

# **Legitronic Labeling Software**

## **Legitronic Secure Series Labeling Software**

### **User Manual**

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# Contents

# 1. Introduction

Welcome to the *Legi User Guide*. This guide provides an overview of Legi, describes its windows and dialog boxes, and explains how to use its functions.

## About Legi

Legi enables you to design labels on any PCs running under Microsoft Windows®. You can print those labels on the industrial-grade printers supplied by Weber Marking Systems.

Legi is a flexible system that allows you to:

- ❑ Create label formats that include varied combinations of barcodes, graphics, constant data, date and time, lines, and boxes. You can also link label fields to database tables and print labels only for those records that match the print queries you create. You can print label fields in four orientations and in **reverse print**.
- ❑ Create label print jobs and save them for future use.
- ❑ Use Windows® Print Manager to delete, pause, restart, and change the order of print jobs stored in the print queue.
- ❑ Use the Labels Print Log feature to track print jobs, capturing data from specified label fields.
- ❑ Select the audit trail options you will use.
- ❑ Configure Legi for use with other languages.
- ❑ Select the appropriate level of system security. You can require password verification at login and assign users to user groups with access to specific Legi functions and data.
- ❑ Use two supported packages: A Professional package that supports all features and a Print-Only package that supports the Label Design feature. A separate CD is mastered for each product.
- ❑ Use seven supported languages, as follows:  
English (United States), German, French (Standard), Spanish (Standard), Portuguese (Iberian), Danish, Dutch.

## How This Guide Is Organized

This guide contains 11 chapters and five appendixes:

- ❑ **Chapter 2, Installation**, explains how to install Legi in both standalone and network environments.
- ❑ **Chapter 3, Getting Started**, explains the basic concepts and terms required to use Legi. It provides a brief review of Windows→ conventions used in Legi, describes the Legi application window, and explains the use of dialog boxes and command buttons.
- ❑ **Chapter 4, Designing Labels**, explains how to design label formats using text, barcode, graphic, line, box, and raw data fields.
- ❑ **Chapter 5, Printing Labels**, explains how to print labels.
- ❑ **Chapter 6, Security Administration**, explains how to select, establish, and maintain the level of system security you require.
- ❑ **Chapter 7, Serial Number Tracking Support**, explains how to use Legi's Serial Number Tracking feature.
- ❑ **Chapter 8, Audit Support**, explains how to establish an audit trail of label stock usage and print activity.
- ❑ **Chapter 9, Configuration**, explains how to configure Legi for your use.
- ❑ **Chapter 10, Security Administration: Legitronic Secure Series Labeling Software**, explains administrator and user features to assist in be 21 CFR Part 11 compliance.
- ❑ **Chapter 11, Visual Basics for Applications**, discusses the development facilities of an integrated development environment.
- ❑ **Appendix A, Data Expressions**, lists and describes the functions available for use in data expressions.
- ❑ **Appendix B, Printer Driver Installation and Configuration**, explains how to install and configure printer drivers for use with Legi.
- ❑ **Appendix C, Automated Print Control**, lists and describes the automated print control commands used in Legi.
- ❑ **Appendix D, Downloading TrueType Fonts**, discusses using downloaded True Type fonts in the printer.
- ❑ **Appendix E, Legi Graphics Support**, discusses support for recalling downloaded PCX graphics in the printer.

To help you locate the information you need quickly, the **Index** at the back of this guide provides an alphabetical, cross-referenced list of topics and their page numbers.



## Conventions Used In This Guide

The table below explains how this guide uses type as visual cues to certain Legi components, special keying techniques, or documentation conventions.

This	Represents
SMALL CAPITAL LETTERS	Keys on your keyboard, such as the ENTER key or the ALT key.
<i>italic</i>	Emphasized words and variables (names used to represent data items whose value can change).
<u>Italic</u>	Menus and menu options. The shortcut key is underlined. For example, the <u>T</u> ools menu can be selected by pressing ALT+T.
<u>Italic</u> → <u>Italic</u>	A sequence of menu selections that can be used to open a window or dialog box. For example, <u>F</u> ile→ <u>N</u> ew means “click the <u>F</u> ile menu and select the <u>N</u> ew option.” Using the keyboard, you would press ALT+F and then N.
<u>Command</u>	Command buttons in dialog boxes. For example, OK, Cancel, and <u>H</u> elp. The underlined letter on a button label identifies the shortcut key used in conjunction with the ALT key. For example, pressing ALT+H is the same as clicking the <u>H</u> elp command button.

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**Note:** This guide includes sample displays of representative data that will not exactly match specific data displayed on your screen.

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## Customer Support

For software technical support, call 847-364-8500 (ext. 773) between the hours of 8:00 AM and 4:30 PM, Monday through Friday. For hardware-related problems, call 847-364-8500 (ext. 776).

## 2. Installation

This chapter lists Legi's hardware and software requirements and explains how to install and uninstall Legi.

### Minimum System Requirements

- ❑ Pentium III class processor
- ❑ Windows 95®, 98®, NT 4.0®, 2000, XP

### General Requirements

- ❑ 256 MB RAM
- ❑ 25-30 MB hard disk space
- ❑ CD-ROM drive
- ❑ 256-color, SVGA, or better video display

### Installing Legi

Follow these steps to install Legi:

1. Insert the Legi CD in the appropriate drive.
2. If Windows® Autorun is not enabled, open the subdirectory that contains the setup.exe and double-click that file name.

The Welcome box opens.

3. Click **Next**.  
The Software License Agreement is displayed.
4. Click **Yes** to accept the agreement.
5. Type your name and company name and click **Next**.

6. In the Choose Destination Location section, accept the default location for Program Files\Weber Marking Systems\Legi or select a different location.

To choose a destination other than the default, click **Browse** to open the Choose Directory dialog box. Find and select the appropriate location. Then click **OK**.

7. Select the Legi for Windows system directory. Then click **Next**.
8. If necessary, select the appropriate license type. Click **Next**.

The Select Program Folder dialog box opens.

9. Use the default Legi folder name, select another existing folder, or create a new folder.

10. Click **Next**.

The Setup program allows you to review the selected settings. To change settings, click **Back** and make the appropriate selections. When the settings are satisfactory, click **OK**.

The setup program copies the required fields and creates icons in the program folder. When these tasks are completed, the system asks if you want to add a printer.

11. If you want to add a printer, click **Yes** and follow the Add Printer Wizard prompts. If you don't want to add a printer, click **No**.

The Setup Complete dialog box opens.

12. Click **Finish**.

Legi is added to the list of programs accessible through the Start menu. The Setup program gives you the option of restarting your computer now or later.

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**Note:** Legi will not operate correctly until you restart your computer.

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## Uninstalling Legi

Follow these steps to uninstall Legi:

1. From the Start menu, select *S*ettings→*C*ontrol Panel→*A*dd/Remove Programs.
2. Select **Legi**.
3. Click Add/Remove.
4. When the uninstall process is complete, click OK.

# 3. Getting Started

Legi follows standard Windows® conventions for display, data entry, and navigation. This chapter contains a brief review of Windows® conventions used in Legi.

This chapter also describes the Legi application window, where you do all of your Legi work. It includes a description of each area that appears in *all* of the Legi windows:

- ❑ Title bar
- ❑ Menu bar
- ❑ Tool bar
- ❑ Status bar

## Legi Under Windows

The Legi application runs just like any other Microsoft Windows® application. This guide assumes that you are familiar with Windows and know how to navigate within and among applications. Refer to your Microsoft Windows® documentation for detailed information about using Windows.

This chapter provides a brief review of the Windows® features used throughout Legi.

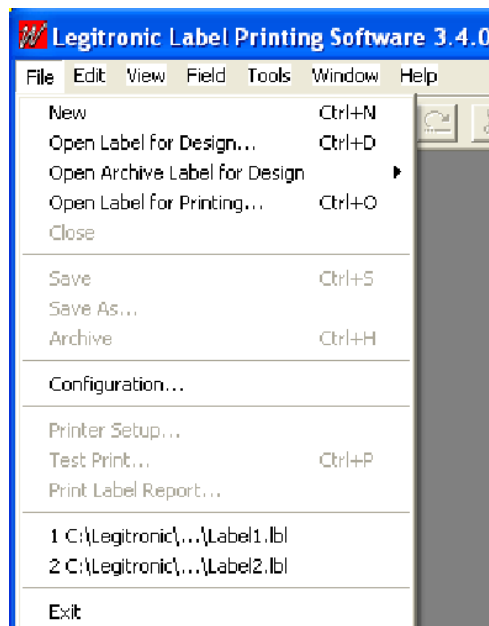
## Using the Mouse

You use the left (dominant) mouse button for most of your work in Legi. Instructions to *click* or *double-click* refer to the left mouse button. When the right mouse button can be used, you are instructed to *right-click*.

## Using Keyboard Shortcuts and the Mouse

Although you can use Legi without a mouse, most people are comfortable using a combination of the mouse and keyboard.

**Dropping down a menu.** The options in a menu can be dropped down (displayed) by clicking the menu name or by holding down the ALT key and pressing the underlined letter in the menu name. For example, to drop down the list of options in the File menu, you can press ALT+F.



**Selecting a menu option.** When a menu's options are dropped down, click the option you want or press the key that corresponds to the underlined letter in the option name. For example, if the File menu is dropped down, you can simply press N to select the New option.

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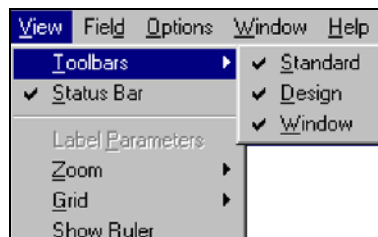
**Note:** Some options have shortcuts defined so you can access them without dropping down the menus. For example, you can select the New option without dropping down the menus shown above by holding down the CTRL key and pressing N.

---

When an ellipsis (...) appears to the right of a menu option name, a dialog box opens when you click or select that option. For example, when you drop down the File menu and click *Open Label for Design...* or press D to select the Open Label for Design option, the Open Label for Design dialog box opens.



When the ► symbol appears to the right of a menu option name, an additional menu drops down when you click or select that option. For example, when you drop down the View menu and click *Toolbars* or press T to select the Toolbars option, an additional menu drops down.






**Selecting a command button.** The buttons you click to perform functions provided by dialog boxes are called *command buttons*. Some command buttons have a corresponding shortcut key. When a command button label includes an underlined letter, its command may be invoked by pressing ALT + the underlined letter *or* by clicking the command button. For example, the shortcut key for the Open command button is ALT+O. Standard command buttons are described on page 13.






**Scrolling.** When a window contains more items, rows, or columns than will fit in the display, you can use the mouse and scroll bars to display additional data. You can also use the arrow keys to scroll up, down, right, or left in the display.



**Minimizing a window.** To reduce the window to an icon at the bottom of the application window, click the  button at the right end of the title bar.

**Maximizing a window.** To expand a window to its full size, click the  button at the right of the title bar. (The presence of the  button indicates that the window is not at its maximum size. When this button is displayed, you can resize the window by dragging its corners.)

**Reducing window size.** To reduce a window from its maximum size to its most previous reduced size, click the  button at the right of the title bar. (The presence of the  button indicates that the window is at its maximum size.)

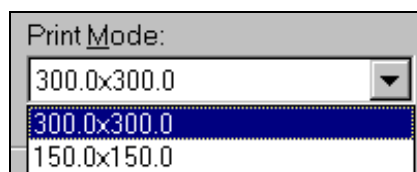
**Closing a window.** To close a window, select Close from the File menu, or simply click the  button at the right end of the title bar.

