

D-Lite

IntelliProx Card Management Software



Users Guide v1.0



\$39.00 USD

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Introduction to *D-Lite*

D-Lite is a software program that allows you to easily manage an *IntelliProx* cardholder database. The program provides you with a user-friendly interface for card management, using a spreadsheet format (such as Microsoft Excel). An extensive online help file places assistance at your fingertips. Communication between the *D-Lite* program and the *IntelliProx* unit is done through a serial connection made directly between the *IntelliProx* and an open serial port on the host computer. The *D-Lite* program can handle up to 500 cards per *IntelliProx* unit and can handle a virtually unlimited number of *IntelliProx* units.

D-Lite is a fully functional Windows program, making full use of all popular Windows features such as resizing and relocating windows, drag-and-drop functions, multiple windows open simultaneously, background operation, and "real-time" operation. *D-Lite* operates under Windows 95, Windows 98, and Windows NT.



NOTE: Use caution if using the HPP-22 to program IntelliProx units in conjunction with the D-Lite Cardholder Database Management Software. Both the HPP-22 and D-Lite are able to enroll cardholders into IntelliProx units. This means it is possible to have the cardholder D-Lite file for an IntelliProx unit become out of sync with the cardholder file in the IntelliProx unit if the HPP-22 is used to program new cards. It is possible to synchronize the two sets of cardholder files by using the merge function in the D-Lite software. Please refer to the section on merging cardholder databases later in this Users Guide.

System Requirements

For proper operation of the *D-Lite* program the host computer operating the software must meet the following requirements.


- PC compatible computer using a Pentium-90 or faster microprocessor
- minimum of 16 MB of system RAM
- SVGA color monitor with SVGA graphics card (800 x 600 minimum resolution)
- CD-ROM
- keyboard
- mouse or other pointing device
- 5 MB of hard disk space
- a free COM port with a 16550 UART to support a direct RS-232 serial connection
- one of the following operating systems:
 - Windows 95™
 - Windows 98™
 - Windows NT™

COMTEST


The COMTEST program is a simple program. It is designed to send a string of characters out the host computer's COM port output and see if they are received back at the host computer's COM port input. It is not designed to determine if the COM port has more serious problems such as conflicts with other devices on the host computer. For these types of problems, troubleshooting by a computer technician is required. Instructions for using the COMTEST program are provided in the COMTEST Quick Start Guide document (P/N 01845-001) found in the \docs folder on the *D-Lite* CD-ROM.

Software Installation

An InstallShield wizard handles the software installation process. To accommodate the installation process, the host computer must have at least 5 MB of free hard disk space, and it must have an SVGA color monitor with an SVGA graphics card set at a minimum resolution of 800 x 600 pixels.

There are three ways to install the program: using the Run command from the  button on the Windows desktop, using the Windows Explorer program, or using the Add/Remove Programs icon in the Windows Control Panel. Place the CD-ROM into the CD-ROM drive and use the method with which you are most comfortable.

Installing with the Run Command

1. Click on the  button on the Windows desktop.
2. Scroll through the list of Start menu options and click on the Run command (see Figure 1-1).

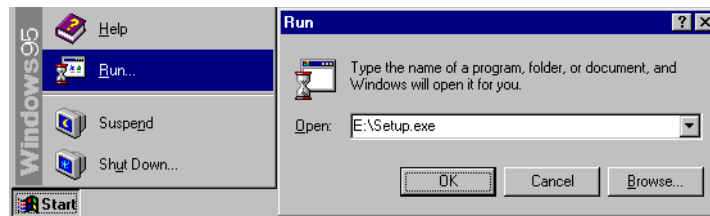




Figure 1-1 – Software Installation Using the Run Command

3. Click on the  button. Navigate through the list of disk volumes and folders and locate the "Setup.exe" program on the installation CD-ROM.
4. Click on the "Setup.exe" program. "Setup.exe" appears in the Open field in the Run window (see Figure 1-1).
5. Click on the  button. The installation program begins. Skip to the Installation Wizard section below.

Installing from Windows Explorer

1. Start the Windows Explorer program.
2. Navigate through the list of disk volumes and folders and locate the "Setup.exe" program on the installation CD-ROM (see Figure 1-2).

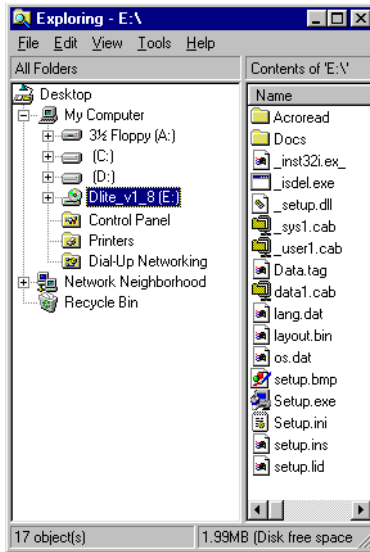






Figure 1-2 – Software Installation from the Windows Explorer Program

3. Double-click on the "Setup.exe" program and the installation program begins. Skip to the Installation Wizard section below.

Installing Using the Add/Remove Programs Feature

1. Click on the  Start button on the Windows desktop.
2. Scroll through the list of Start menu options and click on Settings → Control Panel. The Control Panel window, with a number of system icons, appears.



3. Locate and double-click on the  icon. An Add/Remove Programs Properties window appears.
4. Click on the  button in the top half of this window.
5. An Install Program from Floppy Disk or CD-ROM window appears. Click on the  button.
6. The Install Program from Floppy Disk or CD-ROM program automatically locates and starts the installation program on the *D-Lite* CD-ROM – skip to the Installation Wizard section below.

Installation Wizard

Once the installation wizard begins simply follow the instructions displayed in the installation windows.

After the Welcome and Software License windows are displayed, you are given the option of viewing the Readme.txt file. This file has the release notes for the *D-Lite* release and has other information regarding the *D-Lite* software. Please take a moment and review this file.

After reviewing the Readme.txt file, the Choose Installation Type window appears (see Figure 1-3). This window gives you the option of installing the Demonstration version of the program or the Operating version of the program.

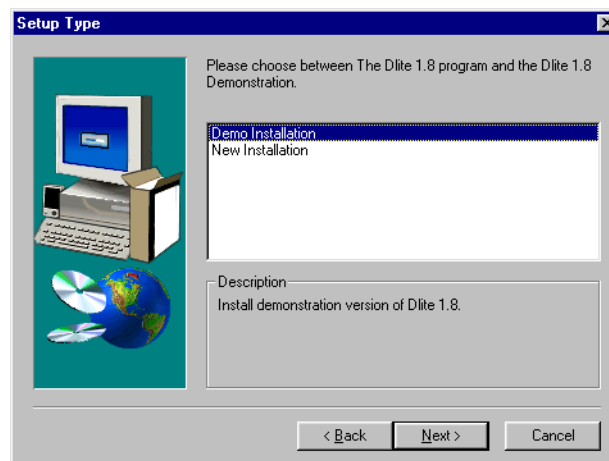


Figure 3 – Installation Type

After selecting the installation type a window is displayed reviewing the selected installation options. Finally, the installation begins. Once complete, a shortcut is placed on the



Windows™ desktop. Double-click on this shortcut () and the *D-Lite* program begins.

Uninstalling the Program

The easiest way to uninstall the *D-Lite* program is to run the uninstall script saved in the *D-Lite* directory. This is done using Windows™ Explorer.

1. Start the Windows™ Explorer program.
2. Navigate through the list of disk volumes and folders and locate the "Uninst.isu" program in the *D-Lite* folder.
3. Double-click on the "Uninst.isu" program and follow the instructions. When complete, the program is uninstalled. This means the program is erased from the hard disk. Once this process starts, it cannot be reversed.

Starting D-Lite




To start the program, simply double-click on the  shortcut on the Windows™ desktop. A *D-Lite* splash-screen is briefly displayed followed by the *D-Lite* program.




Figure 2-1 – *D-Lite* Splash-Screen

Logon

Once the program begins it prompts you for a password (see Figure 2-2).



