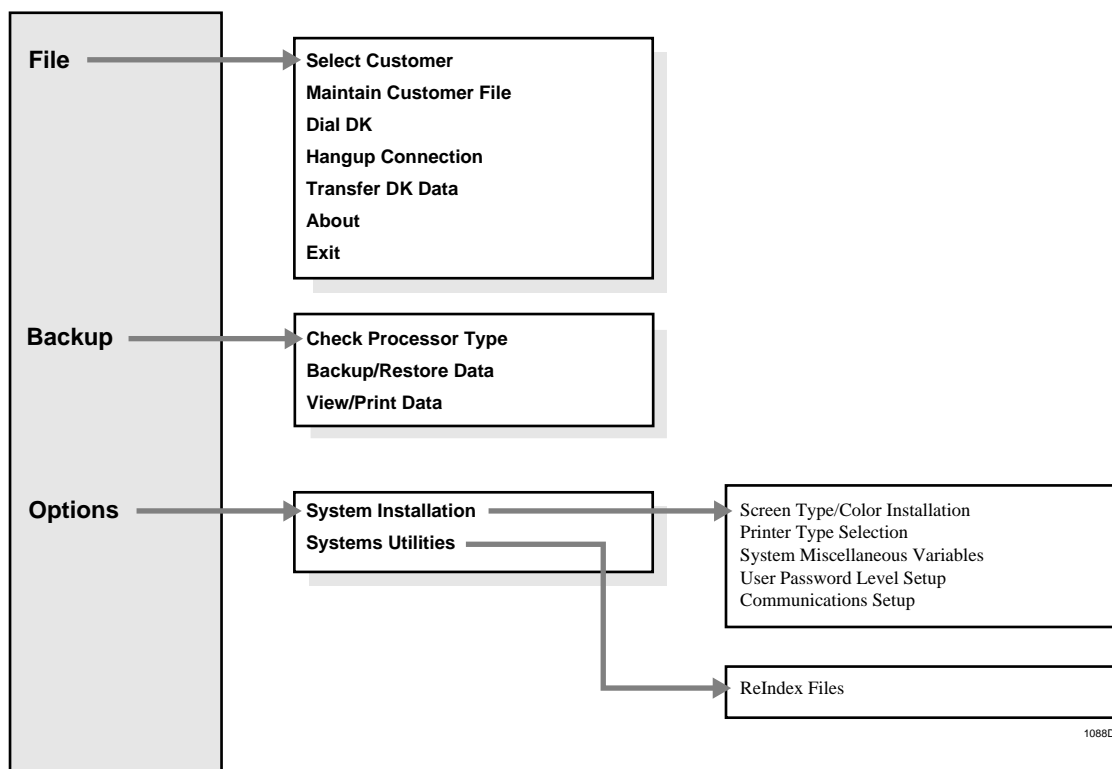


Figure 5 DKBackup Main Menu Options

Keyboard Conventions

While working within DKAdmin/DKBackup, you can use the following keys to:

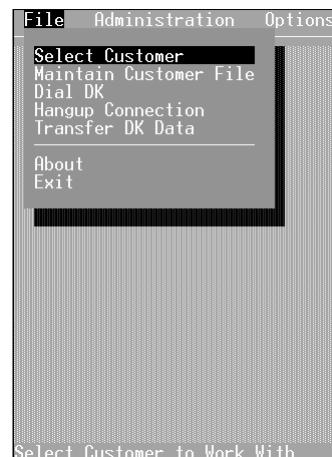
Esc	Escapes from the current screen/menu and returns you to the previous screen/menu.
Page Up/Page Down	Moves to the previous/next questions screen.
Enter	Executes a screen selection/transaction.
Left/Right Arrow	Moves the selection highlighter left/right.
Up/down Arrow	Moves the selection highlighter up/down.
Spacebar	Depending on the screen, toggles between selections for the field or selects the list item and places a check mark next to it.

Using the Pull-Down Menus

You can perform all basic operations from the Main Menu's menu bar. When you select an item in the menu bar, a "pull-down" options menu appears, listing all the functions which you can perform (shown right).

► To use a pull-down menu

1. Use the left/right arrow keys to highlight the item and press **Enter**. Or, if you prefer, you can type the highlighted letter for the item you wish to "pull down":
F = File
B = Backup
O = Options
2. Once in a pull-down menu, you can use the same keyboard conventions you do to make a menu selection (use the up/down arrow keys or type the highlighted letter).
3. To close a menu, press **Esc**.



System Messages

At the bottom of each DKAdmin/DKBackup screen is a message line (see [Page 5](#)). Pay particular attention to this line as you work, since it displays important system information and processing options for the application or screen in which you are currently working.

Error Messages

If you make an incorrect entry while working in DKAdmin/DKBackup, you are sometimes prompted with an error message. This tells you why DKAdmin/DKBackup cannot process the attempted transaction. By reviewing the error message, you will be able to determine your error and successfully execute the desired transaction.

On-Line Help

DKAdmin/DKBackup offers you on-line help for many system operations. Should you have a question, press **F1** (**F1-Help** must appear at the bottom of the screen to be active) to display an explanation of the operation in which you are currently working. To close the Help window, press **Esc**.

Logging Off

► **To exit the DKAdmin/DKBackup system**

1. Return to the DKAdmin/DKBackup Main Menu by pressing **Esc** until the Main Menu displays.
2. Highlight the File Menu option and press **Enter**, or type **f**.
3. Highlight Exit and press **Enter**, or type **x**.

DKAdmin/DKBackup shuts down and returns the screen to a DOS prompt.

CAUTION! Always exit the program properly before turning off your DKAdmin/DKBackup PC. Turning off your PC before exiting the program, creates an indexing problem and produces run-time errors. (See [Page 7](#) for information on correcting run-time errors.)

This chapter gives you step-by-step instructions on using the options available on the File Menu. The options are:

- ♦ Select Customer
- ♦ Maintain Customer File
- ♦ Dial DK
- ♦ Hangup Connection
- ♦ Transfer DK Data
- ♦ About
- ♦ Exit

Quick-start Procedures for Using DKAdmin

For an Existing Customer

► To quickly use DKAdmin with a previously programmed Strata DK

1. Create a new customer record, using the Maintain Customer File option from the File Menu.
2. Select the newly created customer, using the Select Customer option from the File Menu.
3. If you will be Uploading/Downloading data between the DKAdmin PC and a Strata DK and you must dial via modem or Toshiba DIU to connect, use the Dial DK option to select and dial the customer; or, connect the DKAdmin PC directly to the DK system (see [Appendix A – Connecting to Strata DK](#)).
4. When the DKAdmin PC first connects to the Strata DK, verify that the selected customer processor is the same type as the one installed in the DK system. Highlight the Check Processor Type option under the Administration Menu and press **Enter**. Enter the applicable DK code. The Strata DK sends the processor type and version to the DKAdmin PC.
5. Back up (download) the customer's original data using the Backup option (**F2**) and (**F3**) from the Backup/Restore Data option under the Administration Menu.
6. Update the customer DK data, using options from the Administration Menu.
7. Restore (upload) the new data to the customer's Strata DK, using the Restore option (**F2**) and (**F4**) from the Backup/Restore Data option under the Administration Menu.

For a New Customer

► To quickly use DKAdmin with a new installation of Strata DK

1. Create a new customer record, using the Maintain Customer File option from the File Menu.
2. Select the newly created customer, using the Select Customer option from the File Menu.
3. Program the customer DK data, using the ACD Administration Section and Program Administration Section options from the Administration Menu.
4. Dial the Strata DK, using the Dial DK option from the File Menu, or connect the DKAdmin PC directly to the Strata DK (see [Appendix A – Connecting to Strata DK](#)).
5. When the DKAdmin PC first connects to the Strata DK, verify that the selected customer processor is the same type installed in the DK system. Highlight the Check Processor Type option in the Administration Menu and press **Enter**. Enter the applicable DK code. The Strata DK sends the processor type and version to the DKAdmin PC.
6. Initialize the Strata DK processor PCB by running Program 91-9 from the Initialization Programs option located in the Program Administration Menu (this option will interrupt service and drop all calls).

Note If initializing from a remote location, the DKAdmin PC must be connected to the Strata DK via modems as shown in [Figure 18](#) on [Page 132](#) only.

7. Restore (upload) the new data to the customer's Strata DK, using the Restore option (**F2**) and (**F4**) from the Backup/Restore Data option in the Administration Menu.

Maintain Customer File

Using this option, you can insert a new customer, review and update a customer's information, delete a customer or upgrade a customer's processor.

Note In the procedures for upgrading a customer's processor, the word "original" describes the existing processor and "new" describes the upgraded processor.

► To access the Maintain Customer File option

1. Type **m** and the Customer List displays (shown right).

The list shows each customer's ID, name, assigned directory, and the last date the customer's Strata DK data was downloaded and uploaded. If upgrading a processor, you should always create a new customer, selecting the "original" processor (e.g., RCTUA,B, C/D, E/F) and the original software release (1, 2, 3 or 4).

Customer List				
Id No.	Customer	Directory	Last Download	Last Upload
▶BANK1	Bank1	BANK1	/ /	/ /
BANK2	Bank2	BANK2	/ /	/ /
BANK3	Bank3	BANK3	/ /	/ /
BANK4	Bank4	BANK4	/ /	/ /

FIND: ▲▼

F2-Restore Old Data
F1-Help Enter-Modify Record Ins-Insert Record Del-Delete Record Esc-Exit
Customer's Id Number

► To create a customer record or upgrade a customer's processor

1. Press **Ins** to insert a record. A blank Customer File Maintenance Screen displays (shown right).
2. See [Table 2](#) for a description of the fields on this screen. Press **Enter** after each entry.

The screenshot shows a terminal window titled "Customer File Maintenance". The fields and their values are as follows:

```

Customer Id.....
Customer Name.....
Address.....
Address.....
City, State, Zip.....
Country Code.....
Contact Name.....
Country Ph. Code.....
Phone No., Ext.....
DIU String..... AT2=43 ATDD
Modem Dial String: ATDT
After Connect.....

DK Model, Release, DK , RCTU-CD, R3
Data Directory.....
  
```

At the bottom of the window, there are two status indicators: "F1-Help" on the left and "Esc-Exit" on the right.

Table 2 Customer File Maintenance Screen Fields

Field	Description
Customer ID	Enter a unique customer ID, using up to eight alphanumeric characters. If you attempt to enter an existing customer ID code, the system displays an error message: Record exists.
Customer Name	Enter the full customer name.
Address	Enter the customer's street address.
Address	The second address line may be used to enter a suite or PO number.
City, State, Zip	Enter the customer's city, state and ZIP code.
Country Code	Enter the three character country code.
Contact Name	Enter a contact name, as applicable.
Country Ph. Code	Enter the three character foreign country telephone code.
Phone No., Ext	Enter the customer telephone number (of the customer contact), including area code, and extension. This telephone number does not automatically dial out when using the Dial DK option and is only used as a reference for the customer telephone number.
DIU String	The first part of the DIU string is automatically entered. You must enter the extension number (XXXX) of the DIU (modem pool or TTY PDIU-DS) after the ATDD option. This string is used when DIUs are used to connect DKAdmin/ DKBackup to the DK TTY port (see Figure 18 on Page 132 and Figure 20 on Page 135). The DIU String is sent to the DIU when pressing F2 or F3 from the Custom List screen of the Dial DK option.
Modem Dial String	Enter the complete modem string number when modems are used to connect to: an external modem connected to the TTY port, or the RMDS or IMDU built-in modems (see Figures 18 ~ 22 on Pages 132 ~ 139). This string is sent when using (F3)–DID/DIU/modem, (F4)–modem initial + modem dial string, or (F5)–modem dial string only .

Table 2 Customer File Maintenance Screen Fields (continued)

Field	Description
<p>After Connect</p>	<p>Enter the After Connect String when calling into a Strata DK modem pool (see Figure 20 on Page 135). It is recommended that you enter AT~~~ATDDYYY as the After Connect string (where YYY is the extension number of the PDIU-DS connected to the Strata DK TTY port).</p> <p>Notes</p> <ul style="list-style-type: none"> • If you are not using the modem pool function, the DK security code can be set on the After Connect line in each Customer File setup so it will be sent automatically to the Strata DK after connecting the DKAdmin/DKBackup PC to the Strata DK remotely via modems. Setting the DK security code in the After Connect String is optional. • In some cases, when connecting to older Release 1 processors or during heavy traffic conditions, the After Connect string may be sent and not recognized by the Strata DK. If this should occur, do not enter the DK security code in the After Connect string.
<p>DK Model, Release</p>	<p>Press Enter and the DK Model, Release dialog box appears. Highlight the appropriate processor type and software release number and press Enter.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <pre> DK14, WMAU, R1 DK16e, TMAU, R1 DK40, TMAU, R1 DK, RCTU-A, R1/R2 DK, RCTU-A, R3.1 DK, RCTU-A, R4 DK, RCTU-B, R1/R2 DK, RCTU-B, R3 DK, RCTU-B, R4 DK, RCTU-CD, R1/R2 DK, RCTU-CD, R3 DK, RCTU-CD, R4 DK, RCTU-EF, R3 DK, RCTU-EF, R4 </pre> </div> <p>Important!</p> <ul style="list-style-type: none"> • <i>For proper operation, be sure you select the appropriate software release.</i> • <i>If creating a new customer to upgrade a processor, select the current release level (i.e., if upgrading from RCTUB2, select Release 2).</i> • <i>To upgrade a Release 1 or Release 2 processor to Release 3 or Release 3.10, select Release 1 or 2; the upgrade process converts this line to Release 3.</i> • <i>To upgrade Release 3 to Release 3.10 processors, select Release 3.</i>
<p>Data Directory</p>	<p>The customer directory automatically defaults to the assigned customer ID. You may change the directory as desired. This is the directory in which all customer data is stored on the DKAdmin/DKBackup PC disk drive. DKAdmin/DKBackup automatically adds the ".DK" extension on the end of the directory.</p>

Table 2 Customer File Maintenance Screen Fields (continued)

Field	Description
280BCKUP 1.0 Conversion Directory	If you chose "Upgrade Installation Only" when installing the DKAdmin/DKBackup program, this field appears on your screen. It is no longer supported by the programs and should not be used.

Note See [Appendix A – Connecting to Strata DK](#) for DIU, modem, and After Connect dial settings.

- When you have finished, press **Enter** to scroll to the bottom of the screen. Press **Enter** again to save the information. DKAdmin/DKBackup creates the necessary default DK files for this processor type and customer. When complete, the new customer has been added alphabetically by the Customer ID to the customer list and the DKAdmin/DKBackup Main Menu is displayed.

Note If upgrading a processor, select the original processor from which you are upgrading. For example, if you are upgrading from RCTUB to RCTU C/D, select RCTUB.

➤ To modify a customer record

- Highlight a customer, press **Enter** and the Customer File Maintenance screen displays.
- Use the up/down arrow keys to highlight a field and update the information.
- When you have changed the information, press **Enter** to scroll to the bottom of the screen. Press **Enter** again to save the information or **Esc** to exit without saving your changes.

➤ To delete a customer record

- Highlight a customer, and press **Del**. A Delete Record confirmation window appears on the screen.
- Highlight **Yes**, press **Enter**, and the customer is deleted from the Customer List.
- Press **Esc** to close the Customer List screen and return to the DKAdmin/DKBackup Main Menu.

Select Customer

Important! Before you can use any of the options in the Backup Menu, you must first select a customer. If you attempt to select an option from the menu without first selecting a customer, the following message displays: **Please select a customer first!**

➤ To select a customer

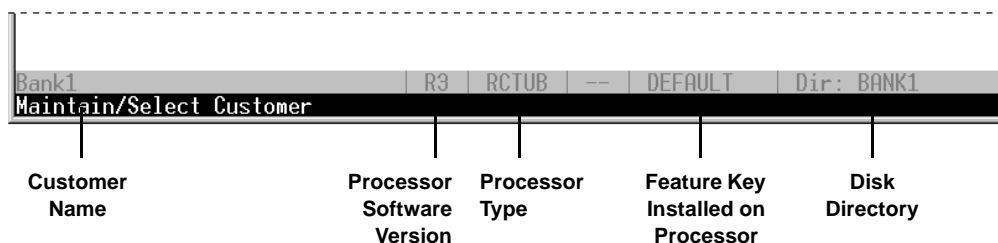
- Type **F** and the Select Customer option is highlighted.

Important! If you are uploading/downloading data between the DKAdmin/DKBackup PC and a Strata DK and you must dial via modem or Toshiba DIU to connect, use the Dial DK option to select and dial the customer. If the PC is connected directly to the Strata DK, use the Select Customer option (not the Dial DK option) to select the customer (see [Appendix A – Connecting to Strata DK](#)).

2. Press **Enter** and the Customer List displays.
3. Highlight the desired customer, and press **Enter**. The DKAdmin/DKBackup Main Menu displays.

Note If you have multiple customers, you can use the Find function to move quickly to another customer by typing the first letter of the Customer ID number. The program highlights the first customer which matches your entry. Press **Enter** to select the highlighted customer or re-enter.

After selecting a customer, the bottom of the DKAdmin/DKBackup Main Menu displays a box along the bottom of the screen. This box displays important information about the customer, including the customer name, processor type, processor software version level, feature key installed on the processor, and the disk directory (see [Figure 6](#)).



1085DK

Figure 6 On-screen Customer Information

Notes

- If the new customer is selected, the default database for the customer's processor is loaded into DKAdmin/DKBackup.
- Software version Release 3 applies to Release 3 and Release 3.1 processors.

You now may use the options in the Backup Menu to check the DK Processor or Backup/Restore Data.

Dial DK

The DKAdmin/DKBackup to Strata DK communications link can be made via modems, Toshiba PDUIs or RPCIs, using the DKAdmin/DKBackup dialing strings (DIU, modem, and/or After Connect).

Dialing strings are not necessary if the DKAdmin/DKBackup PC is connected directly to the Strata DK TTY Port (see [Figure 16](#) on [Page 130](#)). Dialing Strings are set using the Maintain Customer or Dial DK menus. DIU and Modem Initialization Strings are set from the Options/System Installation/Communications Setup. (See [Appendix A – Connecting to Strata DK](#) to establish communications between the Strata DK and the DKAdmin/DKBackup PC.)

DKAdmin/DKBackup cannot be used to send or receive customer database information until a physical communication path has been established between the Strata DK and the DKAdmin/DKBackup PC.

Important!

- *In order for the DKAdmin/DKBackup Backup/Restore Data option to operate if you are using an IMDU or RMDS modem, Program 77-1, LED 14 must be "ON." (See Prg 77-1 LED 15 for RMDS bps rate in the Strata DK Programming Manual.)*
- *The DKAdmin/DKBackup hardware key (green or red) must be installed whenever using the DKAdmin/DKBackup program (see the figure in Substep 6 on Page 2-4).*
- *The modem/TTY port must be enabled (see Program 03 codes 41 and 49 and Program 76).*

➤ To access the option

1. Type **f** and the File Menu displays.
2. Type **d** and the Customer List displays.

➤ To dial a Strata DK to upload/download data

1. After selecting a customer from the Dial DK Customer List, press one of the following function keys to establish communications:
 - ✦ **F2 DIU/DIU:** Sends the DIU Initialization String (in Communications Setup) and the DIU String (in the Customer file) to the DKAdmin/DKBackup COM port (see [Figure 17](#) on [Page 131](#)).
 - ✦ **F3 DIU/DIU Modem:** Sends the DIU Initialization String, the DIU String, the Modem Initialization String, and the Modem String to the DKAdmin/DKBackup PC COM port in the order described here (see [Figure 21](#) on [Page 137](#) and [Figure 22](#) on [Page 139](#)).
 - ✦ **F4 Modem Initial + Modem Dial String:** Sends both the Modem Initialization String from the Communications Setup Menu and the Modem String from the Customer File to the DKAdmin/DKBackup PC modem (see [Figures 18 ~ 20](#) on [Pages 132 ~ 135](#)).
 - ✦ **F5 Modem Dial String only:** Switches from a voice call that is transferred to the DK maintenance modem. The Modem String from the customer file is sent to the DKAdmin/DKBackup PC modem (see [Figure 19](#) on [Page 133](#)). You can also use **F5** to dial the remote DK modem from the DKAdmin/DKBackup PC modem without initializing the DKAdmin/DKBackup PC modem.

DKAdmin/DKBackup establishes communications with the Strata DK per the procedures in Appendix A.

2. When complete, the DKAdmin/DKBackup Main Menu displays again. You may now download or upload DK data using the options in the Backup Menu (see ["Upgrade" on Page 107](#)).

➤ To update any of the available communication dialing strings

1. Highlight the customer from the Customer List screen, and press **Enter**.

Note If you have multiple customers, you can use the Find function to move quickly to another customer by typing the first letter of the Customer ID number. The program highlights the first customer which matches your entry. Press **Enter** to select the highlighted customer or re-enter.

2. Highlight the field, enter the new information and press **Enter**.

- Pressing **Enter** from the last field on the screen, saves the new information and returns you to the Customer List screen. Pressing **Esc**, exits the screen without saving the changes and returns you to the Customer List screen.

Hangup Connection

► To close the DK communications link

- Type **f** and the File Menu displays.
- Type **h** and DKAdmin/DKBackup sends **+++ ATZ H** from the DKAdmin/DKBackup PC COM port, closing the communication link to the DK.

Note The escape sequence of the modem or DIU connected to the DKAdmin/DKBackup PC must be set as **+++** using the modem command **ATS2=43**.

Transfer DK Data

► To transfer DK data to a floppy disk to/from the DKAdmin/DKBackup PC hard drive database

- From the File Menu, type **t** to display the Transfer DK Program Data screen (shown right).
- Enter the drive/directory path you wish to transfer the data from (for example, **C:\280ADMIN\XXX** or **C:\280BCKUP\XXX**) and press **Enter**. (To switch the drive and directory, press **F2**.)



Note XXX = The customer directory. It is not necessary to add the.DK extension onto the customer directory when transferring data or creating customers from the Maintain Customer option.

- Enter the drive/directory you wish to transfer data to (for example: **A:\XXX**).
- Press **Enter** and follow the screen prompts to transfer the data.
- Press **Esc** to close the Transfer DK Program Data dialog box.

About

► To access the option

- Type **f** and the File Menu displays.
- Type **a** and a pop-up dialog box displays, listing the name of the program, the release number and date, and the copyright date(s).

Exit

For information on exiting DKAdmin/DKBackup, see [“Logging Off” on Page 33](#).

Note The Administration Menu is only available in the DKAdmin program. The Check Processor Type, Backup/Restore Data, and View/Print Data appear in both the DKAdmin Administration Menu and the DKBackup Backup Menu. These functions are identical (e.g., screens, operations, commands, etc.) whether you use DKAdmin or DKBackup.

This chapter gives you step-by-step instructions on using the options available on the Administration Menu. The options are:

- ♦ View Cabinet Diagram
- ♦ Check Processor Type (see [Page 100](#))
- ♦ System/Station Administration
- ♦ Flexible Key Programming Section
- ♦ Speed Dial Programming Section
- ♦ ACD Administration Section
- ♦ Program Administration Section
- ♦ Security Maintenance Section
- ♦ Directory Number Administration
- ♦ DNIS Administration
- ♦ Distributed Hunt Group Administration
- ♦ Call Forward Assignments
- ♦ E911/CAMA Trunk Programs (R4 Only)
- ♦ ISDN Programs (R4 Only)
- ♦ Backup/Restore Data (see [Page 99](#))
- ♦ View/Print Data (see [Page 115](#))

Important! *In order to use any of the options in the Administration Menu, you must have first selected a customer in the File Menu, Select Customer option.*

View Cabinet Diagram

The base and expansion cabinet diagram displays the current Printed Circuit Board (PCB) configuration for the customer's Strata DK system. The diagram varies based on the Strata DK model and processor listed in the Customer File Maintenance screen.

► To view cabinet diagram

1. Select a customer using the Select Customer option in the File Menu.
2. From the Administration Menu/Backup Menu, press **g** or **Enter** to display the PCB Placement per Program 03 screen for the selected customer (example shown at right).
3. Use the left/right arrow, CTRL, Home, End, Page Up and Page Down keys to scroll the screen.

XYZ Company PCB Placement per Program 03								
CABINET 1	R11	RCTU	S11	S12	S13	S14	S15	S16
PCB Type	RCTUC3	RCTUD3	PDKU	-	-	-	-	-
Port Nos.	-	-	000~007	-	-	-	-	-
Line Nos.	-	-	-	-	-	-	-	-
Option	-	-	-	-	-	-	-	-
CABINET 2	S21	S22	S23	S24	S25	S26	S27	S28
PCB Type	-	-	-	-	-	-	████████	████████
Port Nos.	-	-	-	-	-	-	████████	████████
Line Nos.	-	-	-	-	-	-	████████	████████

← Left CTRL+ Page Left ↑ Up PGUP HOME Beg Line CTRL+PGUP Rpt Top
 → Right CTRL+ Page Right ↓ Down PGDN END End Line CTRL+PGDN Rpt End

Check Processor Type

For the Check Processor Type option, see [“Check Processor Type”](#) on [Page 100](#).

System/Station Administration

The System/Station Administration option in the Administration Menu enables you to program or update system ports and stations. Depending on your password level, you can have complete control over assignments of such items as:

- ♦ Logical ports assignments
- ♦ Telephone locations
- ♦ PDN/Intercom numbers
- ♦ DID numbers
- ♦ LCD user names
- ♦ Voice mail forward ID codes
- ♦ Voice mail message waiting codes
- ♦ System speed dials
- ♦ System messages
- ♦ Station attributes (40 individual telephone options)

While you can assign these attributes to individual ports, station attributes cannot be copied from one port to another, or set for a range of ports from this menu. However, range programming for ports can be completed on a program level using the Program Administration option.

Some features (Intercom/DID numbers and VMID codes) enable you to set a range of values (default values) which can be applied to all ports, making programming quick and easy.

Note It is recommended, if you are updating station attributes and have not performed a system backup recently, that you do so before updating system information. For information, see [Chapter 7 – Backup Menu \(DKBackup\)](#).

► **To access the option**

1. Type **a** and the Administration Menu displays (shown right).
2. Type **s** and the System/ Station Administration screen displays.

The System/Station Administration screen displays the entire system as it currently exists. For each physical port, you can:

C S N	Phy. Port No.	PT	Telephone Location	Log. Port No.	Int/ PDN No.	DID No.	Telephone LCD User Name
11	000	DT		000	200	200	
11	001	DT		001	201	201	
11	002	DT		002	202	202	
11	003	DT		003	203	203	
11	004	DT		004	204	204	
11	005	DT		005	205	205	
11	006	DT		006	206	206	
11	007	DT		007	207	207	
	008	VA		008	208	208	
	009	VA		009	209	209	
	010	VA		010	210	210	
	011	VA		011	211	211	
	012	VA		012	212	212	

F1-Help F3-Print F7-System Speed Dial F8-System Messages
F9-Save & Upload F10-Save Programs Ctrl Enter-Select Port/Name Esc-Exit
Card Slot Number

- ♦ Enter the location (room or office name) of each telephone or device connected to the Strata DK.
- ♦ Transfer telephone attributes to another telephone by changing the logical port number.
- ♦ Enter a PDN/Intercom number.
- ♦ Enter a DID number.
- ♦ Enter a user name.
- ♦ Enter a voice mail call forward ID code.
- Enter a voice mail message waiting code.
- Assign speed dial numbers.
- Assign system messages.

Important! *The DKAdmin PC must be connected to the Strata DK to upload any changes to this data (see [Appendix A – Connecting to Strata DK](#) for procedures on connecting the DKAdmin PC to a Strata DK).*

You can also:

- ♦ Print the information for all system ports.
- ♦ Print the attributes for a particular port.
- ♦ Print the Strata DK cabinet configuration.

Programming/Updating System

➤ To program or update the entire system or an individual port

1. Highlight the Telephone Location field of the physical port with which you wish to work. Enter the physical telephone location (for example, main conference room, VP office, lunch room, etc.).
2. Highlight the Log. Port No. field of the physical port.

Note Logical port number assignments are the same as the physical port unless you wish to relocate (swap) telephone attributes.

This enables you to utilize the telephone attributes (voice mail, speed numbers, messages, etc.) of a particular telephone at a different location. For example, you might wish to transfer your office telephone attributes to a conference room.

3. Type the logical (Log.) port number of the telephone containing the attributes you wish to transfer and press **Enter**. The ports relocate after you press **F9** to save and upload.

Important! Ports only relocate to the same Port Type (PT).

4. Highlight the Int/PDN No. field. This field enables you to change a telephone's intercom number. If you attempt to enter a number already assigned to another telephone, an error message displays: **Conflict found in Int./DN numbering**

Note You cannot duplicate DNs/intercom numbers.

...or

if you would like to change the DNs/intercom numbers on all of the ports at one time, press **F5**. A message displays.

Please review Program 05 either before or after making your changes as conflicts may arise from inserting Int./DN numbers which start with the same digit as the access codes in Program 05.

In a default DK setting, digits 8 and 9 are used in Program 05 and therefore should not be used as the first digit of Int./DN numbers.

Press any key to continue. A Change dialog box displays.

PDN Port Ref. From 000 to 031, Starting DN:_____.
Blank entry does not change value, "0" indicates blank.

Enter the Starting Int./DN Number you wish to assign and press **Enter**. A pop-up screen displays: **This operation will modify DN numbers. Go ahead?**

Press **Enter** to continue or highlight **No** and press **Enter** to discontinue the procedure. The DNs/intercom numbers for all of the ports are changed if you enter **Yes**.

5. Highlight the DID No. field. This field enables you to enter a dial-in-direct extension number. If you attempt to enter a number already assigned to another telephone, an error message displays: **Conflict found in DID Extension numbering**

Note You cannot duplicate DID numbers.

...or

if you would like to change DID numbers for a range of ports, press **F5**. A Change dialog box displays similar to the one shown above.

Type the Starting DID Number you wish to assign and press **Enter**. A pop-up screen asks you to confirm the change. The DID numbers for the range of ports you specified are changed if you enter **Yes**.

- Highlight the Telephone LCD User Name field. Enter the name of the user assigned this physical port

...or

if you prefer, you may use DNs/intercom numbers in this field rather than names. To insert DNs/intercom numbers into this field for all ports, press **F5**.

- Highlight the VM MW ID Code field. This field enables you to assign a voice mail call pick-up ID code (enabling users to pick-up their voice mail messages)

...or

you may set a starting default ID prefix for all ports by pressing **F5**. A Change dialog box displays. Type the voice mail ID prefix number (example: 92) you wish to begin the sequence and press **Enter**. A confirmation message displays: **All Ports Will Be Reset To Default Values. Go Ahead?**

Press **Enter** to assign the VM MW ID code. The prefix is added to each mailbox (DN/Intercom) number. If you change your mind, and wish to cancel the operation, highlight **No** and press **Enter**.

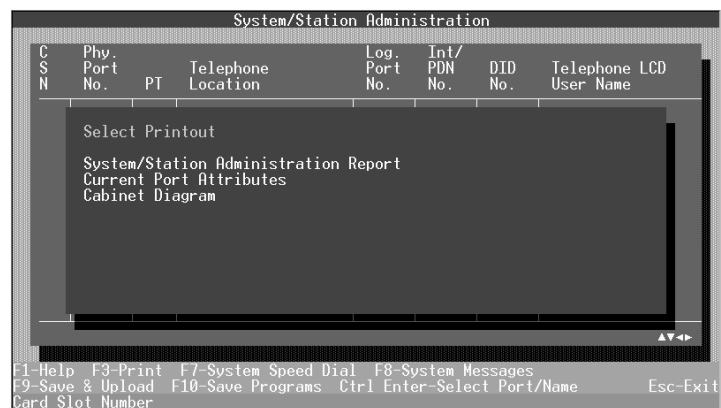
- Press **F9** to save and upload your changes to the Strata DK, or **F10** to save the data to the customer database file.

Printing Port/Station Information (F3)

► To print port and station information

- Press **F3**. The Select Printout screen displays (shown right).
- Highlight the desired report and press **Enter**. The Printer Selection screen displays (shown right).

Note The current port is the port that is highlighted on the System/Station Administration screen.



- Press **Enter** to print the selected information.

For information on selecting printers, see [Chapter 8 – Options Menu](#). See [Figure 8](#) for a System/Station Administration printout example.

System Speed Dial Number (F7)

► To set or change available system speed dial numbers

Note You may assign system speed dial numbers to individual ports for up to 800 system speed dial numbers for the RCTUE/F processor, 100 for RCTUBA/BB, RCTUC/D processors, and 40 for TMAU and RCTUA processors.

1. From the System/Station Administration Menu, press **F7**. The System Speed Dial Numbers screen displays (shown right).

System Speed Dial Bin Number	System Speed Dial No.	System Speed Dial Memo
060		
061		
062		
063		
064		
065		
066		
067		
068		
069		
070		
071		
072		
073		
074		

2. Highlight the System Speed Dial No. field. Enter the speed dial telephone number, including area code (example: **7145559696**). Do not enter dashes.
3. Highlight the System Speed Dial Memo field and enter a description of the speed dial number (up to 12 characters). This memo displays on the telephones LCD when the Bin Number is selected by an LCD telephone, using the MODE 8XXX function (where XXX is the speed dial bin number).
4. Press **F10** to save the speed dial assignments and return to the System/Station Administration screen.

System LCD Messages (F8)

► To set or change available system LCD messages

Note You may create up to 40 system messages which may be used by all LCD telephone ports. Each message may contain two lines using up to 32 characters.

1. From the System/Station Administration Screen, press **F8**. The System Messages screen displays (shown right).
2. Highlight the Message Line 1 field and type the message you wish displayed on the first message line of the LCD.
3. Highlight the Message Line 2 field and type the message you wish displayed on the second message line of the LCD.
4. Press **F10** to save the message assignments and return to the Station Administration screen.



Station Port Attributes (Ctrl Enter)

► To program or update individual station port attributes

1. On the System/Station Administration Screen, highlight the port you wish to program and press **Ctrl+Enter**. The Port Attributes screen displays (shown right).

This screen lists all the features available for an individual telephone.