## Entering Field Data

A *field* is a specified area in which you enter, or the system displays, a valid value for a particular data element. Several data entry methods are used in Legi, depending on the type of field. Legi uses the following types of fields:

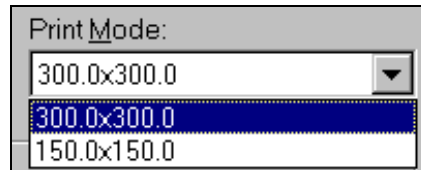
**Text box** — a box into which you can type data. When you click inside a text box, the cursor changes to an I-beam.

**Drop-down list** — a text box with a down-pointing arrow at its right end. Clicking the arrow drops down a list of values so that you can select a value by clicking it.

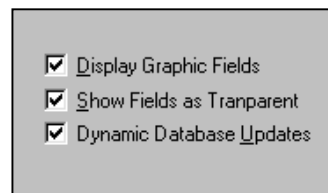




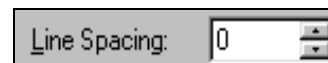
**Combo box** — a drop-down list that allows you to select a value by clicking it in the list *or* by typing the value directly into the text box. When you click inside the combo box, the cursor changes to an I-beam.



**Check box** — a small box to the left of a field name used as a toggle to turn an option on or off. Simply click the box to insert a checkmark in the box and turn the option on. Click it again to clear the box and turn the option off. Without the mouse, pressing the spacebar performs the toggle between on and off.



**Spin box** — a text box with both an up arrow and a down arrow at its right end. You can type a value in the field, or you can change the current value by using the mouse to spin a list of valid values up or down until the value you want is displayed. Spin boxes are used with numeric fields.

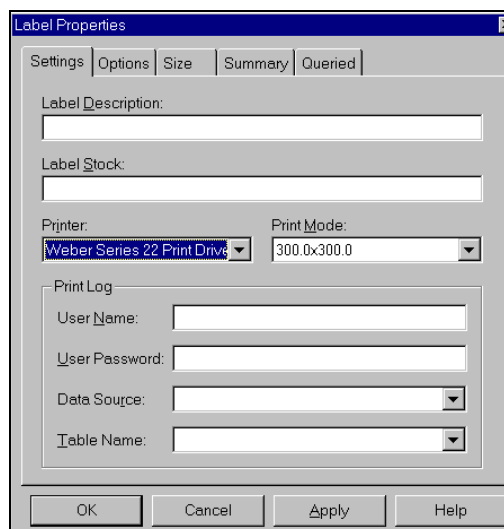


**Radio button** — a small round button that appears with others in a section of a display where you can select *only one* of several options. To select an option, simply click its label or its radio button. In the example below, you click one of the three radio buttons to select the Preview — none, first label only, or every label.



## Working with Tab Displays

Several windows in Legi include multiple displays that are accessed by clicking tabs that look like the tabs on file folders. Each tab has a label that identifies the function of that tab's display. Simply click the tab for the display you want to see or press CTRL-TAB. The example below shows five tab displays — **Settings**, **Options**, **Size**, **Summary**, and **Queried**.

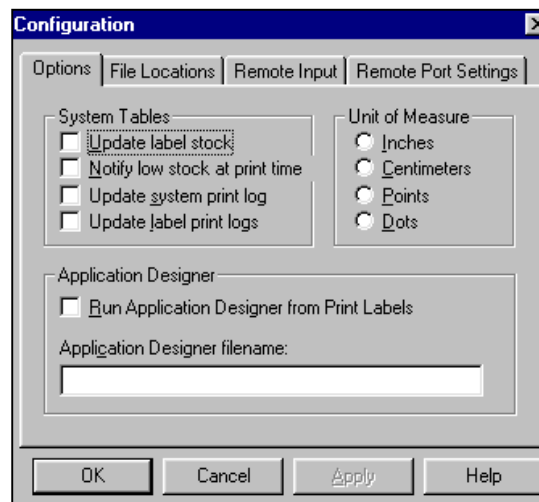


## Accessing Online Help

Legi's online help system allows you to display most of the information contained in this guide. You can access help by selecting an option from the Help menu.

## Using Dialog Boxes and Command Buttons

The Configuration dialog box, shown below, is typical of all dialog boxes in that you must respond to whatever the box is presenting before you can do any other work. You respond by entering data or making selections, and eventually clicking a command button in the dialog box to close the box.



Each of the Legi dialog boxes serves a specific purpose and includes one or more command buttons. However, each command button always performs the same function, regardless of the dialog box it appears in. The following table describes the standard command buttons.

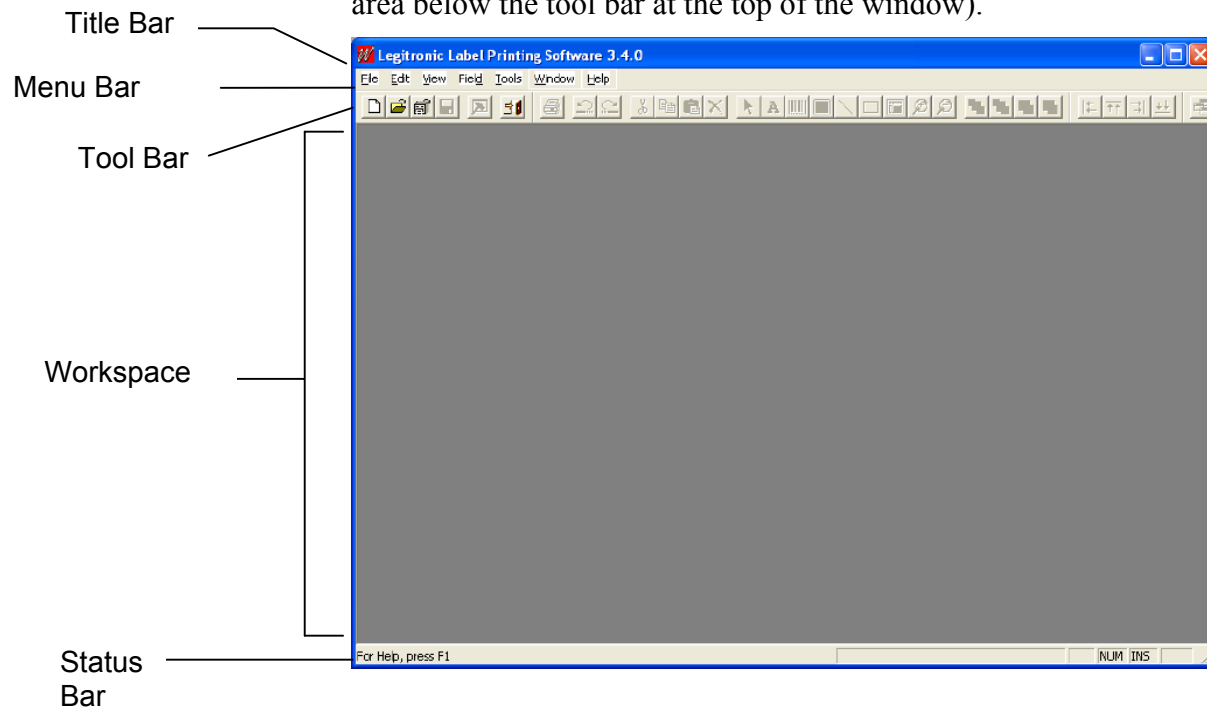
Command Button Label	Action
<u>A</u> pply	Applies your selections to the label format displayed.
<u>C</u> lose or OK	Closes the dialog box. If you have made changes that you have not saved, the system first gives you the opportunity to save them. You can press the ENTER key as a substitute for clicking the OK button.
Cancel	Closes the dialog box, ignoring any changes since you last saved data in the dialog box. Pressing the ESC key has the same effect as clicking the Cancel button.
Help	Opens the online help topic that explains the dialog box. The dialog box remains open.

## Opening the Legi Application

To access any of the Legi functions, you must open the application. You start by double-clicking the Legi icon on the Windows® desktop. Alternatively, highlight the icon and press the ENTER key, or select *Legi for Windows* from the Windows® Start menu.

## The Legi Application Window

The window shown below is the Legi application window. All your work in Legi is done with this display as the background. During your Legi work sessions, you select menu options or click buttons that display secondary windows or dialog boxes within the application *workspace* (the area below the tool bar at the top of the window).



The layout of the application window remains the same even when different windows and dialog boxes are displayed. The common areas are the *title bar*, the *menu bar*, the *tool bar*, and the *status bar*.

The following sections describe the common areas of the Legi application window, moving from the top to the bottom of the window.

## Title Bar

Every window is bordered at the top by a title. The title bar of the Legi application window identifies the Legi application. The Legi icon is displayed at the left end of the tool bar. The buttons for minimizing, maximizing, and reducing the size of the application window are at the right end of the tool bar.

## Status Bar

The status bar, located at the bottom of the window provides information about the current state of what you are viewing in the window and any other contextual information, such as the coordinates of the cursor position. You can show or hide the status bar by selecting or deselecting it through the *V*iew menu.

## Menu Bar

The menu bar, located immediately below the title bar, is a horizontal list of items. Each item contains one or more *options*. When selected, each option invokes a function, opens a dialog box, or displays a list of additional options. Options in dimmed text are not available for the work you are currently doing.

Seven menus display in the Legi menu bar. These menus, discussed in the next seven sections, are:



## **File Menu**

<b>Menu Option</b>	<b>Action When Selected</b>
<u>N</u> ew	Allows you to design a new label.
Open Label for <u>D</u> esign...	Allows you to select the label you want to open.
Open Label for <u>P</u> rinting...	Allows you to select the label you want to print.
<u>C</u> lose	Closes the active window. (There is only one active window □ the window you are currently working in. Other windows may be open, but they are <i>inactive</i> .)
<u>S</u> ave	Saves any changes you made since the last time you saved changes.
Save <u>A</u> s...	Saves any changes you made since the last time you saved changes, under the name you specify.
Printer <u>S</u> etup...	Allows you to specify parameters for printing your label.
<u>T</u> est Print...	Prints a test print of the label in the active window.
Print Label <u>R</u> eport...	Prints a label report.
<u>E</u> xit	Closes the Legi application. If you have unsaved changes, the system allows you to save them before closing the application.

## **Edit Menu**

<b>Menu Option</b>	<b>Action When Selected</b>
<u>U</u> ndo	Reverses the last add, change, or delete you made.
<u>R</u> edo	Reverses the action of the Undo option.
C <u>u</u> t	Deletes the selected item from the display and moves it to the clipboard.
<u>C</u> opy	Copies the selected item to the clipboard.
<u>P</u> aste	Inserts an item from the clipboard into the display.
Paste <u>S</u> pecial...	Allows you to paste an OLE object or link to an OLE object from the clipboard.
Du <u>p</u> licate	Creates an exact copy of the selected field.
<u>D</u> elete	Removes the selected item from the display.
<u>S</u> elect	Allows you to select all or none of the fields in the label.
Change <u>I</u> con...	Changes the icon that represents the OLE object in Label Design.
<u>C</u> hange Source...	Changes the source of the OLE Object.
<u>P</u> roperties...	When no field is selected, displays the Label Properties dialog box. When a field is selected, displays the Field Properties dialog box.
Lin <u>k</u> s...	Manages an OLE object in the label, by allowing the link to be removed or updated.
Insert <u>N</u> ew Object...	Opens the Insert Object dialog box so that you can insert a new OLE object.
<u>O</u> bject	Allows you to open or edit an OLE Object.



