

- b. Swipe the card by using the magnetic stripe, linear barcode, 2D barcode reader.
- c. The data fields should populate automatically. If they do not populate correctly, you will need to reopen the Macro Designer and make adjustments to the macro layout.

User's Manual

VI. Support

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V. System Implementation

Loading the Spooler

- a. If the Spooler is already loaded in the Notification Area, right-click on its Notify Icon and exit the spooler. Then reload the spooler into the Notification Area by double-clicking on the Spooler Icon located on the desktop or in the Start Menu.

Programming the E-SEEK Reader

- a. Right-click on the Spooler icon loaded in the Notification Area and select **Program E-SEEK Reader**. If everything is setup correctly, you will hear the E-SEEK Reader perform a series of beeps. Now launch the desired application you will use to populate the card data into.

Populating Data to Target Screen

- a. Make sure the target screen is active and the cursor is at the starting position for the macro to populate the field upon swiping the card.

From the Marco Designer menu, select **Window ► Alias to Window**. From the Window Selector, select **Choose Window** and then select on the application target screen title bar. Wait for 5 seconds to allow for it to link the macro to the application target screen. You can also select on the application target screen from the task bar.

After you have waited for 5 seconds, return to the Window Selector and be sure that the **Window Name** is the same as the window name as shown on the title bar of the target screen. If not, you will need to select Clear Window Name and repeat this step. You may need to wait a few more seconds to ensure the link has taken place.

- e. Once linked, you can press **OK** to return to the Macro Designer.
- f. Now that the macro is complete, you can save the macro by selecting **File ► Save As**. You can now create a custom file name for your macro. The default location for saving your macros is:

“C:\Program Files\ESSI DL DATA\Macros”

- g. After saving your macro, close the Macro Designer and exit the Spooler in the Notification Area (formerly known as System Tray).

DL DATA System Overview

ESSI DL DATA is a unique system solution that allows data entry users to populate enrollment software and other applications with data from commonly used identification cards. The system consists of the DL DATA Software (2 parts) and a hardware device (card reader).

The DL DATA Software consists of two modules: the DL DATA Macro Designer, and the DL DATA Spooler. The Macro Designer enables the end-user to create custom macros that will automate a batch of keystrokes from the data acquired from the card. It will also automate keyboard strokes, such as <Tab>, <Enter>, and others required to advance through the database fields in the target screen. Spaces can also be added to automate the combination of two separate fields read from the card into one field in the target screen.

The DL DATA Spooler is software that runs in the background and controls the operation of the DL DATA Macros. It programs the reader with the macro to specify which type of card to look for and what data is to be used from the card to populate the target screen fields.

The Spooler can also be used to upload a card swipe log that contains unrecognized data encoding from that specific type of

card. For example, if you have created a macro for driver's licenses, and the data that is used to populate the target screen fields is incorrect, the log file can be uploaded to the ESSI Server to analyze and correct the data.

Another function of the Spooler is to check the ESSI Server for updates to the software. Updates include, but are not limited to, updates to accepted card types, software fixes, and documentation.

I. System Requirements

The computer that the DL DATA System is to be installed on must meet the following system requirements:

- Microsoft Windows 2000 or XP
- Local administrator rights (for installation only)
- Microsoft .NET 1.1
- One of the following available port types (coinciding with the type of reader):
 - USB
 - Serial
- Broadband Internet Connection (required for licensing, updating of software, and uploading of unrecognized card swipes)

Note: It is very helpful to have the target screen of the enrollment software open at this time for referencing keystrokes that are needed in the layout of the macro.

- c. To layout your macro, expand the driver's license fields. Drag and drop the fields that the target screen will use into the blank macro window to the right, in the order they are to be entered. Add any additional keystrokes you may need, such as <Tab>, <Enter>, <Space>, etc...

Note: Each data field can be expanded in the macro window to view or modify its properties. By default, each field is set to <Tab> after each data field is read from the card. Each field also has an infinite data length, and a key delay of 20.

If you wish to join two of the card data fields into one field in the enrollment software (i.e., first name, last name), simply change the property of the "**Tab Mode**" for the First Name Field to "**Never**". Then drag and drop a <Space> keystroke from the list of Keyboard Keys to the left between the two fields.

Some fields may not contain data, and/or vary from state to state, etc.

- d. Once you have created a full automation of the data entry for the target screen, you must attach the macro to the target screen. To do this, you must first be sure that the application target screen that the data will be entered into is open and maximized.

IV. DL DATA Macro Designer

Definition: DL DATA Macro – a programmed layout that automates the keystrokes used for a data entry screen. The keystrokes may be derived from data read from a card containing magnetically encoded data, a linear barcode, or a 2D barcode. The keystrokes may also be derived from normal keyboard keys, such as <Tab>, <Enter>, <Space>, Function Keys, and many others.

The purpose of macros is to automate all data entry from start to finish from information contained on commonly used identification cards into the relevant fields in a target screen. This process will help to eliminate manual keystroke errors, and dramatically decrease time and labor.

Creating a Macro

- a. Open the Macro Designer.
- b. Click **File ► New ► Driver's License Macro** (or desired macro type). A blank/untitled window will open up to the right in the Macro Designer Window. The left side of the Macro Designer Window will now show the available fields and keystrokes that are available to design the macro.

II. Installation of DL DATA Software

IMPORTANT: The computer you are installing the DL DATA System must contain **Microsoft .NET Framework 1.1** or higher before you can install the DL Data Software onto it. If you are not sure whether it has the .NET Framework installed on it, refer to the **Add or Remove Programs** area in the **Windows Control Panel**. If you do not see Microsoft .NET Framework 1.1 or higher in the Add or Remove area, you will need to run Microsoft Windows Update to obtain and install Microsoft .NET Framework (multiple updates may be required until you obtain a version of at least 1.1).

To install the DL DATA Software, simply double-click on the dldata4.X.exe file.

Choose **NEXT** and follow the command prompts through the install until finished. (You should not have to restart your computer unless the install wizard prompts you to do so.)

III. Installation of DL DATA Card Reader

USB Connection

- a. Remove the E-SEEK Model 250 card reading device and cable from the box.
- b. Connect the cable to the reader.
- c. Connect the USB end of the cable to an available USB port on your PC.
- d. You will then be prompted with the “New Hardware Wizard” and asked to install the device automatically or from a specific location. Choose “***Install from a specific location***”.
- e. You will now be prompted to browse for the folder where the device driver is located. Choose **Browse** and proceed until you have reached the following folder path:

“C:\Program Files\ESSI DL DATA\Seek250_USBDriver\”
- f. Upon completing the installation of the E-SEEK device driver, you will then be prompted again with the install wizard to install the

USB-Serial Converter driver. Repeat steps “d” and “e” as described above until completed.

- g. At this point, if you are prompted to restart your computer, please do so.
- h. Once both hardware wizards have completed, you will need to verify which COM port the reader has acquired. To do so, you will need to open the Windows **Control Panel**, double-click on **System**. Locate and open **Device Manager**. Locate and expand “**Ports (COM & LPT)**”. If the devices installed properly, you should see the “**USB Serial Port (COM#)**” displayed. Take notice to the COM Port number the device has acquired (i.e. **USB Serial Port (COM3)** as you will need it in the next step. If you do not see this device, you may need to reboot your computer and repeat this step (h).
- i. Once you have verified the COM setting of the USB Serial Port, open the DL DATA Marco Designer Software. Click ► **File** ► **Settings**, and choose the serial port that is to be used by the E-SEEK card reading device, and click **Save**, then **Close**. This will be the same port that was verified in the device manager in the previous step.