Figure 2-2 – Logon Window

Click in the Password field and enter the password (the factory default password is "keri"). For every character you type, an asterisk is entered in the Password field. This is done so that if someone is looking over your shoulder, this person cannot learn your password. Once you enter the password, click on the  button to enter the program.

NOTE: Keri Systems strongly recommends changing the password as soon as you can. This prevents someone who knows the default password from having access to the D-Lite program. Instructions for changing the password are found in the Unit Commands section later in this document.

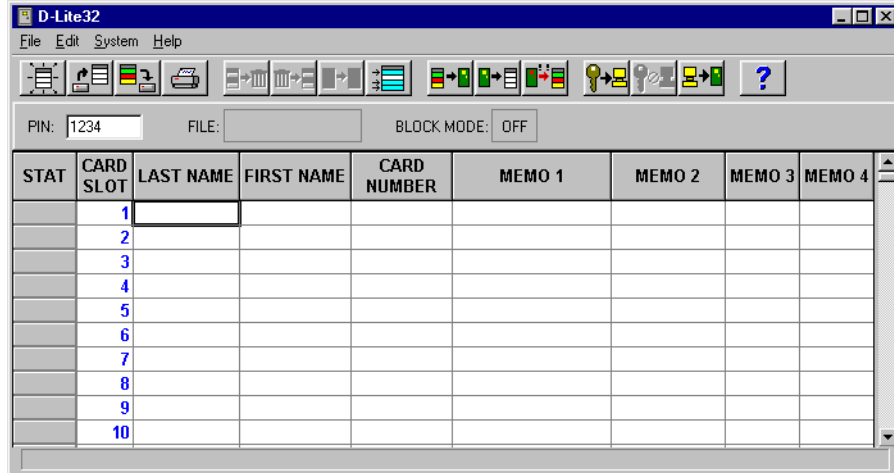


Figure 2-3 – The D-Lite Program Window

Configuration

Before operating the program, *D-Lite* must be configured for proper operation. There are four configuration options to be set.

- the Spreadsheet Font
- the Password
- the COM port
- the PC Personal Identification Number (PIN)

Set the Spreadsheet Font

Use the spreadsheet font to set the font, font size, and font style displayed on the spreadsheet window and printed.



NOTE: The System font is set as the Windows™ default font. However, for some printers, the System font automatically prints at 4 point size making a spreadsheet printout difficult to read. For ease of printing and screen formatting, Keri Systems recommends setting the spreadsheet font to a commonly used font (such as Arial, Helvetica, or Times New Roman) at a commonly printed size (such as 8, 10, or 12). The use of unique script fonts or large font sizes makes it difficult for the D-Lite program to setup its columns for viewing and printing.

1. To configure the spreadsheet printing font, click on the File → Spreadsheet Font pull-down menu option. The following window appears.

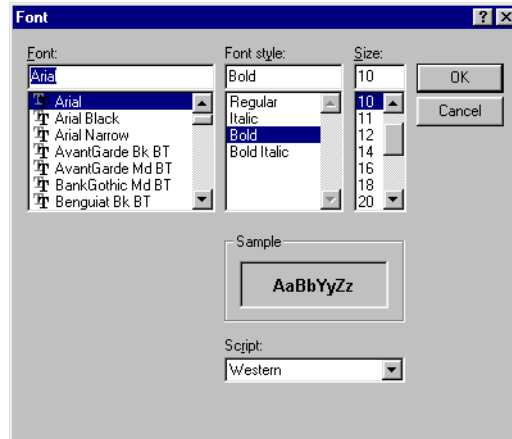


Figure 2-4 – The Spreadsheet Font Window

2. Scroll through the list of available fonts and click on the desired font.
3. Scroll through the list of available font styles and click on the desired style.
4. Scroll through the list of available font sizes and click on the desired size.
5. A sample of the selected font is displayed in the Sample field in the font window.
6. If the selected font is acceptable, click on the button.
7. To exit the spreadsheet font window without implementing a change, click on the button.

Set the Password

The password prevents just anyone from entering the *D-Lite* program and changing card/ cardholder entries. When starting the *D-Lite* program, you must enter the correct password in the Logon window to start the program.

1. To configure the password, click on the System → Set Configuration pull-down menu option. The following window appears.

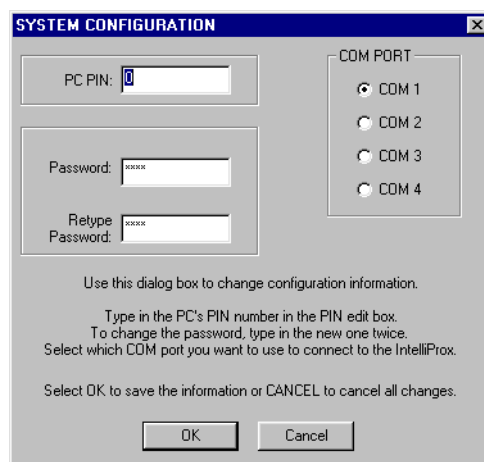




Figure 2-5 – Set the Password




2. Double-click in the Password field (see Figure 2-5). The asterisks in the field should all be highlighted.
3. Type the password you wish to use. The characters that you type appear in the Password field as asterisks. This is to prevent some one from looking over your shoulder as you type and learning your password.
4. Double-click in the Retype Password field (see Figure 2-5). The asterisks in the field should all be highlighted.
5. Again type the password you wish to use. This is done to verify the password you have selected has been entered correctly. The characters entered in both the Password and Retype Password fields must match for the password change to be accepted.
6. Click on the  button to accept the change.
7. To exit the system configuration window without implementing a change, click on the  button.

NOTE: Keri Systems strongly recommends changing from the default password of "keri" to a unique password to ensure that no one who knows the default password can access the IntelliProx unit.

NOTE: The password is case-insensitive; that means "KERI," "KeRi," and "keri" are equivalent passwords.

Set the COM Port

The COM port is the port through which all communication between *D-Lite* and the *IntelliProx* unit is done. It is critically important that the correct COM port value is entered. If the correct value is not entered, the *D-Lite* program cannot communicate with the *IntelliProx* unit.

1. To configure the COM port, click on the System → Set Configuration pull-down menu option. The window in Figure 2-5 appears.
2. Click on the  radio button corresponding to the COM port used for serial communication with the *IntelliProx* unit.
3. Click on the  button to accept the change.
4. To exit the system configuration window without implementing a change, click on the  button.

Set the PINs

There are two PINs (Personal Identification Numbers) used by the *D-Lite* program and the *IntelliProx* unit. The PC PIN identifies the host computer on which a cardholder file was created. The *IntelliProx* Unit PIN identifies the *IntelliProx* unit to which the cardholder file is being sent.

Whenever a cardholder file is downloaded from *D-Lite* to an *IntelliProx* unit, the *IntelliProx* compares the PC PIN stored in the cardholder file with the PIN set in the *IntelliProx's* memory and it compares the *IntelliProx* Unit PIN with the PIN set in the *IntelliProx's* memory. If the two sets of PINs match, the file is accepted, overwriting the data in the *IntelliProx*. If either of the two PINs do not match, the file is rejected.

Conversely, whenever a cardholder file is uploaded from an *IntelliProx* unit to *D-Lite*, the *D-Lite* program compares the PC PIN stored in the cardholder file with the PIN set in *D-Lite's* memory and it compares the *IntelliProx* Unit PIN with the PIN set in *D-Lite's* memory. If the two sets of PINs match, the file is accepted, overwriting the data in the *D-Lite* spreadsheet. If either of the two PINs do not match, the file is rejected.

Set the PC PIN

1. To configure the PC PIN, click on the System → Set Configuration pull-down menu option. The window in Figure 2-5 appears.
2. Double-click in the PC PIN field. The existing number is highlighted.
3. Enter the desired PIN. This PIN can be any number between 0 and 9999.