## **View Menu**

<b>Menu Option</b>	<b>Action When Selected</b>
<u>T</u> oolbars	Allows you to show or hide the standard, design, and/or window tool bars.
<u>S</u> tatus Bar	Allows you to show or hide the status bar.
Label <u>P</u> arameters	Opens the Label Properties dialog box.
<u>Z</u> oom	Allows you to select a zoom option:  Zoom <i>in</i> to a 50%, 100%, or 200% view of the entire label.  Zoom <i>out</i> to view the entire label, entire label width, or entire label height.
<u>G</u> rid	Allows you to display the Grid Settings dialog box, display a grid, or snap the selected field to the lines in the grid,
Show <u>R</u> uler	Allows you to hide or show the ruler at the top of the window.

## Field Menu

Menu Option	Action When Selected
<u>S</u> elect	Allows you to select a field.
<u>T</u> ext	Allows you to draw a text field.
Bar <u>c</u> ode	Allows you to draw a barcode field.
<u>G</u> raphic	Allows you to draw a graphic field.
<u>L</u> ine	Allows you to draw a line.
<u>B</u> ox	Allows you to draw a box.
Raw <u>w</u>	Allows you to draw a raw data field.
<u>Z</u> oom In	Allows you to zoom in on the selected field. Each time you click on the selected field, the zoom magnification increases.
<u>M</u> ove to Front	Moves the selected field to the front layer of the label.
M <u>o</u> ve to Rear	Moves the selected field to the rear layer of the label.
Move <u>F</u> orward	Moves the selected field forward in the layers of the label.
Move Back <u>u</u>	Moves the selected field backward in the layers of the label.

## Options Menu

Menu Option	Action When Selected
<u>C</u> onfiguration	Allows you to update your Legi system configuration.

## **Window Menu**

In addition to the options listed below, the *Window* menu lists all open windows. Numbers next to the window names indicate the order in which they were opened or last active.

Menu Option	Action When Selected
<u>N</u> ew Window	Opens a new window whose contents are identical to the active window.
C <u>l</u> ose	Closes the active window.
C <u>l</u> ose A <u>l</u> l	Closes all open windows.
<u>C</u> ascade	Rearranges open windows so that they overlap, one on top of another. Shows a full view of the active window and only the title bar of inactive windows.
Tile <u>H</u> orizontal	Rearranges open windows in a horizontal tile pattern, from top to bottom.
Tile <u>V</u> ertical	Rearranges open windows in a vertical tile pattern, from left to right.
<u>A</u> rrange Icons	Neatly arranges the icons of minimized Legi windows.

## **Help Menu**

Menu Option	Action When Selected
<u>H</u> elp Topics	Displays the Legi online help system's table of contents.
<u>A</u> bout Legi for Windows	Opens the About Legi dialog box, which identifies the version of Legi that is installed on your computer.

## Tool Bar

The tool bar is located directly below the menu bar. The tool bar functions are always the same, regardless of which window appears below. This tool bar provides quick access to Legi windows and major print functions. Each button contains an icon representing its function. Pass the cursor over the button to display its description. All functions in the tool bar can also be accessed through the menu bar.















The tool bar is actually made up of three tool bars:













- ❑ **Standard** — the leftmost tool bar allows you to design a new label, open an existing label for design or printing, and exit the Legi application.
- ❑ **Design** — the middle tool bar allows you to insert various types of fields in your label and to test print the label.
- ❑ **Window** — the rightmost tool bar allows you to open new windows and specify how the open windows should be displayed.




---

**Note:** You can show or hide each of the three tool bars by selecting or deselecting it through the *View* menu.

---

Icon	Description	Action When Clicked
<b>Standard Tool Bar</b>		
	<b>New</b>	Allows you to design a new label.
	<b>Open for Design</b>	Allows you to select the label you want to open.
	<b>Open for Printing</b>	Allows you to select the label you want to print.
	<b>Save</b>	Saves any changes you made since the last time you saved changes.
	<b>Configuration</b>	Allows you to update your Legi system configuration.
	<b>Exit</b>	Closes the Legi application. If you have unsaved changes, the system allows you to save them before closing the application.
<b>Design Tool Bar</b>		
	<b>Test Print</b>	Prints a test print of the label in the active window.
	<b>Undo</b>	Reverses the last add, change, or delete you made.
	<b>Redo</b>	Reverses the action of the Undo option.
	<b>Cut</b>	Deletes the selected item from the display and moves it to the clipboard.
	<b>Copy</b>	Copies the selected item to the clipboard.
	<b>Paste</b>	Inserts an item from the clipboard into the display.
	<b>Delete</b>	Removes the selected item from the display.
	<b>Select</b>	Allows you to select all or none of the fields in the label.

Icon	Description	Action When Clicked
	<b>Text</b>	Allows you to draw a text field.
	<b>Barcode</b>	Allows you to draw a barcode field.
	<b>Graphic</b>	Allows you to draw a graphic field.
	<b>Line</b>	Allows you to draw a line.
	<b>Box</b>	Allows you to draw a box.
	<b>Raw</b>	Allows you to draw a raw data field.
	<b>Zoom In</b>	Allows you to zoom in on the selected field. Each time you click on the selected field, the zoom magnification increases.
	<b>Zoom Out</b>	Allows you to zoom out for a larger view of the selected field. Each time you click on the selected field, the view enlarges.
	<b>Move to Front</b>	Moves the selected field to the front layer of the label.
	<b>Move to Rear</b>	Moves the selected field to the rear layer of the label.
	<b>Move Forward</b>	Moves the selected field forward in the layers of the label.
	<b>Move Back</b>	Moves the selected field backward in the layers of the label.
<b>Window Tool Bar</b>		
	<b>New Window</b>	Opens a new window whose contents are identical to the active window.
	<b>Close</b>	Closes the active window.
	<b>Close All</b>	Closes all open windows.

Icon	Description	Action When Clicked
	<b>Cascade Windows</b>	Rearranges open windows so that they overlap, one on top of another. Shows a full view of the active window and only the title bar of inactive windows.
	<b>Tile Horizontally</b>	Rearranges open windows in a horizontal tile pattern, from top to bottom.
	<b>Tile Vertically</b>	Rearranges open windows in a vertical tile pattern, from left to right.

## Designing Labels



## 4. Designing Labels

Label design requires advance planning. It is a good idea to finalize the label content and format before you begin creating the design in Legi.

When you are ready to use Legi, you can create an entirely new label format, or use the format for an existing label as the basis for your design. This chapter provides the detailed information you need to perform each of the label design steps:


1. Opening the Label Design window
2. Specifying the label properties
3. Specifying the label fields
4. Saving the label
5. Printing a test label

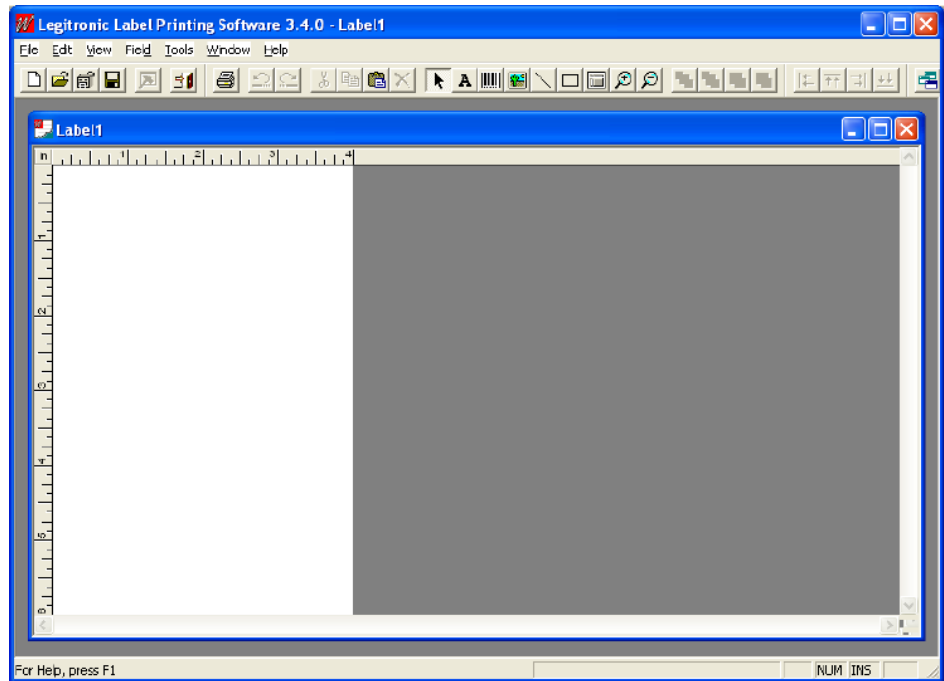
This chapter also discusses *object linking and embedding (OLE)*, a feature that allows you to link a file created in another application to a specific field.

### Opening the Label Design Window

When you open the Label Design window, you must indicate whether you are creating a new label design or using an existing label as the basis for your design.


## Creating a New Label Design

To create a new label design, click  in the tool bar or select *File* → *N*ew from the menu bar to open a blank Label Design window.

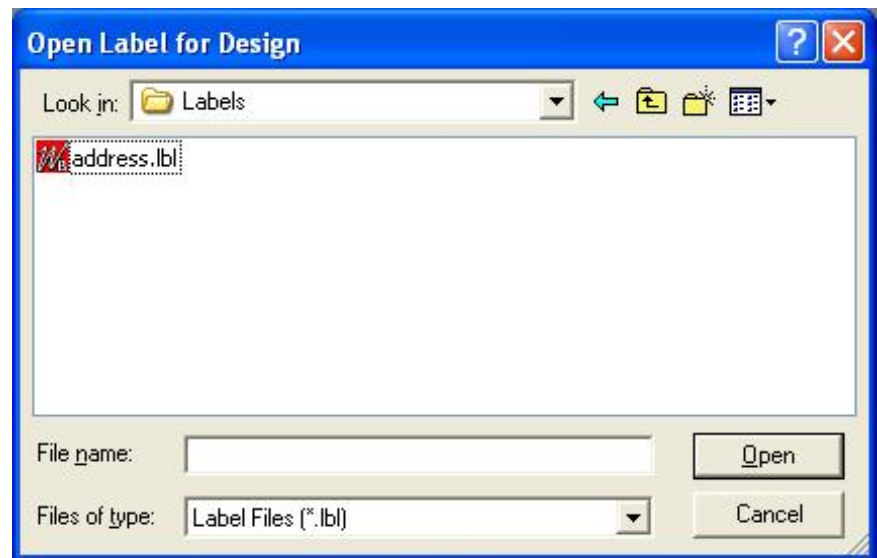


## Using an Existing Label Design

Follow these steps to use an existing label as the basis for your design:

1. Click  in the tool bar or select *File* → *Open Label for Design...* from the menu bar.

The Open Label for Design dialog box opens.



2. Locate and select the file name for the label format you want to use.
3. Click Open.

The label you selected is displayed in the Label Design window.

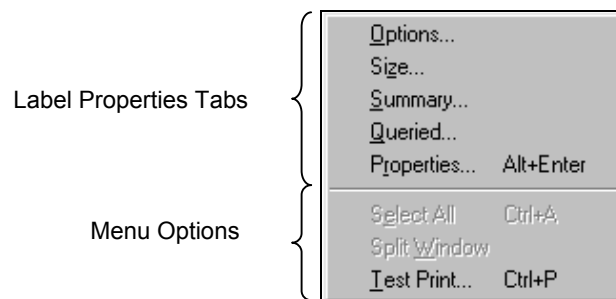
## Specifying Label Properties

To specify the properties for a label, you either specify the properties you want for a new label design *or* modify the properties of an existing label design.

### Procedure

Follow these steps to specify the properties for a label:

1. Open a new or existing label in the Label Design window.
2. Right-click to display the following menu. (Before you right-click, make sure that the cursor is not positioned within any of the label fields and that no field is selected.)