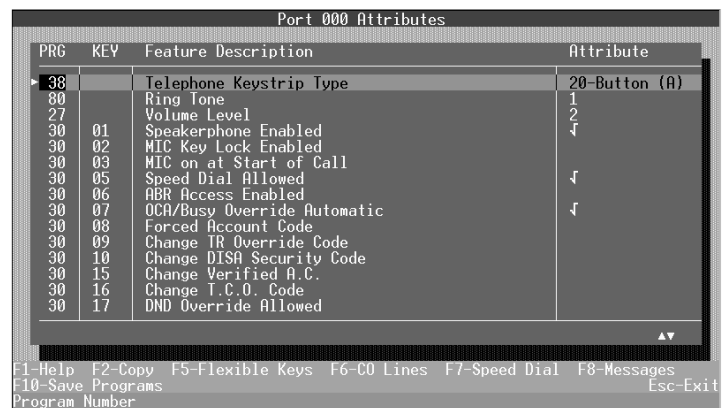
Additionally, you can view CO Line

information, or assign personal Speed Dial and LCD Messages to this telephone. The definitions of each program item are listed in [Table 3 on Page 50](#).

2. Highlight the Attribute field.

Note Pay close attention to the message bar at the bottom of the screen. It will tell you what options are available for each program.

3. Depending on the attribute you can either:



- ✦ Press the spacebar to toggle between available options, or enable (indicated by a check mark)/disable (indicated by a blank) the attribute.
 - ✦ Enter a value.
4. Press **F10** to save the changed data to the customer database file.

Note After saving the data, press **F9** to update the Strata DK with the changes. The DKAdmin PC must be connected to the Strata DK to upload changes to port attributes (see [Appendix A – Connecting to Strata DK](#)).

Table 3 Attribute Definitions

Attribute	Description
Telephone Keystrip Type	Four default telephone button arrangements are provided. Changing the keystrip type writes/overwrites existing button assignments.
Ring Tone	Distinctive system ringing sends a different ring tone for CO (loop, DID, or ground) line ringing than that for intercom, tie ringing. In addition, CO line (loop or ground) ringing can be different from one telephone to another.
Volume Level	This program sets the initial off-hook volume level for each digital telephone handset and/or headset.
Speakerphone Enabled	Any electronic or digital full speakerphone operation can be disabled by assignment with this program. If disabled, a speakerphone will act as a handsfree electronic or digital telephone. Initialized data enables all speakerphones.
MIC Key Lock Enabled	An electronic or digital telephone microphone can be turned on or off by using the Mic button. A button lock operation enables an alternate action Push On/Push Off of the Mic button.
MIC on at Start of Call	The microphone, as well as the MIC LED, can be selected to be on or off at the start of a call if the Push On/Push Off mode is chosen.
Call Pkup On=AC, Off=AC, GP & STA	If ON, a station or group of stations (Pickup Group) can pick up a call that is ringing another stations's [PDN] or [PhDN], a call placed on hold at another station and other types of calls.
Speed Dial Allowed	A station may be denied the use of Speed Dial (Station and System) with this program.
ABR Access Enabled	The ABR feature can be enabled or denied for each station. The system selects the last line in the originating line group each time ABR is initiated.
OCA/Busy Override Automatic	A busy digital or electronic telephone can receive a second voice communication on intercom via Handsfree Answerback if the OCA feature is installed. If a calling station does not have an automatic function, the user must dial an extra digit of 2 after hearing busy tone in order to gain access to OCA.
Forced Account Code	If this feature is selected, a station or Direct Inward System Access (DISA) CO line user using a line with a Forced Account requirement must enter an Account Code before the call can be completed.
Change TR Override Code	If selected for this feature, a station can change Toll Restriction (TR) override codes.
Change DISA Security Code	This enables a selected station to change the DISA security code.
SLT ANTI-Bounce	SLT Hookflash Anti-Bounce Guard (LED 12 ON) in Program 30 prevents false recalls due to hookflash bounce during SLT hang-up on outside calls.
Account Codes Verified	If the system is set for Verified Account Codes in Program 69, station users must enter specific codes when entering Forced or Voluntary Account Codes.

Table 3 Attribute Definitions (continued)

Attribute	Description
Change Verified A.C.	If selected for this feature, a station can change the Verified Account Codes established in Program 69.
Change T.C.O. Code	If selected for this feature, a station can change the Toll (Restriction) Class Override codes.
DND Override Allowed	If selected for this feature, a station can override other stations that are in the DND mode.
Executive Override Allowed	This program enables a station to break into and overhear an existing station conversation by dialing the digit 3 after the busy station number. A warning tone may be set optionally.
Private Override Allowed	Privacy Override enables a station to enter into and overhear an existing CO line conversation by pressing a common CO line button.
Page Group Assignments (A ~ D)	Digital and electronic telephones can be assigned to intercom page groups with this program. Each group can have as many as 120 stations. The RCTUC/RCTUD common control unit can support as many as eight groups, and the RCTUB and the RCTUA units can support up to four. Telephones can be a member of more than one group. Station users can access each group separately by dialing access codes.
Handsfree Disabled	It is possible to disable the intercom handsfree function on any digital or electronic telephone.
Handsfree No Warning	Normally, a one-second warning tone is sent to a handsfree digital or electronic telephone to inform its user that someone is calling and that they can be heard. If the warning tone is not desired, this assignment can disable it.
OCA Enabled (Receive)	A busy digital or electronic telephone can receive a second voice communication on intercom via Handsfree Answerback if the OCA feature is installed. If a calling station does not have the automatic function, the user must dial an extra digit of 2 after hearing busy tone in order to gain access to OCA.
All Call Page Allowed	Assigns the station to be included in the All Call Paging group. A maximum limit of 120 telephones (Toshiba digital or electronic) can be assigned to receive all call page.
BOV Tone (Off = 2 Beeps, On = Continuous)	If a digital or electronic telephone [DN] is busy and it receives a call on an idle [DN] or CO button from another station or an outside line, the telephone receives two muted-ring bursts three seconds apart or continuously repeating muted-ring bursts every three seconds on the idle [DN].
Pooled Line (On = No Flash if No Ring)	If on, incoming line calls in pooled line groups only flash on pooled line buttons.
HS-OCA WNT (Off = No WNT, On = S-OCA WNT)	Activates/deactivates 2-way voice path to Off-hook Call Announce caller. Available only on digital telephones.
OCA (Off = Speaker, On = Handset)	A busy digital or electronic telephone can receive a second voice communication over the telephone handset/headset or over the telephone speaker.
Block Exec/ Privacy Override	If selected, executive and privacy override to the selected station is not allowed.
Group Pickup Assignments (1 ~ 20)	Stations can be divided into as many as 20 pickup groups. Station users can pick up calls that are ringing any station within their group by dialing a single access code for a flexible button, and pick up calls that are ringing stations in other groups by dialing selected access codes. Stations can belong to more than one group.

Table 3 Attribute Definitions (continued)

Attribute	Description
Ringing Line Preference	A user, by going off-hook (or by pressing the Speaker button) may be automatically connected to the lowest line ringing in without having to press a CO line button or dial an access button.
Automatic Preference	Automatic Preference via handset off-hook or the Speaker button is the automatic connection to lines or the intercom under various conditions.
Hunt to Directory Number [DN]	If a station is busy, Station Hunting enables the ringing of an alternate station as defined by the assignments in this program. If the "hunt-to" station is busy, the system tries to ring the next "hunt-to" station, and so on.
Standard Telephone Camp-on Tone	Camp-on tone is sent when the busy standard telephone receives a transferred CO line call. Camp-on tone is two one-second bursts of 1209Hz/interrupted by 160ms bursts, three-seconds apart.
Hold/Park Recall Time	Each station can have a different time (from 011 to 160 seconds) from the point of placing a call on hold or park to the point of recall.
MW Lamp (Off = No Lamp, On= With Lamp)	Turns on and off a message waiting LED for EKT and flash button.
LCD Personal Messages (10-19) Allowed	This option enables LCD digital and electronic telephones to store up to ten personal messages and offers the option of entering alphanumeric memos for each of the LCD's Station Speed Dial numbers.
Hold Display Scroll (On=Enabled)	Disables/enables the Hold Display Scroll feature independently for each telephone. When more than one call is on hold on a telephone, the Hold Display Scroll feature enables a user to scroll through the held lines.
Key 13-TR/14-TR After Answer	Determines whether or not a toll restricted telephone user is allowed to dial additional digits after answering an incoming CO line call. Initialized data sets both LEDs off for all telephone users. Both LEDs should be turned on for Toll Restricted telephones that must answer incoming CO line calls and use speed dial buttons programmed to Hold or Park calls and access the page system automatically.
No CF/NA Handsfree	A Handsfree Answerback call to an idle station in the Call Forward No-Answer or Call Forward-Busy/No Answer mode does not forward if this feature is activated. This prevents the call from being forwarded 8 ~ 60 seconds after the called party has been talking in the handsfree talk mode (handset on-hook). Outside calls and busy intercom calls to the station continues to forward with this feature set.
DKT2000 Cont. DTMF Tones Off	2000-series Digital Telephones can send DTMF tones for as long as station users press their buttons (80 msec. minimum). This feature can be disabled with LED 17. If disabled, DTMF tones sent by these telephones are either 80 or 160 milliseconds, depending on the selection made with Program 10-1, LED 04 and Program 10-2, LED 06.
Automatic Hold	If this feature is allowed, station users with CO line buttons can place a CO line or intercom call on hold automatically by pressing another CO line button, or the DN/intercom button and dialing the number.
Busy Station Ringing/Busy Station Transfer	Busy Station Ringing (BSR) and Busy Station Transfer (BST) operate together to ensure that a busy station always receives transferred line calls along with LED and tone indications. The station or Voice mail (VM)/auto attendant device that transfers the call must be programmed with BST (LED 20 ON) and the one that receives it must have BSR (LED 19).
Fixed Call Forward to Station Port	Fixed Call Forwarding is different from other station Call Forwarding options. It is fixed in terms of the destination station number which is assigned in this program. The station user cannot change the Fixed Call Forward destination, unlike the other station Call Forwarding options.
Ring Transfer (Camp-on) Time	If a busy or ringing station does not answer a call sent to it via call transfer (CO line or over tie lines), the station originating the transfer is recalled after an amount of time determined with this program.

Table 3 Attribute Definitions (continued)

Attribute	Description
LCR Station Group	This option assigns the station to a particular LCR group routing scheme. The Least Cost Routing (LCR) feature enables the system to automatically route each outgoing voice call over common carriers and selected lines. The customer chooses these lines for the specific time of day, and for system users with varying priorities.
Station T.R. Digit Restriction	Digit Toll Restriction involves the system analyzing the area and office codes, and selectively enabling/disabling outgoing calls following the criteria defined in Area Code Tables and Office Code Tables. If T.R. Digit Restriction is enabled, a station cannot dial digits after dialing a telephone number.
Station T.R. Restriction Code	Each of the Toll Restriction classes established in Program 46 can be assigned a code with this program. If one of these codes is entered at a station, the station assumes the code's class for that call. When the call is complete, the station returns to its regular class assigned in Program 48.

Copy Range (F2)

► To copy a range of attributes

1. Press **F2** from the Port Attributes screen and a pop-up dialog box displays (shown right), warning you of the consequences of using this feature.
2. Press any key to continue and a pop-up box requesting port numbers displays: **Copy to Port(s): 000 to 079**.
3. Enter the port numbers in the from and to fields. A warning message appears if you enter a number out of range. A pop-up dialog box displays asking you to confirm the copy request.
4. Highlight **Yes** and press **Enter** to continue or press **Enter** to discontinue and return to the Port Attribute screen.
5. If you answered **Yes** in Step 4, another pop-up dialog box displays: **Do You Want to Copy PRG38/PRG39-Flexible Key Assignments Also?**
Highlight **Yes** and press **Enter** to copy to the PRG38/39 Key Assignments and range of ports. Press **Enter** to only copy to the range of ports.

If you decide to use this option, the system will copy all the attributes of this port to other port(s). The current port and any indicated ports will be saved to the files permanently.

If you decide not to continue, press Escape when asked for port numbers.

Flexible Button Assignments (F5)

► To view or change flexible button assignments

1. Press **F5** from the Port Attributes screen and the Port Flexible Key Assignments screen displays (shown right).

Port 000 Flexible Key Assignments	
Flexible Key Assignment	Flexible Key Assignment
CO Line 009	Speed Dial Select (* Key)
CO Line 008	Do Not Disturb
CO Line 007	CO Line 017
CO Line 006	CO Line 016
CO Line 005	CO Line 015
CO Line 004	CO Line 014
CO Line 003	CO Line 013
CO Line 002	CO Line 012
CO Line 001	CO Line 011
Primary/Secondary DN 100	CO Line 010

F1-Help F2-Copy Ctrl/F2-Copy Keys F4-Attributes F5-Pause F6-CO Lines
 F7-Speed Dial F8-Messages F9-Increment SD F10-Save Programs Esc-Exit
 Assignment for Flexible Key No. 10

2. To change a flexible button assignment, highlight the Flexible Key Assignment and press:
 - ✦ **F5**—Pause to deactivate or blank out a key assignment.
 - ✦ **F9**—Increment SD to add multiple speed dial key assignments.

Important! *You can only use this key when you are assigning more than one speed dial key at a time. If you have not just added a speed dial key assignment, the message **Must Assign System/Station Speed Dial First** displays.*

*If you leave the cursor in the same field and continue to press **F8**, the speed dial key number increments. To add consecutive speed dial key assignments, you must continue to highlight the next field before pressing **F8**.*

3. Press **Esc** to return to the Port Attributes screen.

Important!

- *After restoring flexible keys (Program 39) data, turn the DK system off for five seconds, then turn it back on to apply the changes made.*
- *If you change the keystrip type (Program 38) from the station attribute screen, all keystrip buttons will be set to Program 38 default assignments. If you wish to change a keystrip type (from 20 to 10, for example) and save the existing (first 10) key button assignments, operate Program 38 from the Program Administration Section option.*

► To copy selected keys to selected ports

1. Press **Ctrl+F2** and a pop-up dialog box displays (shown at right).
2. Press any key to continue.
3. Highlight a key and press the spacebar to select. An asterisk appears next to your selection. Continue until all the keys you want to copy have been selected.

This function copies selected flexible keys from the current port to a range of ports.

To select the flexible keys to be copied to other ports, press space to toggle the key on and off. When your selections are complete, press Ctrl/F2 again to copy.

If you decide not to continue, press Escape when asked for port numbers.

4. Press **Ctrl+F2** again. A pop-up dialog box displays (shown at right).
5. Type the desired ports and press **Enter**. Another pop-up dialog box displays asking you confirm the change.
6. Highlight **Yes** and press **Enter** to make the change or **No** to cancel the changes.
7. Press **F10** to save the changes you just made.

Copy to Port(s): 000 to 335

CO Line Assignments (F6)

➤ To view CO line assignments

1. Press **F6** from the Port Attributes screen. The Port CO Line Information screen displays (shown right).
2. To turn any program on/off, highlight the program number for the CO Line and press the spacebar. A check mark indicates the program is on.
3. Press **Esc** to return to the Port Attributes screen.

Port 000 CO Line Information													
CO Line	81	82	83	84	85	86	87	88	89	40	41	43	*81
001	✓												
002	✓												
003	✓												
004	✓												
005	✓												
006	✓												
007	✓												
008	✓												
009	✓												
010	✓												
011	✓												
012	✓												
013	✓												
014	✓												

F1-Help F2-Copy F4-Attributes F5-Flexible Keys F7-Speed Dial F8-Messages
F10-Save Programs Esc-Exit
CO Line Number

Speed Dial Assignments (F7)

➤ To assign speed dial assignments

- Press **F7** from the Port Attributes screen. The Port Speed Dial Numbers & Memos screen displays (shown right). Refer to [Page 68](#) for procedures.

Port 000 Speed Dial Numbers & Memos		
Speed Dial Bin Number	Speed Dial Number	Speed Dial Memo
010		
011		
012		
013		
014		
015		
016		
017		
018		
019		
020		
021		
022		
023		

F1-Help F2-Copy F4-Attributes F5-Flexible Keys F6-CO Lines F8-Messages
F10-Save Programs Esc-Exit
Speed Dial Bin Number

System Messages (F8)

➤ To assign system messages

- Press **F8** from the Port Attributes screen. The Port Personal Messages screen displays (shown right). Refer to [Page 49](#) for procedures.

Personal Message	Message Line 1	Message Line 2
010	OUT TO LUNCH	
011	IN A MEETING	
012	CALL BACK	
013		
014		
015		
016		
017		
018		
019		

F1-Help F2-Copy F4-Attributes F5-Flexible Keys F6-C0 Lines F7-Speed Dial
F10-Save Programs Esc-Exit
Personal Message Number

Saving/Uploading Programmed Data (F9)

➤ To upload programmed data

- After completing your programming, press **F9** to save the information and begin the uploading process. See [“Restore Data”](#) on [Page 102](#) for complete procedures.

Printout Examples

Customer Name PCB Placement Per Program 03 Assignments								
CABINET 1	R11	RCTU	S11	S12	S13	S14	S15	S16
PCB Type		RCTUB	PDKU	PDKU	RSTU	RATU	RDTU	PIOU
Port Nos.			000-007	008-015	016-023	024-027	028-035	
Line Nos							001-008	
Option			RRCS-8	OCA	OCA		8-TDGL	TTY/MDU
CABINET 2	S21	S22	S23	S24	S25	S26	S27	S28
PCB Type	RSTU	RCOU	RSTU	PIOU	RDTU	PDKU		
Port Nos.	036-043		044-051		052-059	060-067		
Line Nos		009-016			017-924			
Option		RCOS		ACD/MIS	8-TDGL			

Figure 7 Cabinet PCB Installation Printout

CUSTOMER NAME System Speed Dial

System Speed Dial Bin Number	System Speed Dial Number	System Speed Dial Memo
600	17145833700	TOSHIBA
601	13124675889	CHICAGO
602	1723727173721	NEW YORK
603	4773938	DOWN
604	4737473	TOWN
605	4789994	DEALER A
6....	434...	DEALER B

**Figure 8 System Speed Dial Numbers
(prints out with System/Station Administration Report)**

CUSTOMER NAME System Messages

System LCD Message Number	Message Line 1	Message Line 2
060	OUT TO LUNCH	UNTIL 1:00PM
061	IN A MEETING	UNTIL 2:30PM
062	CALL BOB AT 3:00	583-1111
063	BACK AT 7 PM	OR 8PM I HOPE
064	RETURN ON MONDAY	OR TUESDAY
06...		

**Figure 9 System Telephone LCD Messages
(prints out with System/Station Administration Port)**

System/Station Administration										
① C S N	② Phy. Port No.	③ PT	④ Telephone Location	⑤ Log Port No.	⑥ Int. No.	⑦ DID No.	⑧ Telephone LCD User Name		⑨ VM CF ID Code	⑩ VM MW ID Code
001	001	DO	OFFICE #114	000	3200	3200	SALLY	3200	91200	92200
002	002	DO	OFFICE #112	001	3201	3201	LINDA	3201	92201	93201
003	003	DO	OFFICE #109	002	3202	3202	GARDEN	3202	92202	23202
004	004	DO	OFFICE #87	003	3203	3203	HARDWARE	3203	92203	93203
005	005	DO	OFFICE #107	004	3204	3204	FRED C	3204	92204	93204
006	006	DO	CAFETERIA	005	3205	3205			92205	93205
007	007	DO	SHIPPING DOCK	006	3206	3206			92206	93206
008	008	DO	CONFERENCE	007	3207	3207			92207	93207
009	009	DO	PHONE ROOM	008	3208	3208			92208	93208

① Cabinet Slot Number in which the port is installed.

② Physical Port Numbers: RCTA = 001~031; RCTUB = 000~079; RCTUC/D = 000~239; RCTUE/F = 000~335
Port Type: DKAdmin scans Program 03 and identifies all physical ports and reads other programs as shown by () to identify special ports.

③ Port Identification Codes

AC - Attendant Console Port (Prog 03, code 51)
DL - DID Line Port (Prog 03, code 71~73 and *41-2)
DD - Digital Port with DSS (Prog 03, code 63, 64)
DO - Digital Port with OCA (Prog 03, code 62, 64, 28)
DT - Digital Port (Prog 03, code 61, 63, 27)
ED - Electronic Port with DSS (Prog 03, code 23, 24)
EO - Electronic Port with EOCU (Prog 03, code 22, 24, 26)
ET - Electronic Port (Prog 03, code 21, 23, 25)
ST - Standard Port (Prog 03, code 25~31)
TL - TIE Line Port (Prog 03, code 71~73 and *41-2)
VA - Vacant Port (Prog 03, code DO)
PT - Port Type

Special Ports

AG - ACD Announcement Port (Prog 14-3)
AM - ACD Music Port (Prog 14-3)
AP - AA Primary Announcer (Prog 23)
AS - AA Secondary Announcer (Prog 24)
BM - Background Music Port (Prog 03, 10-2/LED 09/10, 19)
DI - PDIU-DI Port (Prog 20)
DS - PDIU-DS Port (Prog 20)
DP - Doorphone Port (Prog 77-1)
EA - External Amplifier Port (Prog 10-3)
MP - Modem Pool (Prog 21)
VM - Voice Mail Port (Prog 31, LED 17 ON)

④ This is a test field in which the location of the physical port wiring termination point (telephone jack) may be entered.

⑤ Logical Port associated with physical port.

⑥ Intercom number associated with logical port.

⑦ Direct-in-Dial number associated with logical port. (Column not available in DKAdmin R4 or higher software.)

⑧ LCD User Name associated with logical port.

⑨ Voice Mail Call Forward (#656) code.

⑩ Voice Mail Message Retrieve (#657) code.

**Figure 10 Basic Telephone/Port Assignments
(prints out with System/Station Administration Report)**

CUSTOMER NAME
Intercom 202/Port 002 Attributes for BRIAN No: 202

PRG	KEY	Feature Description	Attribute
38		Telephone Keystrip Type	20-Button (A)
80		Ring Tone	3
27		Volume Level	3
30	01	Speakerphone Enabled	✓
30	02	MIC Key Lock Enabled	✓

Figure 11 Station Attributes by Station
 (prints out with current port attributes)

CUSTOMER NAME
Intercom 202/Port 002 Flexible Key Assignments for BRIAN No: 202

Key No.	Flexible Key Assignment	Flexible Key Assignment	Key No.
10	ACD - Log In/Out	ACD - End of Shift	20
9	Station Speed Dial 011	System Speed Dial 605	19
8	Station Speed Dial 010	System Speed Dial 604	18
7	ACD - Agent Not Available	ACD - Cancel Queue Alarm	17
6	ACD - Pickup	ACD - Monitor Call	16
5	ACD - Wrap Up	System Speed Dial 600	15
4	ACD - Record Account	System Speed Dial 601	14
3	Speed Dial Select (*Key)	System Speed Dial 602	13
2	Pooled Line 302	System Speed Dial 603	12
1	Intercom	ACD - Help	11

Figure 12 Flexible Key Assignments by Station
 (prints out with current port attributes)

CUSTOMER NAME
Intercom 202/Port 002 Speed Dial Numbers & Memos for BRIAN No: 202

Speed Dial Bin Number	Speed Dial Number	Speed Dial Memo
010		
011	7584930	HOME
012	5849605	MARY
013	5840396	DOCTOR JONES

Figure 13 Station Speed Dial/Memos by Station
 (prints out with current port attributes)

CUSTOMER NAME
Intercom 202/Port 002 Personal Messages for BRIAN No: 202

Personal Message Number	Message Line 1	Message Line 2
010 011	CALL BRIAN ASAP OUT OF OFFICE	UNTIL AUG. 15

Figure 14 Station Personal LCD Messages by Station
 (prints out with current port attributes)

CUSTOMER NAME
Intercom 202/Port 002 CO Line Information for BRIAN No: 202

CO Line	81	82	83	84	85	86	87	88	89	40	41	43	*81	*84	*87
001	✓									✓					
002	✓									✓					
003	✓									✓					

- 81 - Program 81 - DAY Immediate Ring
- 82 - Program 82 - DAY 12 Second Delay Ring
- 83 - Program 83 - DAY 24 Second Delay Ring
- 84 - Program 84 - DAY 2 Immediate Ring
- 85 - Program 85 - DAY 2 12 Second Delay Ring
- 86 - Program 86 - DAY 2 24 Second Delay Ring
- 87 - Program 87 - NIGHT Immediate Ring
- 88 - Program 88 - NIGHT 12 Second Delay Ring
- 89 - Program 89 - NIGHT 24 Second Delay Ring
- 40 - Program 40 - Station CO Line Access (Incoming/Outgoing)
- 41 - Program 41 - Station Outgoing Call Restriction
- 43 - Program 43 - 0+ Credit Card Dialing Option
- *81~*87 - Programs *81~*87 - Ground/Loop/Start/CO Line to [DN] LED Flash Assignments

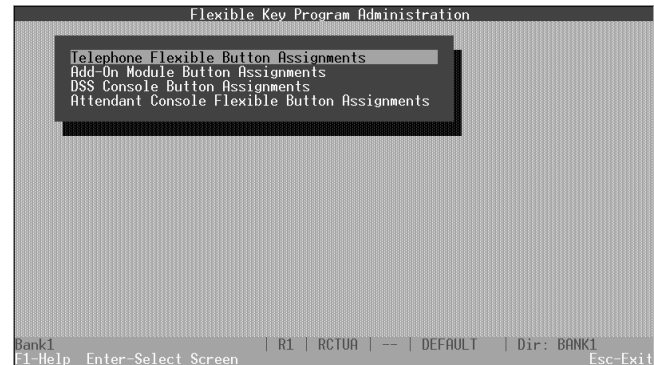
Figure 15 Station CO Line Ringing and Access Assignment by Station
 (prints out with current port attributes)

Flexible Button Programming Section

The Flexible Key Programming Section option in the Administration Menu enables you to maintain flexible button assignments for telephones, add-on modules, DSS consoles and attendant consoles.

► To access flexible button assignments

1. Type **a** and the Administration Menu appears.
2. Type **u** and the Flexible Key Program Administration screen displays (shown right).

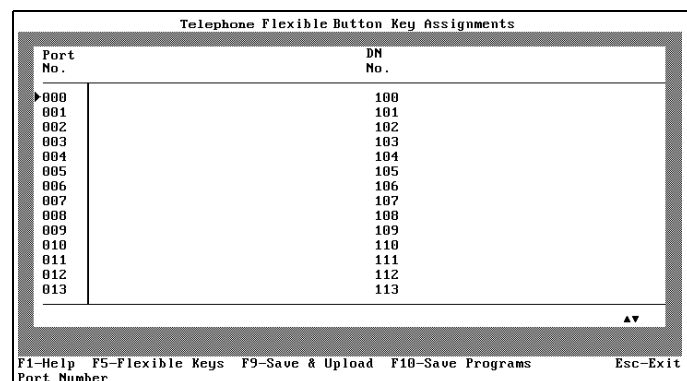


Telephone Flexible Button Assignments

► To access the option

- Press **Enter** and the Telephone Flexible Button Key Assignments screen displays (shown right).

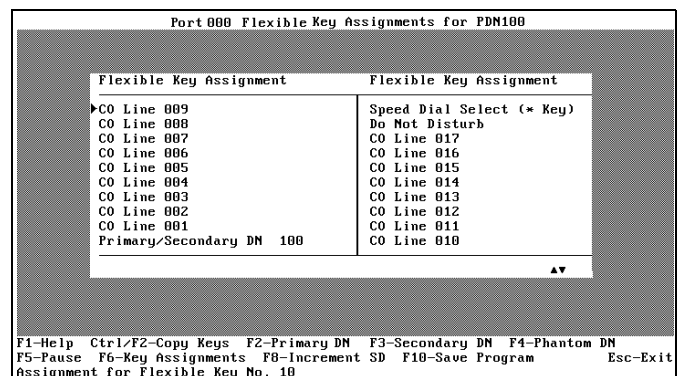
This screen enables you to assign features to 10 or 20 telephone buttons for each of your logical ports, individually or by range. You can also copy buttons from one port to another or to a range of ports for quick and easy feature editing.



When copying keystrips, you can choose to copy (or not copy) over existing PDNs and/or PhDNs on the "Copy to" port or port range.

► To change an assigned button

1. Highlight the port you want to change, press **F5**, and the Port Flexible Key Assignments screen (shown at right) for that port displays.
2. Highlight the key you wish to change.



- Press **F2** to make the key a Primary DN, **F3** a Secondary DN, **F4** a Phantom DN, or **F6** to change the key feature.

If you press **F3** or **F4**, a pop-up list appears and you must enter a primary or secondary number. If the number you enter does not exist, the following warning message appears and you must re-enter the number.

DN Does Not Exist. Please Refer to Program *04.

...or

press **F5** to deactivate or blank out a key assignment

...or

if you press **F6**, a feature pop-up list displays (shown right).

Highlight the feature you want to assign to the button and press **Enter**. Some entries (such as the CO Line feature) require you enter a value when making an assignment. The selected feature replaces the previous feature.

Port 000 Flexible Key Assignments for PDM100		
Flexible	CO Line	Key Assignment
	Call Forward A.C. Fixed	
	Call Forward All Calls	
CO Line	Call Forward Busy	al Select (* Key)
CO Line	Call Forward Busy/No Answer	isturb
CO Line	Call Forward External	017
CO Line	Call Forward No Answer	016
CO Line	Call Park	015
CO Line	Call Park Orbit Display	014
CO Line	Call Park/Page	013
CO Line	Call Pickup (Directed)	012
CO Line	Call Pickup (Group)	011
Primary	Call Pickup Tenant 1	010
	Call Pickup Tenant 2	
	Call Pickup Tenant 3	
	Call Pickup Tenant 4	
	Data	
	Data Release	
	Direct Station	

F1-Help Ctrl/F2-C ary DN F4-Phantom DN
 F5-Pause F6-Key Assignments F8-Increment SD F10-Save Program Esc-Exit
 Assignment for Flexible Key No. 10

Note You can only assign a feature to one button within a port. If you attempt to assign a feature already assigned, an error message displays.

...or

press **F8** to add multiple speed dial key assignments.

Important! *You can only use this key when you are assigning more than one speed dial key at a time. If you have not just added a speed dial key assignment, the message **Must Assign System/Station Speed Dial First** displays.*

*If you leave the cursor in the same field and continue to press **F8**, the speed dial key number increments. To add consecutive speed dial key assignments, you must continue to highlight the next field before pressing **F8**.*

► To copy selected keys to selected ports

- Press **Ctrl+F2** and a pop-up dialog box displays (shown at right).
- Press any key to continue.
- Highlight a key and press the spacebar to select. An asterisk appears next to your selection. Continue until all the keys you want to copy have been selected.

This function copies selected flexible keys from the current port to a range of ports.

To select the flexible keys to be copied to other ports, press space to toggle the key on and off. When your selections are complete, press Ctrl/F2 again to copy.

If you decide not to continue, press Escape when asked for port numbers.

4. Press **Ctrl+F2** again. A pop-up dialog box displays (shown at right).
5. Type the desired ports and press **Enter**. Another pop-up dialog box displays asking you confirm the change.
6. Highlight **Yes** and press **Enter** to make the change or **No** to cancel the changes.
7. Press **F10** to save the changes you just made.

Copy to Port(s): 000 to 335

Add-On Module Button Assignments

► To access the option

1. Highlight the Add-On Module Button Assignments option and press **Enter**.

If you have not yet assigned an add-on module to any of your ports, a message displays: **No Ports Have Add-on Modules. Do You Want To Add A Port?**

- ✦ To add a port, press **Enter**. A Port Number pop-up box displays: **Port Number 000**.
- ✦ Type the port number for which you wish to edit add-on module button assignments. The Add-On Module Button Assignments screen displays (shown right).

This screen enables you to assign features (CO Line, Direct Station,

Port No.	LED	Add-On Module 1 Button Assignment	Add-On Module 2 Button Assignment
01	01	Direct Station 000	Direct Station 020
02	02	Direct Station 001	Direct Station 021
03	03	Direct Station 002	Direct Station 022
04	04	Direct Station 003	Direct Station 023
05	05	Direct Station 004	Direct Station 024
06	06	Direct Station 005	Direct Station 025
07	07	Direct Station 006	Direct Station 026
08	08	Direct Station 007	Direct Station 027
09	09	Direct Station 008	Direct Station 028
10	10	Direct Station 009	Direct Station 029
11	11	Direct Station 010	Direct Station 030
12	12	Direct Station 011	Direct Station 031
13	13	Direct Station 012	Direct Station 032
14	14	Direct Station 013	Direct Station 033

F1-Help F2-Add/Goto Port F3-Copy From Port F4-Copy To Port F5-Clear Port
 F7-Chg Port F6-Feature F8- + SD F10-Save Program Esc-Exit
 Port Number

Station Speed Dial or System Speed Dial) to 20 LED buttons on two add-on modules (for a total of 40) to any of the physical ports. You can also copy features from one port to another for quick and easy feature editing.

► To make assignments to another port

1. Press **F2** and a Port Number pop-up dialog box displays.
2. Type the port number that you wish to work with. If you have not assigned an add-on module to the specified port, a message displays:

Port does not have add-on module. Add?

3. Press **Enter** to add an Add-On Module

...or

scroll through the current Add-On Modules by pressing the **+** key to display the next port, or the **-** key to display the previous port.

► **To copy the features from one port to another**

1. Highlight the LED you wish to copy and press **F4**. The Copy to Port dialog box displays.
2. Type the range of port numbers that you wish to copy TO.
3. Highlight the Button Assignment Column of Add-On Module 1 or 2 for the LED you wish to change and press **F3**. A message displays at the top of the screen:

Current template copied from port XXX.

Press **Enter** to display the Feature pop-up box.