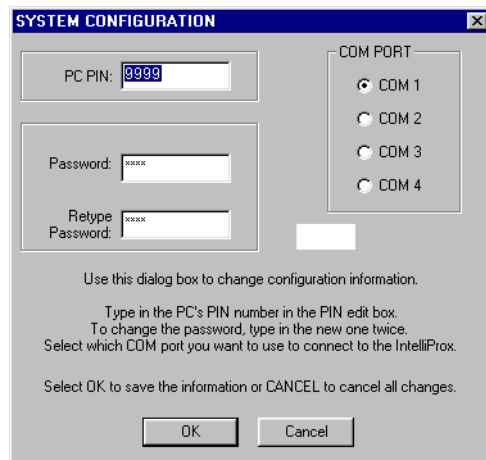
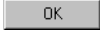


Figure 2-6 – New PC PIN

4. Click on the  button to accept the PC PIN entry.

NOTE: This command changes the PC PIN for a given cardholder database file, but does not send that PC PIN to the IntelliProx unit. Perform the following steps to send the PC PIN to the IntelliProx unit.

Send the PC PIN to the *IntelliProx* Unit

1. Click on the System → Unit Commands pull-down menu option. The following window appears.

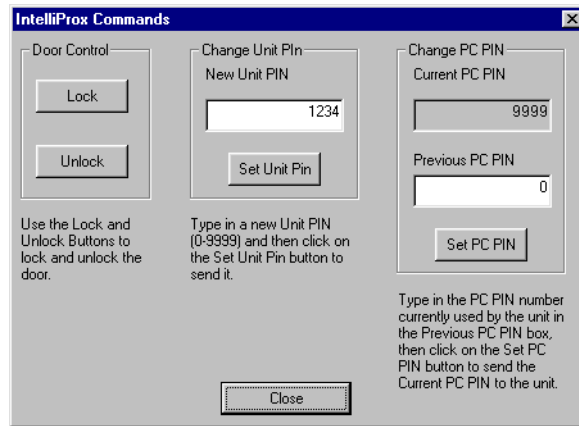



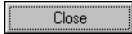
Figure 2-7 – Set PC and *IntelliProx* Unit PINs

2. Double-click in the Previous PC PIN field. The number is highlighted.
3. Enter the existing PC PIN.
4. Click on the  button. The new PC PIN is sent to the *IntelliProx* unit. From this point on, a cardholder data file that is sent to the *IntelliProx* unit must have this new PC PIN number or the file will be rejected by the *IntelliProx* unit.

*NOTE: Keri Systems strongly recommends changing the PC PIN from the default value of 0 to a unique number. This ensures that no one who knows the default PC PIN value can edit and send a cardholder file to an *IntelliProx* unit.*

Set the *IntelliProx* Unit PIN

Perform the following steps to set the *IntelliProx* Unit PIN.

1. Click on the System → Unit Commands pull-down menu option. The window in Figure 2-7 appears.
2. Double-click in the New Unit PIN field. The number is highlighted.
3. Enter the number to which you want to change. This PIN can be any number between 0 and 9999.
4. Click on the  button. The new Unit PIN is sent to the *IntelliProx* unit. From this point on, a cardholder data file that is sent to the *IntelliProx* unit must have this new Unit PIN number or the file will be rejected by the *IntelliProx* unit.

*NOTE: Keri Systems strongly recommends changing the *IntelliProx* Unit PIN from the default value of 1234 to a unique number. This ensures that no one who knows the default *IntelliProx* Unit PIN value can edit and send a cardholder file to an *IntelliProx* unit.*

Managing Cardholder/IntelliProx Databases

There are four ways to create, edit, and maintain cardholder databases.

1. Create a new cardholder database file and download the file to an *IntelliProx*.
2. Open and edit a stored database file and download the file to an *IntelliProx*.
3. Upload an existing *IntelliProx* database to the *D-Lite* program and save the information in a cardholder file.
4. Merge an existing cardholder database file with an uploaded *IntelliProx* database to create a combined database file.

Skip to the section that best describes your purpose for information on how to create, edit, and maintain a cardholder database.


Create a New Cardholder Database File and Download the File to an *IntelliProx* Unit

The instructions in this section explain how to create a new cardholder database file and then download that file to an *IntelliProx* unit. This is done with the following steps.

- create a new cardholder database file
- learn new cards (card enrollment)
- enter cardholder data
- save the new cardholder database file
- download the new cardholder database to an *IntelliProx* unit

Create a New File

Use the Create a New Card File command to clear all entries in the cardholder spreadsheet and to prepare the spreadsheet for the creation of a new cardholder file.

1. Click on the  button or use the File → New pull-down menu command. All data in the spreadsheet is cleared and the spreadsheet displays a blank form. The *IntelliProx* PIN is returned to the default value 1234.


NOTE: The PC PIN does not return to the default value of 0, but remains at the value set by the Set Configuration command.

NOTE: If changes have been made to an existing cardholder file displayed in the spreadsheet when the New command is performed, a warning window appears giving you the opportunity to save those changes before clearing the existing cardholder file.

Learn Mode

Use the Learn Mode commands to teach the cardholder database file which cards to accept.

Start Learn Mode

1. To start Learn Mode, click on the  button or use the System → Start Learn Mode pull-down menu command. When the reader switches to enrollment mode, the reader's LED changes from steady Amber to blinking Green.
2. Present cards to be enrolled to the reader, one at a time. When a card is presented a 60 second timer begins. The next card must be presented within 60 seconds or Card Learn Mode will timeout and automatically end.

3. When a card is accepted the following things happen (see Figure 3-1).
 - the reader beeps once and its LED flashes Red once
 - the card's number is recorded in the first empty slot beginning at the row in the cardholder spreadsheet where the cursor is (i.e. if the cursor is on a cell in row 1, card numbers are recorded in the first empty slot beginning on row 1 – if the cursor is on a cell in row 42, card numbers are recorded in the first empty slot beginning on row 42)
 - the row to which the card has been assigned is tagged as a **NEW** entry and the row's color switches to Green

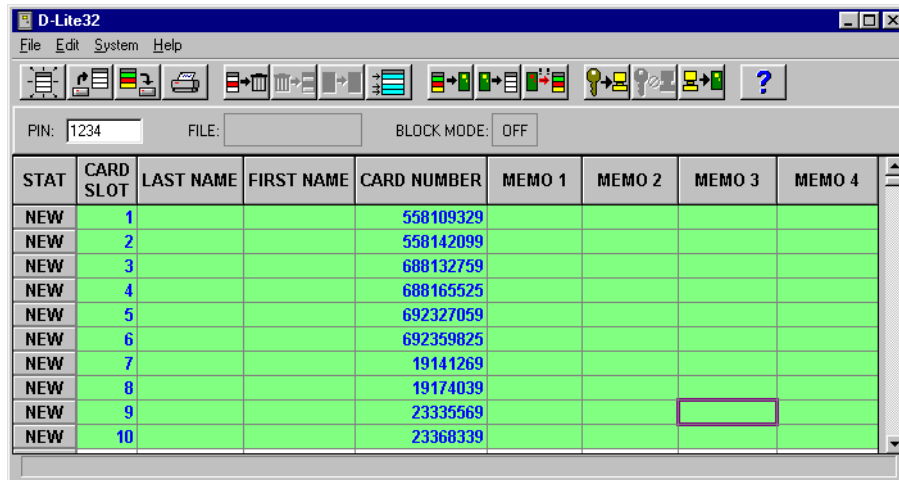


Figure 3-1 – Learning a Card

4. When a card is not accepted the following things happen.
 - the reader beeps once and its LED flashes Red once
 - an error message appears explaining why the card is not accepted
5. If a card is presented after Learn Mode has timed out the following window appears.