The tabs in the Label Properties dialog box are listed at the top of the menu. If you select a tab name, the Label Properties dialog box opens with that tab activated. If you select **Properties**, the Label Properties dialog box opens with the Settings tab activated.

3. Select the appropriate option.

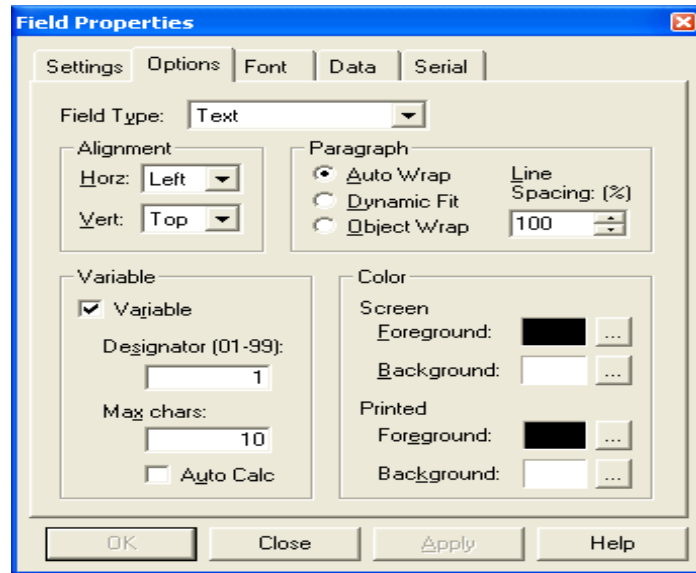
The Label Properties dialog box opens.

4. On each relevant tab of the Label Properties dialog box, specify new properties or modify existing properties, as necessary. (The specifications on each tab are described in the following sections.)
5. When you have completed your property selections, click OK.

## Label Properties — Settings Tab

Specification	Description
Label	Label description.
Label Stock	Stock to be used for the label.
Printer	Type of printer that will print the label.
Print Mode	Print mode to be used for printing the label.
<b>Print Log</b> – the print log feature allows you to capture information from one or more fields on a label.	
User <u>N</u> ame	User ID.
<u>U</u> ser Password	User password, if required.
Data <u>S</u> ource	Name of database that contains the print log.
<u>T</u> able Name	Name of table contains the print log

## Label Properties — Options Tab



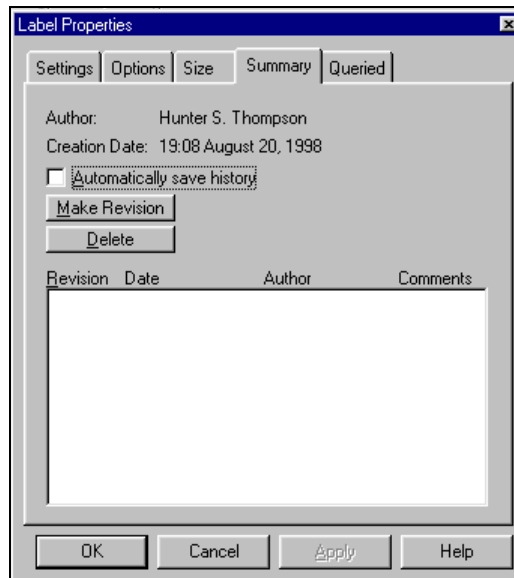
Specification	Description
Field Type	Type of field — <i>Text</i> , <i>Barcode</i> , <i>Graphic</i> , <i>Line</i> , <i>Box</i> , or <i>Raw</i> .
<b>Alignment</b>	
<u>H</u> orz	Horizontal justification to be used — <i>Left</i> , <i>Right</i> , <i>Center</i> , or <i>Justify</i> (left and right justification).
<u>V</u> ert	Vertical justification to be used — <i>Top</i> , <i>Bottom</i> , <i>Center</i> , or <i>Justify</i> (top and bottom justification).
<b>Paragraph</b>	
<u>A</u> uto Wrap	When checked, text is automatically separated into lines based on the width of the field.
<u>D</u> ynamic Fit	When checked, the font size is automatically adjusted so that the text fills the entire field.
<u>O</u> bject Wrap	When checked, the paragraph field is wrapped around another field, known as the object field when it is dragged against any side of the object field.
Line Spacing	Line spacing to be used — single (1), double (2), and so on.
<b>Color</b>	
Screen Foreground	Field text color for on-screen display.
Screen Background	Field background color for on-screen display.
Printed Foreground	Field text color for printed labels.
Printed Background	Field background color for printed labels.
<b>Variable</b>	
Variable	When checked, the field is processed as a variable field on a label template.
Designator	Enter a unique designator for the field.
Max Chars	Enter the maximum number of characters in the variable field.
Auto Calc	When checked, Legi automatically calculates the maximum number of characters based on the size of the field rectangle.

## Label Properties — Size Tab

The screenshot shows the 'Label Properties' dialog box with the 'Size' tab selected. The 'Design Width' is set to 4.000, 'Design Height' to 6.000, and 'Margin' to 0.150. Under 'Print Rotation', the 0° option is selected. Under 'Unit of Measure', the 'Inches' option is selected. The 'Multiple Across' section shows a 'Horizontal Count' of 1 and a 'Horizontal Print Interval' of 0.000. The 'Continuous Label Stock' section shows a 'Vertical Print Interval' of 0.000. The dialog includes 'OK', 'Cancel', 'Apply', and 'Help' buttons at the bottom.

Specification	Description
Design <u>W</u> idth	The width of the label.
Design <u>H</u> eight	The height of the label.
<u>M</u> argin	The margin along the left edge of the label in which text cannot print.
<b>Print Rotation</b> – the number of degrees the label contents should be rotated when printed: <u>0</u> °, <u>90</u> °, <u>180</u> °, or <u>270</u> °.	
<b>Unit of Measure</b> – unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.	
<b>Multiple Across</b>	
Horizontal Count	The number of labels that will print side by side across the label stock.
Horizontal Print <u>I</u> nterval	The distance between the left edge of one label and the left edge of the next label.
<b>Continuous Label Stock</b>	
<u>V</u> ertical Print Interval	The distance between the top of one label and the top of the next label.

## Label Properties — Summary Tab



Specification	Description
Author	User name used when signing into Legi. When no user name was used, <b>Unknown</b> appears as the author.
Creation Date	The date and time the label was created.
<u>A</u> utomatically save history	When checked, revision history is saved automatically.
<u>R</u> evision Date	Date of label revision.
Author	User name associated with the revision.
Comments	Free-form remarks about the revision.

## Command Buttons

In addition to the standard command buttons, the Label Properties dialog box contains these command buttons:

**Make Revision** – used to log a revision and enter a comment.

**Delete** – used to delete a highlighted revision.

(For a description of the standard command buttons, refer to “Using Dialog Boxes and Command Buttons” in Chapter 3.)



## Label Properties — Queried Tab

The screenshot shows the 'Label Properties' dialog box with the 'Queried' tab selected. The dialog contains the following fields and controls:

- User Name:** Text input field.
- User Password:** Text input field.
- Data Source:** Dropdown menu.
- Table Name:** Dropdown menu.
- Search Field:** Dropdown menu.
- Start Value:** Text input field.
- End Value:** Text input field.
- ☐ **Use SQL Expression**
- ☐ **Reevaluate Auto Counts**
- SQL Expression:** Large text area for entering an SQL query.
- Buttons:** OK, Cancel, Apply, and Help.

Specification	Description
User <u>N</u> ame	User ID.
<u>U</u> ser Password	User password (required for some data sources).
<u>D</u> ata Source	Drop-down list of data sources defined using the ODBC Administrator. When you select a data source, a dialog box displays so that you can locate and select the appropriate database from that data source.
<u>T</u> able Name	Name of the table that contains the data you want to use.
Search <u>F</u> ield	The field in the table to search for particular values.
<u>S</u> tart Value	The first value for which a label should be printed.
<u>E</u> nd Value	The last value for which a label should be printed.
Use SQL <u>E</u> xpression	When checked, the SQL expression entered in the SQL Expression box is used to select labels for printing. If this field is checked when start and end values have been specified, those values are converted to an SQL expression.
Reevaluate Auto Counts	When checked, the field value is re-evaluated for every database record. Otherwise, the value for the first database record is used for all labels printed.
SQL Expression	The SQL expression that will be used to select labels for printing.

## Specifying the Label Fields

Each label you design is made up of elements called *fields*. There are six types of fields:

- ☐ Text
- ☐ Barcode
- ☐ Graphic
- ☐ Line
- ☐ Box
- ☐ Raw Data

### New Label Design

When you are creating a new label design, you begin your work in a blank Label Design window. You create new fields by defining the space they will occupy, specifying their properties, and entering their content. Once you have created a field, you may need to delete it or change its position, properties, or content.

### Existing Label Design

When you are using an existing label as the basis for your design, you work with the existing fields displayed in the Label Design window. You can change the position, properties, and content of the existing fields. You may also need to delete certain fields and create new ones.

### Positioning a Field and Defining Its Space

Follow these steps to create a new field:

1. Specify the type of field you want to create by clicking the appropriate tool bar button or by selecting the field type from the *Field* menu.

The cursor changes to the crosshairs symbol (+).

2. Move the cursor to the appropriate position on the label.
3. Depress the left mouse button while dragging the cursor to define the area to be occupied by the field.

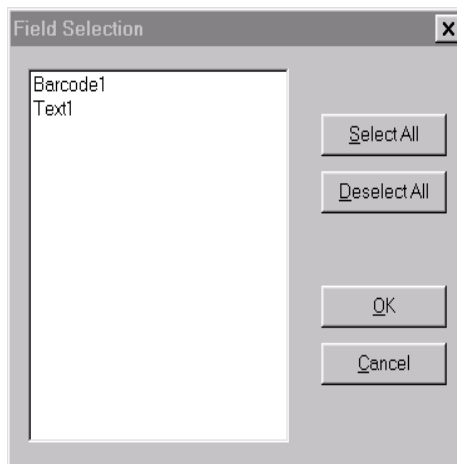
### Repositioning a Field

Follow these steps to reposition a field:

1. Click the field to select it.
2. Position the cursor within the field.
3. Depress the left mouse button while dragging the field to the appropriate position on the label.

## Selecting a Field

Selection of individual fields to edit via Select → Edit → Fields is supported. The dialog shown below appears allowing the user to select any number of fields.



Non-printing fields appear with this symbol to the left of the field name.



Non-display fields appear with this symbol to the left of the field name.



## Resizing a Field

Follow these steps to resize a field:

1. Click the field to select it.
2. Position the cursor over one of the six black squares on the perimeter of the field.



The cursor changes to a double-ended arrow ( $\leftrightarrow$ ).

3. Depress the left mouse button while dragging the cursor to enlarge the field.

---

**Note:** Resizing a text or graphic field does not change the size of the text or graphic it contains unless the dynamic fit or fixed aspect ratio options are selected. When resizing a barcode field, the barcode will grow taller, but can grow only as wide as the type of barcode allows. When resizing line and box fields, the line or box will be the same size as the field.

---

## Field Alignment Tool

The alignment feature allows users to align a group of fields along any side (top, bottom, left, and right) of the dominant field's boundary. The dominant field is the last field selected.

The alignment tool is available in Edit → Alignment or via the alignment toolbar shown below.