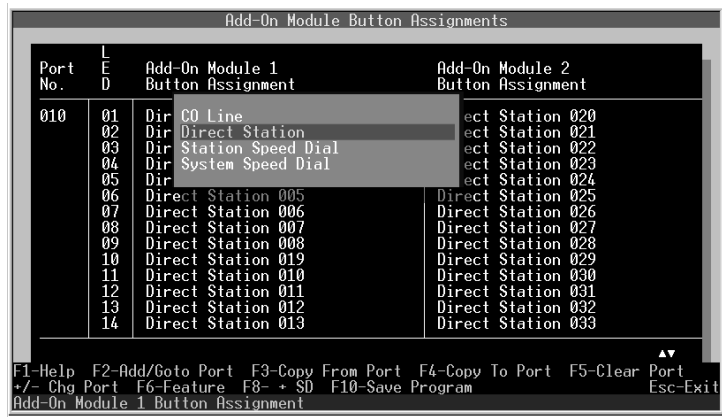
4. Highlight the feature you want to assign to the button and press **Enter**. A value entry pop-up box displays.
5. Enter the appropriate number or code for the selected feature. The feature is copied from this port to the ports specified in [Step 2](#).
6. Repeat Steps 1 ~ 5 for each button you wish to copy.
7. Press **F10** to save your changes and return to the Flexible Key Program Administration screen.

► **To clear the port**

1. To clear the port and return to the default settings for all options, press **F5**. A message displays: **Are you sure?**
2. Press **Enter** to clear the port.

► **To change an assigned feature**

1. Highlight the Button Assignment column for either Add-On Module 1 or 2 for the LED you wish to change and press **F6**. A feature pop-up list displays (shown right).
2. Highlight the feature you want to assign to the button and press **Enter**. A value entry pop-up displays.
3. Enter the appropriate number or code for the selected feature.



Note You can only assign a feature to one button per port. If you attempt to assign a feature already assigned, an error message displays.

► **To assign more than one speed dial number**

1. Follow the procedure for changing an assigned feature and assign a station/system speed dial number.
2. Press **F8** + **SD** to add additional speed dial key assignments.

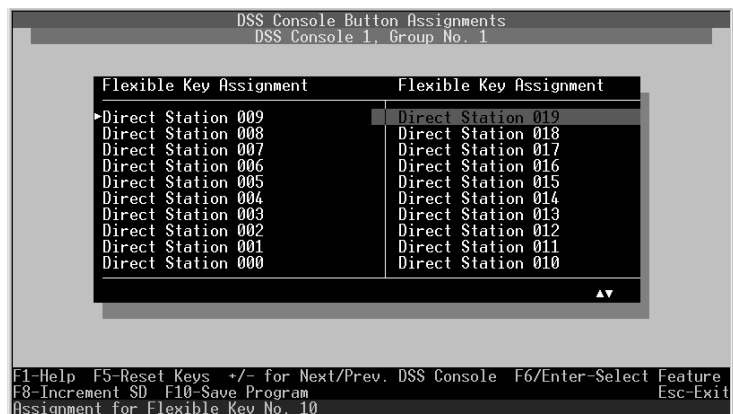
Important! *You can only use this key when you are assigning more than one speed dial key at a time. If you have not just added a speed dial key assignment, the message **Must Assign System/Station Speed Dial First** displays.*

*If you leave the cursor in the same field and continue to press **F8**, the speed dial key number increments. To add consecutive speed dial key assignments, you must continue to highlight the next field before pressing **F8**.*

DSS Console Button Assignments

► **To access the option**

- Highlight the DSS Console Button Assignments option and press **Enter**. The DSS Console Button Assignments screen displays (shown right) which enables you to assign features to 20 DSS console key buttons.

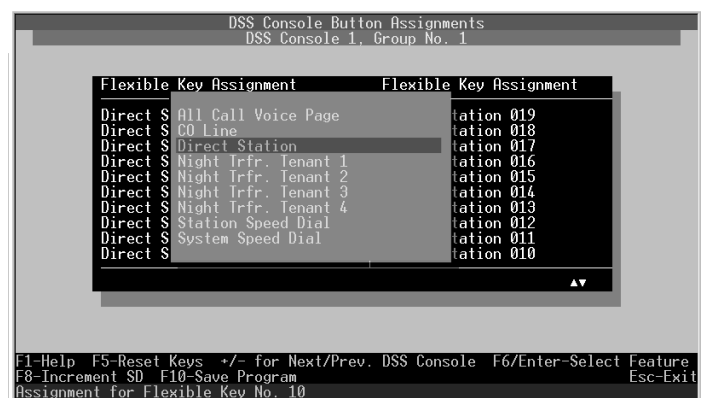


► **To reset all keys and return them to their default settings**

1. Press **F5**. A message displays: **Are you sure you want to reset flexible keys?**
2. Highlight **Yes** and press **Enter** to reset the keys or press **Enter** to terminate the resetting.

► **To change an assigned feature**

1. Highlight the key assignment you wish to change and press **F6**. A feature pop-up list displays (shown right).
2. Highlight the feature you want to assign to the button and press **Enter**. Some entries (such as the CO Line feature) require you type a value when making an assignment.



The selected feature replaces the previous feature.

Notes

- You can only assign a feature to one button within a console. If you attempt to assign a feature already assigned, an error message displays.
- Press **F8-Increment SD** to add additional speed dial key assignments.

Important! *You can only use this key when you are assigning more than one speed dial key at a time. If you have not just added a speed dial key assignment, the message **Must Assign System/Station Speed Dial First** displays.*

*If you leave the cursor in the same field and continue to press **F8**, the speed dial key number increments. To add consecutive speed dial key assignments, you must continue to highlight the next field before pressing **F8**.*

3. After setting each key, press **F10** to save your changes and return to the Flexible Key Program Administration screen.

➤ To make assignments to another console or console group

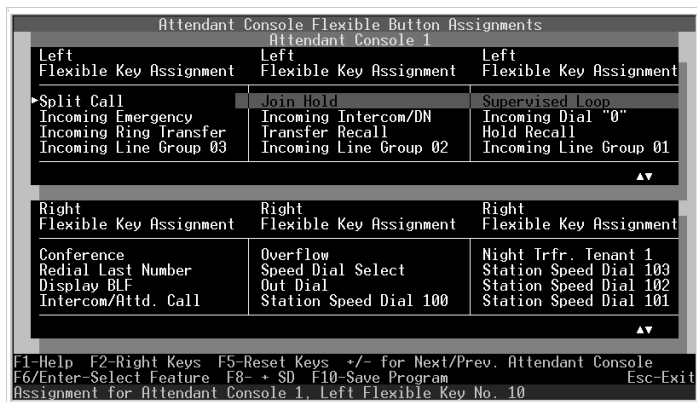
1. Scroll to another console/console group (+ scrolls forward, - scrolls backward).
2. Press **Esc** to close the DSS Console Button Assignments screen and return to the Flexible Key Program Administration screen.

Attendant Console Flexible Button Assignments

Note This option cannot be used by Strata DK Release 2 or below.

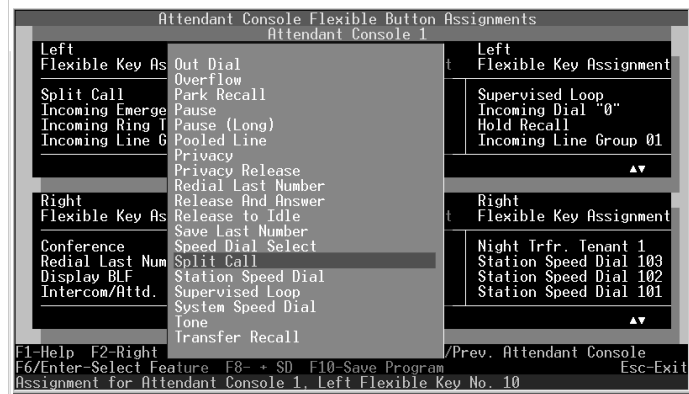
➤ To access the option

- Highlight the Attendant Console Flexible Button Assignments option and press **Enter**. The Attendant Console Flexible Button Assignments screen displays (shown right). This screen enables you to assign features to both left and right key assignments.



► **To edit your attendant console flexible button assignments**

1. Highlight the key assignment you wish to change and press **F6**. A feature pop-up list displays (shown right).
2. Use the **+/-** keys or the **Page Up/Page Down** keys to scroll through the list. Highlight the feature you want to assign to the key and press **Enter**. The selected feature replaces the previous feature.



3. To move between the left and right key assignments, press **F2**.
 - ✦ You can only assign a feature to one button within a console. If you attempt to assign a feature already assigned, an error message displays.
 - ✦ Press **F8-+ SD** to add additional speed dial key assignments.

Important! *You can only use this key when you are assigning more than one speed dial key at a time. If you have not just added a speed dial key assignment, the message **Must Assign System/Station Speed Dial First** displays.*

*If you leave the cursor in the same field and continue to press **F8**, the speed dial key number increments. To add consecutive speed dial key assignments, you must continue to highlight the next field before pressing **F8**.*

4. After setting each key, press **F10** to save your changes and return to the Flexible Key Program Administration screen.

► **To reset all keys and return them to their default settings**

1. Press **F5**. A message displays:
Are you sure you want to reset flexible keys?
2. Press **Enter** to reset the keys.

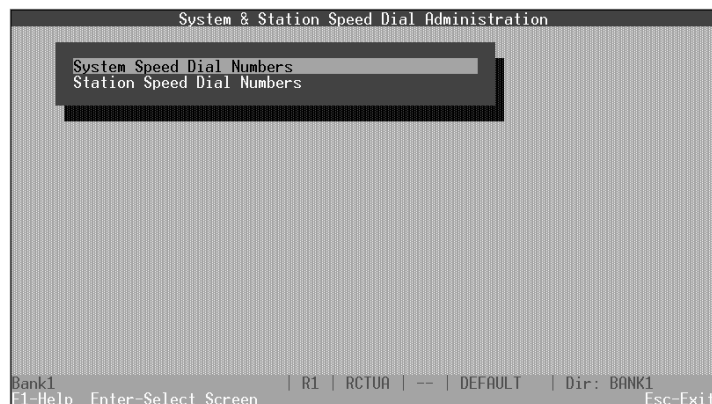
► **To make assignments to another attendant console**

1. Scroll to another attendant console (**+** scrolls forward, **-** scrolls backward).
2. Press **Esc** to close the Attendant Console Flexible Button Assignments screen and return to the Flexible Key Program Administration screen.

Speed Dial Programming Section

The Speed Dial Programming Section option in the Administration Menu enables you to maintain system and station speed dial assignments.

- To access speed dial assignments
 - Type **d**; the System & Station Speed Dial Administration screen displays (shown right).



System Speed Dial Numbers

- To edit system speed dial number assignments

1. Press **Enter**. The System Speed Dial Numbers screen displays (shown right). This screen enables you to assign or edit up to 800 system speed dial numbers for the RCTUE/F processor, 100 for RCTUBA/BB, RCTUC/D processors, and 40 for TMAU and RCTUA processors.
-
- | System Speed Dial Bin Number | System Speed Dial No. | System Speed Dial Memo |
|------------------------------|-----------------------|------------------------|
| 200 | | |
| 201 | | |
| 202 | | |
| 203 | | |
| 204 | | |
| 205 | | |
| 206 | | |
| 207 | | |
| 208 | | |
| 209 | | |
| 210 | | |
| 211 | | |
| 212 | | |
| 213 | | |
| 214 | | |
2. Highlight the System Speed Dial No. field and type the speed dial telephone number, including area code, and press **Enter**.
 3. Highlight the System Speed Dial Memo field and enter a description of the speed dial number (up to 12 characters). This memo displays on the telephones LCD when the Bin Number is selected by an LCD telephone using the MODE 8XXX function (where XXX is the speed dial bin number).
 4. Press **F9** to save the entries and upload the data to the DK or **F10** to save the speed dial assignments and return to the System/Station Administration screen.

Station Speed Dial Numbers

► To edit station speed dial number assignments

1. Highlight the Station Speed Dial Numbers option and press **Enter**. The Station Speed Dial Numbers screen displays (shown right).

Phy. Port No.	Telephone Location	Log. Port No.	Int/DN No.	DID No.	Telephone LCD User Name
000		000	200	200	
001		001	201	201	
002		002	202	202	
003		003	203	203	
004		004	204	204	
005		005	205	205	
006		006	206	206	
007		007	207	207	
008		008	208	208	
009		009	209	209	
010		010	210	210	
011		011	211	211	
012		012	212	212	

F1-Help F7-Station Speed Dial F9-Save & Upload F10-Save Programs Esc-Exit
Physical Port Number

- Note** To make entries or edit the Telephone Location, Log. Port No., Int/DN No. and Telephone LCD User Name fields, you must access the System/Station Administration screen under the System/Station Administration option.

2. Highlight the Physical Port No. field and press **F7**. The Port Speed Dial Numbers & Memos screen displays (shown right).

Speed Dial Bin Number	Speed Dial Number	Speed Dial Memo
100		
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		

F1-Help F10-Save Programs Esc-Exit
Speed Dial Bin Number

3. Highlight the Speed Dial Number field for the appropriate Speed Dial Bin Number. Type the telephone number (including area code) and press **Enter**.
4. Highlight the Speed Dial Memo field and enter a description of the speed dial number (using up to 12 characters). This memo displays on the telephones LCD when the Bin Number is selected by an LCD telephone using the MODE 8XXX function (where XXX is the speed dial bin number).
5. Press **F9** to save the entries and upload the data to the DK

...or

press **F10** to save the speed dial assignments and return to the System & Station Speed Dial Administration screen

...or

press **Esc** to return to the previous menu without saving. A pop-up box appears: **Data modified. Save modified data?**

Press **Enter** to save or **N** to return to the previous screen without saving.

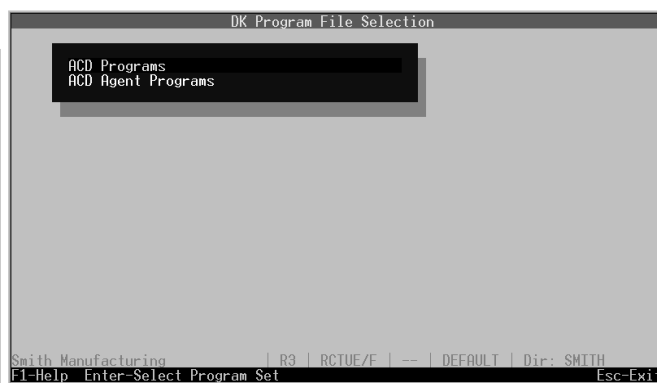
CAUTION! The DKAdmin PC must be connected to the Strata DK to upload any changes to this data (see [Appendix A – Connecting to Strata DK](#) for procedures on connecting the DKAdmin PC to a Strata DK).

- Press **Esc** to close the System & Station Speed Dial Administration screen and return to the Main Menu.

ACD Administration

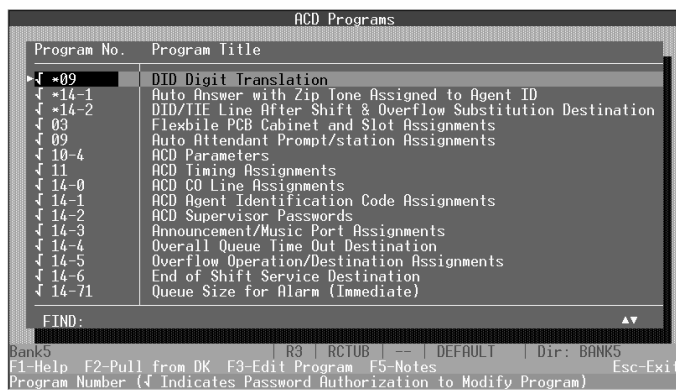
The ACD Administration Section option in the Administration Menu enables you to maintain your ACD and ACD Agent programs.

- **To access ACD administration**
 - Type **a**. The DK Program File Selection screen displays (shown right).



ACD Programs

- **To edit ACD programs**
 - Press **Enter**; the ACD Programs screen displays (shown right). This screen enables you to edit ACD programs (you can edit any program with a check mark next to it).



- Highlight the program number and press **F3**. The Edit Program screen displays (shown right). The screen varies, depending upon the program selected.

Cabinet 1	R11	RCTU	S11
PCB Code	RCTUBB3	RCTUBB3	PDKU
PCB Type	NONE	NONE	8 Stations

F1-Help + Next Cabinet - Previous Cabinet
F6/Enter-Reference Table F9-Save & Upload F10-Save Program Esc-Exit
Cabinet Number 1

- Note** You can also use the Find function to quickly move to a program by typing the first digit of the program number. DKAdmin highlights the first program number matching the entry.

- Highlight the field you wish to change and enter the information. Read only fields do not accept entries.
- Press **F9** to save the entries and upload the data to the DK, or **F10** to save the speed dial assignments and return to the ACD Programs screen.

Important! *The DKAdmin PC must be connected to the Strata DK to upload any changes to this data (see [Appendix A – Connecting to Strata DK](#) for procedures on connecting the DKAdmin PC to a Strata DK).*

- Press the **Esc** key to close the ACD Programs screen and return to the DK Program File Selection screen.

► To view notes on a program

- Highlight the program and press **F5**.

Note You can also use the Find function to move quickly to a program by typing the first one or two digits of the program number. The program highlights the first program number matching your entry.

- ♦ Use the **Up/Down** arrow keys to scroll the description.
- ♦ Press **F10** to print the description.
- ♦ Press **Esc** to return to the ACD Programs screen.

► To use the Strata DK's program files to edit

- Press **F2** and the DK Code dialog box displays.
- Type the DK Code: XXXX, where XXXX is the DK level 1 security code set in Program 00. The DK System Program File screen displays.

Note If the **Problem: Unable to Establish Communications** screen displays, follow the troubleshooting steps on the screen and/or refer to [Appendix A – Connecting to Strata DK](#) to correct the problem.

- Press **F2** to select (tag) all Program No. (data) files.
- Highlight **Yes** and press **Enter**. DKAdmin establishes communications to the Strata DK, turns on LED 10 in Program 77-1, and receives data blocks. This information displays on the PC screen as it occurs.

- Follow [Step 2 ~ Step 4](#) of “To edit ACD programs” on [Page 70](#).

ACD Agent Programs

► To edit ACD agent programs

- Highlight the ACD Agent Programs option and press **Enter**. The ACD Agent Programs screen displays (shown right). This screen enables you to edit ACD Agent programs.
- Highlight the ACD Group Number field for the ACD Agent you wish to change. Type the new two-digit Group number (01 ~ 08) and press **Enter**.
- Highlight the ACD Agent ID Code field and enter a four-digit ACD Agent ID Code Number (0000 ~ 9999). If you type less than four digits, the program zero fills the field. Press **Enter**.
- Highlight the ACD Agent Name field. Type the Agent’s name (up to eight characters) and press **Enter**.
- Highlight the Auto Answer Assignment. Use the spacebar or **+/-** keys to toggle between **Auto Answer** and **No Auto Answer**.
- Press **F9** to save the entries and upload the data to the DK, or **F10** to save the speed dial assignments and return to the ACD Programs screen.

ACD Agent Programs				
ACD Agent Number	ACD Group Number	ACD Agent Id Code	ACD Agent Name	Auto Answer Assignment
000	01			No Auto Answer
001	01			No Auto Answer
002	01			No Auto Answer
003	01			No Auto Answer
004	01			No Auto Answer
005	01			No Auto Answer
006	01			No Auto Answer
007	01			No Auto Answer
008	01			No Auto Answer
009	01			No Auto Answer
010	01			No Auto Answer
011	01			No Auto Answer
012	01			No Auto Answer
013	01			No Auto Answer
014	01			No Auto Answer

F1-Help F9-Save & Upload F10-Save Program Esc-Exit

- Important!** *The DKAdmin PC must be connected to the Strata DK to upload any changes to this data (see [Appendix A – Connecting to Strata DK](#) for procedures on connecting the DKAdmin PC to a Strata DK).*
- Press **Esc** to close the ACD Programs screen and return to the DK Program File Selection screen.

Program Administration Section

The Program Administration Section option in the Administration Menu enables you to maintain Strata DK programs. This includes pulling the program from the DK, editing the program, initializing the Strata DK processor, or sending the program to the Strata DK.

For complete information on Strata DK programs, including default definitions, refer to the *Strata DK Programming Manual*.

► To access a Strata DK program

1. Type **p** and the DK Program File Selection screen displays (shown right).
2. Highlight the option on the screen you wish to select and press **Enter**. The selected screen displays. See [Table 4](#) for a list of available programs.

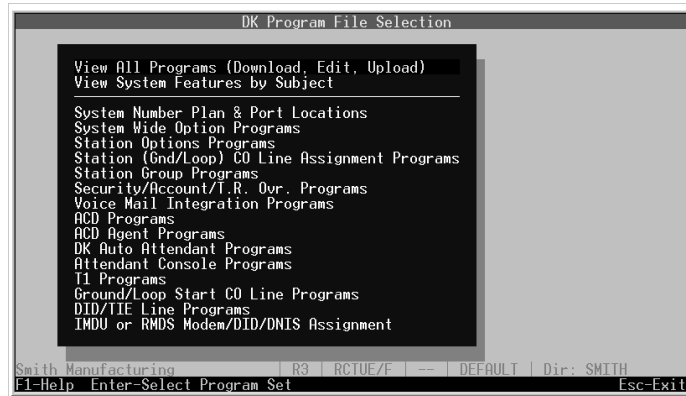


Table 4 Available Programs

Program Title	Program Title
View All Programs (Download, Edit, Upload)	Toll Restriction Programs
View System Features by Subject	Data Interface Unit Programs
System Number Plan & Port Locations	Doorphone/Ext. Paging/BGM/Conference
System Wide Option Programs	LCR Programs
Station Options Programs	Multiple Directory Number Programs
Station (Gnd/Loop) CO Line Assignment Programs	ANI Programs
Station Group Programs	DNIS Programs
Security/Account/T.R. Ovr. Programs	DKT/RPCI/OA Interface Programs
Voice Mail Integration Programs	Class/Caller ID Programs
ACD Programs	Distributed Hunt Programs
ACD Agent Programs	Call Park Programs
DK Auto Attendant Programs	Off Hook Call Announce Programs
Attendant Console Programs	Standard Telephone MW/Camp-on Tone Programs
T1 Programs	Enhanced 911/CAMA Trunk Programs
Ground/Loop Start CO Line Programs	ISDN Programs
DID/TIE Line Programs	Initialization Programs
IMDU or RMDS Modem/DID/DNIS Assignment	

After selecting the program, you have the following options:

- ✦ Press **F2** to pull the program data from the DK. See “Restore Data” on Page 102 for procedures on downloading data.
- ✦ Press **F3** to edit the program. Only programs displaying a check mark may be edited by your password level. Options for editing programs differ depending on the selected program. They may include:

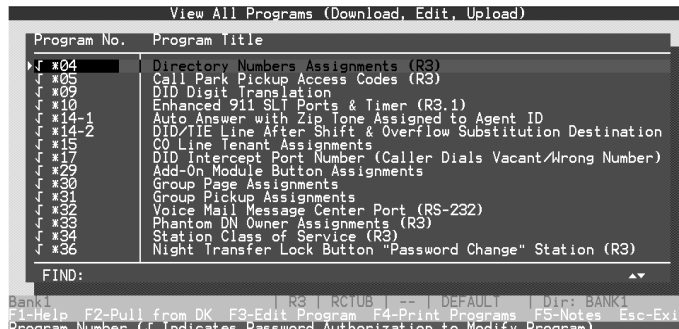
F2 - Reset Ports	Resets the ports to their original configuration.
F2 - Range	Enter a range to apply a change.
F9 - Save & Upload	Save the change and upload the data to the DK.
F10 - Save	Save the change in DKAdmin customer database and return to the originally selected program screen.
F10 - Initialize	Initialize the Strata DK processor with selected Program 90, 91, or 92; this does not affect DKAdmin customer data files.

- ✦ Press **F5** to view notes on the program.
- ✦ Press **Esc** to return to the DK Program File Selection screen. Press **Esc** again to return to the DKAdmin Main Menu.

View All Programs (Download, Edit, Upload)

➤ To access the option

1. From the DK Program File Selection screen, press **Enter** and the View All Programs (Download, Edit, Upload) screen displays (shown right).
2. Highlight the desired program.



Note To find a program number quickly, type the number and the display screen “jumps” to the program number. If the number you have typed does not exist, a dialog box displays telling you the number was not found.

➤ To pull the program data from the DK

- Press **F2** to pull the program data from the DK. See “Restore Data” on Page 102 for procedures on downloading data.

➤ **To edit a program**

1. Press **F3** and the Directory Numbers Assignments screen displays (shown right).
2. Highlight the logical port number and press **F2** to reset the DN for the logical port numbers on a range of ports.
3. A change dialog box displays and you must enter the starting DN. A pop-up screen displays asking you to confirm the change:

This operation will modify DN numbers. Go ahead?
4. Press **Enter** to change the port numbers.
5. Press **F9** to save the entries and upload the data to the DK, or **F10** to save the changes in the DKAdmin customer database and return to the DK Program File Selection screen.

Logical Port No.	DN Number
500	500
501	501
502	502
503	503
504	504
505	505
506	506
507	507
508	508
509	509
510	510
511	511
512	512
513	513
514	514

FIND: ▲▼

F1-Help F2-Range F9-Save & Upload F10-Save Program Esc-Exit

➤ **To print programs**

1. Press **F4** and a printer pop-up dialog box displays. The default printer is checkmarked.
2. Press **Enter** to print or highlight another printer and press **F2** to select.
3. If a printer is not designated for the selected port, press **F2** again and a printer list displays. Highlight the appropriate printer and press **Enter**.

➤ **To view notes on a program**

- Highlight the program and press **F5**.

Note You can also use the Find function to move quickly to a program by typing the first one or two digits of the program number. The program highlights the first program number matching your entry.

The following keys can be used when viewing program notes:

- ✦ Use the **Up/Down** arrow keys to scroll the description.
- ✦ Press **F10** to print the description.
- ✦ Press **Esc** to return to the ACD Programs screen.

When using DKAdmin, [Table 5](#) provides important information regarding specific programs:

Table 5 DKAdmin Program List

Program	Comment
Program 03	On new or upgraded installations, Program 03 should always be checked and uploaded to make sure all PCB slots have the correct codes for PCBs and PCB options. Strata DK power must be turned off (5-seconds) and then on after uploading (restoring) Program 03 to enable its data to take effect.
Program 04 or *04	When editing Directory or DN/intercom numbers in Programs 04 or *04, DKAdmin checks for duplicate or conflicting numbers and stops them from being entered. When uploading Programs 04 or *04, DKAdmin downloads them from the processor, compares and arranges the data in an acceptable order and uploads it to the Strata DK.
Program *09 and 76-0	<p>DKAdmin edits and uploads Programs *09 and 76-0 in the same manner as Programs 04 and *04.</p> <hr/> <p>CAUTION! ACD/DID assignments in Program *09 cannot be Restored (uploaded) with early ROM versions of Strata DK Release 2 ROMs.</p> <hr/>
PRGALL	Whenever PRGALL is uploaded (restored), Programs 04 and *09 are downloaded and checked, then uploaded prior to the PRGALL upload.
Program 38/39	<p>To change a keystrip from 20 to 10 keys, or from 10 to 20, without changing the data in Program 39, select and edit Program 38 using Program Administration. To change a keystrip to a default value in Program 38 and overwrite Program 39 data, select and edit TELEPHONE KEYSTRIP TYPE (PRG38) from the System/Station Administration-PORT ATTRIBUTES screen for the selected station port. When changing a keystrip from 20 keys to 10 keys, DKAdmin stores the pause (code 495) key in key 11-20 (unused keys). This is because there is no code for a blank key.</p> <p>If using Strata DK Release 2 or lower, you must power off (5 sec)/on the Strata DK after sending the changes to the Strata DK from DKAdmin in order for the program changes to take effect.</p>
Program 90, 91, and 92	<p>All Initialization programs will initialize the data in the Strata DK processor (RCTU PCB), not the data in the DKAdmin PC customer files.</p> <p>If initializing the system with 91-9 remotely, the customer DK TTY port must be connected to a modem that has a direct CO line as shown in Figure A-3 of Appendix A.</p>
REPALL	These two files will always be Up or Down loaded in pairs when either file is Up or Down loaded.
Program 04, *04, *09, and 76-0	Unused ports in these programs will be blanked out when upgrading to an RCTU with more port number than the original RCTU. This is done to prevent inserting DN and DID number conflicts during an upgrade. For example, if upgrading from a RCTUB to and RCTU C/D, ports 80-239 will be blanked out in Program 04.

Security Maintenance Section

The Security Maintenance Section option (level 9 password required to access this option) enables you to set up to three levels of security using:

- ♦ Passwords - defines the functions available to users using menu-specific passwords as described on [Page 121](#).
- ♦ Program Access - defines the programs which can be used by each password level using the Security Maintenance Section option (see “[Program Security \(Default Levels\)](#)” on [Page 78](#)).
- ♦ DK Access Code - must be entered to enable a user to send and/or receive data to/from a Strata DK. The default for this code is 0000 and may be changed (but not viewed) by DKAdmin users that have an allowable password level.

► To limit the Strata DK programs a user may edit

1. From the Administration Menu, type **u** to display the DK Program Security Maintenance screen (shown right).

The screen lists the Strata DK programs available for programming or updating. You can limit programs a user can access by assigning a security level (which corresponds to the users assigned password level).

S/L	Program No.	Program Title
2	RECALL	All Station and System Speed Dial Numbers
2	NAMEALL	All User Names
2	VTDALL	All Voice Mail ID Codes (#656)
2	MTDALL	All Voice Mail Message Waiting Codes (#657)
2	ADMEMOALL	All Station and System Speed Dial Memos
2	MSGALL	All Station and System LCD Messages
2	CFALL	All Call Forward Settings
2	MWALL	All Message Waiting Settings
2	CLID	All Class/ANI Lost Call Number Storage Data
0	*03	Cabinet Compatibility (DK424 R3.1)
0	*04	Directory Numbers Assignments (R3)
0	*05	Call Park Pickup Access Codes (R3)
8	*09	DID Digit Translation
8	*10	Enhanced 911 SLT Ports & Timer (R3.1)
5	*14-1	Auto Answer with Zip Tone Assigned to Agent ID

Note Program access security limits direct access of programs when using the Program Administration Section Option. When using the ACD Administration Section Option, only Programs 01, 02, 04, *09, VMID, MWID, and Personal Speed Dial access can be denied from the normal System/Station Administration functions.

2. Highlight the S/L field of the desired program. Type the password level (0 ~ 9, 9=highest) you want to assign for accessing the program and press **Enter**.

Note For a complete list of Password/Program default levels, see “[Program Security \(Default Levels\)](#)” on [Page 78](#).

...or

to assign **all** the programs to a particular password level, press **F2**-reset. A Security Level dialog box displays. Type the password level (0 ~ 9, 9=highest) you want to assign to all the Strata DK programs and press **Enter**. A confirmation message displays. Highlight **Yes** and press **Enter**.

The Security Level for all programs are changed to the entered password level.

3. To close the DK Program Security Maintenance screen, press **Esc**.

Note The password levels (0 ~ 9) are based on a hierarchal system. This means that password level 9 has access to all programs, but password level 5 (for example) has access to all programs tagged with 5 and below, but not 6 and above.

Program Security (Default Levels)

Program security is maintained by assigning access levels to each program. The access level is assigned to each User ID/Password so each User ID/Password can be allowed or denied edit/view privileges to selected Strata DK programs. DKAdmin provides default levels for User IDs/Passwords and program security (listed below). These passwords and program security levels may be added or changed by logging onto DKAdmin with a level 9 (Master) password.