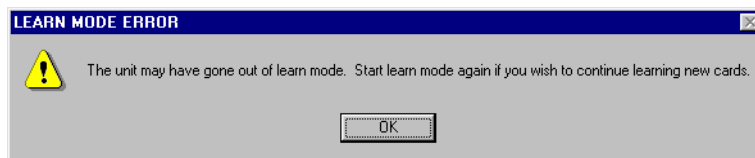



Figure 3-2 – Card Learn Mode Timeout

Stop Learn Mode

1. To stop learn Mode once all cards have been presented, click on the  button or use the System → Stop Learn Mode pull-down menu command.
2. When the reader exits learn mode the following things happen.
 - the reader beeps twice and its LED changes from blinking Green back to steady Amber

Entering Cardholder Data

Cardholder data can now be entered into the spreadsheet's data fields for each card taught to the cardholder database file. Simply enter cardholder information into the appropriate cells of the spreadsheet. The spreadsheet has the following data fields (see Figure 3-1).

STAT – displays the status of a given row in the spreadsheet. This field is not editable. The status remains on screen until the cardholder file is saved at which time all status values are cleared. There are three status values.

- NEW – displayed whenever a card is learned by the system
- MOD – displayed whenever the data for a card has been modified
- DEL – displayed whenever a card has been identified for deletion

CARD SLOT – identifies the slot number for a card in the spreadsheet. This field is not editable. There are 500 slots possible in the *IntelliProx* so this number is between 1 and 500.

LAST NAME – displays the last name of the cardholder for a card/slot in the spreadsheet. Enter the name or edit this field as needed.

FIRST NAME – displays the first name of the cardholder for a card/slot in the spreadsheet. Enter the name or edit this field as needed.

CARD NUMBER – displays the identification number embedded in the card for a card learned by the spreadsheet. The reader reads this number from the card and enters it into the cardholder spreadsheet. This field is not editable.

MEMO1 TO 4 – there are four Cardholder Memo fields. You decide what kind of information should go into these fields. Some possibilities are a cardholders' address, telephone number, department, or employee number. Enter information or edit these fields as required.

As an example, cardholder information for the first 10 Presidents of the United States has been entered. The resulting cardholder information should look similar to Figure 3-3.

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
MOD	1	Washington	George	558109329	First President	Federalist		
MOD	2	Adams	John	558142099	Second President	Federalist		
MOD	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
MOD	4	Madison	James	688165525	Fourth President	Demo-Repub		
MOD	5	Monroe	James	692327059	Fifth President	Demo-Repub		
MOD	6	Adams	James	692359825	Sixth President	Demo-Repub		
MOD	7	Jackson	Andrew	19141269	Seventh President	Democrat		
MOD	8	van Buren	Martin	19174039	Eighth President	Democrat		
MOD	9	Harrison	William	23335569	Ninth President	Whig		
MOD	10	Tyler	John	23368339	Tenth President	Whig		

Figure 3-3 – Cardholder Spreadsheet Data Fields

Saving a File for the First Time

Use the Save As command to save cardholder spreadsheet data to a file on your computer system.

1. Click on the File → Save As pull-down menu command. The following window appears.

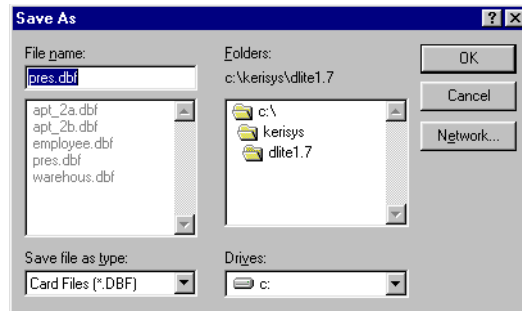



Figure 3-4 – Saving a New File

2. Click in the File name field and type the name for the file to which all this cardholder data should be saved. The name should be descriptive of the type of cardholders in the file, but the file name must be 8 characters or less. In this example, the file name pres.dbf is used.
3. Click on the  button and all data within the cardholder spreadsheet is then saved in its file.

Download the Data File to an *IntelliProx* Unit

Once the data file is created it can be sent to an *IntelliProx* unit. The *IntelliProx* must be connected to the host computer with the *D-Lite* program using the instructions provided in the *IntelliProx* SM-2000 Quick Start Guide (document P/N 01830-003). Use the Download Cards command to download the card file.


1. Click on the  button or use the System → Download Cards pull-down menu command.
2. Before downloading data the *D-Lite* program compares the *IntelliProx* PIN stored in the *IntelliProx* with the *IntelliProx* PIN recognized by the *D-Lite* program. Both PINs must match or the download is halted. (Please refer to the Set the PINs section earlier in this document for information regarding PC and *IntelliProx* Unit PINs.)
3. Once the download command is begun, the reader's LED goes out (to indicate the *IntelliProx* is in data transfer mode), and the card file is downloaded from the spreadsheet to the *IntelliProx*. A communication progress window displays the data transfer progress (see Figure 3-5).



Figure 3-5 – Communication Progress Window

4. When the download is complete a download status box is displayed summarizing what information was downloaded (see Figure 3-6).



Figure 3-6 – Download Status

5. After a 60 second delay, the reader beeps twice, its LED flashes Green and then returns to normal operation with the LED at steady Amber.
6. If a valid card is presented during the delay, the following things happen.
 - the *IntelliProx* process the card
 - the door is unlocked
 - the *IntelliProx* returns to the delay state until the 60 seconds times out
7. If an invalid card is presented during the delay, the following things happen.
 - the reader beeps and flashes its Red LED
 - the *IntelliProx* stays in the delay state until the 60 seconds times out

NOTE: A download overwrites whatever data is in the IntelliProx. The original data in the IntelliProx is not recoverable once a download starts.

Now that the cardholder data file has been downloaded, the *IntelliProx* unit is ready for use.

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Open and Edit a Stored Database File, Save the File, and Download the File to an *IntelliProx*

The instructions in this section demonstrate how to open an existing cardholder database file, how to edit data in that file, how to save that data, how to save that data under a different file name, and how to download the file for use by an *IntelliProx* unit. This is done with the following steps.

- open an existing cardholder data base file
- edit a spreadsheet cell
- delete a cardholder
- undelete a cardholder
- sort cardholder data
- use block mode commands
- save the cardholder database file
- save the cardholder database file under a new name
- download the cardholder database file to an *IntelliProx* unit

Open an Existing Database File

Use the Open a Card File command to open an existing cardholder database file.

1. Click on the  button or use the File → Open pull-down menu command. The following window appears.

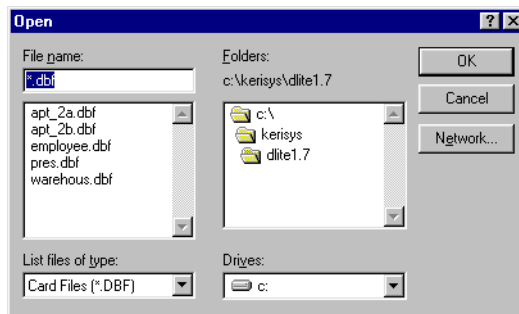



Figure 4-1 – Open an Existing File

2. To open an existing cardholder file, select the file from the list displayed under the “File name:” box. Use the scroll bar on the right side of the box to scroll through all the available files and click on the desired file. Then click on the  to load the card file. All data in the cardholder file is entered into the program spreadsheet.

Editing Cardholder Data

In addition to editing data within individual spreadsheet cells (for example, Name or Memo fields), you can edit the cardholder database by deleting and undeleting cardholders, sorting cardholder data, and block copying cardholder data from one spreadsheet cell to a number of cells.

Editing a Spreadsheet Cell

To edit a spreadsheet cell, simply click in the desired cell and enter the new information. The new information overwrites the existing information. To exit a cell you are editing by mistake, press the **ESC** key. The original information is restored to the cell.


Deleting a Cardholder

Deleting a cardholder removes that cardholder's information from the spreadsheet, freeing that card slot for use by another cardholder. Perform the following steps to delete a cardholder.

1. Click on any spreadsheet cell for the cardholder to be deleted (see Figure 4-2).


STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
	4	Madison	James	688165525	Fourth President	Demo-Repub		
	5	Monroe	James	692327059	Fifth President	Demo-Repub		
	6	Adams	James	692359825	Sixth President	Demo-Repub		
	7	Jackson	Andrew	19141269	Seventh President	Democrat		
	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-2 – Selecting a Cardholder for Deletion

2. Click on the  button or use the Edit → Delete pull-down menu command. The selected cardholder is marked for deletion (see Figure 4-3).