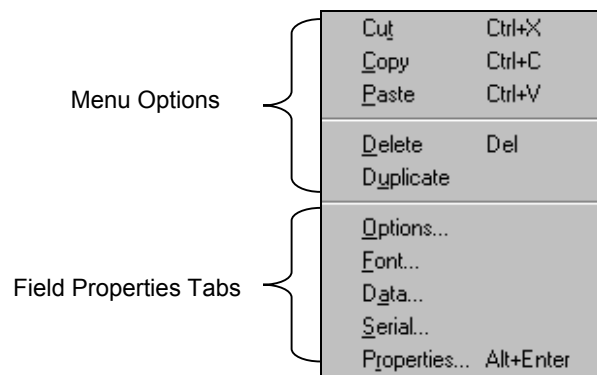


## Specifying Field Properties

Field properties are specified in the Field Properties dialog box. The number of tabs in the Field Properties dialog box and the contents of each tab vary according to the type of field.

Follow these steps to specify the properties for a field:

1. Click the field to select it.
2. Position the cursor within the field and right-click to display the following menu.



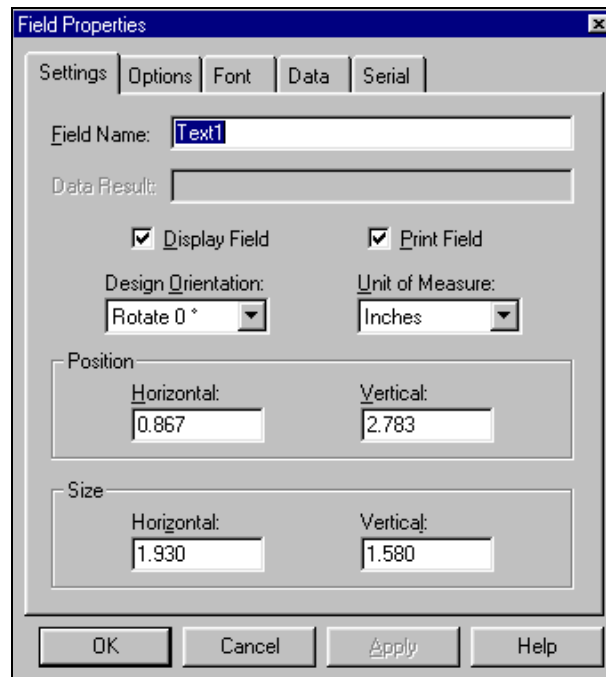
The tabs in the Field Properties dialog box are listed at the bottom of the menu. If you select a tab name, the Field Properties dialog box opens with that tab activated. If you select **Properties**, the Field Properties dialog box opens with the Settings tab activated.

---

**Note:** The menu options displayed will vary according to the type of field selected.

---

3. Select the appropriate option.  
The Field Properties dialog box opens.



4. On each relevant tab of the Field Properties dialog box, specify new properties or modify existing properties, as necessary. (The specifications on each tab are described in the following sections, by type of field.)
5. When you have completed your property specifications, click OK.

### ***Text Fields***

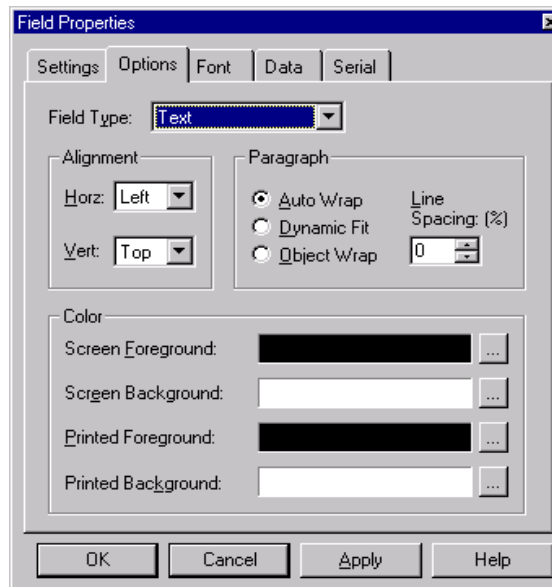
For text fields, the Field Properties dialog box contains five tabs – Settings, Options, Font, Data, and Serial.

## Text Fields — Settings Tab

The screenshot shows the 'Label Properties' dialog box with the 'Settings' tab selected. The 'Label Description' and 'Label Stock' fields are empty. The 'Printer' dropdown is set to 'Weber Series 22 Print Drive' and the 'Print Mode' dropdown is set to '300.0x300.0'. The 'Print Log' section contains four fields: 'User Name', 'User Password', 'Data Source', and 'Table Name', all of which are empty. At the bottom are buttons for 'OK', 'Cancel', 'Apply', and 'Help'.

Specification	Description
Field Name	Name of the field. For each new field you create, Legi displays a default field name that you can change as necessary. Legi automatically increments the default field name.
Data Result	For a field that uses a data expression, the result of that expression. For a field that uses supplied data, the default data entered, if any.
Display Field	When checked, the field displays on the screen.
Print Field	When checked, the field prints on the label.
Design Orientation	The number of degrees the field contents should be rotated when printed: <u>0</u> °, <u>90</u> °, <u>180</u> °, or <u>270</u> °.
Unit of Measure	Unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.
<b>Position</b>	
Horizontal	The horizontal position of the upper left corner of the field.
Vertical	The vertical position of the upper left corner of the field.
<b>Size</b>	
Horizontal	The horizontal length of the field.
Vertical	The vertical length of the field.

## Text Fields — Options Tab

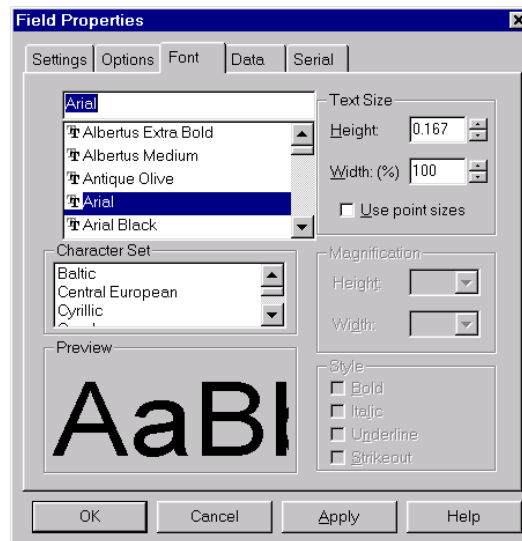


Specification	Description
Field Type	Type of field — <i>Text</i> , <i>Barcode</i> , <i>Graphic</i> , <i>Line</i> , <i>Box</i> , or <i>Raw</i> .
<b>Alignment</b>	
<u>H</u> orz	Horizontal justification to be used — <i>Left</i> , <i>Right</i> , <i>Center</i> , or <i>Justify</i> (left and right justification).
<u>V</u> ert	Vertical justification to be used — <i>Top</i> , <i>Bottom</i> , <i>Center</i> , or <i>Justify</i> (top and bottom justification).
<b>Paragraph</b>	
<u>A</u> uto Wrap	When checked, text is automatically separated into lines based on the width of the field.
<u>D</u> ynamic Fit	When checked, the font size is automatically adjusted so that the text fills the entire field.
<u>O</u> bject Wrap	When checked, the paragraph field is wrapped around another field, known as the object field when it is dragged against any side of the object field.
Line Spacing	Line spacing to be used — single (1), double (2), and so on.
<b>Color</b>	
Screen Foreground	Field text color for on-screen display.
Screen Background	Field background color for on-screen display.
Printed Foreground	Field text color for printed labels.
Printed Background	Field background color for printed labels.



## Text Fields — Font Tab

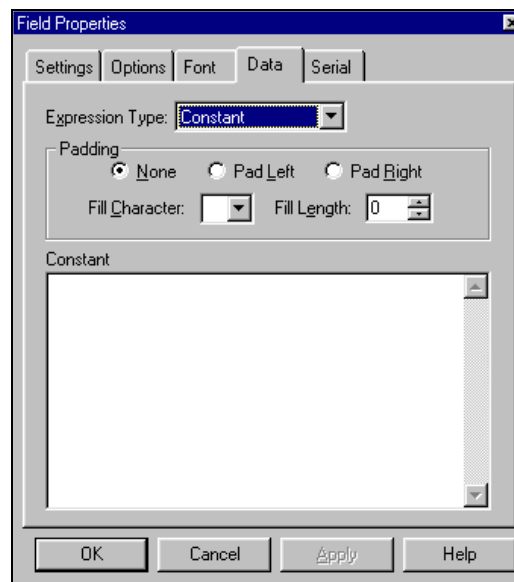
The Font property page, as shown below, allows the user to select any installed character set for system TrueType fonts. *This feature is available only in Windows NT 4.0 installations.*



Specification	Description
[Selected Font]	The font to be used in the selected field.
<b>Text Size</b>	
<u>H</u> eight	For a scalable font, the exact height of the text.
<u>W</u> idth	For a scalable font, the exact width of the text.
<u>U</u> se point sizes	When checked, point size is used for the Height and Width specifications.
<b>Style</b>	
<u>I</u> nverse	When checked, the foreground and background colors will be <b>reversed</b> .
<u>I</u> tal <del>i</del> c	When checked, the text will print in <i>italic</i> . (Available for soft fonts only.)
<u>B</u> old	When checked, the text will print in <b>bold</b> . (Available for soft fonts only.)
<u>U</u> nderline	When checked, the text will print <u>underlined</u> . (Available for soft fonts only.)
<u>S</u> trikeout	When checked, the text will print with <del>strikeout</del> characters through it. (Available for soft fonts only.)
<b>Magnification</b>	
<u>H</u> eight	For a non-scalable font, the amount of height magnification.

Specification	Description
Width	For a non-scalable font, the amount of width magnification.
Preview	Results of your font specifications.
<b>Inverse Dithering</b>	
Height	When the Style is Inverse, the height of the space beyond the text occupied by the reverse.
Width	When the Style is Inverse, the width of the space beyond the text occupied by the reverse.

### Text Fields — Data Tab



Expression Type identifies the type of data the field will contain – *Constant*, *Reference Field*, *Database*, *Text File*, *Date or Time*, *String Builder*, or *Supplied Input*. The control fields that appear below vary according to the type of data selected. The types of data and their respective control fields are described in *Data Types*, beginning on page 61.

## Text Fields — Serial Tab

Specification	Description
<b>Serial Number</b> – <u>N</u> o, <u>Y</u> es, <u>T</u> racking (keep track of last number used for this serial number).	
Start Value	Beginning serial number value.
Increment	The number to be used to increment the serial number.
Tracking Serial Number Name	Name of serial number to be used.
<b>Leading Fill Character</b>	
<u>C</u> hara <u>cter</u>	Character to be used to pad the serial number.
Length	Length (in characters) of serial number.
<b>Automatic Label Counts</b>	
<u>T</u> his field determines number of identical labels printed	When checked, the value of this field determines the number of identical labels printed.
This field determines number of labels serialized	When checked, the value of this field determines the number of labels serialized.

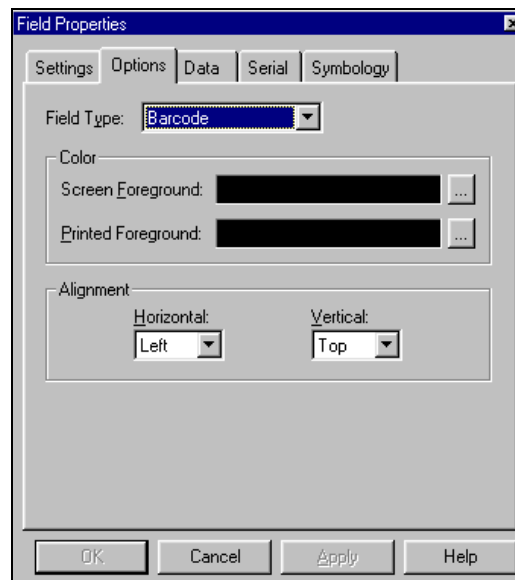
## Barcode Fields

### Barcode Fields — Settings Tab

The screenshot shows the 'Field Properties' dialog box with the 'Settings' tab selected. The 'Field Name' is 'Barcode1'. The 'Data Result' field is empty. Both 'Display Field' and 'Print Field' are checked. 'Design Orientation' is set to 'Rotate 0°' and 'Unit of Measure' is 'Inches'. Under 'Position', 'Horizontal' is 0.909 and 'Vertical' is 0.615. Under 'Size', 'Horizontal' is 1.902 and 'Vertical' is 1.469. The bottom buttons are OK, Cancel, Apply, and Help.