The default User ID/Password and Program Security levels are shown below:

User ID	Password	Program Security Level
ADMIN1	ADMIN1	2
ADMIN2	ADMIN2	5
TECH1	TECH1	8
MASTER	MASTER	9

Table 6 Strata DK Program Security

Strata DK Program	Security Level	Program Title
REPALL	2	All Station and System Speed Dial Numbers
NAMEALL	2	All User Names
VIDALL	3	All Voice Mail ID Codes (#656)
MIDALL	3	All Voice Mail Message Waiting Codes (#657)
ADMEMOALL	2	All Station and System Speed Dial Memos
MSGALL	2	All Station and System LCD Messages
CFALL	2	All Call Forward Settings
MWALL	2	All Message Waiting Settings
CLID	2	All Class/ANI Lost Call Number Storage Data
*03	0	Cabinet Compatibility (DK424)
*04	0	Directory Numbers Assignment (R3)
*05	0	Call Park Pickup Access Codes (R3)
*09	8	DID Digit Translation
*10	8	E911 Assignments (R3.1)
*11-0	0	CAMA Trunk Assignments (R4)
*11-1	0	CAMA Trunk Group Line Assignments (R4)
*11-2	0	CAMA Trunk Group Hunting Assignments (R4)
*11-5	0	CAMA Digit Sent on 911 Calls (R4)
*11-6	0	E911 Interdigital Timer (R4)

Table 6 Strata DK Program Security (continued)

Strata DK Program	Security Level	Program Title
*11-8	0	911 Special [DN] Notification Assignments (R4)
*12	0	ANI Station Information (R4)
*13	0	Station Group Information (R4)
*14-1	5	Auto Answer with Zip Tone Assigned to Agent ID
*14-2	5	DID/TIE Line After Shift & Overflow Substitution Destination
*15	8	CO Line Tenant Assignments
*16	8	ISDN Trunk Group Type Assignments (R4)
*17	8	DID Intercept Port Number (Caller Dials Vacant/Wrong Number)
*29	5	Add-On Module Button Assignments
*30	5	Group Page Assignments
*31	5	Group Pickup Assignments
*32	8	Voice Mail Message Center Port (RS-232)
*33	8	Phantom DN Owner Assignments (R3)
*34	8	Station Class of Service
*36	8	Night Transfer Lock Button "Password Change" Station (R3)
*37	8	Station Park Recall Timer (R3)
*40	8	Station Distributed Hunt Group Assignments (R3.1)
*41-1	8	T1 Span Frame and Coding Assignments
*41-2	8	T1 Channel Assignments
*41-3	8	T1 Span Transmit (Send) Level PAD Assignments
*41-4	8	T1 Span Receive Level PAD Assignments
*42-1~2	8	Primary & Secondary Clock Source Reference Assignments
*43-1~3	8	'D' Channel Control and NFAS Assignment (R4)
*44	8	BRI SPID Parameters (R4)
*45-1	8	Office Code Toll Restriction (R3.0)
*45-2	8	Special Numbers that Do Not begin with */# (R3.0)
*45-3	8	Special Numbers that begin with */# (R3.0/R3.1)
*50	8	RCIU/RCIS Port Assignment
*51	8	Station Caller ID/ANI Lost Call Memory Allocation (R3)
*52	8	Common CO Line Caller ID Lost Call Owner (R3)
*60	0	BRI Assignment for Line/Station Operation (R4)
*61-1	0	ISDN Station Bearer Service (R4)
*61-2	0	ISDN Station Outgoing Call Pad Level (R4)
*61-3	0	ISDN Station Incoming Call Pad Level (R4)
*62-1	0	Non-ISDN Station Bearer Service (R4)

Table 6 Strata DK Program Security (continued)

Strata DK Program	Security Level	Program Title
*62-2	0	Non-ISDN Station Outgoing Call Pad Level (R4)
*62-3	0	Non-ISDN Station Incoming Call Pad Level (R4)
*63	0	ISDN Dialing Parameters (R4)
*64-1	0	Direct Inward Dialing Parameters (R4)
*64-2	0	Direct Inward Dialing Parameters (R4)
*65	0	ISDN Channel Group Assignment (R4)
*66-1	0	Channel Parameters (R4)
*66-2	0	Call-by-Call Trunk Group Codes (R4)
*66-3	0	Channel Group Parameters (R4)
*66-4	0	Call-by-Call Network ID (R4)
*66-5	0	Line Directory Number (LDN) Registration (R4)
*66-6	0	Line Directory Number (LDN) Channel Groups (R4)
*66-7	0	Line Directory Number (LDN) Trunk Groups (R4)
*67-1	0	Trunk Group Parameters (R4)
*67-2	0	Call Types for ISDN Trunk Group Supported (R4)
*67-3	0	Call Types for ISDN Trunk Groups (R4)
*67-4	0	Call Types for ISDN Trunk Groups (R4)
*68-1	0	Calling Number ID Presentation Parameters (R4)
*68-2	0	Outbound Calling Number ID Presentation Parameters (R4)
*69-1	0	CNIS Presentation Parameters (R4)
*69-2	0	Special Number Assignment (R4)
*71	8	Ringling DN Assignment for Immediate Ring (R3)
*72	8	Ringling DN Assignment for Delay 1 Ring (R3)
*73	8	Ringling DN Assignment for Delay 2 Ring (R3)
*79	8	Doorphone Ring LED Assignments (R3)
*80	0	Call Forward Ringling Assignments (R3.2)
*81	8	DN LED Display Assignment (DAY Mode) (R3)
*84	8	DN LED Display Assignment (DAY2 Mode) (R3)
*87	8	DN LED Display Assignment (NIGHT Mode) (R3)
00	8	Software Check/Remote Password Assignments
01	8	Logical Station Ports
02	8	Physical Station Ports
03	8	Flexible PCB Cabinet and Slot Assignments
04	8	Logical Port Intercom Number Assignments
05	8	Flexible Access Code Numbering

Table 6 Strata DK Program Security (continued)

Strata DK Program	Security Level	Program Title
09	8	Auto Attendant Prompt/Station Assignments
10-1	8	System Assignments
10-2	8	System Assignments
10-3	8	System Assignments
10-4	5	ACD Parameters
11	5	ACD Timing Assignments
12	8	System Assignments - Basic Timing
13	8	Defining the Message Center
14-0	5	ACD CO Line Assignments
14-1	5	ACD Agent Identification Code Assignments
14-2	5	ACD Supervisor Passwords
14-3	5	Announcement/Music Port Assignments
14-4	5	Overall Queue Time Out Destination
14-5	5	Overflow Operation/Destination Assignments
14-6	5	End of Shift Service Destination
14-71	5	Queue Size for Alarm (Immediate)
14-72	5	Queue Size for Alarm 1 (Timed)
14-73	5	Queue Time for Alarm 2 (Timed)
14-8	5	Alarm Pattern Assignments
14-9	5	Stroke Count Assignments
15	8	Assigning DP/DTMF, Tenant Service To Individual CO Line
16	8	Assign CO Line Groups (Dial 9 or 001~816)
17	8	DID/TIE Line Options
18	5	Agent ID Code Name for MIS Assignments
19	8	Alternate Background Music (BGM) Slot Identification
20	8	Digital Data Port Configuration
21	8	Modem Pool Port Assignments
22	8	Data Interface Unit (DIU) Station Hunting (Data Calls Only)
23	8	Primary Auto Attendant Announcement Device Assignments
24	8	Secondary Auto Attendant Announcement Device Assignments
25-1	8	Incoming Auto Attendant Call Overflow Time
26	5	Built-In Auto Attendant Camp-On Busy Time
27	5	Digital Telephone Handset Receiver Volume Level
28	8	DSS Console/Attendant Telephone Assignments
29	5	DSS Console Button Assignments

Table 6 Strata DK Program Security (continued)

Strata DK Program	Security Level	Program Title
30	5	Station Class of Service
31	5	Station Class of Service
32	5	Automatic Preference
33	5	Station Hunting (Voice Calls Only)
34	5	Hold/Park Recall Timing
35	5	Station Class of Service
36	5	Fixed Call Forward (Voice Calls Only)
37	5	CO and TIE Line Ring Transfer (Camp-on) Recall Time
38	5	Digital and Electronic Telephone Keystrip Type
39	5	Flexible Key Assignment Button Codes
40	5	Station CO Line Access
41	5	Station Outgoing Call Restriction
42-0	8	CO Line to PBX/Centrex Connection
42-1~8	8	PBX/Centrex Access Code
43	5	Station/CO Line Credit Card Call Allowed
44-1~8	5	Toll Restriction Class Traveling Class Override Code
44-91~93	5	Emergency Bypass of Forced, Verified Account Codes
45-1	8	LCR/Toll Restriction Dial Plan
45-2	5	Toll Restriction Disable
45-3~6	8	Special Common Carrier (SPCC) and Auth. Code Digital Length
45-8~9	8	Toll Restriction Override Code
46-10~80	8	Toll Restriction Class Parameters
46-11~81	8	Toll Restriction Class Parameters
46-2~4	8	Toll Restriction Allowed/Denied Area Codes by Class
46-6~8	8	Toll Restriction Allowed/Denied Office Codes by Class
47	8	Toll Restriction Exception Office Codes by Area Code
48	5	Station Toll Restriction Classification
50-1	8	LCR Parameters
50-2	8	LCR Home Area Code
50-31~35	8	LCR Special Code
50-4	8	LCR Long Distance Information (LDI) Plan Number
50-5	8	LCR Local Plan Number
50-6	8	LCR Dial Zero Timeout
51	8	LCR Area Codes
52	8	LCR Office Code Exceptions for Specified Area Codes

Table 6 Strata DK Program Security (continued)

Strata DK Program	Security Level	Program Title
53	8	LCR Schedule Assignments for LCR Plans
54	8	LCR Route Definition Tables
55-0~2	8	LCR Modified Digits Tables
56	5	LCR Station Group Assignments
58-1	5	Attendant Console Overflow Timer
58-2	5	Attendant Console Display Type
58-4	5	Attendant Console Answer Key Priority Assignments
58-5	5	Attendant Console Overflow Destination Assignments
59	5	Attendant Console Flexible Button Codes
60-1	8	SMDR Printout data of CLASS/ANI/DNIS or Account Code
60-2~7	5	SMDR Output/Account Code Digit-Length
60-8	5	Call Forward External (Remote Change, Security) ID Code
69	5	Verified Account Codes
70	5	Verified Account Code Toll Restriction Assignments
70-0	8	DNIS Number Assignments (R3)
71-0	0	DNIS Number Assignments
71-1	8	DNIS Ringing Point Assignments (DAY Mode) (R3)
71-2	8	DNIS Ringing Point Assignments (DAY2 Mode) (R3)
71-3	8	DNIS Ringing Point Assignments (NIGHT Mode) (R3)
71-4	8	DNIS Voice Mail ID Assignments (R3)
71-5	8	DNIS Name Tag Assignments (R3)
72	8	DNIS Network Table (R3)
74	8	Night Transfer Lock Button Password(s) (R3)
76-1~2	8	Interface Port Type & Transmission Speed (R3)
77-1	8	Peripheral Options (Door Phones/IMDU/PIOU/PIOUS/PEPU/RM
77-2	8	Door Phone Busy Signal/Door Lock Assignments
77-3	8	Night Ringing Over Tenant External Page Zones
77-4	8	Open Architecture Interface Attributes (R3.2)
78	5	CO Line Special Ringing Assignments: DSS/IMDU, Night Ringing
79	5	Door Phone Ringing
80	5	Digital & Electronic Telephone Ringing Tones (CO Line Calls)
81	5	CO Line/Station Ringing Assignments (DAY Immediate)
82	5	CO Line/Station Ringing Assignments (DAY 12-Second Delay)
83	5	CO/Line/Station Ringing Assignments (DAY 24-Second Delay)
84	5	CO/Line/Station Ringing Assignments (DAY 2 Immediate)

Table 6 Strata DK Program Security (continued)

Strata DK Program	Security Level	Program Title
85	5	CO/Line/Station Ringing Assignments (DAY 2 12-Second Delay)
86	5	CO/Line/Station Ringing Assignments (DAY 2 24-Second Delay)
87	5	CO/Line/Station Ringing Assignments (NIGHT Immediate)
88	5	CO/Line/Station Ringing Assignments (NIGHT 12-Second Delay)
89	5	CO/Line/Station Ringing Assignments (NIGHT 24-Second Delay)
90	8	Initializing Program 00~*99
91-1	8	Automatic PCB Recognition/Port Renumber
91-2	8	System Power Off/On Simulation
91-9	8	System Initialization
92-1	8	Initialize Station Speed Dial Numbers & Memos, VM ID Codes
92-2	8	Initialize System Speed Dial Numbers & Memos
92-3	8	Initialize Station & System User Name/Number Display
92-4	8	Initialize Timed Reminders
92-5	8	Initialize Phone/Ring Vol., Tone/BGM, Busy Override, etc.
92-9	8	Initialize Call Forward Memory
93	5	CO Line Identification
97	5	Printing Program Through SMDR

Directory Number Administration

Note This option cannot be used by Strata DK Release 2 or below.

► To maintain your directory number assignments for both your PDNs and PhDNs

1. Press **r** and the Directory Number Administration screen displays (shown right).

This screen enables you to assign and change PDN and PhDN user names, call forward ID codes and message waiting ID codes. You can also assign or edit DNIS detail features such as immediate ring, key numbers and delays.

P F	Port No.	PDN/ PhDN No.	PDN/ PhDN Owner	User Name	PhDN Owner	Voice Mail Call Forward ID Code
P	000	200			N/A	
P	001	201			N/A	
P	002	202			N/A	
P	003	203			N/A	
P	004	204			N/A	
P	005	205			N/A	
P	006	206			N/A	
P	007	207			N/A	
P	008	208			N/A	
P	009	209			N/A	
P	010	210			N/A	
P	011	211			N/A	
P	012	212			N/A	
P	013	213			N/A	

F1-Help F2-PDN/PhDN Detail F9-Save & Upload F10-Save Programs Esc-Exit
P=Primary DN, F=Phantom DN

Note The first column on the screen displays a P for a PDN and an F for PhDN.

2. Highlight the PDN/PhDN No. field of the desired port number.

Note You can also use the Find feature by moving the highlighter to the Port No. field, and typing a port number.

3. Type a [PDN] or [PhDN], and press **Enter**. If there is a DN/Port conflict with the entered number, an error message displays: **Conflict Found in Int./DN Numbering**. If this message appears, retype the number and press **Enter**.

...or

to change the PDN/PhDN numbers for a range of ports, highlight the PDN/PhDN No. field and press **F5**. A pop-up box displays.

- ♦ Type the desired starting [DN] number for your PDN ports (000-079) and press **Enter**.
- ♦ Type the desired starting [DN] number for your PhDN ports (500-579) and press **Enter**.
- ♦ A message displays: **This operation will modify DN numbers. Go ahead?**
Press **Enter** to change all the PDNs/PhDNs or press **Esc** to leave the screen without making the change.

4. Highlight the PDN/PhDN Owner User Name field and enter the name assigned to the station (up to 16 characters).
5. Highlight the Voice Mail Call Forward ID Code field and type an applicable call forward ID code (up to 16 characters). Press **Enter**.

...or

to change the range of numbers used for all the ports, press **F5**. A pop-up box displays, enabling you to specify a range of numbers.

- ✦ Type the desired range of Port Reference Numbers for the PDNs (000 ~ 079).
- ✦ Type the desired range of Port Reference Numbers for the PhDNs (500 ~ 579).
- ✦ Type a Voice Mail CF Prefix (up to four characters) and press **Enter**. A message displays: **All ports will be reset to default values. Go ahead?**

Press **Enter** to set/change all Call Forward IDs.

6. Highlight the Voice Mail Message Waiting ID Code field and enter an applicable message waiting ID code (up to 16 characters)

...or

to change the range of numbers used for all your ports, press **F5**. A pop-up box displays, enabling you to specify a range of numbers.

- ✦ Type the desired Port Reference Number for the PDNs (000 ~ 079).
- ✦ Type the desired Port Reference Number for the PhDNs (500-579).
- ✦ Type a Voice Mail MW Prefix (up to four characters) and press **Enter**. A message displays: **All ports will be reset to default values. Go ahead?**

Press **Enter** to set/change all Message Waiting IDs.

7. Press **F9** to save the entries and upload the data to the DK, or **F10** to save the assignments and return to the Main Menu.

➤ **To set or change detailed information for the PDNs/PhDNs**

1. From the Directory Number Administration screen, highlight the DN you wish to edit and press **F2**. The Directory Number Administration screen for the selected DN number displays.

This screen (shown right) enables you to turn on or off an immediate ring, or a 12- or 24-second delay ring. You can also access your ringing lines and flexible keys from this screen.

Port No.	DN No.	DN Type	200-1 Key	200-2 Key	200-3 Key	200-4 Key	Imm. Ring	12s Dly	24s Dly
000	200	Pri	K01				✓		
001	201	None							
002	202	None							
003	203	None							
004	204	None							
005	205	None							
006	206	None							
007	207	None							
008	208	None							
009	209	None							
010	210	None							
011	211	None							
012	212	None							
013	213	None							
014	214	None							

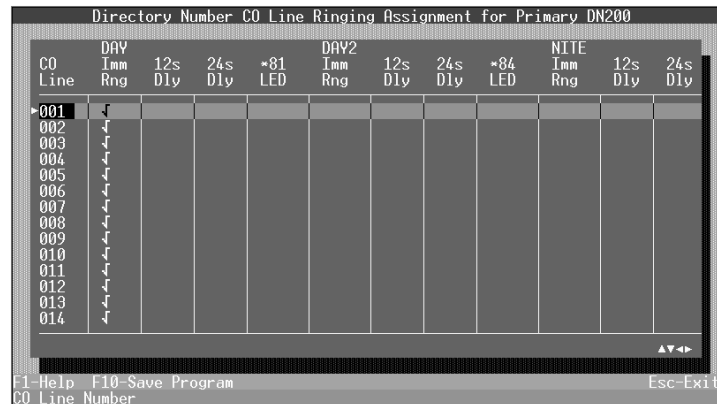
2. Highlight the Imm. Ring field for the desired DN. The spacebar toggles the field between enabled and disabled. When the field is enabled a check mark is displayed in the field.
3. Highlight the 12s Dly field for the desired DN. The spacebar toggles the field between enabled and disabled. When the field is enabled a check mark is displayed in the field and a 12-second delay before ringing occurs.

- Highlight the 24s Dly field for the desired DN. The spacebar toggles the field between enabled and disabled. When the field is enabled a check mark is displayed in the field and a 24-second delay before ringing occurs.

Note You cannot enable both the 12s Dly field and the 24s Dly field. Enabling either field, automatically disables the other.

► **To specify your ringing options**

- From the Directory Number Administration for Primary DN XXX screen, highlight the desired DN number and press **F2**. The Directory Number CO Line Ringing Assignment screen for the selected DN displays (shown right).



For each of your CO lines, you can set/

change the following options for your day, day 2 and night operations:

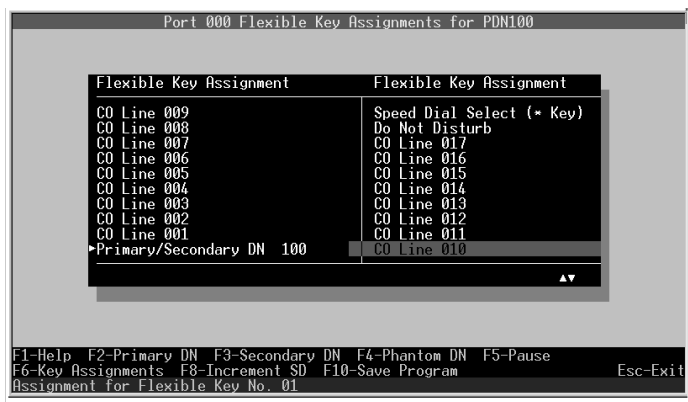
- ♦ Immediate ring
 - ♦ 12- or 24-second ring delay
 - ♦ Specified DN LED to flash during a ring.
- Highlight the DAY Imm. Ring field for the desired CO Line. The spacebar toggles the field between enabled and disabled. When the field is enabled a check mark is displayed in the field and DAY immediate ring occurs.
 - Highlight the 12s Dly field for the desired CO line. The spacebar toggles the field between enabled and disabled. When the field is enabled a checkmark is displayed in the field and a 12-second delay before ringing occurs.
 - Highlight the 24s Dly field for the desired CO line. The spacebar toggles the field between enabled and disabled. When the field is enabled a checkmark is displayed in the field and a 24-second delay before ringing occurs.

Note You cannot enable both the 12s Dly field and the 24s Dly field. Enabling either field, automatically disables the other.

- Highlight the *81 LED field and press **F6** or **Enter**. A pop-up box displays with your available choices. Highlight the [DN] LED you want to flash during a day ring and press **Enter**.
- Highlight the DAY2 Imm Rng and NITE Imm Rng fields and repeat Steps 2 ~ 5.
- Press **F10** to save you entries and return to the Directory Number Administration screen.

► To set/change CO Line flexible key assignments

1. From the Directory Number for Primary DN XXX screen, highlight a [DN] and press **F5**. The Flexible Key Assignments screen for the selected Port/DN displays (shown right).



2. Highlight the desired Flexible Key Assignment and:

- ✦ Press **F2** to change the assignment from a CO line to the PDN.
- ✦ Press **F3** to change the assignment to the SDN. A pop-up dialog box displays. Type the [PDN]/[SDN] (0000 ~ 9999) you wish to assign and press **Enter**.
- ✦ Press **F4** to change the assignment to a PhDN. A pop-up dialog box displays. Type the [PhDN] (0000 ~ 9999) you wish to assign and press **Enter**.
- ✦ Press **F5** to deactivate or blank out a key assignment.
- ✦ Press **F6** to display a pop-up dialog box showing the available key assignments. Highlight the desired assignment and press **Enter**.
- ✦ Press **F8** to add multiple speed dial key assignments.

Important! *You can only use this key when you are assigning more than one speed dial key at a time. If you have not just added a speed dial key assignment, the message **Must Assign System/Station Speed Dial First** displays.*

*If you leave the cursor in the same field and continue to press **F8**, the speed dial key number increments. To add consecutive speed dial key assignments, you must continue to highlight the next field before pressing **F8**.*

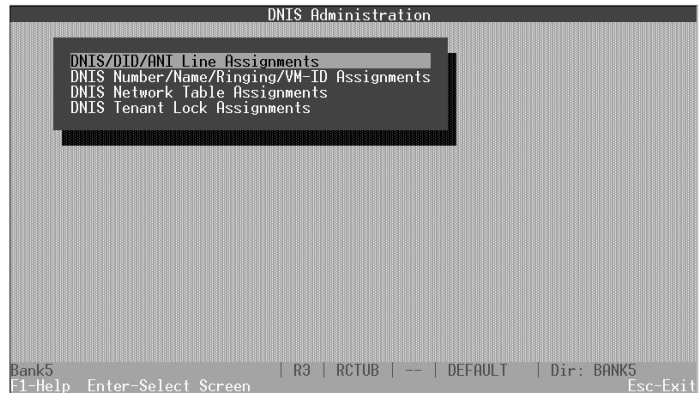
3. Press **F10** to save the entries and return to the Directory Number Administration (detail) screen.
4. Press **F10** to save your programs and return to the main Directory Number Administration screen.
5. Press **F9** to save the entries and upload the data to the Strata DK, or **F10** to save the assignments and return to the Main Menu.

DNIS Administration

Note This option cannot be used by Strata DK Release 2 or below.

This option enables you to maintain assignments for your DNIS/DID/ANI lines, change or add number/name/ringing/voice mail ID assignments, or network tables and tenant locks specifications.

- **To access the option**
 - Type **n**. The DNIS Administration screen displays (shown right).



DNIS/DID/ANI Line Assignments

- **To set/change your DNIS/DID/ANI line assignments**

1. Press **Enter** and the DNIS/DID/ANI Line Assignments screen displays.

This screen (shown right) enables you to set/change options for the following items:

- ✦ Use of page and voice announcements on an incoming tie line
- ✦ Tie/DID wink start status
- ✦ DID line camp-on status
- ✦ Second dial tone status
- ✦ Specify DNIS or DID line
- ✦ Specify ANI or DNIS priority
- ✦ Support (or not) ANI features
- ✦ Use (or not) ANI feature * key

TIE/DID	TIE Line Voice & Page	TIE/DID Wink/Immed	DID Line Camp On Busy	DID/TIE Line Second Dial Tone
001	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
002	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
003	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
004	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
005	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
006	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
007	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
008	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
009	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
010	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
011	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
012	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
013	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
014	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone
015	No Page & Voice	Immediate	Auto Camp-On	No Second Dial Tone

F1-Help F10-Save Program TIE/DID Line Number Esc-Exit

2. Highlight the field of the tie/DID line with which you wish to work.

Note Each field has only two selections. Use the spacebar or +/- keys to toggle between them.

<u>Field</u>	<u>Selection</u>
Tie Line	Page & Voice/No Page & Voice
Voice & Page	
Tie/DID	Immediate/Wink Start
Wind/Immed	
DID Line	Auto Camp-on/No Camp-on
Camp On Busy	
DID/Tie Line	Second Tone/No Second Tone
Second Dial Line	

- Repeat Step 2 for each tie/DID line you wish to set/change.
- Press **F10** to save your entries and return to the DNIS Administration screen.

DNIS Number/Name/Ringing/VM-ID Assignments

► To set/change the DNIS address reference numbers

- Highlight the DNIS Number/Name/Ringing/VM-ID Assignments option and press **Enter**. The DNIS Number/Name/Ringing/VM-ID Assignments screen displays (shown below).

The following items for each of the DNIS address reference numbers can be set/changed:

- ♦ DNIS number
- ♦ DNIS name
- ♦ Day ringing point
- ♦ Day 2 ringing point
- ♦ Night ringing point
- ♦ DNIS Voice Mail ID number

Note To blank out any entry in these fields, highlight the field and press **F4**.

DNIS Ref.	DNIS No.	DNIS Name	DAY Ring	DAY2 Ring	NIGHT Ring	DNIS Voice Mail ID Number
000						
001						
002						
003						
004						
005						
006						
007						
008						
009						
010						
011						
012						
013						
014						

F1-Help F4-Blank Assignment F10-Save Program Esc-Exit
DNIS Address Reference Number

- Highlight the DNIS No. field of the DNIS address with which you wish to work.
- Enter the DNIS number, using 2 ~ 5 characters

...or

to enter a range for all your DNIS addresses, press **F5**. A pop-up dialog box displays. Type the DNIS address range in the From and To fields and a starting DNIS number. Press **Enter**.

- Highlight the DNIS Name field and type a DNIS name, using up to 16 characters. Press **Enter**.

5. Highlight the DAY Ring field and enter the desired DAY ringing point.
 - ✦ Press **F2** to review the Ringing Point Identification codes.
 - ✦ Press **F6** to select a ringing point. Highlight the ringing point you wish to assign and press **Enter**.
6. Highlight the DAY2 Ring field and repeat Step 5.
7. Highlight the NIGHT Ring field and repeat Step 5.
8. Highlight the DNIS Voice Mail ID Number field and type a DNIS Voice Mail ID Number, using up to 16 characters and press **Enter**

...or

to enter a range for all your DNIS addresses, press **F5**. A pop-up dialog box displays. Type the starting voice mail ID number and press **Enter**. A message displays:

All ports will be reset to default values. Go ahead?

9. Press **Enter** to reset the default values or **Esc** to exit without resetting.
10. Press **F10** to save your entries and return to the DNIS Administration screen.

DNIS Network Table Assignments

► To set/change CO line access codes and network telephone numbers

1. Select the DNIS Network Table Assignments option and press **Enter**. The DNIS Network Table Assignments screen displays.

This screen (shown right) enables you to set/change CO line access codes and network telephone numbers so that DNIS calls can be routed externally over the public telephone network.



2. Highlight the CO Line Access Code and Network Telephone Number field for the DNIS Network Table Reference number with which you wish to work.
3. Type the CO line access code and network telephone number, using up to 27 digits and press **Enter**. To remove an entry, with the field highlighted, press **F4**.
4. Press **F10** to save your entries and return to the DNIS Administration screen.

DNIS Tenant Lock Assignments

► To set/change passwords for station port numbers

1. Select the DNIS Tenant Lock Assignments option and press **Enter**. The DNIS Tenant Night Lock Assignments screen displays.

This screen (shown right) enables you to set/change passwords for station port numbers for each of your DNIS tenant night numbers.

Tenant Number	Current Password	Set Password Station Port
1		000
2		000
3		000
4		000

2. Highlight the Current Password field of the Tenant number with which you wish to work.
3. Type the password, using up to four digits and press **Enter**.
4. Highlight the Set Password Station Port field and type the set password station port number (1 ~ 3 digits) and press **Enter**.
5. Press **F10** to save your entries and return to the DNIS Administration screen.
6. Press **Esc** to return to the Main Menu. Your files are saved and a message displayed:
Upload modified programs to DK now?
7. Press **Enter** to return to the Main Menu without uploading the information or highlight **Yes** and press **Enter** to upload the files.

Distributed Hunt Group Administration

Note This option cannot be used by Strata DK Release 3 or below.

► To maintain your distributed hunt group assignments (up to 32)

1. Type **h**. The Distributed Hunt Group Primary Directory Number Hunt-To Assignments screen displays (shown right).
2. Highlight the DH Group DN No. field of the Distributed Hunt Group number with which you wish to work.

DH Group Ref. No.	DH Group DN No.	Hunt PDN 01	Hunt PDN 02	Hunt PDN 03	Hunt PDN 04	Hunt PDN 05
01 (900)	850					
02 (901)	851					
03 (902)	852					
04 (903)	853					
05 (904)	854					
06 (905)	855					
07 (906)	856					
08 (907)	857					
09 (908)	858					
10 (909)	859					
11 (910)	860					
12 (911)	861					
13 (912)	862					
14 (913)	863					

3. Type a DH Group [DN] (up to four digits) and press **Enter**. If the entered number conflicts with a DN/Port already assigned, an error message displays.
 4. Highlight the Hunt PDN 01 field. Type the hunt [PDN] number and press **Enter**
...or
press **F6** to select the number from a table. Highlight the desired number and press **Enter**.
 5. Repeat Step 4 for each Hunt PDN field.
- Note** The Hunt PDN fields scroll once you reach the far right column. You can continue to access Hunt PDNs using the right arrow key.
6. Press **F9** to save the entries and upload the data to the DK, or **F10** to save the assignments and return to the Main Menu.

- **To display and update your DNIS/DID Ringing assignments for a hunt group**
 - Press **F2** and the DNIS/DID Line Ringing Assignments screen displays. See “To specify your ringing options” on Page 87 for procedures on working with this screen.
- **To display and update your CO Line Ringing assignments for a hunt group**
 - Press **F3** and the CO Line Ringing Assignments screen displays. See “To specify your ringing options” on Page 87 for procedures on working with this screen.

Call Forward Assignments

Note This option cannot be used by Strata DK Release 2 or below.

➤ To set/change the call forward assignments

1. Type **w**. The System Directory Number Call Forward Assignments screen displays (shown right).
2. Highlight the Upload field for the desired port number. To select a port number assignment for uploading to the DK, press the spacebar. A check mark (✓) displays next to the port number. To de-select the item for upload, press the spacebar again.
3. Highlight the Call Forward To DN field and type the [DN] to call forward to and press **Enter**
...or
press **F6** to select the [DN] from a table. Highlight the desired number and press **Enter**.

System Directory Number Call Forward Assignments					
Upload	Port No.	Call Forward From DN	Call Forward To DN	Call Forward Type	Call Forward Timer
	000	200			
	001	201			
	002	202			
	003	203			
	004	204			
	005	205			
	006	206			
	007	207			
	008	208			
	009	209			
	010	210			
	011	211			
	012	212			
	013	213			

F1-Help F2-Pull From DK F4-Cancel Call Forward Assignment
F8-Save & Upload Changes F9-Save & Upload All F10-Save Program Esc-Exit
Port Number

4. Highlight the next Call Forward Type field. A default value (All, Busy, No Answer, Busy/No Answer) is entered in this field based on your selection in Step 3. To change the assignment, press **+ /-** to toggle the selections and press **Enter**.
5. Highlight the Call Forward Timer field. A default value is entered in this field based on your selection in Step 3. To change the assignment, type the number of seconds (08-60) you wish to apply before the call forward executes for “No Answer” or “Busy/No Answer” conditions. Press **Enter**.
6. Press **F4** to cancel a call forward assignment for a port.
7. Press **F8** to save the entries and upload the selected data to the Strata DK, or **F9** to save the entries and upload all the data to the Strata DK, or **F10** to save the assignments and return to the Main Menu.

Important! *If CF is set for a PDN using DKAdmin, the CF Button does not light unless the Strata DK power is turned off (five seconds) and then on.*

➤ **To use the Strata DK’s program files to edit**

1. Press **F2** and the DK Code dialog box displays.
2. Type the DK Code: XXXX, where XXXX is the Strata DK level 1 security code set in Program 00. The DK System Program File screen displays.

Note If the **Problem: Unable to Establish Communications** screen displays, follow the troubleshooting steps on the screen and/or refer to Appendix A to correct the problem.

3. Press **F2** to select (tag) all Program No. (data) files.
4. Highlight **YES** and press **Enter**. DKAdmin establishes communications to the Strata DK, turns on LED 10 in Program 77-1, and receives data blocks. This information displays on the PC screen as it occurs.
5. Follow [Step 2 ~ Step 4](#) of “[To edit ACD programs](#)” on [Page 70](#).

Note For more information on downloading DK information, refer to the procedures in [Chapter 7 – Backup Menu \(DKBackup\)](#).

E911/CAMA Trunk Programs (R4 Only)

Note Programs *11~*13 cannot be used by Strata DK Release 3 or earlier.

The E911/CAMA Trunk Programs option in the Administration Menu enables you to maintain E911 and Centralized Automatic Message Accounting (CAMA) trunk programs.

Program *10 provides two assignable RSTU, KSTU2, RDSU, PSTU, or PESU ports to interface with Central Office (CO) E911 trunks. This program is only used when CAMA trunks are connected to an E911 adjunct interface box, not when using Toshiba RMCU/RCMS CAMA trunks.

E911 enhanced operation provides locator information (i.e., more complete name and address information, including building, floor, etc.) to the responding agency. This is done by sending the station number of the 911 caller to the E911 emergency center. This locator information is then cross-referenced with name/number/address data in the E911 central database, and the E911 operator receives the precise location along with the basic information.

The Strata DK16e and DK424 accomplishes this with a special interface between the KSU and the CO. This special interface takes the station number information and sends it through the public network in a format compatible with the central E911 database. This special interface is required in addition to sending software within the Strata DK16e and DK424. The required interface is an external device (Telident or Proctor) that interfaces with up to two analog station ports.

Programs *10-11 and *10-12 assign which RSTU, KSTU2, RDSU, PSTU, or PESU standard telephone ports are connected to the E911 interface unit. Program 04 Directory Number data must be blank for E911 RSTU-KSTU2 ports.

Program *10-91 assigns the time allowed to dial each digit after dialing 9 when using the E911 feature. This time will affect the time that LCR or CO Line dial tone is returned when dialing 9. However, a user can dial a 9+ (non-911) calls normally before receiving LCR or CO line dial tone and the DK will route the call appropriately.

Program *10-92 assigns the time the DK will wait before sending the Station [PDN] to the E911 SLT port after the E911 SLT port answers.

► To access E911/CAMA Trunk Programs using RMCU/RCMS CAMA trunks

- From the Administration Menu, type **9**. The E911/CAMA Trunk Programs screen displays (shown right).

E911/CAMA Trunk Programs	
Program No.	Program Title
J *10	Enhanced 911 SLT Ports & Timer (Adjunct Only)
J *11-0	CAMA Trunk Assignments (R4)
J *11-1	CAMA Trunk Group Line Assignments (R4)
J *11-2	CAMA Trunk Group Hunting Assignments (R4)
J *11-5	CAMA Digit Sent on 911 Calls (R4)
J *11-6	E911 Interdigital Timer (R4)
J *11-8	911 Special [DN] Notification Assignments (R4)
J *12	ANI Station Information (R4)
J *13	Station Group Information (R4)

FIND: ▲▼

ABC Company | R4 | RCTUE/F | -- | DEFAULT | Dir: ABC
 F1-Help F2-Pull from DK F3-Edit Program F5-Notes Esc-Exit
 Program Number (J Indicates Password Authorization to Modify Program)

► To edit E911/CAMA trunk programs

1. Highlight the program number and press **F3**. The Edit Program screen displays. The screen varies, depending upon the program selected.

Note You can also use the Find function to quickly move to a program by typing the first digit of the program number. DKAdmin highlights the first program number matching the entry.