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
	4	Madison	James	688165525	Fourth President	Demo-Repub		
	5	Monroe	James	692327059	Fifth President	Demo-Repub		
DEL	6	Adams	James	692359825	Sixth President	Demo-Repub		
	7	Jackson	Andrew	19141269	Seventh President	Democrat		
	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-3 – Cardholder Marked for Deletion

3. Click on the  button or use the File → Save pull-down menu command. The information for the selected cardholder is removed from the spreadsheet and the card slot is free for use by a new cardholder (see Figure 4-4).


STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
	4	Madison	James	688165525	Fourth President	Demo-Repub		
	5	Monroe	James	692327059	Fifth President	Demo-Repub		
	6							
	7	Jackson	Andrew	19141269	Seventh President	Democrat		
	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-4 – Deleted Cardholder

NOTE: Once the cardholder file is saved, the deleted cardholder is permanently removed from the cardholder file and the cardholder's data cannot be recovered. However, the card is not recognized as deleted until the cardholder file is downloaded to the IntelliProx unit. Instructions for downloading the cardholder file to the IntelliProx unit are provided in the [Download the Data File to an IntelliProx Unit](#) section later in this Users Guide.

Undeleting a Cardholder

Undeleting a cardholder restores that cardholder's information to the spreadsheet. This can only be done if the cardholder selected for deletion has not been saved making the deletion permanent (see Figure 4-3 versus Figure 4-4). Perform the following steps to undelete a cardholder.

1. Click on any spreadsheet cell for the cardholder to be undeleted (see Figure 4-3).
2. Click on the  button or use the Edit → Undelete pull-down menu command. The selected cardholder is restored to the spreadsheet (see Figure 4-5).

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
	4	Madison	James	688165525	Fourth President	Demo-Repub		
	5	Monroe	James	692327059	Fifth President	Demo-Repub		
	6	Adams	James	692359825	Sixth President	Demo-Repub		
	7	Jackson	Andrew	19141269	Seventh President	Democrat		
	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-5 – Undeleted Cardholder


Sorting Cardholder Data

Use the Sort the Cardholder Data command to reorganize the data in your spreadsheet. Perform the following steps to sort cardholder data.

1. Click on the heading at the top of a column by which you want to sort data (see Figure 4-6).

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
1		Washington	George	558109329	First President	Federalist		
2		Adams	John	558142099	Second President	Federalist		
3		Jefferson	Thomas	688132759	Third President	Demo-Repub		
4		Madison	James	688165525	Fourth President	Demo-Repub		
5		Monroe	James	692327059	Fifth President	Demo-Repub		
6		Adams	James	692359825	Sixth President	Demo-Repub		
7		Jackson	Andrew	19141269	Seventh President	Democrat		
8		van Buren	Martin	19174039	Eighth President	Democrat		
9		Harrison	William	23335569	Ninth President	Whig		
10		Tyler	John	23368339	Tenth President	Whig		

Figure 4-6 – Cardholder Data Before Sorting


2. Now click on the  button or use the Edit → Sort pull-down menu command. The data in the spreadsheet is sorted in ascending order (lowest to highest number or A to Z) based on the column you selected. It is then displayed in the D-Lite window (see Figure 4-7).

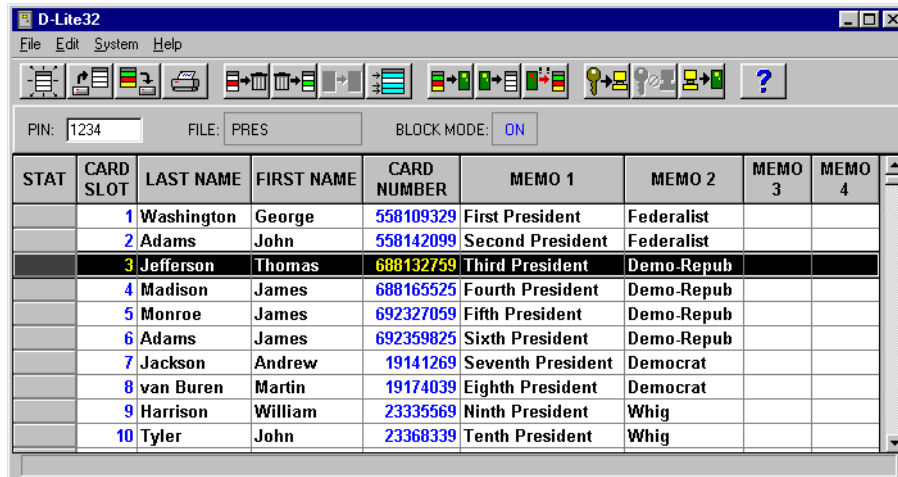
STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
6		Adams	James	692359825	Sixth President	Demo-Repub		
2		Adams	John	558142099	Second President	Federalist		
9		Harrison	William	23335569	Ninth President	Whig		
7		Jackson	Andrew	19141269	Seventh President	Democrat		
3		Jefferson	Thomas	688132759	Third President	Demo-Repub		
4		Madison	James	688165525	Fourth President	Demo-Repub		
5		Monroe	James	692327059	Fifth President	Demo-Repub		
10		Tyler	John	23368339	Tenth President	Whig		
8		van Buren	Martin	19174039	Eighth President	Democrat		
1		Washington	George	558109329	First President	Federalist		

Figure 4-7 – Cardholder Data After Sorting

Block Command Mode

Use the Select a Block of Data command to perform the same action on multiple rows in the data base. Perform the following steps to perform block data commands.

1. To select a block of data, click on the  button or use the Edit → Block pull-down menu command. The **BLOCK MODE: ON** flag turns on to let you know that block mode is enabled.
2. Click on any spreadsheet cell in the first row to be selected (see Figure 4-8).



STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
	4	Madison	James	688165525	Fourth President	Demo-Repub		
	5	Monroe	James	692327059	Fifth President	Demo-Repub		
	6	Adams	James	692359825	Sixth President	Demo-Repub		
	7	Jackson	Andrew	19141269	Seventh President	Democrat		
	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-8 – Select a Row for Block Mode Command

3. There are three ways to select multiple rows (see Figure 4-9).
 - Hold down the Shift key and click on any cell in the last row to be selected. The selected rows and all rows in between are highlighted.
 - Click on a cell in the first row to be selected and drag the mouse down to a cell in the last row to be selected. The selected rows and all rows in between are highlighted.
 - Hold down the **Ctrl** key and click on a cell in any row. The selected rows are highlighted (this method is best used when the rows to be selected are not in consecutive order).

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
	4	Madison	James	688165525	Fourth President	Demo-Repub		
	5	Monroe	James	692327059	Fifth President	Demo-Repub		
	6	Adams	James	692359825	Sixth President	Demo-Repub		
	7	Jackson	Andrew	19141269	Seventh President	Democrat		
	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-9 – Multiple Rows Selected for Block Mode Command


- Now click on the action you wish to perform on all these rows. The action is performed and the **BLOCK MODE: OFF** flag turns off to let you know that block mode is disabled. For example, click on the delete a card slot row command and the block selected rows are marked for deletion (see Figure 4-10).

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
	1	Washington	George	558109329	First President	Federalist		
	2	Adams	John	558142099	Second President	Federalist		
DEL	3	Jefferson	Thomas	688132759	Third President	Demo-Repub		
DEL	4	Madison	James	688165525	Fourth President	Demo-Repub		
DEL	5	Monroe	James	692327059	Fifth President	Demo-Repub		
DEL	6	Adams	James	692359825	Sixth President	Demo-Repub		
DEL	7	Jackson	Andrew	19141269	Seventh President	Democrat		
DEL	8	van Buren	Martin	19174039	Eighth President	Democrat		
	9	Harrison	William	23335569	Ninth President	Whig		
	10	Tyler	John	23368339	Tenth President	Whig		

Figure 4-10 – Block Mode Command Performed

Saving a File

Use the Save command to save the cardholder spreadsheet to a cardholder data file on your computer system. Perform the following steps to save a cardholder data file.