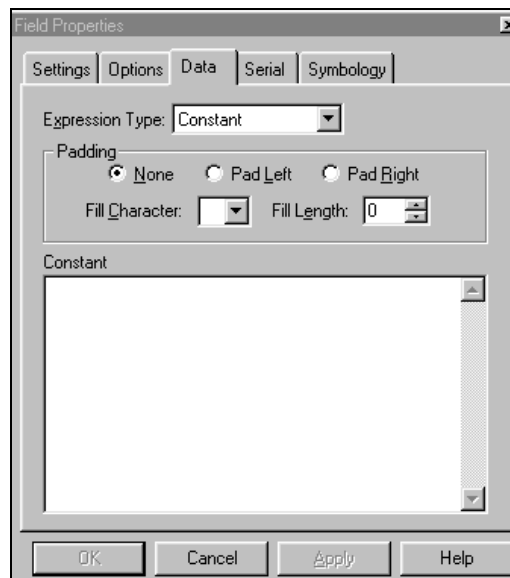
Specification	Description
Field Name	Name of the field. For each new field you create, Legi displays a default field name that you can change as necessary. Legi automatically increments the default field name.
Data Result	Does not apply to barcode fields.
Display Field	When checked, the field displays on the screen.
Print Field	When checked, the field prints on the label.
Design Orientation	The number of degrees the field contents should be rotated when printed: <u>0</u> °, <u>90</u> °, <u>180</u> °, or <u>270</u> °.
Unit of Measure	Unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.
<b>Position</b>	
Horizontal	The horizontal position of the upper left corner of the field.
Vertical	The vertical position of the upper left corner of the field.
<b>Size</b>	
Horizontal	The horizontal length of the field.
Vertical	The vertical length of the field.

## Barcode Fields — Options Tab



Specification	Description
Field Type	Type of field – <i>Text, Barcode, Graphic, Line, Box, or Raw</i> .
<b>Color</b>	
Screen Foreground	Field foreground color for on-screen display.
Printed Foreground	Field foreground color for printed labels.
<b>Alignment</b>	
Horizontal	Horizontal justification to be used — <i>Left, Right, Center, or Justify</i> (left and right justification).
Vertical	Vertical justification to be used — <i>Top, Bottom, Center, or Justify</i> (top and bottom justification).

## Barcode Fields — Data Tab

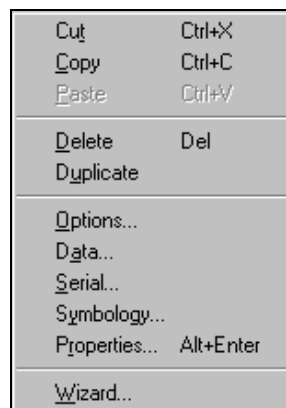


The Expression Type field displays the type of data the field will contain --*Constant, Reference Field, Database, Text File, Date or Time, String Builder, or Supplied Input*. The control fields that appear below vary according to the type of data selected. The types of data and their respective control fields are described in Data Types, beginning on page 61.

---

**Note:** A wizard is available for constructing the data for UCC/EAN128 bar codes. The wizard allows you to select Application Identifiers (AI), check digits, and other parameters associated with these bar codes. To access the wizard, click the bar code field to select it, position the cursor within the field, and right-click to display the menu shown below. Then select Wizard.

---



## Barcode Fields — Serial Tab

**Field Properties**

Settings | Options | Data | **Serial** | Symbology

**Serial Number**

☒ No ☐ Yes ☐ Tracking

Start Value: 0

Increment: 0

Tracking Serial Number Name:

**Leading Fill Character**

Character:  Length: 0

**Automatic Label Counts**

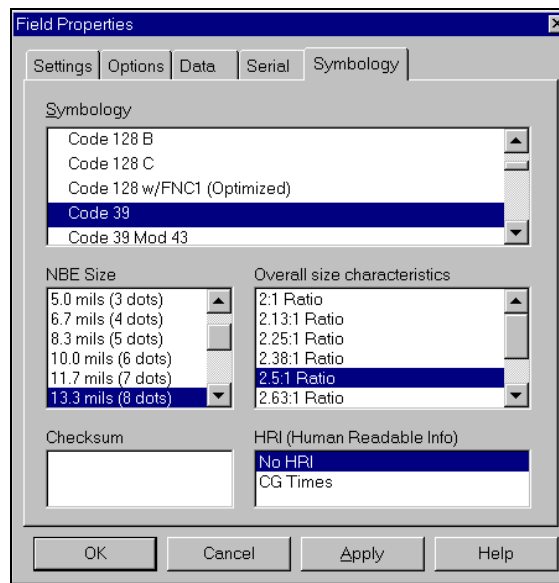
☐ This field determines number of identical labels printed

☐ This field determines number of labels serialized

OK Cancel Apply Help

Specification	Description
<b>Serial Number</b> — <u>N</u> o, <u>Y</u> es, <u>T</u> racking (keep track of last number used for this serial number).	
Start Value	Does not apply to barcode fields.
Increment	Does not apply to barcode fields.
Tracking Serial Number Name	Does not apply to barcode fields.
<b>Leading Fill Character</b>	
<u>C</u> harter	Does not apply to barcode fields.
Length	Does not apply to barcode fields.
<b>Automatic Label Counts</b>	
<u>T</u> his field determines number of identical labels printed	When checked, the value of this field determines the number of identical labels printed.
This <u>f</u> ield determines number of labels serialized	When checked, the value of this field determines the number of labels serialized.

## Barcode Fields — Symbology Tab



Specification	Description
Symbology	The barcode symbology (type) to be used.
<b>Preview</b> — results of your barcode specifications.	
NBE Size	The size of the barcode.
Overall size characteristics	Summary of size characteristics.
Checksum	Checksum formula to be used for verification of barcode data.
HRI (Human Readable Info)	<p>Fonts available for display of the text associated with the barcode.</p> <p>When NO HRI is selected, the text associated with the barcode is <i>not</i> displayed.</p>



## **Graphics Fields**

Legi supports the following graphic file formats:

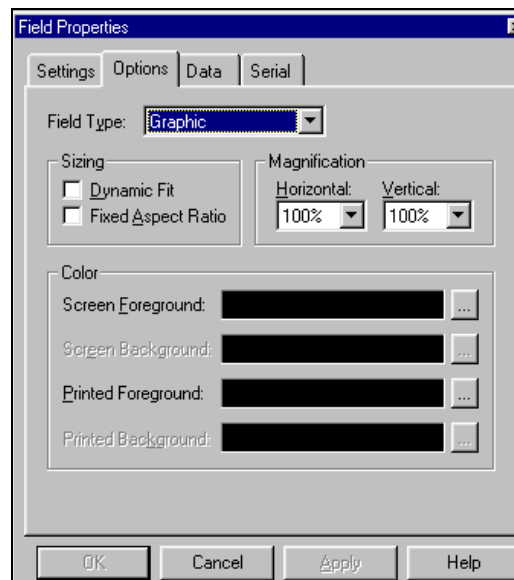
- ❑ WindowsBitmap (.BMP)
- ❑ Encapsulated PostScript (.EPS – a vector format)
- ❑ JPEG (Joint Photo Experts Group – JPG)
- ❑ Zsoft PCS (.PCX)
- ❑ Windows Metafile (.WMF – a vector format)
- ❑ TIFF (.TIFF – in all formats except LZW compression)
- ❑ WordPerfect Graphic (.WPG)
- ❑ Targa (.TGA)

## Graphics Fields — Settings Tab

The screenshot shows the 'Field Properties' dialog box with the 'Settings' tab selected. The 'Field Name' is 'Graphic1'. The 'Data Result' field is empty. Both 'Display Field' and 'Print Field' checkboxes are checked. 'Design Orientation' is set to 'Rotate 0°' and 'Unit of Measure' is 'Inches'. Under 'Position', 'Horizontal' is 1.231 and 'Vertical' is 4.573. Under 'Size', 'Horizontal' is 2.028 and 'Vertical' is 0.951. The bottom buttons are OK, Cancel, Apply, and Help.

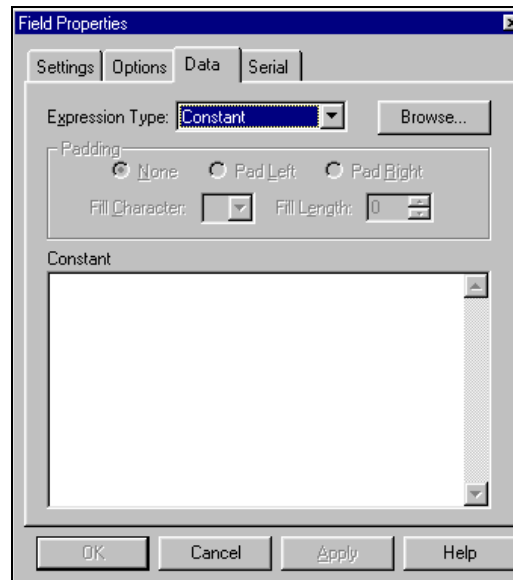
Specification	Description
Field Name	Name of the field. For each new field you create, Legi displays a default field name that you can change as necessary. Legi automatically increments the default field name.
Data Result	Does not apply to graphics fields.
Display Field	When checked, the field displays on the screen.
Print Field	When checked, the field prints on the label.
Design Orientation	The number of degrees the field contents should be rotated when printed: <u>0</u> °, <u>20</u> °, <u>180</u> °, or <u>270</u> °.
Unit of Measure	Unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.
<b>Position</b>	
Horizontal	The horizontal position of the upper left corner of the field.
Vertical	The vertical position of the upper left corner of the field.
<b>Size</b>	
Horizontal	The horizontal length of the field.
Vertical	The vertical length of the field.

## Graphics Fields — Options Tab



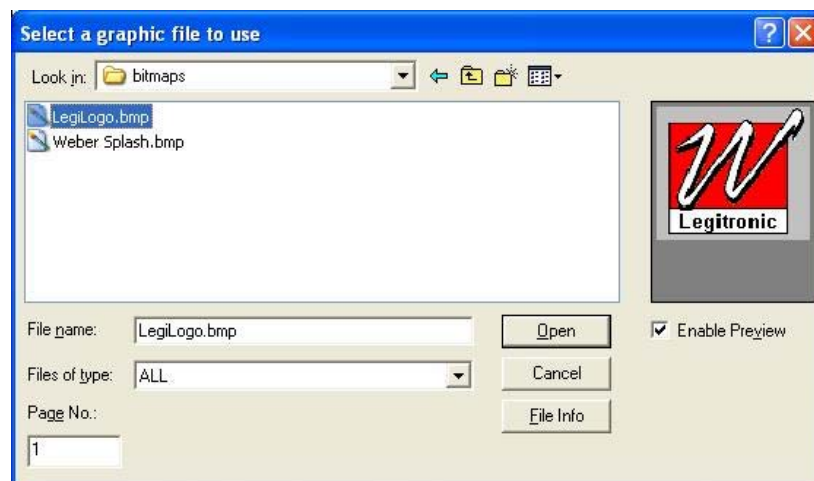
Specification	Description
Field Type	Type of field — <i>Text, Barcode, Graphic, Line, Box, or Raw</i> .
<b>Sizing</b>	
<u>D</u> ynamic Fit	When checked, the graphic size is automatically adjusted to fill the entire field.
Fixed <u>A</u> spect Ratio	When checked, the graphic's proportions are maintained during resizing.
<b>Magnification</b>	
<u>H</u> orizontal	The amount of height magnification.
<u>V</u> ertical	The amount of width magnification.
<b>Color</b>	
Screen <u>F</u> oreground	Field foreground color for on-screen display.
Screen <u>B</u> ackground	Field background color for on-screen display.
<u>P</u> rinted Foreground	Field foreground color for printed labels.
Printed <u>B</u> ackground	Field background color for printed labels.