2. Highlight the field you wish to change and enter the information. Read only fields do not accept entries.
3. Press **F9** to save the entries and upload the data to the DK, or **F10** to save the E911/CAMA trunk assignments and return to the E911/CAMA Trunk Programs screen.

Important! *The DKAdmin PC must be connected to the Strata DK to upload any changes to this data (see [Appendix A – Connecting to Strata DK](#) for procedures on connecting the DKAdmin PC to a Strata DK).*

4. Press the **Esc** key to close the E911/CAMA Trunk Programs screen and return to the Administration Menu.

► **To use the Strata DK's program files to edit**

1. Press **F2** and the DK Code dialog box displays.
2. Type the DK Code: XXXX, where XXXX is the DK level 1 security code set in Program 00. The DK System Program File screen displays.

Note If the **Problem: Unable to Establish Communications** screen displays, follow the troubleshooting steps on the screen and/or refer to [Appendix A – Connecting to Strata DK](#) to correct the problem.

3. Press **F2** to select (tag) all Program No. (data) files.
4. Highlight **Yes** and press **Enter**. DKAdmin establishes communications to the Strata DK, turns on LED 10 in Program 77-1, and receives data blocks. This information displays on the PC screen as it occurs.
5. Follow [Step 2 ~ Step 4](#) of “[To edit E911/CAMA trunk programs](#)” above.

► **To view notes on a program**

- Highlight the program and press **F5**.

Note You can also use the Find function to move quickly to a program by typing the first one or two digits of the program number. The program highlights the first program number matching your entry.

- ♦ Use the **Up/Down** arrow keys to scroll the description.
- ♦ Press **F10** to print the description.
- ♦ Press **Esc** to return to the E911/CAMA Trunk Programs screen.

ISDN Programs (R4 Only)

Note This option cannot be used by Strata DK Release 3 or earlier.

The Integrated Services Digital Network (ISDN) Programs option in the Administration Menu enables you to maintain ISDN programs.

Release 4.0 provides the Primary Rate Interface (PRI) ISDN capabilities. Release 4.1/4.2 will introduce the ISDN Basic Rate Interface (BRI). PRI features apply to the following Release 4 processors: RCTUBA3/BB4, RCTUC3/D4, and RCTUE3/F4. Like T1, ISDN PRI is not supported on the RCTUA4 small system processor.

► To access ISDN Programs

- From the Administration Menu, type **i**. The ISDN Programs screen displays (shown right).

ISDN Programs	
Program No.	Program Title
▶ J *10-4	ACD Parameters (R4)
J *16	ISDN Trunk Group Type Assignment (R4)
J *42-1-2	Primary & Secondary Clock Source Reference Assignments
J *43-1-3	'D' Channel Control and MFAS Assignment (R4)
J *44	BRI SPID Parameters (R4)
J *60	BRI Assignment for Line/Station Operation (R4)
J *61-1	ISDN Station Bearer Service (R4)
J *61-2	ISDN Station Outgoing Call Pad Level (R4)
J *61-3	ISDN Station Incoming Call Pad Level (R4)
J *62-1	Non-ISDN Station Bearer Service (R4)
J *62-2	Non-ISDN Station Outgoing Call Pad Level (R4)
J *62-3	Non-ISDN Station Incoming Call Pad Level (R4)
J *63	ISDN Dialing Parameters (R4)
J *64-1	Direct Inward Dialing Parameters (R4)
J *64-2	Direct Inward Dialing Parameters (R4)

FIND: ▲▼

ABC Company | R4 | RCTUE/F | -- | DEFAULT | Dir: ABC
 F1-Help F2-Pull from DK F3-Edit Program F5-Notes Esc-Exit
 Program Number (J Indicates Password Authorization to Modify Program)

► To edit ISDN programs

1. Highlight the program number and press **F3**. The Edit Program screen displays. The screen varies, depending upon the program selected.

Note You can also use the Find function to quickly move to a program by typing the first digit of the program number. DKAdmin highlights the first program number matching the entry.

2. Highlight the field you wish to change and enter the information. Read only fields do not accept entries.
3. Press **F9** to save the entries and upload the data to the DK, or **F10** to save the ISDN assignments and return to the ISDN Programs screen.

Important! *The DKAdmin PC must be connected to the Strata DK to upload any changes to this data (see [Appendix A – Connecting to Strata DK for procedures on connecting the DKAdmin PC to a Strata DK](#)).*

4. Press the **Esc** key to close the ISDN Programs screen and return to the Administration Menu.

► To use the Strata DK's program files to edit

1. Press **F2** and the DK Code dialog box displays.
2. Type the DK Code: XXXX, where XXXX is the DK level 1 security code set in Program 00. The DK System Program File screen displays.

Note If the **Problem: Unable to Establish Communications** screen displays, follow the troubleshooting steps on the screen and/or refer to [Appendix A – Connecting to Strata DK](#) to correct the problem.

3. Press **F2** to select (tag) all Program No. (data) files.
4. Highlight **Yes** and press **Enter**. DKAdmin establishes communications to the Strata DK, turns on LED 10 in Program 77-1, and receives data blocks. This information displays on the PC screen as it occurs.
5. Follow [Step 2 ~ Step 4](#) of “[To edit ISDN programs](#)” on [Page 97](#).

➤ **To view notes on a program**

- Highlight the program and press **F5**.

Note You can also use the Find function to move quickly to a program by typing the first one or two digits of the program number. The program highlights the first program number matching your entry.

- ✦ Use the **Up/Down** arrow keys to scroll the description.
- ✦ Press **F10** to print the description.
- ✦ Press **Esc** to return to the ISDN Programs screen.

Backup/Restore Data

For the Backup/Restore Data option, see “[Backup Data](#)” on [Page 100](#) and see “[Restore Data](#)” on [Page 102](#).

View/Print Data

For the View/Print Data option, see “[View/Print Data](#)” on [Page 115](#).

Note The Backup Menu is only available in the DKBackup program. The Check Processor Type, Backup/Restore Data, and View/Print Data appear in both the DKBackup Backup Menu and the DKAdmin Administration Menu. These functions are identical (e.g., screens, operations, commands, etc.) whether you use DKAdmin or DKBackup.

DKAdmin/DKBackup makes backing up and restoring Strata DK programs quick and easy and saves valuable time and labor when upgrading Strata DK software. You may use this function to:

- ♦ Download all customer data from a programmed Strata DK to the DKAdmin/DKBackup PC.
- ♦ Upload and restore an updated customer database from the DKAdmin/DKBackup PC to your customer's Strata DK.
- ♦ Upgrade data from a Strata DK processor to a new higher level processor.
- ♦ View/print customer program ASCII files.

Notes

- When you create a new customer record using the Maintain Customer File option, DKAdmin/DKBackup creates a new PC disk directory, XXX.DK, and places the specified files into this directory.

XXX = the customer directory which is named when creating a new customer, using the Maintain Customer File option in the File Menu.

The .DK extension is automatically added by DKAdmin/DKBackup when creating the directory in DOS.

- The Strata DK programming telephone (station 205 or 213) cannot be in the programming mode when backing up or restoring Strata DK program files.
- Anytime PRGALL is restored to a Strata DK, system power must be turned OFF (3 seconds) and then ON. This is required to make Programs 03, *29, 39, 59, and *41~2 take effect in Strata DK Release 2. It is only required for Programs 03, 76-1, *41-2, and *50 in Strata DK Release 3~Release 4.
- Do not use Backup Data (**F3**) or Restore Data (**F4**) to upgrade processors.
- When upgrading processors, Primary, Phantom, and Distributed Hunt Group default [DNs] that are not on the original processor are blanked out on the new processor to prevent [DN] conflicts. This includes default data in Programs 04, *04, *09, and 71-0.

Check Processor Type

► To check processor type

1. Select a customer using the Select Customer option in the File Menu.
2. From the Administration Menu/Backup Menu, press **c** to display a pop-up dialog box.
3. Enter the four-digit DK Code. The default is 0000. This is the “first level password” which is set in the Strata DK Program 00. The code does not display as you type it.
4. DKAdmin/DKBackup pulls Program 00 and displays the processor type, ROM/Flash version and release numbers, along with the same information of the selected customer database. Verify that the displayed information is the same as the processor installed in the DK system.

Notes

- If the PC and Strata DK do not communicate, the Problem: Unable to Establish Communications screen appears. Follow the instructions on the screen and/or see [Appendix A – Connecting to Strata DK](#) to correct the problem.
- Make sure the programming telephone (station 205 or 213) is not in the programming mode.

Backup Data

► Prior to backing up

1. Select a customer using the Select Customer option in the File Menu.

Note Before you can select the customer, you must use the Maintain Customer File option to create a customer.

2. Establish a communications path between the PC (running DKAdmin/DKBackup) and the Strata DK using the Dial DK option or by making a direct connection to the Strata DK (see [Appendix A – Connecting to Strata DK](#)).
3. After connecting the DKAdmin/DKBackup PC to the Strata DK, select the Administration Menu/Backup Menu and run the Check Processor Type option to verify that the customer file format is the same as the installed Strata DK processor. When checking the processor, you must enter the DK code programmed on the installed processor.

Important! *Make sure the processor type, ROM/Flash release number (1~4) are the same as the customer database you are backing up. Release 3 and 4.X are considered the same for backing up and restoring databases.*

If the Problem: Unable to Establish Communications screen displays, follow the steps on the screen and/or see [Appendix A – Connecting to Strata DK](#) to correct the problem.

► To back up (download) a customer’s database

1. After checking the processor type, select the Administration Menu/Backup Menu and type **b**. The DK Code dialog displays.
2. Enter the four-digit DK Code (if prompted to do so).

Important! *You must enter the code that is programmed on the installed processor.*

The DK System Program File screen displays listing the available data for backup (see screen in Step 3). For security, this code does not display on screen as you type it. The default code is 0000. This is the “1st level password” which is set in the Strata DK Program 00 (see the record sheet for Program 00 in the *Strata DK Programming Manual*).

Note If the Problem: Unable to Establish Communications screen displays, follow the troubleshooting steps on the screen and/or see [Appendix A – Connecting to Strata DK](#) to correct the problem.

- Highlight the program file you wish to back up (download) and press the spacebar to tag (checkmark) the program file (shown below). Repeat this step for as many program files as you wish to back up. Press **F2** to tag all program files (see Note “The DK System Program File...” on [Page 102](#)).

DK System Program File		
✓	Program No.	Program Title
	PRGALL	All System Programs
	REPALL	All Station and System Speed Dial Numbers
	NAMEALL	All User Names
	VIDALL	All Voice Mail ID Codes (#656)
	MIDALL	All Voice Mail Message Waiting Codes (#657)
	ADMEMOAL	All Station and System Speed Dial Memos
	MSGALL	All Station and System LCD Messages
	CFALL	Directory Number Call Forwarding settings (R3)
	MWALL	Message Waiting Lamp settings (R3)
	CLID	Caller ID/ANI Lost Call telephone numbers (R3)
F1-Help SPACE-(Un)Tag F2-(Un)Tag All F3-Backup F4-Restore F5-Upgrade Esc-Exit		
Select If Marked		

- After selecting the programs, press **F3**. The screen prompts with the message “**You will receive data from the DK. Are you sure?**”
- Highlight **Yes** and press **Enter**.
- DKAdmin/DKBackup prompts you to enter the DK Code again. When the correct code is entered, DKAdmin/DKBackup turns on LED10 in Program 77-1 and then downloads all files selected in [Step 3](#). The screen displays **Download Complete** when finished.
- Press **Esc** twice and select the next desired function.

Notes

- When you back up PRGALL, the DK security code set in the DKAdmin/DKBackup customer database, is not sent to the processor. You must always enter the DK security code that is actually programmed on the processor installed in the Strata DK. You can change the DK security code using the DKAdmin Program Administration Section option or manually using the programming telephone.
- Access to the DK Code should be considered highly confidential and only given to those individuals with the security level which enables them to program or update DK data. If changing the Strata DK Program 00 Passwords, always change both Level 1 and 2 for security. DKAdmin/DKBackup checks both codes and runs with either code.

- The DK System Program File list is displayed (see [Step 3 on Page 101](#)). If this screen does not display, the DKAdmin/DKBackup PC and the Strata DK are not communicating. See [Appendix A – Connecting to Strata DK](#) for procedures to connect the PC COM port to the Strata DK PIOU, RSSU, RSIS, RSIU, or PIOUS TTY port, or IMDU or RMDS modems.

Important! *If the PC screen does not display prompts such as **Turning on LED 10, Program 77-1, XXX:LOGGING IN**, etc., the PC and Strata DK are not communicating. When operating properly, DKAdmin/DKBackup logs off and on in between each program file it restores. If a communication failure exists, see [Appendix A – Connecting to Strata DK](#). If the communication path between the PC and Strata DK is broken during Backup or Restore operations, it may be necessary to go in and out of the Program mode from the programming telephone (Station 205); or turn the Strata DK power off and on to resume communications.*

Restore Data

► Prior to restoring data

1. Select a customer using the Select Customer option in the File Menu.

This should be the customer database which has been created or previously backed up using DKAdmin/DKBackup. This customer database must be the same DK Release (e.g., 1, 2, 3, or 4.X) and processor type to which you are restoring data.

Although DK16e is considered Release 1, it contains the Release 3 features of RCTUA3 with the exception of Distributed Hunt.

Note Release 3 data can be restored to Release 3.X data and vice versa.

2. Establish communications between the DKAdmin/DKBackup PC and the Strata DK using the Dial DK option or by making a direct connection (see [Appendix A – Connecting to Strata DK](#)).
3. After connecting to the Strata DK, select the Administration Menu/Backup Menu and run the Check Processor Type option to verify that the customer file format is the same as the installed Strata DK processor.

Important! *Make sure the processor type, ROM/Flash release number is the same as the customer database you are restoring.*

If the Problem: Unable to Establish Communications screen displays, follow the steps on the screen and/or see [Appendix A – Connecting to Strata DK](#) to correct the problem.

► To restore (upload) a customer's database

1. After checking the processor type, select the Administration Menu/Backup Menu and type **b**. The DK Code dialog displays.
2. Enter the four-digit DK Code (if prompted to do so).

Important! *You must enter the code that is programmed on the installed processor.*

For security, this code does not display on screen as you type it. The default code is 0000. This is the “1st level password” which is set in the Strata DK system Program 00 (see the record sheet for Program 00 in the *Strata DK Programming Manual*).

Notes

- When you back up PRGALL, the DK security code, set in the DKBackup customer database, is not sent to the processor. You must always enter the DK security code that is actually programmed on the processor installed in the Strata DK. You can change the DK security code using the DKAdmin Program Administration Section option or manually using the programming telephone.
 - Access to the DK Code should be considered highly confidential and only given to those individuals with the security level which enables them to program or update DK data. If changing the Strata DK Program 00 Passwords, always change both Level 1 and 2 for security. DKAdmin/DKBackup checks both codes and run with either code.
 - After you enter the DK Code, the computer will display the DK System Program File list is displayed (see screen in [Step 3](#) below). If this screen does not display, the DKAdmin/DKBackup PC and the Strata DK are not communicating. See [Appendix A – Connecting to Strata DK](#) to verify that the PC COM port is connected to the Strata DK PIOUS, RSSU, RSIS, RSIU or PIOUS TTY port, or IMDU or RMDS modems.
 - Make sure the programming telephone (station 205 or 213) is not in the programming mode if communications are not established.
3. After entering the DK code, the following screen displays.

DK System Program File	
PRGALL	All System Programs
REPALL	All Station and System Speed Dial Numbers
NAMEALL	All User Names
VIDALL	All Voice Mail ID Codes (#656)
MIDALL	All Voice Mail Message Waiting Codes (#657)
ADMEMOAL	All Station and System Speed Dial Memos
MSGALL	All Station and System LCD Messages
CFAALL	Directory Number Call Forwarding settings (R3)
MWALL	All Message Waiting Settings (R3)
CLID	All Class/ANI Lost Call Number Storage Data (R3)

Note If the PC and Strata DK do not communicate, the Problem: Unable to Establish Communications screen appears. Follow the instructions on the screen and/or see [Appendix A – Connecting to Strata DK](#) to correct the problem.

4. Highlight the program file you wish to restore and press the spacebar to tag (checkmark) the program file. Repeat this step for as many program files as you wish to restore. Press **F2** to tag all files.

CAUTION! Do not restore the PRGALL file while the system is in use. Restoring the file, interrupts service by blanking out [DNs] temporarily.

5. After selecting the files, press **F4**. The pop-up window shown below displays. If you are changing ROMs/Flash Memory or PCBs, follow the instructions on the screens to add or change PCBs and reset the Strata DK communications port.

If you are changing from a PIOUS/PIOUS/RSSU to a RSIU or RSIS, you are able to increase the DKAdmin/DKBackup PC COM port baud rate (for example, from 1200 to 9600).

Important! These messages display

```
Processor Conversion
PLEASE READ THE FOLLOWING SCREENS AS THEY PROVIDE VERY IMPORTANT
INFORMATION REGARDING THE UPGRADE AND INITIALIZATION PROCESSES.

Please turn DK system power off and add/change cabinets, processor ROM or
RMSS memory and/or RCTU PCBs as required.

IMPORTANT: Do not add PCBs, other than RSIU or PIOU in between existing
PCBs at this time as they will make station port and/or CO line numbers
shift causing the upgraded data to be invalid.

The next screen provides step-by-step instructions for initializing the
system.

Press any key to Continue
```

6. Press **Enter** and the following screen displays:

```
Processor Conversion

Step A: After changing the processor, you should initialize the new
processor by running Program 91-9 manually from the Programming
Telephone. Then you must reset the PIOU, PIOUS, RSSU, or RSIU/
RSIS/RMDS TTY port that is connected to DKAdmin PC by performing
Step B and/or C.

Step B: From the Programming Telephone, use Program 03 to set code 41 for
the cabinet slot that contains the new TTY/Maintenance PIOU,
PIOUS, or RSSU PCB and proceed to Step D. If you added an RSIU/
RSIS/RMDS PCB, set code 49 for cabinet slot 11 and proceed to Step
C.

Step C: From the Programming Telephone, use Program 76-1 and 76-2 to set
the RSIU/RSIS/RMDS ports for their appropriate functions and baud
rates. DKAdmin will pull Program 76 and adjust the DKAdmin
customer database accordingly. Make sure the TTY/Maintenance port
settings are correct to insure a successful Upgrade process.
Proceed to Step D.

Step D: Turn DK off (5 sec) then on. From the Programming Telephone, test
the RCTU (R3) RAM by running Program 00-(51,52/61, 62)

Press any key to Continue
```

7. After completing the steps on the screen, press **Enter** (twice) and the Baud Rate Selection screen displays (shown below). This screen enables you to set the DKAdmin/DKBackup PC COM port baud rate which must match the baud rate of the TTY or modem port set by the programming telephone.

Baud Rate Selection	
Please adjust the baud rate of DKBackup PC COM port to match the new PIOU, PIOUS, RSSU or RSIU/RSIS you may have installed.	
Baud Rate	300
9600	1200
	2400
	4800
	9600
	14400
	19200
	38400
	57600

8. Select the DKAdmin/DKBackup PC COM port baud rate and press **Enter**. The information screen below instructs you to pull Program 03 if you changed any PCBs during the Restore process. DKAdmin/DKBackup enables you to pull Program 03 automatically.

Note If you are connected to the customer system, always have DKAdmin/DKBackup pull Program 03 when restoring data. If you are restoring data to an RCTU that is installed in a test system that is not loaded with the same PCBs as the customer database, do not pull Program 03 at this time.

DKAdmin/DKBackup will then download Program 03 and Program 76 to ensure a successful restore process.

Processor Conversion
If you added or changed any PCBs other than the RCTU PCB in the DK system, the customer database will need to be updated to reflect these changes. You can pull Program 03 from the DK to accomplish this.
If you pull Program 03 from the DK, you will override the existing customer database with the DK data.
If you do not pull Program 03 from the DK, the existing customer database will remain intact.
IMPORTANT: If you have upgraded the customer database offline, DO NOT pull Program 03 as it will override your changes.
IMPORTANT: Any time DK14/DK16e/DK40 is upgraded, Program 03 must be pulled so DKAdmin can update the new system's cabinet drawing.
NOTE: If you pull Program 03 from the DK, the DK will be initialized with Program 91-1 automatically. This initialization program identifies the PCBs to the DK.
Press any key to Continue

9. After reading the screen in Step 7, press **Enter**. The screen below displays.

DK System Program File		
✓	Program No.	Program Title
✓	PRGALL	All System Programs
	REPALL	All Station and System Speed Dial Numbers
	NAMEALL	All User Names
	VIDALL	All Voice Mail ID Codes (#656)
<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> Pull Program 03 from DK to Update Customer Database? Yes No </div>		

10. Highlight **Yes** and press **Enter**. You are prompted for the DK Code.
 11. Enter the four-digit DK Code.

Important! *You must enter the code programmed on the installed processor.*

DKAdmin/DKBackup turns on LED10 in Program 77-1 and then displays the message
“You will send data to the DK. Are you sure?”

12. Highlight **Yes** and press **Enter**. You are prompted for the DK Code.
 13. Enter the four-digit DK code.

Important! *You must enter the code programmed on the installed processor.*

DKAdmin/DKBackup begins the Restore process. After restoring data, the message
Upload Complete! displays

Note Before restoring data, DKAdmin/DKBackup pulls some programs (04, *04 and *09) to arrange the data and prevent numbering conflicts.

14. Press **Enter** from the Process Complete screen. The information screen below displays.

You have uploaded program(s) to the DK which require the DK to be powered off for 5 seconds and then on again for the modifications to take effect.

DK280 Release 3 and 4 allows you to perform this task automatically without physically turning the system off. If desired, the system can be shut down manually.

15. Turn the system off (five seconds) and then on, or highlight **Yes** when you are prompted with the message **Perform automatic power OFF/ON simulation?**

16. Press **Enter** from the screen above. DKAdmin/DKBackup runs Program 91-2 and then displays the message **Program 91-2 has been completed. The system has performed a power off/on simulation.**
17. After the above screen displays, press any key. The restore process has been completed. You may use the **Esc** key to exit to the top menu.

Important!

- *If you restore (send) PRGALL to the Strata DK, the DK security code that is programmed on the installed processor is not changed. You may change the DK security code using the DKAdmin Program Administration Section option or manually from the programming telephone.*
- *When uploading Program 35 or PRGALL, DKAdmin will pull MSGALL and ADMEMOAL to update any changes in Program 35, LED 05.*

Upgrade

Upgrading a Customer's Processor

See [“Maintain Customer File”](#) on [Page 36](#) for information on upgrading a customer's processor.

Strata DK Processor PCB Upgrade

You can upgrade processors and keep an old database using the Backup/Restore Data option. Upgrades may be made as follows:

- ♦ DK14 to: DK16e, DK40, or any RCTU Release 3 or higher.
- ♦ DK16e, DK40 to: RCTUA3, RCTUA4, RCTUBA3/BB3, RCTUBA3/BB4, RCTUC3/D3, RCTUC3/D4, RCTUE3/F3, or RCTUE3/F4.
- ♦ RCTUA to: RCTUB, RCTUC/D, RCTUE/F, RCTUA3 or RCTUA4.
- ♦ RCTUB or B2 to: RCTUC/D, RCTUE/F, RCTUBA3/BB3, or RCTUBA3/BB4.
- ♦ RCTUC/D2 to: RCTUE/F, RCTUC3/D3 or RCTUC3/D4.
- ♦ RCTUE3/F3 to: RCTUE3/F4

Important! *DK14, DK16e, and DK40, Release 1 software is identical (e.g., features, programs, etc.) to DK280/DK424 RCTUA3 or Release 3.0. You can, therefore, only upgrade DK14, DK16e or DK40 to an RCTU processor with Release 3.0 or higher software. DK14 can be also upgraded to DK16e and DK40. DK16e can interchangeably upload and download with DK40 databases and vice versa.*

Notes

- It is not possible to go from a RCTUC/D to a RCTUA or RCTUB, from a RCTUB to RCTUA, etc., or from Release 4 back to Release 1~Release 3.
- In this procedure, the word “original” describes the existing processor and “new” describes the upgraded processor.

- When upgrading from an RCTU Release 1 or 2 to an RCTU Release 3 or above, DKAdmin/DKBackup automatically converts Program 39 intercom code (000) to the appropriate Primary Directory Number code (##XXX) for each station port.
- When upgrading from DK16e and RCTUA to RCTUB or C/D (all releases), System Speed Dial numbers and buttons (060~099) are upgraded to (660~699).
- When upgrading to an RCTUE/F, station and system speed dial numbers *60~*99, *600~*699, and *10~*39 will be converted to *200~*999 and *100~*139 appropriately.
- When upgrading from RCTUB to RCTUC/D or RCTUE/F (all releases), the Program *09 ACD Port assignments (090~097) are upgraded to (250~257) for RCTUC/D or (870~885) for RCTUE/F.
- When upgrading from RCTU Release 1 or 2 to RCTU Release 3 or above, Program *04 and 71-0 are blanked out to insure that [PhDN], Distributed Hunt [DNs], and DNIS default values do not conflict with existing [DNs] (Program 04) and DID numbers (Program *09). All [DNs] not programmed on the original processor in Programs 04, *04, *09, and 71-0 are also blanked out on the new processor to prevent numbering conflicts.
- When upgrading from RCTUA to RCTUB, RCTUC/D or RCTUE/F (all releases), the RCTUA Program *09 IMDU/RMDS Port 035 is upgraded to Port 085 (RCTUB), Port 245 (RCTUC/D) or Port 340 (RCTUE/F); or, if upgraded from RCTUB to RCTUC/D or RCTUE/F (all releases), Program *09 IMDS/RMDS Port 085 is upgraded to Port 245 (RCTUC/D) or Port 340 (RCTUE/F).

► To upgrade the processor

1. Select the Customer using the Select Customer option in the File Menu.

Notes

- If a customer database does not exist for the processor (original) that you are upgrading from, go to the Maintain Customer File option and create a customer, selecting the “original” processor and the original software release; then answer **Yes** to the question **Backup From DK First** during the upgrade process.
 - Before upgrading, use the Backup option to backup the original processor database to the designated customer so you can go back to the original processor type, if necessary. Then create a new customer for the upgrade database, selecting the original processor release and processor type. The upgrade process converts the original processor database to the new processor database.
2. Establish a connection between the DKAdmin/DKBackup PC and the Strata DK TTY port - the original processor should be installed in the Strata DK.

Important! *On-site upgrades should be completed when the DKAdmin/DKBackup PC COM port is connected directly to the Strata DK (per [Appendix A – Connecting to Strata DK, Figure A-1](#)), not while the system is in use or through modems. However, you can backup the customer database remotely via modems and then upgrade the database to another RCTU in your office. After the RCTU is upgraded in your office, you can install it in the customer’s DK.*

3. After making a direct connection between the DKAdmin/DKBackup PC and the DK, use the Check Processor Type option under the Administration Menu/Backup Menu to verify that the installed (original) processor is the same type and software release as the selected customer file.

Important! *When checking the processor type, you must enter the DK security code that is programmed on the processor you are checking.*

If the following message displays: **Problem: Unable to Establish Communications**, follow the steps on the screen and/or refer to [Appendix A – Connecting to Strata DK](#) to correct the problem.

4. From the Administration Menu/Backup Menu, type **b**. The DK Code dialog box displays.
5. Enter the four-digit DK Code that is programmed on the installed processor. The DK System Program File screen displays as shown below. For security, this code does not display on screen as you type it. The default code is 0000. This is the “1st level password” which is set in the Strata DK Program 00 (see the record sheet for Program 00 in the *Strata DK Programming Manual*).

If the Problem: Unable to Establish Communications screen displays (shown below), check the items listed on the screen and/or refer to [Appendix A – Connecting to Strata DK](#).

DK System Program File	
✓	Program No. Program Title
	PRGALL All System Programs
	REPALL All Station and System Speed Dial Numbers
	NAMEALL All User Names
	VIDALL All Voice Mail ID Codes (#656)
	MIDALL All Voice Mail Message Waiting Codes (#657)
	ADMEMOAL All Station and System Speed Dial Memos
	MSGALL All Station and System LCD Messages
	CFALL Directory Number Call Forwarding settings (R3)
	MWALL Message Waiting Lamp settings (R3)
	CLID Caller ID/ANI Lost Call telephone numbers (R3)
F1-Help SPACE-(Un)Tag F2-(Un)Tag All F3-Backup F4-Restore F5-Upgrade	
Esc-Exit	
Select If Marked	

6. Press **F5** (Upgrade). The screen below provides instructions regarding Program 03.

Processor Conversion
Note: After the data are upgraded, the new data will be sent to the DK. You will then need to modify Program 03 and upload to the DK.

7. Press the spacebar to display the screen below (this is an sample upgrade RCTU-CD to RCTU-EF Release 3 or Release 3.10).

Processor Conversion
Processor Currently in Use: DK, RCTU-CD, R3
Processor to Upgrade to: <input type="text" value="DK, RCTU-EF, R3"/>
Backup From DK First: Yes

8. Press **Enter** and then select the processor type you are upgrading to; press **Enter** after selecting the processor (RDTU E/F, Release 3 in this example).
9. If you haven't backed up the customer database by downloading the original RCTU, answer **Yes** to **Backup From DK First**; otherwise, answer **No**. Press the spacebar to make your selection and then press **Enter**.
10. From the screen in [Step 7](#) above, use the spacebar to change **Backup From DK First** from **No** to **Yes** to download the database from the original processor and press **Enter**.

Note If you already completed a backup and have a spare customer database for the original processor, you can answer **No** to the prompt: **Backup from DK First**. DKAdmin/DKBackup upgrades the database files and displays the screen shown in [Step 13](#). [Steps 11](#) and [12](#) are skipped.

You are prompted with the message **Upgrading to DK RCTU EF, R3. Are you sure?** This database is then upgraded before sending it to the "new" processor

11. Use the arrow keys to highlight **Yes** and press **Enter**. You are now prompted with **You will receive data FROM the DK. Are you sure?**
12. Highlight **Yes** and press **Enter**. DKAdmin/DKBackup downloads the following files: PRGALL, REPALL, NAMEALL, VIDALL, ADMEMOAL, MSGALL, CFALL (Release 3), MWALL (Release 3), CLID (Release 3). DKAdmin/DKBackup then upgrades and builds the database. After upgrading the database, the screen in [Step 13](#) displays.
13. At this point DKAdmin/DKBackup has upgraded the customer database; follow the instructions on the screens below to change ROMs/Flash Memory on processors and add cabinets and PCBs as required.

Important! *Remember to turn power off before changing PCBs and cabinets. Then turn the system back on and perform the steps on the screen below to ensure the DKBackup and DK system TTY port communication link continues to function during the remaining upgrade process.*

Processor Conversion

PLEASE READ THE FOLLOWING SCREENS AS THEY PROVIDE VERY IMPORTANT INFORMATION REGARDING THE UPGRADE AND INITIALIZATION PROCESSES.

Please turn DK system power off and add/change cabinets, processor ROM or RMSS memory and/or RCTU PCBs as required.

IMPORTANT: Do not add PCBs, other than RSIU or PIOU in between existing PCBs at this time as they will make station port and/or CO line numbers shift causing the upgraded data to be invalid.

The next screen provides step-by-step instructions for initializing the system.

Press any key to Continue

14. Press **Enter** and the following screen displays:

Processor Conversion	
<p>Step A: After changing the processor, you should initialize the new processor by running Program 91-9 manually from the Programming Telephone. Then you must reset the PIOU, PIOUS, RSSU, or RSIU/RSIS/RMDS TTY port that is connected to DKAdmin PC by performing Step B and/or C.</p>	
<p>Step B: From the Programming Telephone, use Program 03 to set code 41 for the cabinet slot that contains the new TTY/Maintenance PIOU, PIOUS, or RSSU PCB and proceed to Step D. If you added an RSIU/RSIS/RMDS PCB, set code 49 for cabinet slot 11 and proceed to Step C.</p>	
<p>Step C: From the Programming Telephone, use Program 76-1 and 76-2 to set the RSIU/RSIS/RMDS ports for their appropriate functions and baud rates. DKAdmin will pull Program 76 and adjust the DKAdmin customer database accordingly. Make sure the TTY/Maintenance port settings are correct to insure a successful Upgrade process. Proceed to Step D.</p>	
<p>Step D: Turn DK off (5 sec) then on. From the Programming Telephone, test the RCTU (R3) RAM by running Program 00-(51,52/61, 62)</p>	
<p>Press any key to Continue</p>	

15. Press **Enter** (twice) after completing the Steps above. The Baud Rate Selection screen displays (shown below). This screen enables you to set the DKAdmin/DKBackup PC COM port baud rate which must match the baud rate of the TTY port set by the programming telephone in Program 76 (if upgrading TTY port to RSIU).

Baud Rate Selection	
<p>Please adjust the baud rate of DKBackup PC COM port to match the new PIOU, PIOUS, RSSU or RSIU/RSIS you may have installed.</p>	
<p>Baud Rate</p> <p>9600</p>	<p>300</p> <p>1200</p> <p>2400</p> <p>4800</p> <p>9600</p> <p>14400</p> <p>19200</p> <p>38400</p> <p>57600</p>

- Note** This Step enables you to switch the TTY port from a PIOU (1200 bps) to an RSIU (9600 bps) TTY port to complete the upgrade process faster.

16. Select the DKAdmin/DKBackup PC COM port baud rate and press **Enter**. The information screen below instructs you to pull Program 03 if you changed any PCBs during the upgrade process. DKAdmin/DKBackup can be used to pull Program 03 automatically.

Processor Conversion

If you added or changed any PCBs other than the RCTU PCB in the DK system, the customer database will need to be updated to reflect these changes. You can pull Program 03 from the DK to accomplish this.

If you pull Program 03 from the DK, you will override the existing customer database with the DK data.

If you do not pull Program 03 from the DK, the existing customer database will remain intact.

IMPORTANT: If you have upgraded the customer database offline, DO NOT pull Program 03 as it will override your changes.

IMPORTANT: Any time DK14/DK16e/DK40 is upgraded, Program 03 must be pulled so DKAdmin can update the new system's cabinet drawing.