- Click on the  button or use the File → Save pull-down menu command. The spreadsheet data information is immediately saved to the file name listed in the **FILE: PRES** field of the *D-Lite* screen.

Saving an Existing File Under a New Name

Use the Save As command to save a cardholder spreadsheet to a new cardholder data file on your computer system. Typically, this is done when a cardholder data file can be applied to two or more *IntelliProx* units. An original cardholder data file is created and saved, and then the same data is saved to another file.

1. Use the File → Save As pull-down menu command. The following window appears.

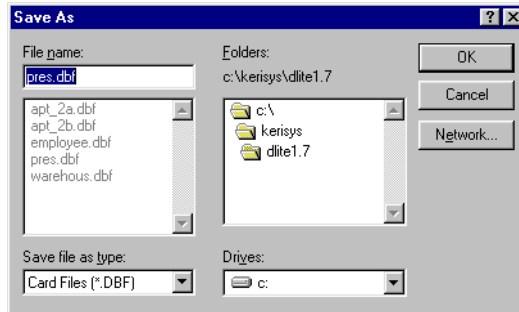



Figure 4-11 – Saving a File Under a New Name

2. Click in the File name field and type the name for the file to which this cardholder data should be saved. The name should be descriptive of the type of cardholders in the file, but the file name must be 8 characters or less. In this example, the file name pres.dbf is used.
3. Click on the  button and all data within the cardholder spreadsheet is then saved in its file.

Download the Data File to an *IntelliProx* Unit

Once the data file is created it can be sent to an *IntelliProx* unit. The *IntelliProx* must be connected to the host computer with the *D-Lite* program using the instructions provided in the *IntelliProx* SM-2000 Quick Start Guide (document P/N 01830-003). Use the Download Cards command to download the card file.


1. Click on the  button or use the System → Download Cards pull-down menu command.
2. Before downloading data the *D-Lite* program compares the *IntelliProx* PIN stored in the *IntelliProx* with the *IntelliProx* PIN recognized by the *D-Lite* program. Both PINs must match or the download is halted. (Please refer to the Set the PINs section earlier in this document for information regarding PC and *IntelliProx* Unit PINs.)
3. Once the download command is begun, the reader's LED goes out (to indicate the *IntelliProx* is in data transfer mode), and the card file is downloaded from the spreadsheet to the *IntelliProx*. A communication progress window displays the data transfer progress (see Figure 4-12).



Figure 4-12 – Communication Progress Window

4. When the download is complete a download status box is displayed summarizing what information was downloaded.



Figure 4-13 – Download Status

5. After a 60 second delay, the reader beeps twice, its LED flashes Green and then returns to normal operation with the LED at steady Amber.
6. If a valid card is presented during the delay, the following things happen.
 - the *IntelliProx* process the card
 - the door is unlocked
 - the *IntelliProx* returns to the delay state until the 60 seconds times out
7. If an invalid card is presented during the delay, the following things happen.
 - the reader beeps and flashes its Red LED
 - the *IntelliProx* stays in the delay state until the 60 seconds times out

NOTE: A download overwrites whatever data is in the IntelliProx. The original data in the IntelliProx is not recoverable once a download starts.

Upload an Existing *IntelliProx* Database to the *D-Lite* Program and Save the Information to a New Cardholder File.

If an *IntelliProx* unit is already programmed with a cardholder database, that database can be uploaded to the *D-Lite* program. Once uploaded, cardholder data can be added to the database and the database file can be saved to a new cardholder data file on the computer system.

Uploading the Database

Perform the following steps to upload the cardholder database from the *IntelliProx*.


1. Click on the  button or use the System → Upload New Cards pull-down menu command.
2. Before uploading data the *D-Lite* program compares the *IntelliProx* PIN stored in the *IntelliProx* with the *IntelliProx* PIN recognized by the *D-Lite* program. Both PINs must match or the upload is halted. (Please refer to the Set the PINs section earlier in this document for information regarding PC and *IntelliProx* Unit PINs.)
3. Once the upload command is begun, the reader's LED goes out (to indicate the *IntelliProx* is in data transfer mode), and the card file is uploaded from the *IntelliProx* to the spreadsheet. During the upload process the following upload progress window appears.



Figure 5-1 – Communication Progress Window

4. When the upload is complete the following upload summary window appears.



Figure 5-2 – Upload Summary

When the upload is complete all information uploaded is displayed in the spreadsheet (see Figure 5-3).

STAT	CARD SLOT	LAST NAME	FIRST NAME	CARD NUMBER	MEMO 1	MEMO 2	MEMO 3	MEMO 4
NEW	1			558109329				
NEW	2			558142099				
NEW	3			688132759				
NEW	4			688165525				
NEW	5			692327059				
NEW	6			692359825				
NEW	7			19141269				
NEW	8			19174039				
NEW	9			23335569				
NEW	10			23368339				

Figure 5-3 – Uploaded *IntelliProx* Cardholder Database

Editing a Spreadsheet Cell

To edit a spreadsheet cell, simply click in the desired cell and enter the new information. The new information overwrites the existing information. To exit a cell you are editing by mistake, press the **ESC** key. The original information is restored to the cell.

Saving to a New Cardholder File

Use the Save As command to save the uploaded cardholder data to a new cardholder data file on your computer system.

1. Use the File → Save As pull-down menu command. The following window appears.

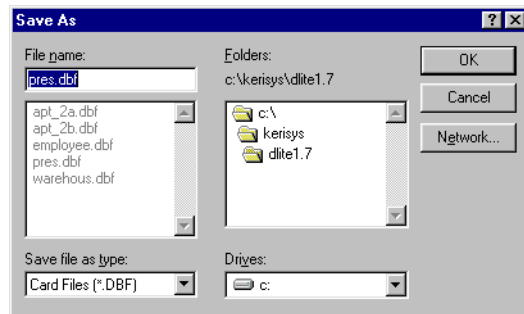



Figure 5-4 – Saving a File Under a New Name


2. Click in the File name field and type the name for the file to which this cardholder data should be saved. The name should be descriptive of the type of cardholders in the file, but the file name must be 8 characters or less. In this example, the file name pres.dbf is used.
3. Click on the  button and all data within the cardholder spreadsheet is then saved in its file.

Merge an Existing Cardholder Database File with an Uploaded *IntelliProx* Database

In some cases you may want to merge a cardholder file saved on the computer with a cardholder database programmed into an *IntelliProx* unit. Perform the following steps to merge the two cardholder databases.

Open an Existing Cardholder Database File

Use the Open a Card File command to open an existing cardholder database file.

1. Click on the  button or use the File → Open pull-down menu command. The following window appears.

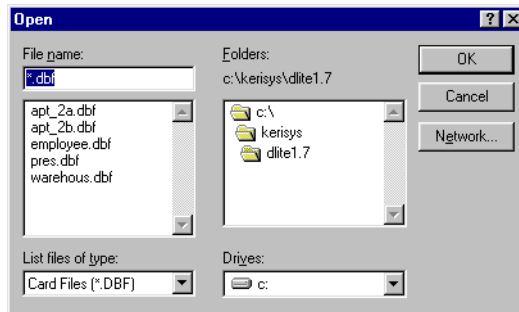




Figure 6-1 – Open an Existing File

2. To open an existing cardholder file, select the file from the list displayed under the “File name:” box. Use the scroll bar on the right side of the box to scroll through all the available files and click on the desired file. Then click on the  to load the card file. All data in the cardholder file is entered into the program spreadsheet.

Merge the *IntelliProx* File

1. Click on the  button or use the System → Upload Merge Cards pull-down menu command.
2. Before merging data the *D-Lite* program compares the *IntelliProx* PIN stored in the *IntelliProx* with the *IntelliProx* PIN recognized by the *D-Lite* program. Both PINs must match or the download is halted. (Please refer to the Set the PINs section earlier in this document for information regarding PC and *IntelliProx* Unit PINs.)
3. Before beginning the merge, since a merge modifies the contents of the spreadsheet in the *D-Lite* program, one last warning box is displayed.