## Graphics Fields — Data Tab



The Expression Type field displays the type of data the field will contain — *Constant*, *Reference Field*, *Database*, *Text File*, *Date or Time*, *String Builder*, or *Supplied Input*. The control fields that appear below vary according to the type of data selected. The types of data and their respective control fields are described in Data Types, beginning on page 61.

**Browse Button.** In addition to the standard command buttons, the Data tab contains the **Browse** command button, used to locate the graphic file you want to use. When you click **Browse**, Legi opens the dialog box shown below. When you have located the file you want to use, select it and click Open.



(For a description of the standard command buttons, refer to “Using Dialog Boxes and Command Buttons” in Chapter 3.)

## Line Fields

### Line Fields — Settings Tab

Field Properties

Settings Options

Field Name:

Data Result:

☒ Display Field ☒ Print Field

Design Orientation:  Unit of Measure:

Position

Horizontal:  Vertical:

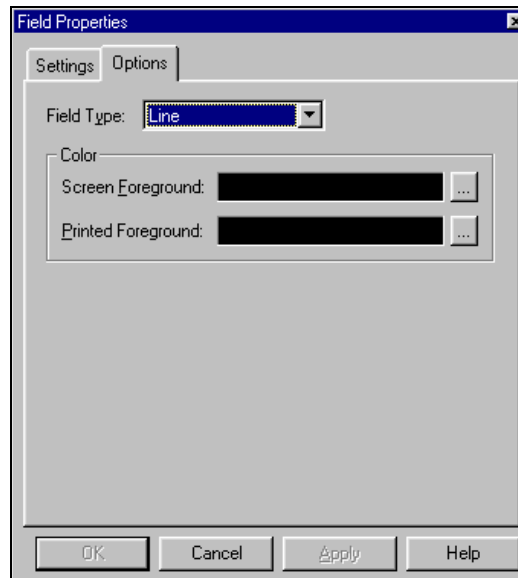
Size

Horizontal:  Vertical:

OK Cancel Apply Help

Specification	Description
<u>F</u> ield Name	Name of the field. For each new field you create, Legi displays a default field name that you can change as necessary. Legi automatically increments the default field name.
Data Result	Does not apply to line fields.
<u>D</u> isplay Field	When checked, the field displays on the screen.
<u>P</u> rint Field	When checked, the field prints on the label.
Design <u>O</u> rientation	The number of degrees the field contents should be rotated when printed: <u>0</u> °, <u>90</u> °, <u>180</u> ° or <u>270</u> °.
<u>U</u> nit of Measure	Unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.
<b>Position</b>	
<u>H</u> orizontal	The horizontal position of the upper left corner of the field.
<u>V</u> ertical	The vertical position of the upper left corner of the field.
<b>Size</b>	
Hor <u>iz</u> ontal	The horizontal length of the field.
Vertic <u>a</u> l	The vertical length of the field.

## Line Fields — Options Tab



Specification	Description
Field Type	Type of field — <i>Text, Barcode, Graphic, Line, Box, or Raw.</i>
<b>Color</b>	
Screen Foreground	Field foreground color for on-screen display.
Printed Foreground	Field foreground color for printed labels.

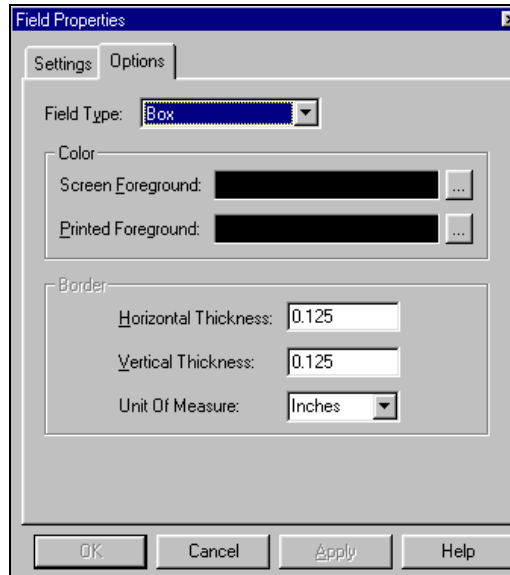
## Box Fields

### Box Fields — Settings Tab

The screenshot shows the 'Field Properties' dialog box with the 'Settings' tab selected. The 'Field Name' is 'Box1'. 'Data Result' is empty. Both 'Display Field' and 'Print Field' are checked. 'Design Orientation' is set to 'Rotate 0°' and 'Unit of Measure' is 'Inches'. Under 'Position', 'Horizontal' is 0.713 and 'Vertical' is 3.119. Under 'Size', 'Horizontal' is 1.455 and 'Vertical' is 0.937. The bottom buttons are OK, Cancel, Apply, and Help.

Specification	Description
<u>F</u> ield Name	Name of the field. For each new field you create, Legi displays a default field name that you can change as necessary. Legi automatically increments the default field name.
D <u>a</u> ta Result	Does not apply to box fields.
<u>D</u> isplay Field	When checked, the field displays on the screen.
<u>P</u> rint Field	When checked, the field prints on the label.
D <u>e</u> sign <u>O</u> rientation	The number of degrees the field contents should be rotated when printed: <u>0</u> °, <u>90</u> °, <u>180</u> °, or <u>270</u> °.
<u>U</u> nit of Measure	Unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.
<b>Position</b>	
<u>H</u> orizontal	The horizontal position of the upper left corner of the field.
<u>V</u> ertical	The vertical position of the upper left corner of the field.
<b>Size</b>	
H <u>o</u> rizontal	The horizontal length of the field.
V <u>e</u> rtical	The vertical length of the field.

## Box Fields — Options Tab



Specification	Description
Field Type	Type of field — <i>Text, Barcode, Graphic, Line, Box, or Raw</i> .
<b>Color</b>	
Screen Foreground	Field foreground color for on-screen display.
Printed Foreground	Field foreground color for printed labels.
<b>Border</b>	
Horizontal Thickness	Thickness of the horizontal lines that make up the box.
Vertical Thickness	Thickness of the vertical lines that make up the box.
Unit of Measure	Unit to be used for entering and displaying measurements: <i>Inches, Centimeters, or Points</i> .

## Raw Fields

Raw fields contain data to be used by the printer when the labels are printed.

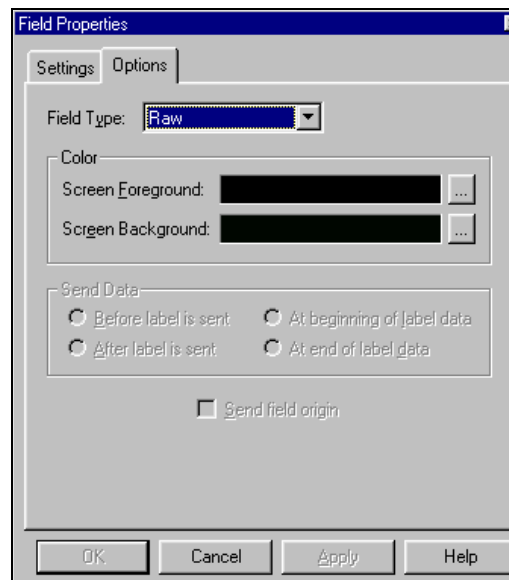


## Raw Fields — Settings Tab

The screenshot shows the 'Field Properties' dialog box with the 'Settings' tab selected. The 'Field Name' is 'Raw1'. The 'Data Result' field is empty. Both 'Display Field' and 'Print Field' are checked. 'Design Orientation' is set to 'Rotate 0°' and 'Unit of Measure' is 'Inches'. Under 'Position', 'Horizontal' is 0.490 and 'Vertical' is 2.476. Under 'Size', 'Horizontal' is 1.413 and 'Vertical' is 0.448. The bottom buttons are OK, Cancel, Apply, and Help.

Specification	Description
<u>F</u> ield Name	Name of the field. For each new field you create, Legi displays a default field name that you can change as necessary. Legi automatically increments the default field name.
Data Result	Does not apply to raw fields.
<u>D</u> isplay Field	When checked, the field displays on the screen.
<u>P</u> rint Field	When checked, the field prints on the label.
Design <u>O</u> rientation	The number of degrees the field contents should be rotated when printed: <u>0</u> °, <u>90</u> °, <u>180</u> °, or <u>270</u> °.
<u>U</u> nit of Measure	Unit to be used for entering and displaying measurements: <u>I</u> nches, <u>C</u> entimeters, <u>P</u> oints, or <u>D</u> ots.
<b>Position</b>	
<u>H</u> orizontal	The horizontal position of the upper left corner of the field.
<u>V</u> ertical	The vertical position of the upper left corner of the field.
<b>Size</b>	
<u>H</u> orizontal	The horizontal length of the field.
<u>V</u> ertical	The vertical length of the field.

## Raw Fields — Options Tab



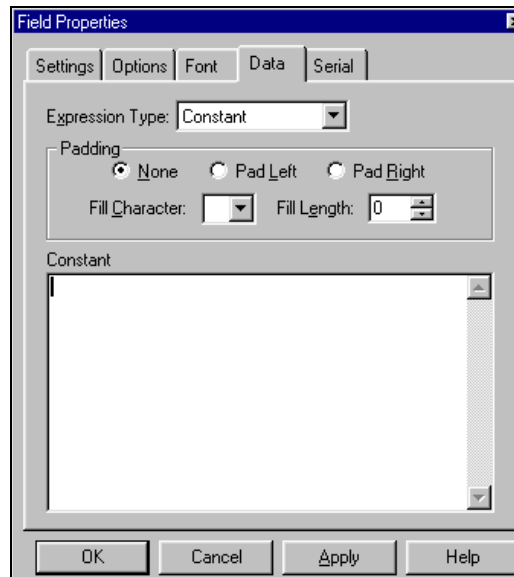
Specification	Description
Field type	Type of field – <i>Text, Barcode, Graphic, Line, Box, or Raw.</i>
<b>Color</b>	
Screen Foreground	Field foreground color for on-screen display.
Screen Background	Field background color for on-screen display.
Send Data	Selection of when the content of the raw data field is to be sent to the printer:  After label is sent At beginning of label data At end of label data
Send field origin	When checked, the coordinates of the raw data will be sent to the printer.

## Data Types

This section describes the controls for the various data types available on the Data tab of the Field Properties dialog box.