NOTE: If you pull Program 03 from the DK, the DK will be initialized with Program 91-1 automatically. This initialization program identifies the PCBs to the DK.

Press any key to Continue

17. After reading the screen above, press **Enter**. The program displays:

Pull Program 03 from DK to Update Customer Database?

Note If upgrading onsite and the new RCTU is in the customer's DK, it is recommended that you answer **Yes**. This will cause DKAdmin/DKBackup to pull Program 03 to ensure that the upgrade process is successful. If the RCTU you are upgrading is installed in a test system (offsite), answer **No**. Program 03 will not be pulled and Program 03 data in the customer database (in DKAdmin) is sent to the new processor.

18. Highlight **Yes** or **No** and press **Enter**. You are prompted to enter the DK code.
19. Enter the default DK Code 0000. DKAdmin/DKBackup initializes the processor with Program 91-1, and downloads Programs 03 (if Yes in [Step 18](#)) and 76. The program displays the message: **You will send data to the DK. Are you sure?**
20. Highlight **Yes** and press **Enter**. You are prompted to re-enter the DK Code.
21. Enter the default DK code 0000. DKAdmin/DKBackup begins the upgrade process.

Note Before restoring/upgrading data, DKAdmin/DKBackup pulls some programs (04, *04 and *09) in order to arrange the data and prevent numbering conflicts. The DK then sends the upgraded database to the new processor.

22. After sending the upgraded data to the new processor, the screen below displays. Read the screen and press **Enter**.

You have uploaded program(s) to the DK which require the DK to be powered off for 5 seconds and then on again for the modifications to take effect. DK280 Release 3 and 4 allows you to perform this task automatically without physically turning the system off. If desired, the system can be shut down manually.

Note For Release 2, only the following message displays: **Turn the system OFF (5 sec).**

23. Turn the system off (five seconds) and then on.

...or

When the screen displays the message **Perform Automatic Power OFF/ON Simulation?**, highlight **Yes** (Release 3 or Release 4 upgrades only).

24. Press **Enter** and DKAdmin/DKBackup runs Program 91-2 and displays the screen below (Release 3 or Release 4 upgrades only).

```

Program 91-2 has been completed.
The system has performed a power off/on simulation.

```

25. Press any key. The upload part of the upgrade process has been completed.

26. Press the spacebar; the following message displays: **To complete the upgrade process, you will receive data?**

27. Highlight **Yes** and press **Enter** and you are prompted for the DK Code. It is necessary to download the upgraded processor database to complete the upgrade process.

28. Type the default DK Code 0000. DKAdmin/DKBackup downloads the upgraded database and saves it under the customer directory. When complete, the Processor Conversion screen displays (shown below).

```

                Processor Conversion
Conversion Completed Successfully.
Program 03 may have been updated by the conversion process. This process
only updates the installed PCBs but not the piggyback options. You must
edit and upload Program 03 if such changes are required.
Program 76 may have been reset to ensure that the communication link
between DKBackup PC and the Strata DK RSIU/RSIS/RMDS TTY port remains at
the same baud rate. Check and adjust each RSIU/RSIS/RMDS port as
required.
If you upgraded a Release 2 System with ACD to Release 3 system with ACD,
you must perform the steps below for proper ACD operation:
1. Remove all ACD CO line and Pooled line buttons from Agent phones
(PRG39).
2. Add a single appearing PhDN (ACD Call Button) to all Agent phones
(PRG39).
3. Program each Agent ACD Call Button PhDN to ring at the Agent phone
(PRG*71).
4. Program each Agent phone as the owner of its ACD call button PhDN
(PRG*33).

```

29. Perform the steps displayed on the screen as required, using the programming telephone, and backup any data that you change, using DKAdmin/DKBackup.

30. Press **Esc** twice to return to the Main Menu.

Important!

When using DKAdmin/DKBackup, the following list provides important information regarding specific programs:

- *Program 00: DKAdmin/DKBackup does not upgrade the DK security codes in Program 00-1 and 00-2. If required, change the code using the DKAdmin Program Administration Section option or manually from the programming telephone.*
- *Program 03: On new or upgraded installations, Program 03 should always be checked and updated using DKAdmin Program Administration Section option or manually from the programming telephone to make sure all PCB slots have the correct codes for PCBs and PCB options. Strata DK power must be turned off (five seconds) and then on after uploading (restoring) Program 03 to enable its data to take effect.*
- *Programs 04, *04 and *09: When uploading these programs, DKAdmin/DKBackup downloads them from the processor, compares and arranges data in an acceptable order and uploads the data to the Strata DK.*
- *When upgrading processors, [DNs] that are not programmed or do not exist on the original processor in Programs 04, *04, *09, and 71-0, are blanked out on the new processor. For example, when upgrading from Release 2 to Release 3, all [PhDNs] are blank on the new Release 3 processor. This is necessary to prevent numbering conflicts.*

CAUTION! ACD/DID assignments in Program *09 cannot be restored (uploaded) with early ROM versions of Strata DK Release 2 ROMs; they must be restored using the programming telephone. ROM, RCA-6K(RCTUC/D2) and RBA-6H(RCTUB2) and later, and Flash Memory versions provide the ACD/DID assignments (Program *09) restore function.

Strata DK Release 3 Added Features: Strata DK Release 3 enables you to backup and restore Station Call Forward and Message Waiting status. However, when you upgrade from Strata DK Release 1 or 2 to Release 3, Call Forward and Message Waiting data are lost.

When upgrading from Strata DK, Release 3 to Release 3.10 or higher, station Call Forward, Message Waiting, and Lost ANI/Caller ID data are saved and restored from the original processor to the new processor.

CLID: To restore lost call number data, stations must have memory allocated in Program *51.

Important! *When backing up or upgrading Strata DK Release 1 Processors: The original release of Strata DK software version RCA-3U, 3X or 3Z; RBA-X3F (Release 1, June 1, 1993) stores station memory files (REPALL, MSGALL, VIDALL, MIDALL, ADMEMOAL, and NAMEALL) in a list format which uses a large amount of the PC's memory and takes a long time to back up and restore.*

Toshiba recommends using an MS-DOS edit program to edit out all lines of backed-up data (in each file) that do not contain actual speed dial numbers, user names, etc. This should be done before restoring the customer database. This editing process will not be necessary when backup/restore is used with Strata DK software versions following the original June 1, 1993 release. Release 1 ROM, RCA-4A (Released September 1, 1993) and later, and Flash Memory versions store data in a compressed format and do not require the file editing.

Release 1 processors (shipped between June 1993 and August 1993) may fail during the download process. It may be necessary to download individual files

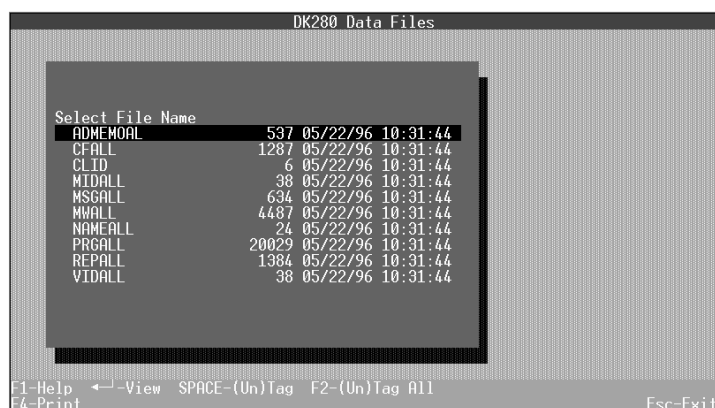
one at a time (for example: PRGALL), instead of tagging all files to download. If a Release 1 processor fails during the downloading process, retry the process or change the original Release 1 processor ROMs to NANP Release 1 upgrade ROMs and then download.

View/Print Data

► To access the option

1. From the File Menu, select a customer.
2. From the Administration Menu, type **v**. The View/Print Reports screen displays (shown right).

Note If you attempt to choose this option before you select a customer, a message **Please select a customer first** displays.



► To view and print a customer program

1. Highlight the program/files you wish to view and press the spacebar to select them. To select all the programs/files, press **F2**.
2. Press **Enter** to view the program. The program data is displayed in the ASCII format required for uploading/downloading the Strata DK. This data can be useful to personnel that have knowledge of Strata DK program records.
3. Press **F4** to print selected data (remember to press the spacebar to select the file to print).
4. Press **Esc** to return to the Report screen.

► To print a customer program

1. Highlight the program/files you wish to print and press the spacebar to select them. To select all the programs/files, press **F2**.
2. Press **F4** to print the program(s). The Printer Selection screen displays (with the default printer highlighted).
3. Change the printer destination (by pressing **F2** to select the printer, then **F2** again to display the list of printers to select from) or press **Enter** to accept the default printer and print the report.
4. The program data is printed out in the Strata DK ASCII format required to upload/download the Strata DK. This data may be useful to personnel that have knowledge of Strata DK program records.

This chapter gives you step-by-step instructions on using the options available on the Options Menu. They are:

- ♦ System Installation
 - ♦ Company General Information (DKAdmin only)
 - ♦ Screen Type/Color Installation
 - ♦ Printer Type Selection
 - ♦ System Miscellaneous Variables
 - ♦ User Password Level Setup
 - ♦ Communications Setup
- ♦ System Utilities
 - ♦ ReIndex Files

System Installation

These features enable you to change system parameters such as screen colors, printer, miscellaneous system variables, user password setup and communications setups.

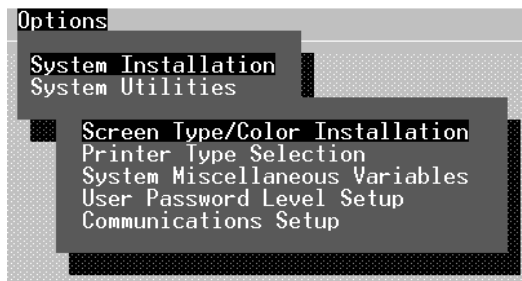
Company General Information

This option appears only on the DKAdmin — Option Menu and is not applicable to these programs.

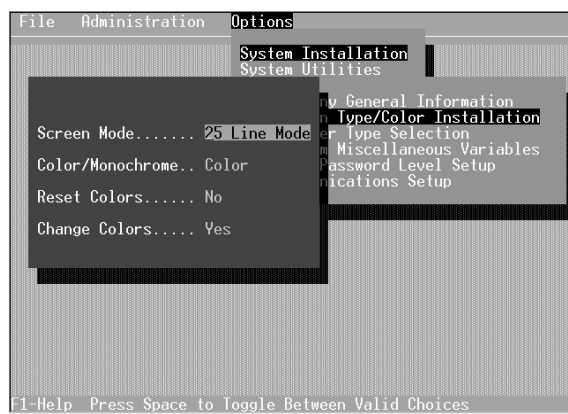
Screen Type/Color Installation

► To change your monitor or color setups (not available to password level 2)

1. From the Main Menu, type **o**. The System Installation Submenu displays (shown right). Press **Enter**.



2. Type **s** and a pop-up screen displays (shown right), enabling you to set monitor and screen specifications.



Note Press the spacebar to toggle between available options.

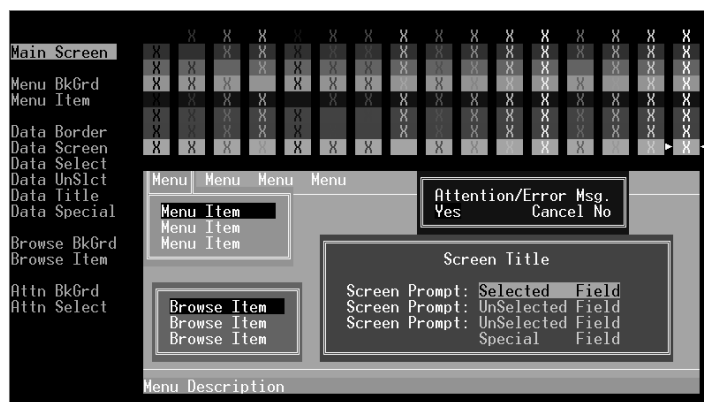
Screen Mode	This option enables you to increase or decrease the screen display text size. Select 25, 43 or 50 lines. After making a selection, press Enter .
Color/Monochrome	Select the appropriate option (Color or Monochrome) for the type of monitor you are using and press Enter .
Reset Colors	Select Yes or No and press Enter . If you select Yes , any custom colors you have chosen in the Change Colors option revert to the default colors.
Change Colors	If you do not want to change the display screen colors, toggle the Change Colors option to No and press Enter . The pop-up closes and the System Installation Submenu displays.

If you would like to customize your screen display, follow the instructions in [“To change the color of an item”](#).

► To change the color of an item

1. From the pop-up dialog box, highlight the **Yes** for the Change Colors option and press **Enter**. The Color Selection screen displays.

The Color Selection screen (shown right) consists of an item selection menu, a set of item color bars, and a sample screen display showing the result of your color selection. All three components work together to show an example of your screen selection. As you select an item and change its color, the sample screen changes to reflect your new color selection.



You can change the color of the following screen items:

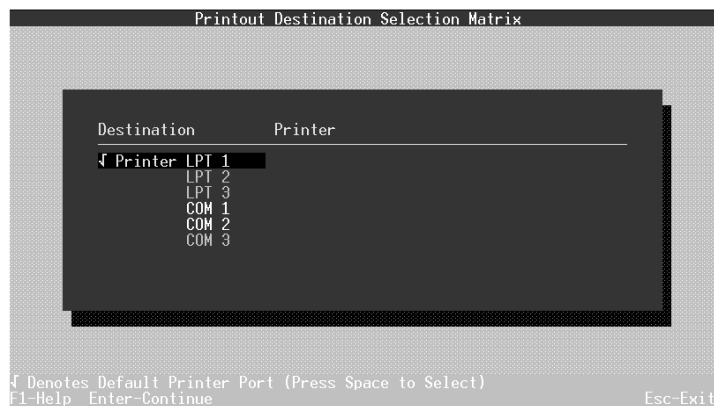
- | | |
|-----------------------------------|--|
| ♦ Menu Screen | ♦ Data Title |
| ♦ Menu Background | ♦ Data Special (Special Text) |
| ♦ Menu Items | ♦ Browse Background |
| ♦ Data Border | ♦ Browse Item |
| ♦ Data Screen (Text) | ♦ Attention Background (error messages) |
| ♦ Data Select (Selected Text) | ♦ Attention Select (error message item selected) |
| ♦ Data Unselect (Unselected Text) | |
2. Use the **Enter** key to choose the item you want to change from the Item Selector Menu at the left side of the screen. As you move the highlighter down the Item Selector Menu, the appropriate color bar is selected.
 3. Use the up/down arrow keys to change the color on the color bar. Notice that as you move along the color bar, the sample screen changes to reflect the color selected.
 4. When you have completed all of your color selections, press the **Esc** key. A Save Changes pop-up window displays.
 5. To save your color selections, press **Enter**. The system returns to the System Installation Submenu and is displayed in the colors that you have specified.

Printer Type Selection

The Printer Type Selection option enables you to specify the printer you will be using to print.

► To select printer

1. Type **p**. The Printout Destination Selection Matrix screen displays (shown right).
2. Highlight the appropriate printer destination and press the spacebar. The highlighter moves to the Printer field.
3. Press **F2**. The Available Printer Drivers dialog box displays.
4. Scroll the printer list using the up/down arrow keys, or type the first letter of your printer to “jump” to the printer selections which begin with that letter. For example, if you have a Hewlett-Packard Laserjet printer, type **h** and the screen scrolls to the beginning of the Hewlett-Packard printers.
5. Highlight your selection and press **Enter**. The Printout Destination Selection Matrix screen displays again.
6. Press **Enter** and the System Installation Submenu displays.

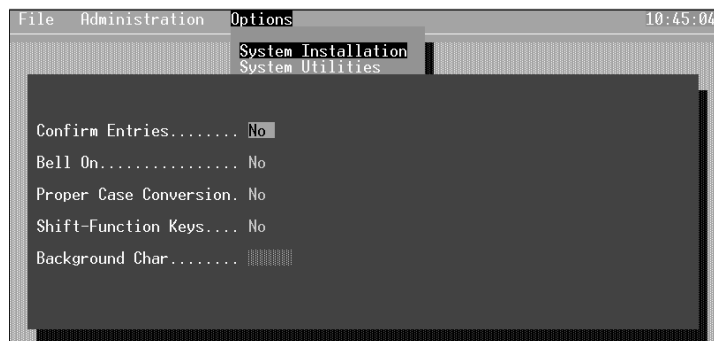


System Miscellaneous Variables

The System Miscellaneous Variables option (available to password levels 8 and 9) enables you to control various system functions and conventions by changing the default entry.

► To change system variables

1. Type **m**. The System Miscellaneous Variables pop-up displays (shown right).
2. Use the **Enter** or up/down arrow keys to move from field to field. Press the spacebar to toggle between **Yes** and **No**.



Confirm Entries

When set to **No**, as you complete an input field (using all the available field characters), the cursor automatically moves to the next field. When set to **Yes**, you must press the **Enter** key after field input to move to the next field.

Bell On

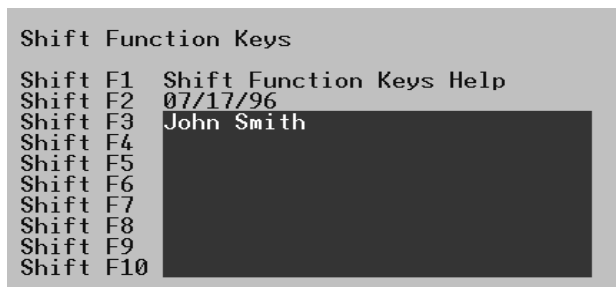
When set to **Yes**, as you complete all the available characters of an input field, a beep sounds.

Proper Case Conversion

Select **Yes** to have text appear in proper - upper/lower case. Select **No** to have text appear in all capital letters.

Shift-Function Keys

To build up to 10 function keys which can hold a specified text entry in memory, such as a name, date, or address, type **Yes** and press **Enter**. A pop-up window displays (shown below) where you may designate the entries.



In this example, each time that you want to insert the date, press **Shift+F2** and the date is inserted. Press **Shift+F3** and "John Smith" is inserted.

Background Char

Change the screen background to a desired shading (five settings available).

3. When you have completed your selections, press **Enter**. A Save Parameters pop-up box displays.
4. Press **Enter** to save the entries and return to the System Installation Submenu.

User Password Level Setup

The User Password Level Setup option (available to password level 9) enables you to control access to certain DKAdmin/DKBackup features through the assignment of menu-specific passwords. For example, you can restrict users from backup and restore functions, or security assignment features. By assigning the correct password level, these options will not be available for selection.

► To access the user password level setup option

1. From the Main Menu, type **o** and press **Enter** to select the System Installation option.
2. Type **u** and the Password File Maintenance screen displays (shown right).

User Id	User Name	Password	Level
ADMIN1	Administrator Level I	ADMIN1	2
ADMIN2	Administrator Level II	ADMIN2	5
MASTER	Principal	MASTER	9
TECH1	TECH I	TECH1	8

F1-Help Ins-Insert Record Del-Delete Record Esc-Exit
User Login Id

► **To add users and assign passwords**

Note See [Table 7](#) for a list of password access levels for each menu option available in the DKAdmin/DKBackup programs.

1. Highlight the User ID field and press **Ins**. A pop-up dialog box displays enabling you to enter new user ID information.
2. Enter a User ID using up to eight characters and press **Enter**.
3. Enter the User Name and press **Enter**.
4. Enter a Password using up to eight characters and press **Enter**.
5. Enter a Password Level and press **Enter**. The password level defines which Strata DK Programs and DKAdmin/DKBackup menu items a user may access (up to 10 levels can be created).

There are currently four (default) levels for DKAdmin:

- 2 = Administrator Level I access.** Access to Check System Processor, System/Station Administration, ACD Programs (level 2 only) and Port Attributes only; no access to password set up, Program Administration, feature reference, security maintenance, backup/restore, or view/print/delete data functions. Default ID and password is "ADMIN1".
- 5 = Administrator Level II access.** Access to programs with level 5 and below (see DKAdmin/DKBackup Security, below, for more information). No access to password set up, security maintenance, backup/restore, or view/print/delete data functions. Default ID and password is "ADMIN2".
- 8 = Tech Level I access. Access to all programs.** No access to password or security setup. Default ID and password is "TECH1".
- 9 = Master access.** Full Access to all functions and screens. Level 9 is typically used by managers to assign passwords for Technicians and end users.

There are currently two (default) levels for DKBackup:

- 6 = Tech Level I access. Access to all programs.** No access to password or security setup. Default ID and password is "TECH1".
- 9 = Master access.** Full Access to all functions and screens. Level 9 is typically used by managers to assign passwords for Technicians and end users.

6. To add another user ID, press **Ins**, and repeat Steps 2~5.

Note Any existing user/password data may be overwritten or deleted.

Table 7 Password Level Menu Access

File Menu	Password Access Level
Select Customer	0,1,2,3,4,5,6,7,8,9
Maintain Customer	6,7,8,9
Dial DK	0,1,2,3,4,5,6,7,8,9
Hangup Connection	0,1,2,3,4,5,6,7,8,9
Transfer DK Data	6,7,8,9
About	0,1,2,3,4,5,6,7,8,9
Exit	0,1,2,3,4,5,6,7,8,9
Administration/Backup Menu*	Password Access Level
View Cabinet Diagram	2,3,4,5,6,7,8,9
Check Processor Type*	2,3,4,5,6,7,8,9
System/Station Administration	0,1,2,3,4,5,6,7,8,9
Flexible Key Programming Section	2,3,4,5,6,7,8,9
Speed Dial Programming Section	2,3,4,5,6,7,8,9
ACD Administration Section	2,3,4,5,6,7,8,9
Program Administration Section	3,4,5,6,7,8,9
Security Maintenance Section	9
Directory Number Administration	2,3,4,5,6,7,8,9
DNIS Administration	2,3,4,5,6,7,8,9
Distributed Hunt Group Administration	2,3,4,5,6,7,8,9
Call Forward Assignments	2,3,4,5,6,7,8,9
E911/CAMA Trunk Programs (R4 Only)	2,3,4,5,6,7,8,9
ISDN Programs (R4 Only)	2,3,4,5,6,7,8,9
Backup/Restore Data*	6,7,8,9
View/Print Data*	6,7,8,9
Options Menu	Password Access Level
System Installation	2,3,4,5,6,7,8,9
Company General Information	2,3,4,5,6,7,8,9
Screen Type/Color Installation	0,1,2,3,4,5,6,7,8,9
Printer Type Selection	0,1,2,3,4,5,6,7,8,9
System Miscellaneous Variables	0,1,2,3,4,5,6,7,8,9
User Password Level Setup	9

Table 7 Password Level Menu Access (continued)

Communications Setup	6,7,8,9
Reindex Files	0,1,2,3,4,5,6,7,8,9

➤ **To change user or password information for an existing user**

1. Access the Password File Maintenance screen (under the User Password Level Set Up option).
2. Highlight the user you wish to change and press **Enter** to display the user information.
3. Change the information, as required.
4. After changing the information, press **Enter**.

Note Changes are lost if you press **Esc** before pressing **Enter**. The entry will return to its original form.

➤ **To delete a user from the DKAdmin/DKBackup system**

1. Access the Password File Maintenance screen (under the User Password Level Setup option).
2. Highlight the user you want to delete and press **Delete**.
3. A confirmation message is displayed. Highlight **Yes** and press **Enter**. The user is deleted from the system.
4. Press **Esc** to close the Password File Maintenance screen.

Communications Setup

The Communications Setup screen enables you to select the computer serial communications port (COM 1 ~ COM 4) which will be connected to the Strata DK (for procedures on connecting to the Strata DK, refer to Appendix A). This setup also enables you to select baud rate, parity, data bits, stop bits, direct modem initialization and a modem/DIU initialization.

The communication parameters shown below are the settings that are required to connect to the Strata DK and should remain constant.

Baud Rate = 1200* Parity = Even
Data Bits = 7 Stop Bits = 1

**May be up to 9600 if using RSIU.*

► **To display the communication settings**

1. Type **o**. The Option Menu displays.
2. Type **i**. The System Installation Submenu displays.
3. Type **o**. The Communications Setup screen displays (shown right).
4. To change the Communication port, press **Enter**. A pop-up ports window displays.
5. Highlight the desired port and press **Enter**.
6. Verify (change if required) that the communication parameters are correct per the first paragraph of this section.
7. Verify (change if required) that the modem and modem/DIU initialization strings are correct; these strings are sent to modems when using the DKAdmin/DKBackup Dial DK option:
 - ✦ Direct Modem Initialization: AT; sent to modem connected directly to DKAdmin/DKBackup PC COM port or modem installed in DKAdmin/DKBackup PC.
8. Press **Esc** to close the screen.

```

Communication Port... COM 2
Base Address/IRQ.... 2F8h/IRQ3
Baud Rate..... 9600
Parity..... EVEN
Data bits..... 7
Stop Bits..... 1

Direct Modem Init.... AT
Modem/DIU Init..... ATSO=1 S2=43 E0 Q0 &C1 &D2 V1 &W0 &Y0

```

Note If using a fax/modem, you may have to enter **&Q6** to the modem initialization string.

- ✦ Modem/DIU Initialization: ATSO=1 S2=43 E0 Q0 &C1 &D2 V1 &W0 8Y0; sent to modem connected to a PDIU-DS modem pool.

System Utilities

ReIndex Files

► **To reindex files**

1. From the Options Menu, type **u**. A pop-up box displays.
2. Press **Enter** to select ReIndex Files and the files are automatically reindexed.
3. Press **Esc** to return to the Options Menu.

This appendix shows how to connect a DKAdmin/DKBackup PC to the Strata DK.

Hardware Requirements

The DKAdmin/DKBackup PC is required to edit or change a Strata DK customer database file with or without being connected to a Strata DK telephone system. A PC equipped with DKAdmin/DKBackup enables you to upload, download, upgrade and/or edit complete Strata DK databases.

Note DKBackup does not provide the edit function.

The hardware requirements described below are necessary to exchange (send/receive) data between the DKAdmin/DKBackup PC and a Strata DK telephone system. Exchanging data enables the PC to pull customer configuration data from an operating Strata DK and save this data, and then send the data to the Strata DK (see [Figures 16 to 22](#) for possible connecting configurations).

- ♦ The DKAdmin/DKBackup PC must be equipped with an available COM port to enable the PC to connect and exchange (send/receive) data with a Strata DK.
- ♦ The Strata DK must be equipped with an RSSU, PIOUS, PIOU, or RSIU/RSIS PCB for local and/or remote Administration.
- ♦ When DKAdmin/DKBackup must interface with a Strata DK remotely (more than 50 feet apart):
 - ♦ The Strata DK PIOU, PIOUS, or RSIU must be equipped with an IMDU or RMDS built-in modem; or, the Strata DK RSSU, PIOUS, PIOU, RSIU/RSIS TTY port must be connected to an external modem or PDIU-DS data interface unit.
 - ♦ The DKAdmin/DKBackup PC COM port must be connected to a modem or PDIU-DI data interface unit or have a built-in modem.

System Connection Configurations

[Figures 16 to 22](#) show possible ways to connect the DKAdmin/DKBackup PC to the Strata DK. They provide installation guidelines and instructions for setting up and using the DKAdmin/DKBackup built-in auto dialer to call Strata DKs remotely or locally. These figures include the following configurations:

- ◆ DKAdmin/DKBackup PC directly connected to the Strata DK – 50 feet maximum (see [Figure 16 on Page 130](#)).
- ◆ DKAdmin/DKBackup PC connected to Strata DK via Toshiba Data Interface Units – 1000 feet maximum (see [Figure 17 on Page 131](#)).
- ◆ DKAdmin/DKBackup PC remote modem connected to Strata DK system external modem/TTY port (direct modem to modem call)(see [Figure 18 on Page 132](#)).
- ◆ DKAdmin/DKBackup PC remote modem connected to Strata DK system built-in IMDU, RMDS (or external modem) – voice call first, then modem to modem connection (see [Figure 19 on Page 133](#)).
- ◆ DKAdmin/DKBackup PC remote modem connected to Strata DK modem pool – then auto dial modem pool DIU to Strata DK DIU/TTY port (see [Figure 20 on Page 135](#)).
- ◆ DKAdmin/DKBackup PC DIU/DIU modem pool connected to Strata DK system modem – voice call first, then modem to modem connection (see [Figure 21 on Page 137](#)).
- ◆ DKAdmin/DKBackup PC DIU/DIU modem pool connected to Strata DK system modem – DIU to DIU connection, then modem to modem connection (see [Figure 22 on Page 139](#)).

PIOU/PIOUS/RSSU/RSIU Setup

► To check the DKAdmin/DKBackup communications setup

1. From the Options/System Installation/Communication Setup menu, verify that the proper COM port is selected and that the communications parameters are set as follows:

Communications port:	COMX (X = 1, 2, 3 or 4)
Baud rate:	1200 (If using RSIU TTY port or RMDS, the Baud rate can be higher than 1200 bps.)
Parity:	Even
Data bits:	7
Stop bits:	1

2. PIOU or PIOUS PCB installed on Strata DK which is connected to DKAdmin/DKBackup PC: if using an IMDU, verify that the switch SW2 is set for 1200 bps (LED CD4 off) and that SW3 is set to “MODEM.”

If connecting an external modem, PDIU-DS, or PC COM port directly to the TTY modular jack, verify SW2 is set to the “TTY” position.

3. RSSU does not support the IMDU built-in modem or SMDR, and it has no option switches. Its communication parameters (TTY port) are always 1200 bps, even parity, 7 data bits, 1-stop bit.
4. Use Program 03 to identify the PCB slot that contains the PCB with the TTY port or modem that will be used (Code 41 for PIOU, PIOUS, or RSSU or Code 49 for RSIU).
5. Use Program 76 if RSIU/RSIS/RMDS is used to connect with the DKAdmin/DKBackup PC.
6. Use Program 77-1 (LED 14 and 15) if IMDU or RMDS is used to connect to the DKAdmin/DKBackup PC.

Calling Strata DK Using the Dialer

The DK Dialer is used only to establish a modem-modem or DIU to DIU/modem connection between the DKAdmin/DKBackup PC and the DK maintenance modem. The DK Dialer is not used when connecting the DKAdmin/DKBackup PC directly to the Strata DK TTY port.

► To call Strata DK using the dialer

1. From the File Menu, type **d** to select the Dial DK option and the Customer List screen displays.
2. Highlight the Customer Strata DK you wish to dial.

Note It is not necessary to use the Select Customer option, when using the Dial DK option.

3. To set up DIU, modem, or “after connect” dialing strings for the selected customer, press **Enter**. If the dialing strings were set previously, go to next step.
4. Press **F2** to connect DIU to DIU (see [Figure 17](#) on [Page 131](#)), press **F4** or **F5** to connect modem to modem (see [Figure 18](#) on [Page 132](#)), or Press **F4** to connect modem to modem pool and then dial the PDIU-DS connected to the TTY port (see [Figure 20](#) on [Page 135](#)), or press **F3** to connect DIU to modem pool and then dial customer Strata DK (see [Figure 22](#) on [Page 139](#)).
5. When Function keys **F2** ~ **F5** are pressed after selecting a customer from the Dial DK Option, DKAdmin/DKBackup sends the following with each of the Function Keys. Only one Function Key should be used to connect with the DK maintenance modem.
 - ✦ Pressing **F2** sends the Communication Setup DIU Initialization String and the Customer DIU String.
 - ✦ Pressing **F3** sends the Communication Setup DIU Initialization String, the Customer DIU String, the Communication Setup Modem Initialization String, the Customer Modem String, and, if a connection is established, the After Connect String.
 - ✦ Pressing **F4** sends the Communication Setup Modem Initialization String, the Customer Modem String, and, if a connection is established, the After Connect String.
 - ✦ Pressing **F5** sends the customer Modem String, and, if a connection is established, the After Connect String.

Notes

- The DK security code can be set on the After Connect line in each Customer File setup so it will be sent automatically to the Strata DK after connecting the DKAdmin/DKBackup PC to the Strata DK remotely via modems. Setting the DK security code in the After Connect String is optional.
- In some cases, when connecting to older Release 1 processors or during heavy traffic conditions, the After Connect string may be sent and not recognized by the Strata DK. If this should occur, do not enter the DK security code in the After Connect string.
- After completing a DKAdmin/DKBackup session via modems or DIUs, always use the Hangup Connection option in the File Menu to drop the connection. Once the option is activated, DKAdmin/DKBackup sends the modem escape sequence **+++** and then the reset and hangup commands **ATZ H**, closing the communication link to the DK. Make sure the modem escape sequence is set to **+++** (modem register, **S2=43**) before using the DKAdmin/DKBackup PC with modems or DIUs.