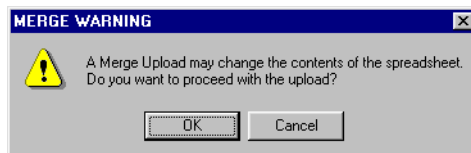


Figure 6-2 – Merge Warning Window

4. Click on the  button to start the merge.

5. Once the merge is begun, the reader's LED goes out (to indicate the *IntelliProx* is in data transfer mode), and the card file is read from the *IntelliProx* to the spreadsheet. A communication progress window displays the data transfer progress (Figure 6-3).



Figure 6-3 – Communication Progress Window

6. Data between the card file and the spreadsheet is examined row by row. Depending upon what the program finds, there are four possible actions.
 - The card and slot numbers are identical indicating the row is for an existing cardholder. There is no change to the data in the spreadsheet.
 - The card and slot numbers are in the card file, but not in the spreadsheet indicating this is a new card/slot entry. It is added to the spreadsheet, the row is highlighted in GREEN and “NEW” is displayed in the STAT column.
 - The card and slot numbers are not in the card file, but are in the spreadsheet indicating this card has been deleted from the *IntelliProx*. The row is highlighted in RED and “DEL” is displayed in the STAT column.
 - The card and slot numbers from the card file do not match the card and slot numbers in the spreadsheet indicating a change has been made to a card/slot. The information that is provided by the *IntelliProx*'s card file takes precedence over the information that is in the spreadsheet. The *IntelliProx* information overwrites the card file information.
7. After a 60 second delay, the reader beeps twice, its LED flashes Green and then returns to normal operation with the LED at steady Amber.
8. If a valid card is presented during the delay, the following things happen.
 - the *IntelliProx* process the card
 - the door is unlocked
 - the *IntelliProx* returns to the delay state until the 60 seconds times out
9. If an invalid card is presented during the delay, the following things happen.
 - the reader beeps and flashes its Red LED
 - the *IntelliProx* stays in the delay state until the 60 seconds times out
10. When the merge is complete a merge results box is displayed.

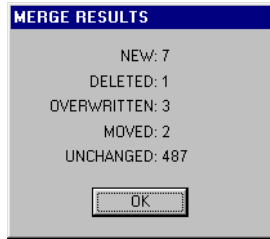
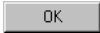


Figure 6-4 – Merge Summary


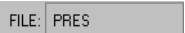
11. Click on the  button and you can now enter new data or edit existing data in the spreadsheet.

Saving the Merged Cardholder Spreadsheet

Use the Save command to save the merged cardholder spreadsheet to the original cardholder data file or use the Save As command to save the merged cardholder spreadsheet to a new cardholder data file.

Saving the Merged File to the Original Cardholder Data File

Perform the following steps to save the cardholder data file to the original file.

1. Click on the  button or use the File → Save pull-down menu command. The spreadsheet data information is immediately saved to the file name listed in the  field of the *D-Lite* screen.

Saving the Merged File Under a New File Name

Perform the following steps to save the cardholder data file under a new file name.

1. Use the File → Save As pull-down menu command. The following window appears.

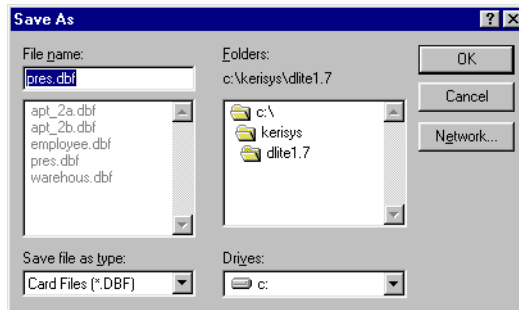
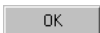


Figure 6-5 – Saving a File Under a New Name




2. Click in the File name field and type the name for the file to which this cardholder data should be saved. The name should be descriptive of the type of cardholders in the file, but the file name must be 8 characters or less. In this example, the file name pres.dbf is used.
3. Click on the  button and all data within the cardholder spreadsheet is then saved in its file.


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Other Features

There are a number of other features available with the *D-Lite* program. These features make it easier to use the program, print cardholder information, and manually control the door associated with an *IntelliProx* unit.



Resizing Columns

If a column is too narrow to display all the data in the column it can be resized by dragging the column boundary to the desired size. While within the cells of the spreadsheet, the mouse cursor looks like a small cross: . When the mouse cursor is over the column header row, it will change from a  to a  whenever the cursor hits a resizable column boundary.

1. Locate the right boundary for the column to resize. The mouse cursor changes to .
2. Click, hold, and drag the mouse toward the middle of the column to make the column smaller and away from the middle of the column to make the column larger.
3. Release the mouse button and the new column size is set.

NOTE: If reducing the column size truncates the column title, simply close and reopen the program and the column title row will resize itself to accommodate the column titles.

Online Help

Online help is built into the *D-Lite* program. To access online help, click on the  button or click on Help → Contents to open the online help window. Once in online help, simply "point and click" on the item about which you have a question. If the item is nested under a pull-down menu, click on the menu item and follow your way down the menu tree until you locate the item. Once you've found the item, click on it and a brief description appears. When you are finished reviewing the help information, click on the  box in the upper right corner of the help window to close the window.

NOTE: When using online help, you may consider resizing the D-Lite window to take up half of the computer screen and then resizing the online help window to take up the other half of the computer screen. This allows you to jump back and forth between the program and the online help, tracking down information for the desired task.


Locating the Software Revision

The *D-Lite* software revision is stored in the program. Perform the following steps to retrieve the software revision.

1. Click on the Help → About pull-down menu option. The following window appears.



Figure 7-1 – Locating the Software Revision

2. After viewing the software revision, click on the  button to close the window.

Printing a Cardholder Database File


Printer Setup

Use the Printer Setup command to configure the printer. The printer Setup command calls up the Windows™ operating system printer configuration dialog box for the printer selected as the Windows™ default printer. For information on how to set the printer configuration parameters click on the Help → Using Help pull-down menu option to access the help files provided by the Windows™ operating system program.

NOTE: Although the printer setup window gives you the option to select a different printer, the D-Lite program will only print to the printer designated as the Windows default printer.

Print the Cardholder File

Use the Print command to print a hard copy of the cardholder file on display.

1. To print, click on the  button or use the File → Print pull-down menu command. The following window appears.

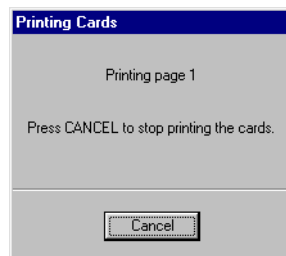



Figure 7-2 – Print in Progress Window

2. Click on the  button to stop the print job. Otherwise, the Print Progress window closes when the print job is complete.

NOTE: The cardholder spreadsheet consists of 500 card slots and all the associated data. For a printer configured to print standard letter size sheets in landscape mode, this can take between 15 and 20 pages.

Unit Status

Use the Get Unit Status command to retrieve status information from the *IntelliProx* unit.

1. Click on the System → Get Unit Status pull-down menu command.
2. Before requesting unit status the *D-Lite* program compares the *IntelliProx* PIN stored in the *IntelliProx* with the *IntelliProx* PIN recognized by the *D-Lite* program. Both PINs must match or the download is halted. (Please refer to the Set the PINs section earlier in this document for information regarding PC and *IntelliProx* Unit PINs.)
3. If *D-Lite* can communicate with the *IntelliProx* unit the following window appears.

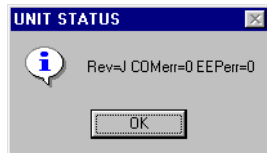



Figure 7-3 – Unit Status Window

The Unit Status window has three fields.