Direct Connection to Strata DK

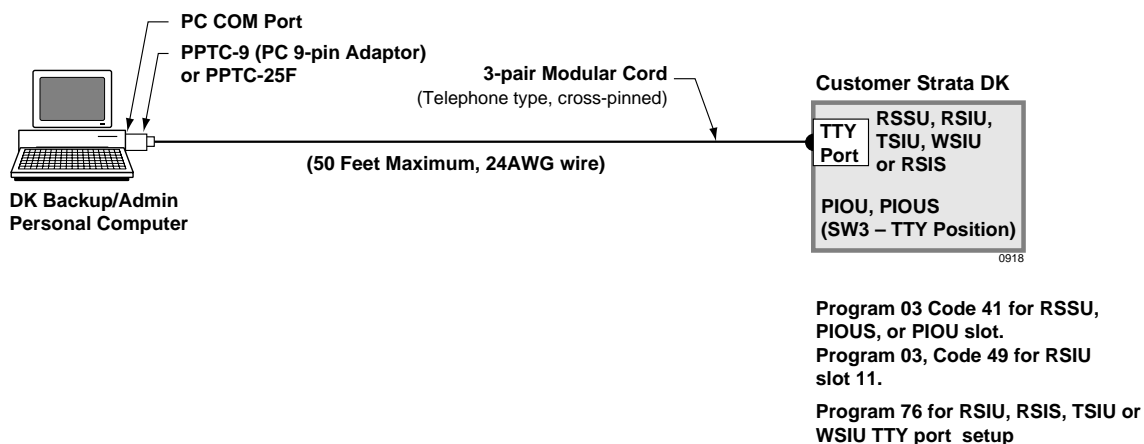


Figure 16 DKAdmin/DKBackup PC Directly Connected to Strata DK—50 ft. Maximum

Important! *DK Dialer Setup is not required for direct connection. Connection is always established; select customer and proceed with Administration or Backup.*

Connection to Strata DK Via Toshiba Data Interface Units

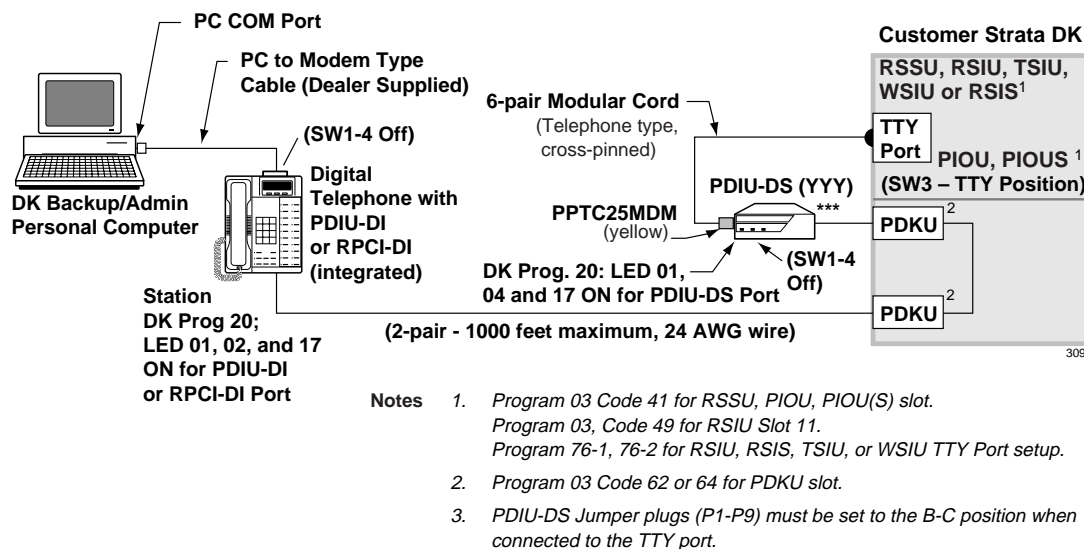


Figure 17 DKAdmin/DKBackup PC Connected to Strata DK Via Toshiba Data Interface Units—1000 ft. Maximum

Customer Dialer Setup

- ◆ DIU String: **ATS2=43~~~ATDDYYY**
(YYY is the intercom or directory number of the PDIU-DS connected to the TTY port)

Note ~~~ must be entered to send the carriage return signal following ATS2=43.

- ◆ Modem String: (nothing)
- ◆ After Connect String: (nothing)

To Make Connection

1. From File Menu, select Dial DK and press **Enter**
2. Highlight the customer from the customer list (scroll with arrow key or type initials)
3. Press **F2** to establish the DIU to DIU connection. (The DIU string will be sent from the DKAdmin/DKBackup COM port.)
4. After connection is established, select desired function from the DKAdmin/DKBackup Main Menu.
5. After the DKAdmin/DKBackup session is complete, go to the File Menu and press **h** to hang up the connection.

Remote Modem Connection to External Modem/TTY Port

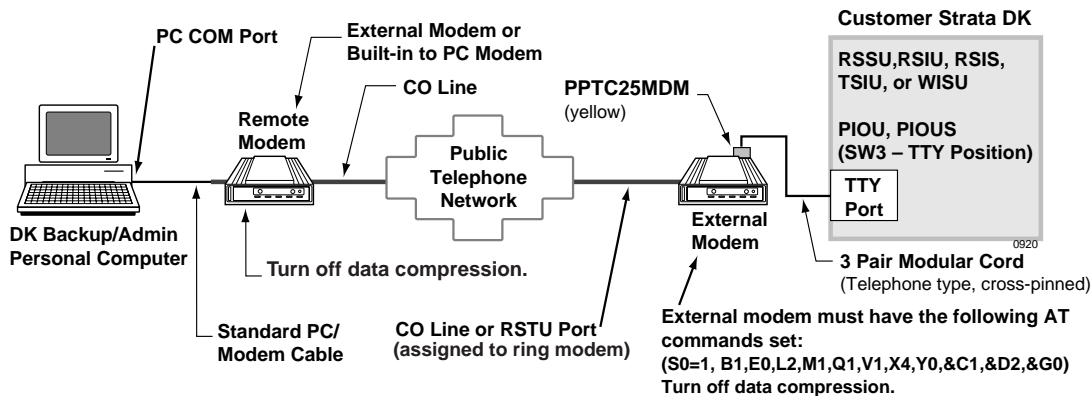


Figure 18 DKAdmin/DKBackup PC Remote Modem Connected to Strata DK External Modem/TTY Port (Direct Modem to Modem Call)

Communication Setup

(See Communication Setup in [Chapter 8 – Options Menu](#).)

- ✦ Use default values for direct modem init. If using a fax/modem, you may have to include `&Q6` or `&K0` into the modem initialization string to turn off data compression.

Customer Dialer Setup

- ✦ DIU string: (nothing)
- ✦ Modem string: **ATDTX...X**
(X...X is the telephone number of CO line that rings the external modem).
- ✦ After connect string: DK Security Code (optional)

To Make Connection

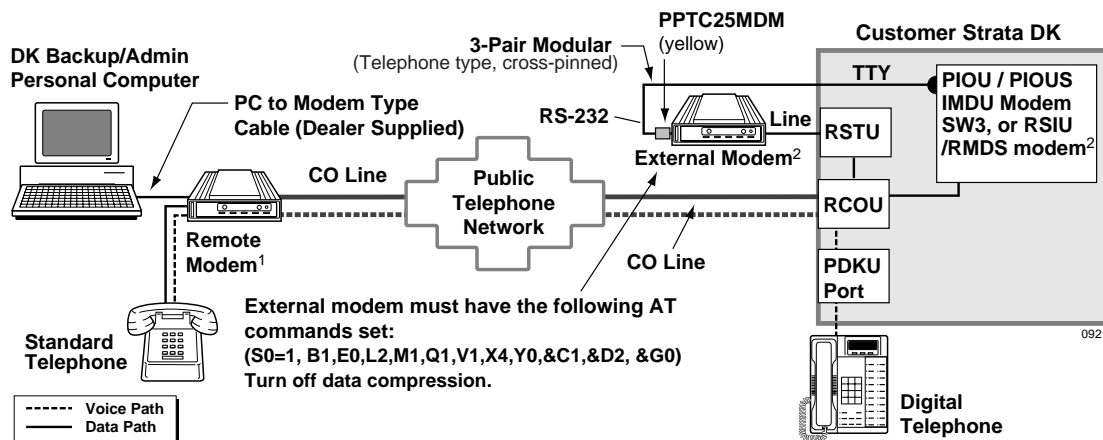
1. From the File Menu select the Dial DK and press **Enter**.
2. Highlight customer.
3. Press **F4**; DKAdmin/DKBackup causes remote modem to go off-hook and dial the external modem. (The Modem Initialization String and the Modem String will be sent from the DKAdmin/DKBackup COM port.)

Note You may press **F5** in this step to send the customer modem string only and not the modem initialization string.

4. After remote modem and external modem establish communications (handshake), DKAdmin/DKBackup will flash back to the DK Dial Option. At this point you may proceed with DKAdmin/DKBackup.

- After the DKAdmin/DKBackup session is complete, go to the File Menu and press **h** to hang up the connection.

Voice Call Transferred to Modem Connection (Strata DK IMDU, RMDS, or External Modem)



- Notes**
- External or Built-in to PC. Turn off data compression.
 - Either IMDU, RMDS, or External modem can be used to connect remotely. If IMDU is used, put SW3 in the Modem position; if an External modem is used, put SW3 in the TTY position. Refer to Programs 76 and 77-1 to setup RMDS modem.

Figure 19 DKAdmin/DKBackup PC Modem Connected to Strata DK System Built-in IMDU, RMDS (or External Modem) Voice Call First, then Modem to Modem Connection

Communication Setup

(See Communication Setup in [Chapter 8 – Options Menu](#).)

- Use default values for direct modem init. If using a fax/modem, you may have to include **&Q6** or **&K0** into the modem initialization string to turn off data compression.
- Direct modem initialization should be: Default.

Customer Dialer Setup

- DIU string: (nothing)
- Modem string: **ATX3 D**

Note For some 14.4 or 28.8 fax modems, you may have to enter **AT&Q6X3 D**.

- After connect string: DK Security Code (optional)

To Make Connection

1. From File Menu, type **d**.
2. Highlight the customer from the customer list.
3. At the remote site, use the standard telephone (connected to the DKAdmin/DKBackup remote modem) to call a telephone (or attendant console) at the customer site.
4. When the call is answered, request that the call be transferred to the IMDU or RMDS by dialing Cnf/Trn + # 1 9; or, if using an external modem connected to the TTY port, by dialing Cnf/Trn + the external modem (RSTU) station number.

Important! *The transferring party must hang up after transferring to the modem.*

5. After the call is transferred and you hear modem tone from the IMDU, RMDS, or external modem, press **F5**, hang up the standard telephone when the DKAdmin/DKBackup PC modem goes off-hook. (The Modem String will be sent from the DKAdmin/DKBackup COM port.) The modems will handshake and connect, the After Connect String is sent to the Strata DK (if programmed).

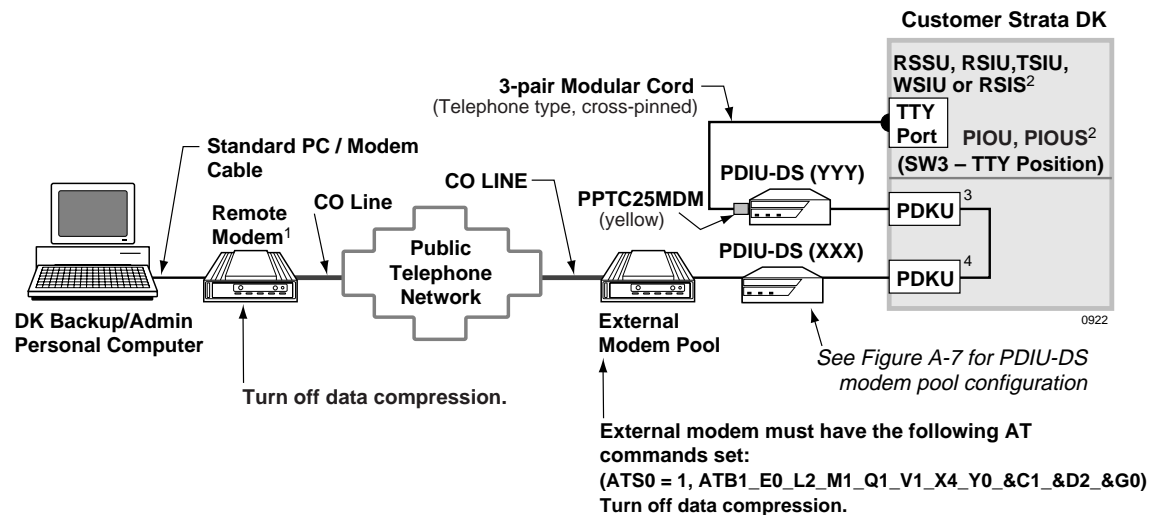
Note If you press **F4** in this step, DKAdmin/DKBackup will send the Modem Initialization String (from the Communications Setup Option) and then the Modem String (from the Customer File). If using a 28.8 fax/modem with you DKAdmin/DKBackup PC, it may be necessary to include **&Q6** or **&K0** in the Modem Initialization String to turn off data compression.

6. After the connection is established, select the desired function from the Administration Menu/Backup Menu and proceed.
7. After the DKAdmin/DKBackup session is completed, go to the File Menu and press **h** to hang up the connection. The DKAdmin/DKBackup PC sends **+++ ATZ H** to the DKAdmin/DKBackup PC modem, closing the communication link to the DK.

Important!

- *When connected to an IMDU or RMDS modem, the Strata DK will drop the connection if an incorrect DK maintenance security code is entered during a DKAdmin/DKBackup backup session.*
- *You may put the DK maintenance security code on the After Connect line in the Customer File setup. DKAdmin/DKBackup sends the DK security code automatically after the modem in the Strata DK and the DKAdmin/DKBackup modem establish connection. The data set in After Connect is sent after modem connection is established whenever F3, F4, or F5 is used.*
- *If the DKAdmin/DKBackup PC/modem connects to the Strata DK modem but then DKAdmin/DKBackup closes the COM port immediately, perform the following steps and try again:*
 - *Make sure DKAdmin/DKBackup modem baud rate is the same as the Strata DK modem baud rate.*
 - *Run the ReIndex Files option from the DKAdmin/DKBackup Options/System Utilities Submenu.*
 - *Remove the DK security code from the After Connect String.*

Remote Modem Connection to Modem Pool



- Notes**
1. External or Built-in to PC.
 2. Program 03 Code 41 for RSSU, PIOUS, PIOUS(S) slot.
Program 03, Code 49 for RSIU Slot 11.
Program 76-1, 76-2 for RSIU, RSIS, TSIU, or WISU TTY Port setup.
 3. Program 03 Code 62 or 64 for PDKU slot.
 4. PDIU-DS Jumper plugs (P1-P9) must be set to the B-C position when connected to the TTY port.

Figure 20 DKAdmin/DKBackup PC Remote Modem Connected to Strata DK Modem Pool – Then Auto Dial Modem Pool DIU to Strata DK DIU/TTY Port.

Communication Setup

- ◆ DIU initialization string: use default values. Use default values for direct modem init. If using a fax/modem, you may have to include **&Q6** or **&K0** into the modem initialization string to turn off data compression.
- ◆ Direct modem init should be: default

Customer Dialer Setup

- ◆ DIU string: (nothing)
- ◆ Modem string: **ATDTXXXXXX.**
(XXXXXX is the external modem CO line number)
- ◆ After connect string: **AT~~~ATDDYYY~~~**
(YYY is the intercom number of the PDIU-DS connected to the TTY Port. (~~~ must be used to send carriage return signals.) The DKAdmin/DKBackup dialer sends this string to connect the PDIU-DS (XXX) to PDIU-D (YYY) when it detects (connect 1200) that the remote modem has connected to the external modem.

To Make Connection

1. From the File Menu select Dial DK and press **Enter**.
2. Highlight the customer form the customer list.
3. Press **F4** to establish remote modem to external modem connection; the Modem Initialization String, the Modem String, and the After Connect String will be sent from the DKAdmin/DKBackup PC COM port.

(After the modems connect, the “After connect” string will be sent out to cause PDIU-DS (XXX) to connect to PDIU-DS (YYY). DKAdmin/DKBackup goes back to the File Menu.)
4. Complete the DKAdmin/DKBackup administration functions.
5. After the DKAdmin/DKBackup session is completed, go to the File Menu and press **h** to hang up the connection.

PC DIU/DIU Modem Pool Connection to Strata DK Modem

Voice Call First, then Modem to Modem Connection

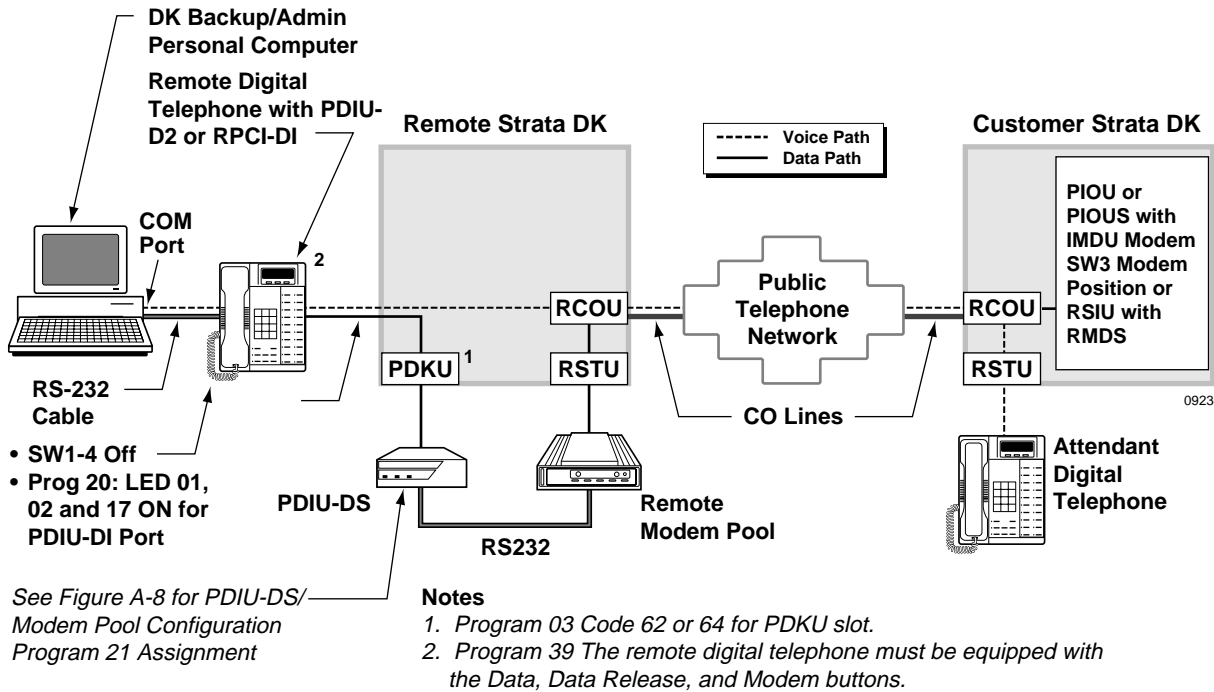


Figure 21 DKAdmin/DKBackup PC DIU/DIU Modem Pool Connected to Strata DK Modem – Voice Call First, Then Modem to Modem Connection.

Communication Setup

- ◆ Use default values.

Customer Dialer Setup

- ◆ DIU string: (nothing)
- ◆ Modem string: **ATD#42**
- ◆ After connect string: (nothing)

To Make Connection

1. Select Customer from the Dial DK Option.
2. Call attendant at customer Strata DK from remote digital telephone (voice call using telephone handset).
3. From the remote digital telephone, press the Modem button to reserve the remote modem. The Modem button LED flashes.
4. When attendant answers, request to be transferred to the IMDU or RMDS (attendant must press Conf + # 1 9) and ask attendant to hang up.
5. When you hear IMDU or RMDS modem tone, press the Data button on the remote digital telephone and then press **F5** (voice/modem) on the DKAdmin/DKBackup PC keyboard. The call is picked up by to the RSTU remote modem, disconnecting the voice path, and establishing the data path between the Strata DK modem, the PDIU-DS modem and the remote digital telephone PDIU/RPCI. The Data and Modem button LEDs are red steady.
6. After the IMDU or RMDS and remote modem communicate (handshake), proceed with DKAdmin/DKBackup.
7. After the DKAdmin/DKBackup session is complete, go to the File Menu and press **h** to hang up the connection.

PC DIU/DIU Modem Pool Connection to Strata DK Modem

DIU to DIU Connection, then Modem to Modem Connection

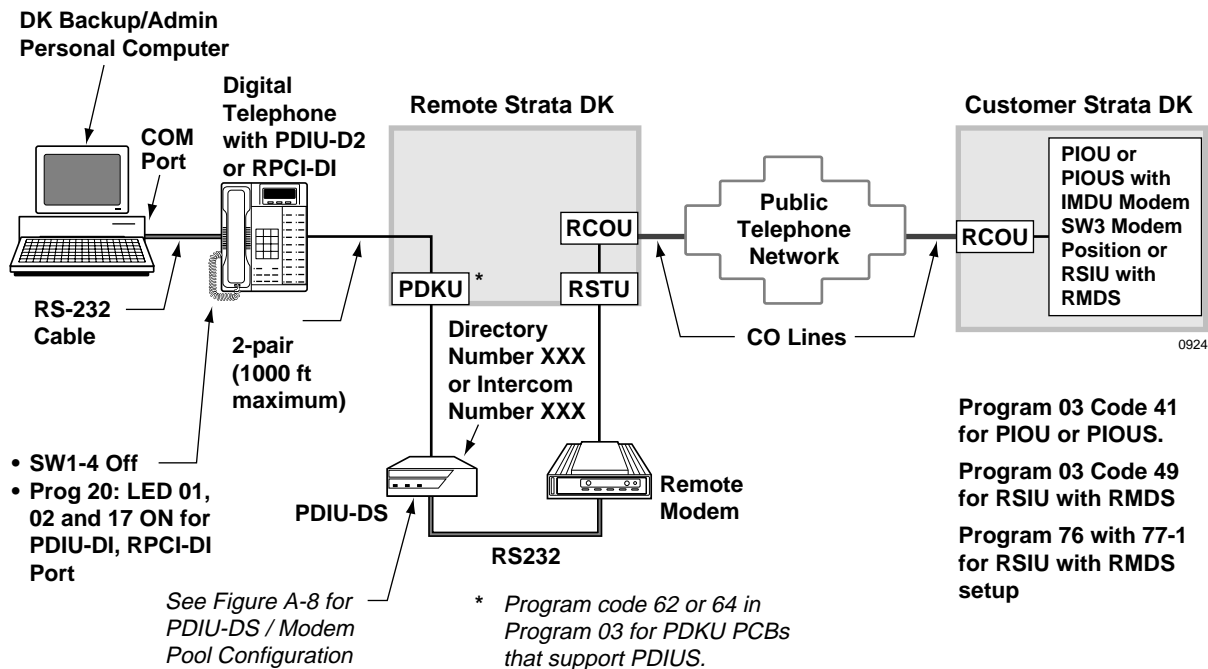


Figure 22 DKAdmin/DKBackup PC DIU/DIU Modem Pool Connected to Strata DK Modem – DIU to DIU Connection, then Modem to Modem Connection.

Communication Setup

- ♦ Use default values.

Customer Dialer Setup

- ♦ DIU string: **ATS2=43~~~ATDDXXX**
(where XXX is the intercom or directory number of the PDIU-DS modem pool)
- ♦ Modem string: **ATDTY...Y**
(where Y...Y is the CO line access code plus the telephone number of the CO line that will ring the IMDU or RMDS modem)
- ♦ After connect string: DK security code (optional)

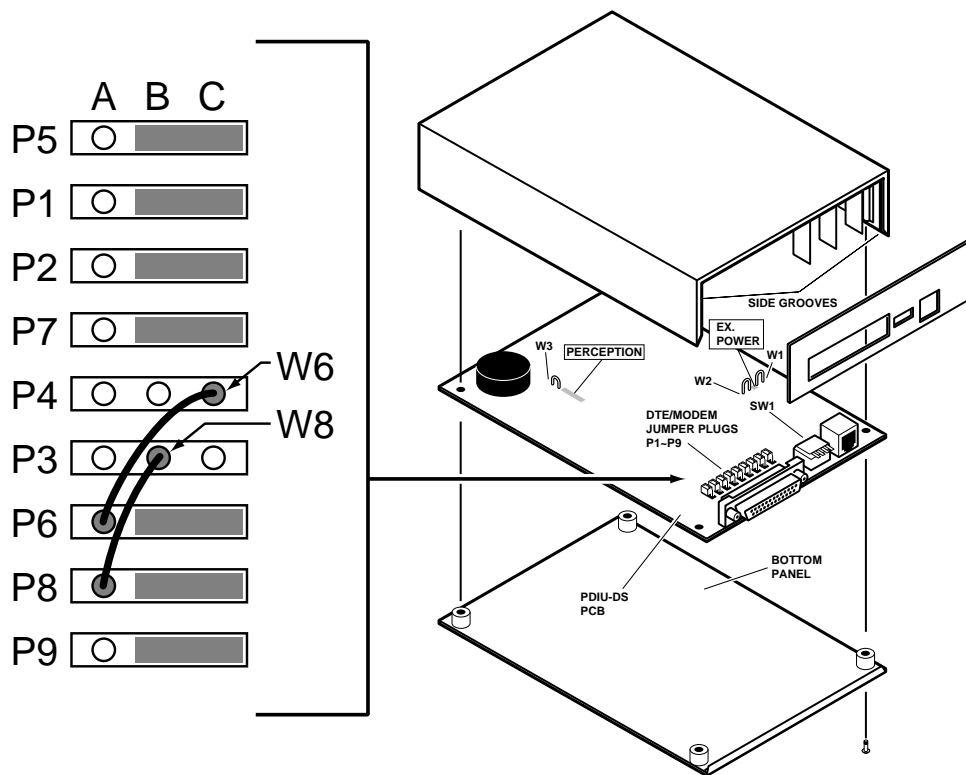
To Make Connection

1. Highlight Customer from the Dial DK Option and press **Enter**.
2. Highlight the appropriate customer, then press **F3**; the digital telephone DIU will connect to the remote modem PDIU-DS and then the remote modem will go off hook and seize a CO line and dial the CO line which rings the IMDU (normal ringing assignments in Strata DK Programs 81~89).

Pressing **F3** causes the DIU Initialization String, the DIU String, the Modem Initialization String, and the Modem String to be sent from the DKAdmin/DKBackup PC COM port in the order described here.

3. After the IMDU or RMDS and remote modem communicate (handshake), proceed with DKAdmin/DKBackup.
4. After the DKAdmin/DKBackup session is completed, go to the File Menu and press **h** to hang up the connection.

PDIU-DS Modem Pool Installation



0925DK

Figure 23 External Modem to Strata DK TTY Port Connection

To Make Connection

When connecting a PDIU-DS to a modem for modem pool operation (see [Figures 20 to 22](#)), set up the PDIU-DS and modem per Steps 1 ~ 7 below.

1. PDIU-DS P1 through P9 jumper connections/option switch settings:
 - a. Remove PDIU-DS cover.
 - b. Install all PDIU-DS jumper-plugs except P3 and P4 across B-C.
 - c. Remove jumper plugs from P3 and P4.
 - d. Solder on or wire wrap W6 and W8 jumper wires as shown (W6 and W8 are dealer-supplied)
 - e. PDIU-DS SW1 option switch settings:
 - ✦ SW1-2 and SW1-4 should be on (down).
 - ✦ W1-1 and SW1-3 should be off (up).

2. PDIU-DS port Program 20 options:

LED 01, 02, 04, and 17 on; all other LEDs off for PDIU-DS port if connecting the modem to a CO line; if connecting the modem to an RSTU port, turn on LED 01, 02, 03, 04, and 17 for the PDIU-DS port.

Notes

- LED 02 must be turned off until the AT commands shown in 3 below have been set on the modem connected to the PDIU-DS. After the listed AT commands are sent to the modem, LED 02 in program should be turned on for the PDIU-DS port.
 - Only turn LED 03 on if the telephone/PDIU-DI modem pool key (Program 39-code 455) is required. Otherwise turn LED 03 off. If LED 03 is OFF, the PDIU-DS READY LED will indicate the modem carrier detect status; and, the PDIU-DS will beep when a PDIU-DI connects to it. If LED 03 is ON, the telephone modem key will indicate modem pool status but the PDIU-DS READY LED will always be off and the PDIU-DS will not beep when a PDIU-DS connects to it.
3. The following AT command line must be sent to the modem (sent via DK Dialer Modem/DIU initialization string):
- ATS0=1 S2=43 E0 Q0 &C1 &D2 V1 &W0 &Y0 <CR>** (See Note 1 above.)
4. If connecting the modem to an RSTU port, use Program 21 to assign the PDIU-DS port to the RSTU port. Use Program 39 to assign DATA, DATA RELEASE, and MODEM keys to digital telephones that use the modem pool.
5. Connect the modem “line” to a CO line or RSTU port.
6. Connect the PDIU-DS modular jack to the PDKU port assigned in Program 20.
7. Connect the modem RS-232 connector to the PDIU-DS RS-232 connector with a straight DB-25 to DB-25 (male to male) cable.

Important! *Make sure all PDKU PCBs slots that support PDIU-DS or PDIU-DI are programmed with Code 62 or 64 in Program 03.*

External Maintenance Modem Installation

See [Figures 18](#) and [19](#), as applicable, and install the external modem in accordance with the following steps:

Note The Toshiba PPTC RS-232 modular-to-DB25 adapter is factory configured for ASCII terminal connection. Pins 2 and 3, and Pins 8 and 20 of the adapter must be reversed on the DB25 end for external modem connection (see wiring diagram below).

1. Connect the modular cord from the RSSU, PIOU or PIOUS TTY port to the PPTC adapter and then to the external maintenance modem RS-232 25-pin connector.
2. Connect the external maintenance modem line-side to a dedicated CO line, tip and ring (see [Figure 18](#) on [Page 132](#)) or to a dedicated standard telephone port, tip and ring (see [Figure 19](#) on [Page 133](#)). Refer to Chapter 8 – DK16e/DK424 Universal Slot PCB Wiring in the *Strata DK Installation and Maintenance Manual* for wiring/interconnecting details.
3. Set the PIOU or PIOUS SW2 switch to match the modem or terminal baud rate:
 - ✦ Push in for 300 bps (baud rate indicator CD4 is lit); let out (by pushing again) for 1200 bps (CD4 is not lit), RSSU is always 1200 bps. Use 1200 bps with DKAdmin/DKBackup.

4. Set the PIOU or PIOUS SW3 switch to the TTY position (RSSU is always TTY, SW3 is not required).

Note The PIOU or PIOUS SW3 switch is set to the MODEM position for IMDU operation only.

5. Set the P13 jumper plug on the PIOU to the BELL configuration, or cut the W4 jumper on the PIOUS (also for BELL configuration).

Note The P13 (PIOU) and W4 (PIOUS) CCITT configurations are not normally used in the USA.

6. Use Program 03, Code 41 for PIOU, PIOUS, or RSSU TTY port; or, Code 49 for RSIU/RSIS, Slot 11. If using RISU or RSIS, set the appropriate TTY port and TTY port baud rate using Program 76.
7. Set the communication parameters of DKAdmin/DKBackup to: 1200, 2400, or 9600 BPS, 7 data bit, even parity, and one stop-bit. This is done from the DKAdmin/DKBackup Options/System Installation/Communication Setup Option.
8. Use the DKAdmin/DKBackup "Dial DK" function to call the External modem from the DKAdmin/DKBackup PC as follows:
 - ♦ If the External modem is connected to a dedicated CO line, call the CO line number to establish modem communication (see [Figure 18](#) on [Page 132](#)).
 - ♦ If the External modem is connected to a standard telephone port, call a Strata DK CO line that can be transferred to (or programmed to ring) the standard telephone modem port to establish modem communication. It is also possible to establish communications by calling in on a Strata DK DISA DID, or Auto Attendant, CO line and dialing the intercom number of the modem connected to the standard telephone port (see [Figure 19](#) on [Page 133](#)).

PPCT (Modular to DB25) Adaptor, Modified Wiring for Connecting TTY Jack to an External Modem (only if null-modem adaptor is not used with PPTC):

PIOU/PIOUS, TTY Jack Modular Pin Number	PPTC1A-5M Adaptor		Modem RS-232 Lead Name
	Modular Pin No.	DB25 Pin No.	
→ 1 to RD	RD, 6 to	2*	TD
← 2 to TD	TD, 5 to	3*	RD
→ 3 to DSR	DSR, 4 to	6	DSR
← 4 to DTR	DTR, 3 to	8*	DCD
→ 5 to DCD	DCD, 2 to	20*	DTR
— 6 to SG	SG, 1 to	7	SG
		4 Jumper to 5	RTS to CTS

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Important! *PPTC1A-5M, pins 2 & 3 and pins 8 & 20 must be reversed in the field, as shown, for modem connection. Set Hayes modem to track status of carrier detect signal (AT and C1) and to answer (ATS0 = 1).

Figure 24 External Modem to Strata DK TTY Port Connection

DK424 RCTUE/F Upgrade Using DKAdmin

B

This appendix discusses considerations and steps for upgrading the Strata DK424 digital business telephone system to an RCTUE/F processor.

DKAdmin software is required to upgrade a DK14, DK16e, DK40 or any DK280/DK424 RCTUA, RCTUB, RCTUBA/BB, or RCTUC/D database to an RCTUE/F processor. DKAdmin requires the red 280Admin software protection key installed on the PC LPT1 printer port. This is the same red key used for running 280Admin.

For best results DKAdmin must be installed on a PC with a Pentium processor with 16MB of RAM.

► To install DKAdmin

- See [Chapter 2 – Installing DKAdmin](#) for step-by-step instructions.

► To run DKAdmin

- At the DOS prompt or Windows Run command screen, change to the 280Admin path and type: **dkadmin** and press **Enter** to run the program.

Upgrading to RCTUE/F

The upgrade can be completed on- or off-site. Before upgrading, use DKAdmin to create a new customer file and download the existing RCTU database. This customer file can be used as a back-up for your existing RCTU processor and should not be used in the upgrade process.

Off-site Upgrade

If you have a Strata DK280 or DK424 at your dealer office, you can save time and travel, by downloading an existing database from the customer to your site via modem. Once initialized and upgraded you can then deliver and install the upgraded PCB at the customer site.

► To do an off-site upgrade

1. From the File Menu, type **m** to select the Maintain Customer File function.
2. Create a new customer database by selecting the existing DK16e or RCTU (A, B, BA/BB, or C/D) and Release (Release 1/Release 2 or Release 3 version).
3. From the File Menu, type **s** to select the Select Customer function.
4. Highlight the new customer and press **Enter**.