- The Rev = X field provides the firmware revision of the *IntelliProx* unit.
 - The COMerr = # field provides the number of COM port communication errors that have occurred since the last time the *IntelliProx* unit was reset.
 - The EEPerr = # field provides the number of EEPROM errors that have occurred since the last time the *IntelliProx* unit was reset.
4. When the status command is sent to the *IntelliProx* the reader's LED goes out indicating the *IntelliProx* is in data transfer mode.
 5. After a 60 second delay, the reader beeps twice, its LED flashes Green and then returns to normal operation with the LED at steady Amber.
 6. If a valid card is presented during the delay, the following things happen.
 - the *IntelliProx* process the card
 - the door is unlocked
 - the *IntelliProx* returns to the delay state until the 60 seconds times out
 7. If an invalid card is presented during the delay, the following things happen.
 - the reader beeps and flashes its Red LED
 - the *IntelliProx* stays in the delay state until the 60 seconds times out

Unit Commands

Use this command to immediately lock or unlock the door. This command also allows you to change the *IntelliProx* unit's PIN or change the PC's PIN, but information for changing these PIN values is found in the [Set the PINs](#) section earlier in this Users Guide.

1. Click on the  button or use the System → Unit Commands pull-down menu. The following window appears.

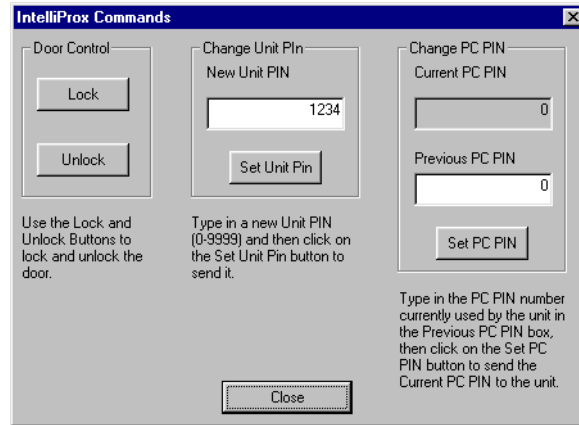


Figure 7-4 – Unit Commands Window

Lock the Door

The Lock command allows you to immediately lock the door attached to the *IntelliProx* unit.



1. Click on the  button, the door is immediately locked, the reader's LED flashes Red to indicate the door is locked and then returns to steady Amber, and the following window appears.



Figure 7-5 – Locked Door Acknowledgment Window

2. Click on the  button to close the window.
3. The lock command places the *IntelliProx* into data transfer mode. After a 60 second delay, the reader beeps twice, its LED flashes Green and then returns to normal operation with the LED at steady Amber.
4. If a valid card is presented during the delay, the following things happen.
 - the *IntelliProx* process the card
 - the door is unlocked
 - the *IntelliProx* returns to the delay state until the 60 seconds times out
5. If an invalid card is presented during the delay, the following things happen.
 - the reader beeps and flashes its Red LED
 - the *IntelliProx* stays in the delay state until the 60 seconds times out

Unlock the Door

The Unlock command allows you to immediately unlock the door attached to the *IntelliProx* unit.


1. Click on the  button, the door is immediately unlocked and the reader's LED changes to Green and stays Green to indicate the door is unlocked. The following window appears.




Figure 7-6 – Unlocked Door Acknowledgment Window

2. Click on the  button to close the window.

Exit the Program

You can exit the *D-Lite* program in two ways.

1. Click on the File → Exit pull-down menu option.
2. Click on the  box in the upper right corner of the *D-Lite* window.
3. If there is an open cardholder database displayed in the spreadsheet with unsaved changes, the following window appears.

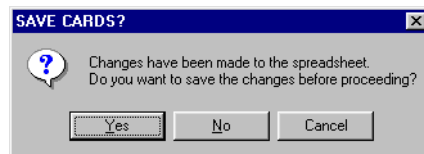



Figure 7-7 – Save Data Before Closing D-Lite Window

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Troubleshooting

Since all communication between D-Lite and the host computer is done through the host computer's COM port, D-Lite cannot work if the host computer's COM port is not working correctly. Keri Systems cannot be held responsible for host computer COM port or hardware problems. Here is a basic communication test that you can perform to check the quality of the serial communication connection between the *IntelliProx* unit and the host computer/*D-Lite* software.

1. Verify the *IntelliProx* unit is powered on and connected to the appropriate COM port on the host computer.
2. Verify the COM port to which the *IntelliProx* unit is connected is the COM port set in the *D-Lite* program's configuration window (refer to the [Set the COM Port](#) section earlier in this Users Guide).
3. Click on the  button or use the System → Unit Commands pull-down menu. The following window appears.

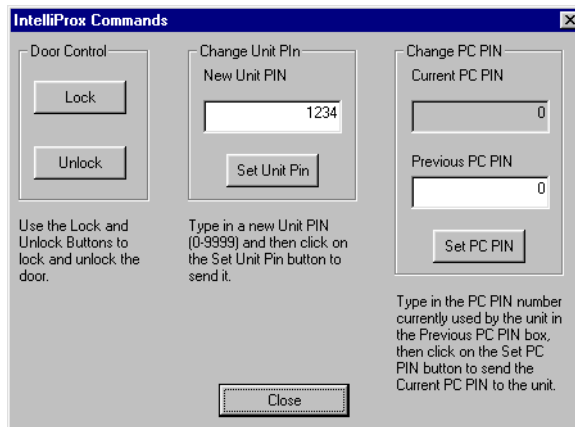



Figure 8-1 – Unit Commands Window

4. Click on the  button. Depending upon the quality of the connection between the *IntelliProx* and the host computer, one of four responses will be seen at the *IntelliProx*'s reader.

Good Connection

1. The reader beeps once, the reader's LED flashes Red to indicate the door is locked and then returns to steady Amber, and the following window appears.



Figure 8-2 – Locked Door Acknowledgment Window

2. Click on the  button to close the window.

This verifies that good communication exists between the *IntelliProx* and the host computer.

Wrong PIN

1. The reader's LED turns off for 10 seconds. The reader then beeps once and the LED flashes Red four times then returns to steady Amber.

This indicates that communication exists between the *IntelliProx* and the host computer but there is an *IntelliProx* Unit PIN or PC PIN mismatch between the *IntelliProx* and the *D-Lite* program. Refer to the Set the PINs section earlier in this Users Guide to reset the *IntelliProx* Unit PIN or PC PIN.

Poor Connection

1. The reader's LED turns off for 10 seconds. The reader then beeps once and the LED flashes Green twice then returns to steady Amber.

This indicates that poor communication exists between the *IntelliProx* and the host computer. Communication is being corrupted by electro-magnetic interference, excessive cable length, or a poor connection at either the *IntelliProx* or the host computer.

No Connection

1. There is no response from the *IntelliProx's* reader within 10 seconds of sending the Lock command.

This indicates there is no connection between the *IntelliProx* and the host computer/*D-Lite* program. Check the following items and then retry the Lock command.

- verify the COM port number used by the host computer
- verify the *D-Lite* program is configured to use that COM port (refer to the Set the COM Port section earlier in this Users Guide)
- verify the communication cable is wired correctly (refer to the *IntelliProx* Quick Start Guide – P/N 01830-003 – found in the \docs folder on the *D-Lite* CD-ROM)
- verify there are no shorts or opens in the communication cable
- verify the communication cable is connected to the correct COM port on the back of the host computer
- verify the communication cable is connected to the *IntelliProx* correctly (refer to the *IntelliProx* Quick Start Guide – P/N 01830-003 – found in the \docs folder on the *D-Lite* CD-ROM)

If everything in the above list appears correct, run the COMTEST provided with the *D-Lite* software package. The COMTEST program is a simple program. It is designed to send a string of characters out the host computer's COM port output and see if they are received back at the host computer's COM port input. It is not designed to determine if the COM port has more serious problems such as conflicts with other devices on the host computer. For these types of problems, troubleshooting by a computer technician is required. Instructions for using the COMTEST program are provided in the COMTEST Quick Start Guide (P/N 01845-001) found in the \docs folder on the *D-Lite* CD-ROM.

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