5. Using the Backup/Restore Data function on the Administration Menu, download the complete customer database via modem or disk by pressing **F2** then **F3**.
After the customer database is downloaded and built, it can be upgraded to the RCTUE/F processor.
6. Install the RCTUE/F processor into the DK280 or DK424 base cabinet (see the *Strata I&M Manual* for more details). Remove the MBJU (DK424 Base only).
7. From the programming telephone, run Program 91-9 twice to initialize the RCTUE/F processor.
8. From the programming telephone run Programs 03, 76, and 77-1 to set up the TTY interface port.
9. Turn the system power off for five seconds then turn the power back on.
10. Connect the DKAdmin PC to the system TTY interface port; check communication between the DKAdmin program and RCTUE/F processor is operating properly.
11. Using DKAdmin, select the customer database created in [Step 2](#).
12. Check the PCB code for the TTY PCB (PIOU, RSIU, etc.) is set properly in Program 03.
13. From the Administration Menu, select the Back/Restore Data function and press **Enter**. Press **F5** to select Upgrade.
14. Follow the upgrade steps in DKAdmin; select the RCTUE/F processor. Answer **No** to “Backup From DK First?” and **No** to “Pull Program 03?”.
15. After DKAdmin upgrades and uploads the customer database, it prompts you to “Perform Automatic Power OFF/ON”; answer **Yes**. DKAdmin runs Program 91-2, then prompts you to receive data to complete the upgrade process; answer **Yes**. DKAdmin downloads the upgraded RCTUE/F database and builds the customer file.
16. The upgrade is now complete. Install the upgraded RCTUE/F at your customer site.

On-Site Upgrade

If upgrading on-site, the DKAdmin upgrade process pulls the current existing customer database.

► To do an on-site upgrade

1. Connect the DKAdmin PC to the system TTY interface port; check that DKAdmin is communicating with the existing RCTU processor.
2. From the File Menu, type **m** to select the Maintain Customer File function.
3. Create a new customer database by selecting the existing DK16e or RCTU (A, B, BA/BB, or C/D) and Release (Release 1/Release 2 or Release 3 version).
4. Select the new customer created in [Step 3](#)
5. From the Administration Menu, select the Back/Restore Data function and press **Enter**. Press **F5** to select Upgrade.
6. Follow the upgrade steps in DKAdmin; select the RCTUE/F processor. Answer **Yes** to “Backup From DK First?” and **Yes** to “Pull Program 03?”. DKAdmin downloads the database from the existing RCTU processor.
7. After DKAdmin downloads the database from the existing RCTU processor, DKAdmin prompts you to change the processors etc. (i.e., turn power off, remove the existing

processor, remove the MBJU from DK424 Base Cabinet per Chapter 5 – DK424 Installation in the *Strata I/M Manual*, and install the RCTUE/F processor).

8. From the programming telephone run Program 91-9 (twice) to initialize the RCTU E/F processor.
9. From the programming telephone run Programs 03, 76, and 77-1 to set up the TTY interface port.
10. Turn system power off for five seconds then turn power back on.
11. Continue the upgrade by following the DKAdmin prompts.
12. After DKAdmin upgrades and uploads the customer database, it prompts you to “Perform Automatic Power OFF/ON”; answer **Yes**. DKAdmin runs Program 91-2, then prompts you to receive data to complete the upgrade process; answer **Yes**. DKAdmin downloads the upgraded RCTUE/F database and builds the customer file.

The upgrade is now complete.

Important Things to Do After Upgrading to an RCTUE/F Processor

- ♦ Using DKAdmin, run Program *03 to identify DK424 cabinets.
- ♦ If installing line and/or station PCBs in slots 07 and 08 of a DK424 expansion cabinet, circuit line and port numbers in slots that follow will shift. It is recommended you move the appropriate station and line cables back to the new installed PCBs. This insures that telephone and line programs match the physical ports and lines.
- ♦ Do not try to swap or relocate ports in Program 01 or 02 to match port programming to physical connections.
- ♦ When using an RCTUE/F processor in a DK424 Base Cabinet, you must remove the MBJU from between the R11 and RCTU slot of the DK424 Base Cabinet.
- ♦ In the above configuration, only DK424 Expansion Cabinets provide eight universal PCB slots (S_1 to S_8). DK280 Expansion Cabinets only provide six universal slots (S_1 to S_6) in this or any other configuration of RCTU processor and Base Cabinet (see the *Strata I&M Manual* for more configuration details).
- ♦ ACD overflow assignment codes in Programs 14-4, 14-5, and 14-6 have been upgraded to the new codes in the RCTUE/F.
- ♦ Station speed dial codes *10-*49 have been upgraded to the new RCTUE/F codes *100-*139, respectively, in REPALL and Programs 29, *29, 39, and 59.
- ♦ ACD and IMDU/RMDS port numbers have been upgraded to the new RCTUE/F codes in Programs *09 and 71.

Upgrading Strata DK Systems to DK424 Release 4.0

C

The following important items must be considered when upgrading the DK14, DK16e, DK40, DK280, and DK424 Release 1~3 systems to a DK424 Release 4.0.

A new feature in DK424 Release 4.0 is increased station capacity in systems containing Tie and Direct Inward Dialing (DID) lines. In Release 4.0, the station capacity of systems that contain Tie/DID lines increases due to Release 4.0 eliminating automatic assignment of station ports to DID and Tie lines. Tie and DID lines provided by RDDU, RDTU, RPTU, REMU, and PEMU circuit cards do not use station ports.

This appendix provides instructions and examples of how DKAdmin/DK Backup, Release 4.0 adjusts for station port shifting caused by Tie and/or DID lines when upgrading to DK424, Release 4.0 software and above. This phenomenon occurs only when upgrading to DK424 Release 4.0 processors in systems that have station PCBs installed in higher numbered slots than Tie/DID line PCBs.

[Table 8](#) shows the different DK upgrade possibilities using the Release 4.0 version of DKAdmin/DKBackup. For example, you can upgrade from an RCTUA, R3 to an RCTUBB, R4; however, you cannot upgrade an RCTUA, R3 to an RCTUD, R1/R2.

Table 8 DKAdmin or DKBackup, Release 4.0, Upgrade Configurations

Upgrade To/		DK14	DK16e	DK40	RCTUA			RCTUB	RCTUBB		RCTUD			RCTUF	
Upgrade From<		R1	R1	R1	R1	R3	R4	R1/R2	R3	R4	R1/R2	R3	R4	R3	R4
DK16e	R1			X		X	X		X	X		X	X	X	X
DK40	R1					X	X		X	X		X	X	X	X
RCTUA	R1					X	X	X	X	X	X	X	X	X	X
	R3						X		X	X		X	X	X	X
	R4									X			X		X
RCTUB	R1/R2								X	X	X	X	X	X	X
RCTUBB	R3									X		X	X	X	X
	R4												X		X
RCTUD	R1/R2											X	X	X	X
	R3												X	X	X
	R4														X
RCTUF	R3														X

X = an upgrade is available.

DK424 Release 4.0 Upgrade Procedure

1. Using DKAdmin or DKBackup Release 4.0, download the customer data from the currently installed processor. Save this “Customer” data as a backup in case you must re-install the current processor and/or processor ROM/Flash memory release level.

Note You must use DKAdmin or DKBackup Release 4.0 for this procedure. Prior releases of these programs do not provide DK Release 4.0 Upload/Download/Upgrade capabilities.

2. Using DKAdmin or DKBackup, create a new customer for the upgrade.

Important! *When creating the new customer, select the currently installed processor type and release level—not the R4.0 Release level.*

3. Using DKAdmin or DKBackup, select the customer created in Step 2 (not Step 1).
4. Start the upgrade procedure, using the Upgrade (F5) function from the “Backup/Restore Data” menu.
5. Choose **Yes** when prompted to **Backup From DK First**.
6. After the current data is downloaded, follow the DKAdmin/DKBackup screen instructions to change the processor and/or ROMs/flash memory and reinitialize. The procedure for changing ROMs and flash memory is provided in figures on the following pages of this appendix.

Important! *When changing the processor and ROM/flash memory for the “Upgrade to” processor, you can add one RSIU to complete the upgrade at 9600 bps. However:*

- *Do not add a new station or Tie/DID line PCBs.*
- *Do not change the order in which the PCBs are installed in the slots.*
- *Be sure to reinitialize the “Upgrade to” processor twice and set the DK TTY port with Programs 76 and 03.*

7. Continue with the upgrade procedure as prompted by the DKAdmin or DKBackup screens until the process is complete.

Note An upgrade example, “[DK424 Release 4.0 Upgrade Programming Example](#)” on [Page 154](#), describes what changes take place in the customer data during the DKAdmin/DKBackup upgrade procedure to make the upgrade transparent to the end user.

Upgrading Strata DK Systems to DK424 Release 4.0

1. Power down the system before removing and installing the processor card(s). [Figure 25](#) shows the slot placement of the processor cards.
2. Remove only the RCTUA, RCTUBB, RCTUD, or RCTUF.
3. Remove the MOH connection, if required.

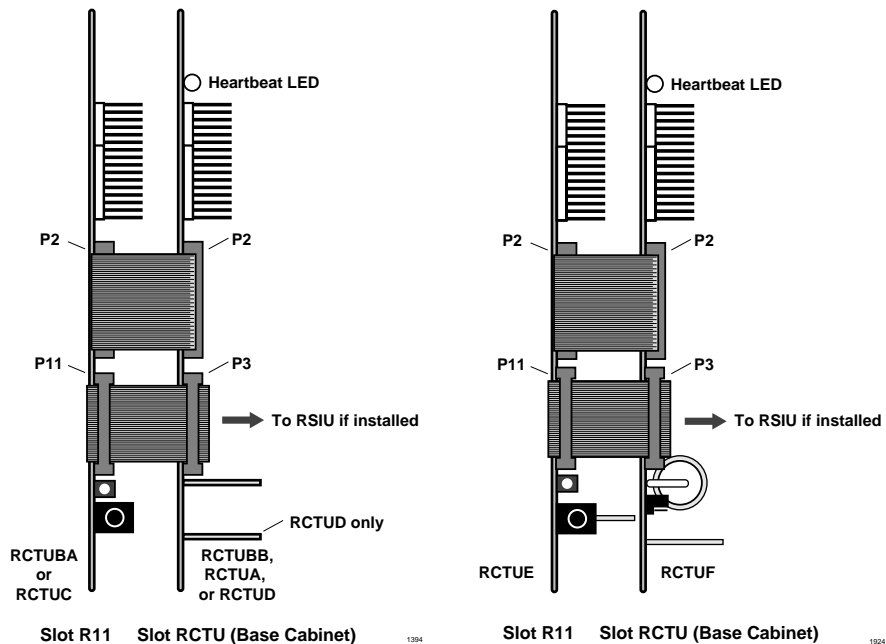


Figure 25 RRCU Removal and Component Placement

4. Remove the RRCS DTMF PCB on the RCTU card, if equipped (see [Figures 26~29](#)).

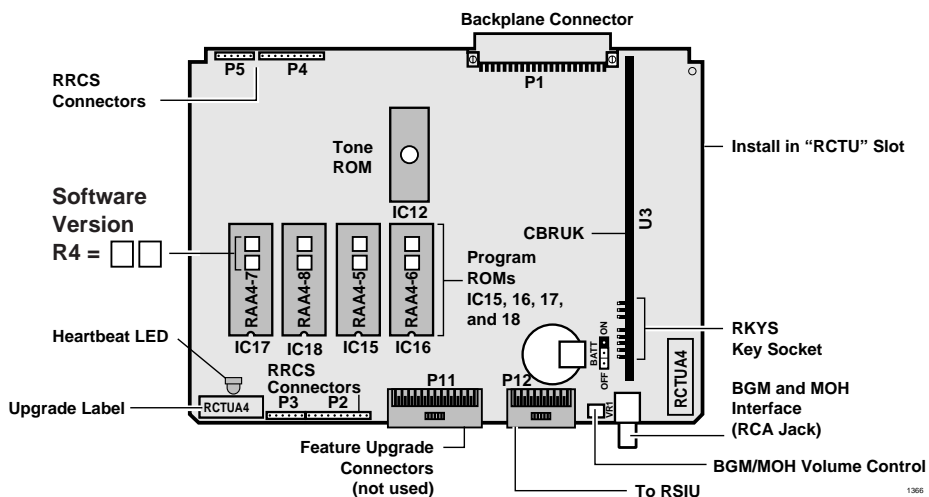


Figure 26 RCTUA Printer Circuit

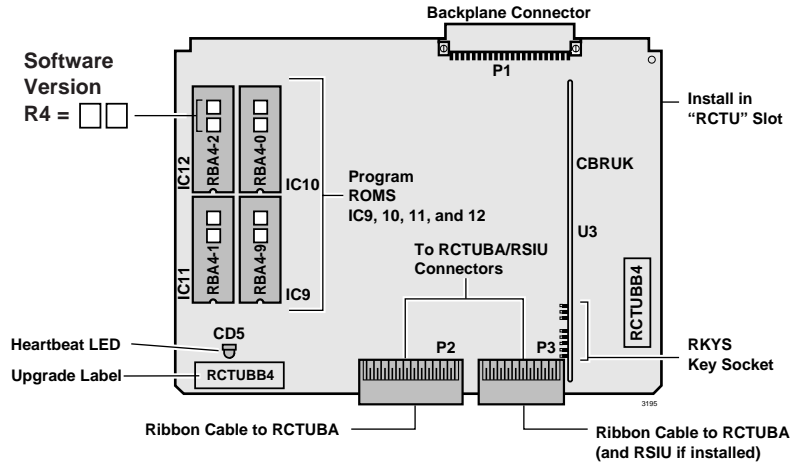


Figure 27 RCTUBB4 Printed Circuit Board

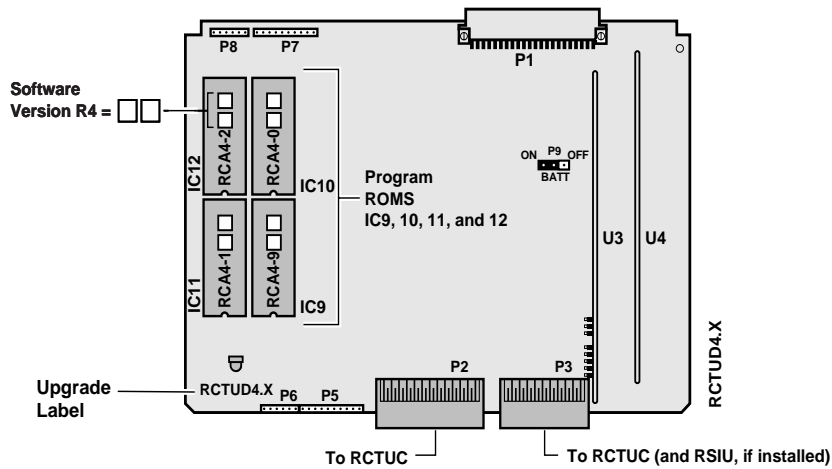


Figure 28 RCTUD4 Printed Circuit Board

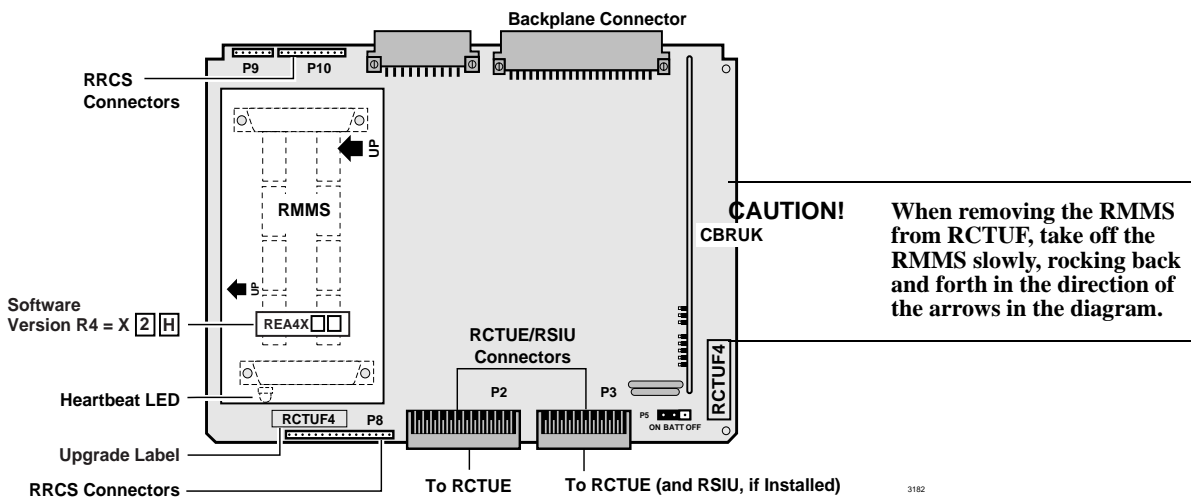


Figure 29 RCTUF4 Printed Circuit Board with RMMS

5. Using a small screwdriver, carefully remove the four ROMs or flash memory (see [Figure 30](#)).
6. Replace with the equivalent ROMs or flash memory in the upgrade kit. Peel the labels (two locations) off the card.

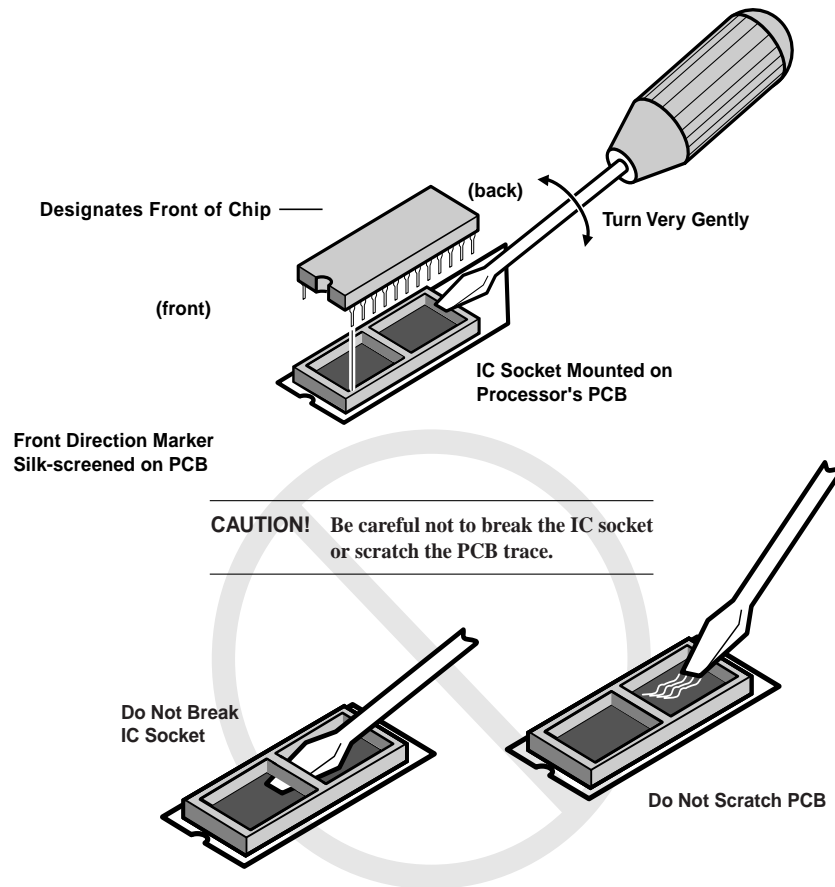


Figure 30 ROM Removal

7. Re-install the RRCS DTMF PCB, if required.

Note If there are battery straps on the PCB, make sure that they are placed in the “on” position for the processor card(s) to avoid losing your data.

8. Re-insert the processor card(s), reconnect the ribbon cables and MOH connection, if necessary. If an RSIU card is being added, shift the card positions accordingly, add the RSIU PCB in slot 11 and change the ribbon cable to connect the RCTU PCB(s) to the RSIU.

Note any changes needed to accommodate the displaced card, if necessary. If this creates extensive changes, it may be better to upgrade without adding the RSIU, get the system working, and then adjust the card positions to add the RSIU card.

9. Turn the Strata DK system back on and follow the DKAdmin/DKBackup instruction screens for completing the upgrade.

DK424 Release 4.0 Upgrade Programming Example

Important! *When upgrading to DK424 Release 4.0 from a lower release, it is highly recommended to use the DKAdmin or DKBackup Release 4.0 PC software program. Trying to upgrade to Release 4.0 manually from the programming telephone could take many hours.*

The following Release 3.0 to Release 4.0 upgrade example demonstrates some basic programming changes automatically performed by DKAdmin due to station port shifting. Station port shifting only occurs when station PCBs are in higher numbered slots than Tie and/or DID lines.

This example does not give you every program change required, nor does it attempt to instruct you on how to re-program a system upgraded to Release 4.0, using the programming telephone. This is a simple system upgrade; an actual installed systems can be much more complex to upgrade.

Cabinet Station Port Counting Before/After Release 4.0 Upgrade

Figure 31 shows the DKAdmin cabinet drawing of a DK424 system with an:

- ♦ RCTUE3/F3 processor
- ♦ RSIU interface
- ♦ 16 Digital telephones
- ♦ 4 analog DID lines

Notice that the RDDU PCB increments the station ports by four ports.

PCB Placement per Program 03								
Cabinet 1	R11	RCTU	S11	S12	S13	S14	S15	S16
PCB Type	RCTUE3	RCTUF3	RSIU	PDKU2	RDDU	PDKU2		
Port Nos.				000~007	008~011	012~019		
Line Nos.					001~004			
Option/Note								

Figure 31 Cabinet Drawing for RCTUE3/F3 Before Release 4 Upgrade

Figure 32 shows the same DKAdmin cabinet drawing after upgrading to an RCTUE3/F4 with DKAdmin.

Notice that the telephones connected to the PDKU2 in slot 14 were on ports 012~019 but are now on ports 008~015, respectively. This phenomenon requires many programming changes to enable the DK system to operate the same as it did prior to the upgrade. DKAdmin/ DK Backup Release 4.0 is designed to make all programming changes automatically to enable the upgrade to be transparent to the system operation.

PCB Placement per Program 03								
Cabinet 1	R11	RCTU	S11	S12	S13	S14	S15	S16
PCB Type	RCTUE3	RCTUF4	RSIU	PDKU2	RDDU	PDKU2		
Port Nos.				000~007		008~015		
Line Nos.					001~004			
Option/Note								

Figure 32 Cabinet Drawing for RCTUE3/F4 After Release 4 Upgrade

System/Station Administration Screen Before/After Release 4.0 Upgrade

Figure 33 shows the DKAdmin System/Station Administration Screen of the same DK424 Release 3 system shown in Figure 31. Figure 34 shows the same after upgrading to RCTUE3/F4 with DKAdmin.

The following table summarizes the changes in Figure 34 after the upgrade:

	Before the Upgrade	After the Upgrade
RDDU in Slot 13	Ports 008–011 as DL (or DID) ports	Deleted
Port Range of PDKU2 in Slot 14	Ports 012–019	Ports 008–015
Slot 14 User Names, PDNs, DID numbers, etc.	Ports 012–019	Ports 008–015
Swapped Logical Ports in Slot 14	Ports 013 and 017	Ports 009 and 013

This type of phenomenon must occur on all DK Programs that contain port numbers to provide a transparent upgrade.

System/Station Administration								
CSN (Cabinet Slot No.)	Phy. Port No.	PT	Telephone Location	Log Port No.	Int/ PDN No.	Telephone LCD User Name	VM CF Id Code	VM MW Id Code
12	000	DT	LOBBY	000	100	ATTENDANT NO:100	91100	92100
12	001	DT		001	101	NO:101	91101	92101
12	002	DT		002	102	NO:102	91102	92102
12	003	DT		003	103	NO:103	91103	92103
12	004	DT		004	104	NO:104	91104	92104
12	005	DT	TELEPHONE ROOM	005	105	PHONE RM NO:105	91105	92105
12	006	DT		006	106	NO:106	91106	92106
12	007	DT	KITCHEN	007	107	COOK NO:107	91107	92107
13	008	DL		008	108	NO:108	91108	92108
13	009	DL		009	109	NO:109	91109	92109
13	010	DL		010	110	NO:110	91110	92110
13	011	DL		011	111	NO:111	91111	92111
14	012	DT	FRONT OFFICE	012	112	BOSS NO:112	91112	92112
14	013	DT	PLAY ROOM	017	117	PLAY RMNO:117	91117	92117
14	014	DT		014	114	NO:114	91114	92114
14	015	DT		015	115	NO:115	91115	92115
14	016	DT		016	116	NO:116	91116	92116
14	017	DT		013	113	NO:113	91113	92113
14	018	DT		018	118	NO:118	91118	92118
14	019	DT	BACK ROOM	019	119	BACK RM NO:119	91119	92119

Figure 33 System/Station Administration Screen for RCTUE3/F3 Before Release 4 Upgrade

System/Station Administration								
CSN (Cabinet Slot No.)	Phy. Port No.	PT	Telephone Location	Log Port No.	Int/ PDN No.	Telephone LCD User Name	VM CF Id Code	VM MW Id Code
12	000	DT	LOBBY	000	100	ATTENDANT NO:100	91100	92100
12	001	DT		001	101	NO:101	91101	92101
12	002	DT		002	102	NO:102	91102	92102
12	003	DT		003	103	NO:103	91103	92103
12	004	DT		004	104	NO:104	91104	92104
12	005	DT	TELEPHONE ROOM	005	105	PHONE RM NO:105	91105	92105
12	006	DT		006	106	NO:106	91106	92106
12	007	DT	KITCHEN	007	107	COOK NO:107	91107	92107
14	008	DT	FRONT OFFICE	008	112	BOSSNO:112	91112	92112
14	009	DT	PLAY ROOM	013	117	PLAY RMNO:117	91117	92117
14	010	DT		010	114	NO:114	91114	92114
14	011	DT		011	115	NO:115	91115	92115
14	012	DT		012	116	NO:116	91116	92116
14	013	DT		009	113	NO:113	91113	92113
14	014	DT		014	118	NO:118	91118	92118
14	015	DT	BACK ROOM	015	119	BACK RMNO:119	91119	92119

Figure 34 System/Station Administration Screen for RCTUE3/F3 After Release 4 Upgrade

Program Changes Before/After Release 4.0 Upgrade

The following examples show the type of programs and data that must change when upgrading from DK14/DK16e/DK40 Release 1 and DK280/DK424 Release 1~Release 3 to DK424 Release 4.0. These program changes are required to make the Strata DK operate the same after the upgrade as it did before; thus making the upgrade transparent to the end user. The changes apply to all DK424 Release 4.0, RCTU processors: RCTUA, RCTUB, RCTUBA/BB, RCTUC/D, and RCTUE/F.

Basically, any program that has station ports as data needs to change if the station port numbers are higher than the pre-upgrade DID/Tie line port numbers. The examples shown here represent the *types* of DK programs that require changes when upgrading to Release 4.0. They are not meant to show all programs since the principles of program changes are the same for each program type.

The program examples show required programming changes (when upgrading to a DK424 Release 4.0 and above processor) can be complex when a system has DID and Tie lines.

The following examples show the program changes required when upgrading RCTUE3/F3 to RCTUE3/F4. The DKAdmin Cabinet Drawing and System/Station Administration Screen for this example are provided in [Figures 33~34](#).

Programs 01 and 02

These programs show the relationship between physical and logical ports. When upgrading to Release 4.0, these relationships remain the same unless ports have been swapped prior to the upgrade. If the swapped port numbers shift during the upgrade, they must be renumbered in Programs 01 and 02. If the swapped ports do not shift during the upgrade, they remain the same after the upgrade.

In this system configuration, ports 013 and 017 are swapped prior to the upgrade (see [Figure 33](#)). After the upgrade, port 013 shifts to 009 and 017 shifts to 013 (see [Figure C-4](#)), therefore after the upgrade port 009 is swapped with port 013. Notice that before and after the upgrade, the Play Room telephone is on the second PDKU circuit in slot 14 and to call the Play Room Telephone you must dial 117 - making the upgrade transparent to the end user.

Program 03

There is no change to the data in this program when upgrading to Release 4.0; however the RDDU DID lines are not allocated ports after the upgrade (see [Figures 31](#) and [32](#)).

Program 04

Data in this program must be changed to adjust for port shifting caused by the RDDU DID line PCB in slot 13 (see [Figures 33](#) and [34](#)):

Before the Upgrade	After the Upgrade
Port 000-007; Data 100-107	Port 000-007; Data 100-107
Port 008-015; Data 108-115	Port 008-015; Data 112-119
Port 016-019; Data 116-119	Port 016-019; Data Blank

Programs *04, 05, 09

There is no change to the data in these programs when upgrading to Release 4.0. Note that DID/Tie ports do not cause Phantom DN ports to shift in Strata DK Release 1~Release 3 systems, so they do not shift in Program *04 when upgrading to Release 4.0. Also, the data in Program 09 is DN numbers and not port numbers, so data in Program 09 does not change when upgrading to Release 4.0.

Program *09

Data in this program must be changed to adjust for port shifting caused by the RDDU DID line PCB in slot 13 (see [Figures 33 and 34](#)):

Before the Upgrade	After the Upgrade
Port 000-007; Data 100-107	Port 000-007; Data 100-107
Port 008-015; Data 108-115	Port 008-015; Data 112-119
Port 016-019; Data 116-119	Port 016-019; Data Blank

Programs 10-1 through 10-4

There is no change to the data in these system programs when upgrading to Release 4.0. Port numbers are not assigned to system programs so no adjustments are necessary.

Program 13

If the Message Center is the Front Office Telephone (PDN 112), data in this program must be changed to adjust for port shifting caused by the RDDU DID line PCB in slot 13 (see [Figures 33 and 34](#)):

- ✦ Data for Program 13 before the upgrade = 012
- ✦ Data for Program 13 after the upgrade = 008

If the Message Center is the Lobby Telephone (PDN 100), data in this program must not be changed to adjust for port shifting caused by the RDDU DID line PCB in slot 13. This is because Port 000 did not shift after the upgrade (see [Figures 33 and 34](#)):

- ✦ Data for Program 13 before the upgrade = 000
- ✦ Data for Program 13 after the upgrade = 000

Programs 15, 16, and 17

There is no change to the data in these programs when upgrading to Release 4.0. These are CO line programs and port numbers are not assigned in them so no adjustments are necessary.

Program *17

If the DID Intercept Destination is the Back Room Telephone (PDN 119), data in this program must be changed to adjust for port shifting caused by the RDDU DID line PCB in slot 13 (see [Figures 33 and 34](#)):

Program *17 data for DID lines 001~004 before the upgrade = 019

Program *17 data for DID lines 001~004 after the upgrade = 015

If the DID Intercept Destination is the Kitchen Telephone (PDN 107), data in this program must not be changed to adjust for port shifting caused by the RDDU DID line PCB in slot 13. This is because Port 007 did not shift after the upgrade (see [Figures 33](#) and [34](#)):

Program *17 data for DID lines 001~004 before the upgrade = 007

Program *17 data for DID lines 001~004 after the upgrade = 007

Program 20

If the Front Office Telephone (PDN 112) is equipped with an RPCI-DI to display DNIS and Caller ID on a PC running a TAPI application, the data in Program 20 must shift. This enables the Front Office Telephone and RPCI to operate the same way after the upgrade as it did before. Notice that all Program 20 data for port 012 moves port to 008.

	Before the Upgrade	After the Upgrade
Port 008	LED17 on, all others off (Program 20 default)	LED 01,02,10, 11, and 17 on, all others off
Port 012	LED 01,02,10, 11, and 17 on, all others off	LED17 on, all others off

Program 30

If the Back Room Telephone (PDN 119) is programmed to dial forced and verified Account codes when making outside calls, the data in Program 30 must shift. This is to allow the Back Room Telephone to operate the same way after the upgrade as it did before. Notice that all Program 30 data for port 019 moves to port 015.

	Before the Upgrade	After the Upgrade
Port 015	LED 01, 05, and 07 ON, all others off (Program 30 default)	LED 01, 05, 07, 08, and 14 ON, all others off
Port 019	LED 01, 05, 07, 08, and 14 on, all others off	LED 01, 05, and 07 on, all others off (Program 30 default)

Program 33

If the Front Office telephone (DN 112) is programmed to hunt to the Back Room Telephone (PDN 119), the data in Program 33 must shift:

Before the Upgrade	After the Upgrade
Hunt-From Port 012 to Port 019	Hunt-From Port 008 to Port 015

If the Front Office telephone (PDN112) is programmed to hunt to the Lobby Telephone (PDN 100), the data in Program 33 must shift:

Before the Upgrade	After the Upgrade
Hunt-From Port 012 to Port 000	Hunt-From Port 008 to Port 000

Program *33

If the Back Room telephone (PDN 119) is programmed as the Owner of PhDN 500, the data in Program *33 must shift:

Before the Upgrade	After the Upgrade
PhDN Port 500 is owned by Port 019	PhDN Port 500 is owned by Port 015

Programs 39, 29, *29, and 59

When a port number shifts from XXX to YYY during an Release 4.0 upgrade, the following Program changes must be made:

- ♦ In Program 39, the data set for port XXX must be copied over the data set for port YYY.
- ♦ In all Telephone/Console button programs, the appearances of the XXX port PDN/SDN Button (##XXX) and DSS Button (#XXX) must be changed to ##YYY and #YYY, respectively, on all keystrips.

Example: The Front Office Telephone changes from port 012 to port 008 during the Release 4.0 upgrade (see [Figures 33](#) and [34](#)).

As shown below, all the button functions of the Front Office Telephone do not change after the upgrade, but the Program 39 codes for PDN, SDN and DSS buttons change if the associated PDN/SDN or DSS port shifts. Also PhDN, Speed Dial, and Feature button codes do not change when ports shift.

10-Button Keystrip for Front Office Telephone on Port 012 -Before Upgrade		
Key No.	Code	Name
K10	497	SDS
K09	498	DND
K08	*103	SD103
K07	*102	SD102
K06	*101	SD101
K05	#017	DSS117
K04	##500	PhDN 500
K03	##019	SDN 119
K02	#000	DSS100
K01	##012	PDN 112

10-Button Keystrip for Front Office Telephone on Port 008 -After Upgrade		
Key No.	Code	Name
K10	497	SDS
K09	498	DND
K08	*103	SD103
K07	*102	SD102
K06	*101	SD101
K05	#013	DSS117
K04	##500	PhDN 500
K03	##015	SDN 119
K02	#000	DSS100
K01	##008	PDN 112

Programs *42-1 and *42-2

Although this example does not include an RDTU (T1) PCB, it should be noted that these programs require an RDTU slot number entry with DK Release 4.0. DK Admin/DK Backup automatically inserts the correct slot number for these programs during the upgrade process.

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