### Constant

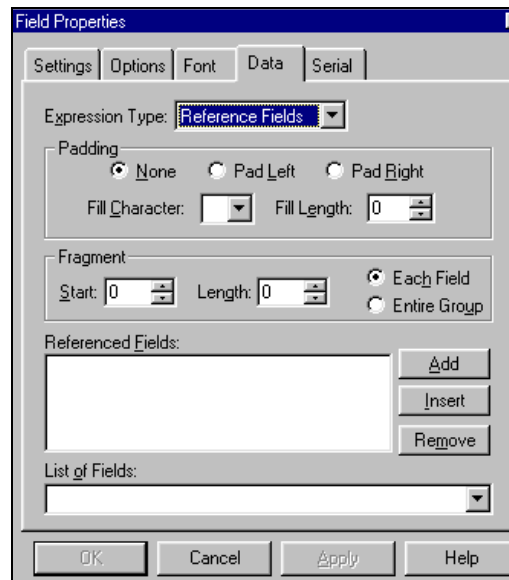
Constant data remains unchanged every time the label is printed.



Specification	Description
Padding	Type of padding desired when the field content is shorter than the length specified in the Fill Length field – none, pad left, or pad right.
Fill Character	Character to be used to pad the field.
Fill Length	The maximum allowable length of the field.
Constant	<p>For <i>text</i> fields, the text that will print on each label.</p> <p>For <i>barcode</i> fields, the data that will be translated into a barcode printed on each label.</p> <p>For <i>graphic</i> fields, the file name that contains the graphic (including path). When you don't know the graphic name, click the <b>Browse</b> button, select the file name, and click <b>Open</b>.</p> <p>For <i>raw</i> fields, the printer commands for each label.</p>

## Reference

Reference fields allow you to reference other fields on the label. The field will combine data from the referenced fields in their order of reference.



Specification	Description
Padding	Type of padding desired when the field content is shorter than the length specified in the Fill Length field – none, pad left, or pad right.
Fill Character	Character to be used to pad the field.
Fill Length	The maximum allowable length of the field.
<b>Fragment</b> – you can specify a start position and maximum length for each referenced field or for the entire group of referenced fields.	
Start	The position at which the data should begin.
Length	The maximum length of the field.
Referenced Fields	<p>From the drop-down List of Fields, select each field you want to reference. Once selected, the field name appears in the List of Fields box.</p> <p>To add the selected field to end of the referenced field list, click <b>Add</b>.</p> <p>To insert the selected field <i>before</i> a particular referenced field list, select that referenced field and click <b>Insert</b>.</p> <p>To remove a field from the referenced field list, select it and click <b>Remove</b>.</p>
List of Fields	A drop-down list of fields available for reference in this field.

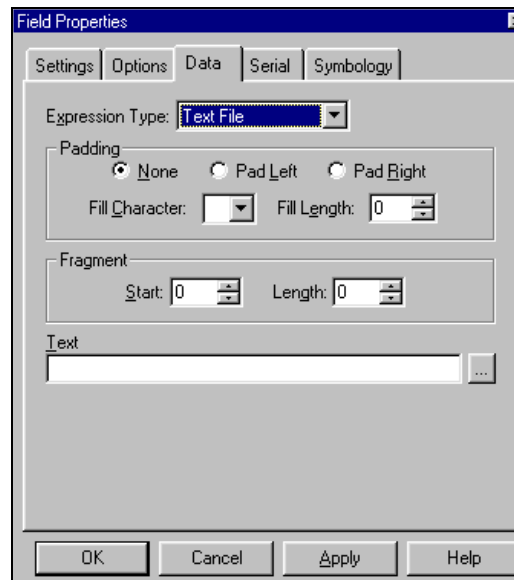
## Database

Database fields allow you to obtain field data from a selected database.

Specification	Description
Padding	Type of padding desired when the field content is shorter than the length specified in the Fill Length field – none, pad left, or pad right.
Fill Character	Character to be used to pad the field.
Fill Length	The maximum allowable length of the field.
<b>Fragment</b> – you can specify a start position and maximum length for the field.	
Start	The position at which the data should begin.
Length	The maximum length of the field.
Queried Print	When checked, the field will get its data from the data source identified below.
Data Source	Drop-down list of data sources defined using the ODBC Administrator. When you select a data source, a dialog box displays so that you can locate and select the appropriate database from that data source.
Database	Database that contains the table you want to use.
Table	Name of the table that contains the data you want to use.
Search Col	The database column to be searched for the appropriate record.
Return Col	The database field in the selected record that contains the data to be used in the label field.
Key Field on Label	The label field that contains the data used to select the database record.

## Text File

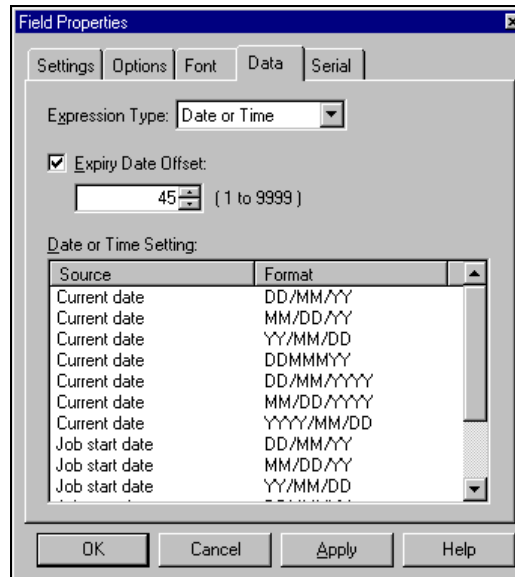
Text file fields provide the ability to retrieve the contents of a text file to serve as the field contents.



Specification	Description
Padding	Type of padding desired when the field content is shorter than the length specified in the Fill Length field – none, pad left, or pad right.
Fill Character	Character to be used to pad the field.
Fill Length	The maximum allowable length of the field.
<b>Fragment</b> – you can specify a start position and maximum length for the field.	
Start	The position at which the data should begin.
Text	The name of the text file. If you don't know the text file name, click the ellipsis button (...) to the right of the Text field to open the File Selection dialog box. Then locate and select the text file name and click <u>O</u> pen.

## Date or Time

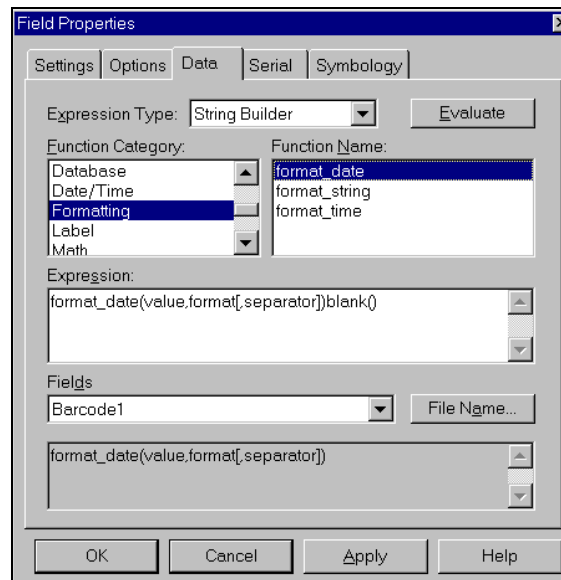
Date or Time fields allow you to select a date or time format to print on the labels, calculate expiry dates, and print four-digit year fields.



Specification	Description
Expiry Date Offset	When checked, the current date is offset by the number of days (1-9999) specified in the spin box below, and the resulting date prints on the label. For example, assume that Expiry Date Offset is checked and an offset of 30 days is specified. If the label is printed on January 1, the date printed on the label will be January 31.
Date or Time Setting	List of available date formats. Highlight the format you want to use on the label.

## String Builder

String builder allows you to build data expressions. For detailed information about data expression functions, refer to Appendix A.



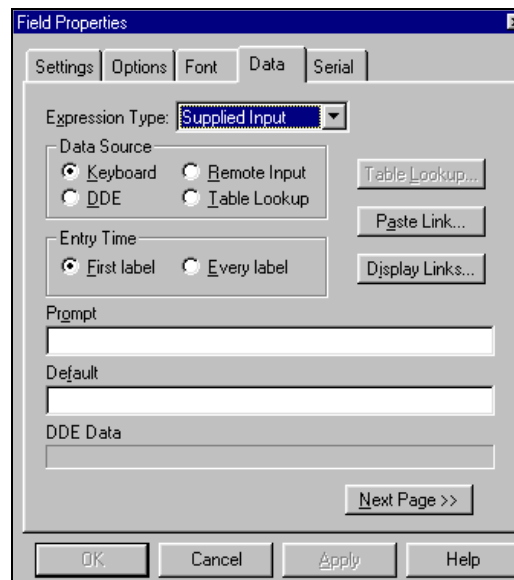
Specification	Description
Function Category	Available functions.
Function Name	The elements that can be included in the string for the Function selected. To paste a function in the Expression box, double-click the function.
Expression	The expression you are building. To evaluate the validity of the expression, click <b>Evaluate</b> . If the expression is valid, the results of the data expression is displayed below the Fields list box.
Fields	The fields that can be included in the string.



## Supplied Input

Supplied input is provided at the time the labels are printed. The supplied input controls specify the source of the supplied input and its properties. There are two pages to this tab. Click **Next Page** and **Prev Page** to navigate between them.

### Page 1



Specification	Description
Data Source	<p>The source of the supplied input:</p> <p><b>Keyboard</b> – Data will be entered at the keyboard.</p> <p><b>DDE</b> – a Dynamic Data Exchange (DDE) server application is the data source. The actual server name and link information are set up in Print Labels by clicking <b>Paste Link</b>.</p> <p><b>Remote input</b> – a COM port is the data source.</p> <p><b>Table Lookup</b> – a Paradox table is the input source. Click <b>Table Lookup</b> to select the table and field to be used.</p>
Entry Time	When the input will be supplied – for the first label only or for every label.
Prompt	The prompt to be displayed for keyboard data.
Default	Default data for the field.
DDE Data	Data to supplied by the other application.

## Page 2

The image shows a 'Field Properties' dialog box with the following sections:

- Settings** | **Options** | **Font** | **Data** | **Serial**
- Expression Type:** Supplied Input
- Padding:**
  - ☒ None ☐ Pad Left ☐ Pad Right
  - Fill Character:** [Dropdown]
  - Fill Length:** 0
- Remote Source:**
  - ☐ Source 1 ☐ Source 3
  - ☐ Source 2 ☐ Source 4
- Input Length:**
  - Minimum:** 0
  - Maximum:** 0
- Custom Filter:** [Dropdown]
- Buttons:** << Prev Page, OK, Cancel, Apply, Help

Specification	Description
Padding	Type of padding desired when the field content is shorter than the length specified in the Fill Length field – none, pad left, or pad right.
Fill Character	Character to be used to pad the field.
Fill Length	The maximum allowable length of the field.
Remote Source	For supplied input, the remote source (device) number.
Input Length	The minimum and maximum number of characters that will be accepted.
Custom Filter	Series of special characters (tokens) that control the types of characters that can be entered.

### Custom Filter Characters

A custom filter can consist of the following characters.

Filter Character	Description
#	Digit placeholder.
.	Decimal placeholder. The actual character used is the one specified as the decimal placeholder in your international settings. This character is treated as a literal for masking purposes.
,	Thousands separator. The actual character used is the one specified as the thousands separator in your international settings. This character is treated as a literal for masking purposes.
:	Time separator. The actual character used is the one specified as the time separator in your international settings. This character is treated as a literal for masking purposes.
/	Date separator. The actual character used is the one specified as the date separator in your international settings. This character is treated as a literal for masking purposes.
\	Treats the next character in the mask string as a literal. This allows you to include the '#', '&', 'A', and '?' characters in the mask. This character is treated as a literal for masking purposes.
&	Character placeholder. Valid values for this placeholder are ANSI characters in the following ranges: 32-126 and 128-255.
>	Converts all the characters that follow to uppercase.
<	Converts all the characters that follow to lowercase.
A	Alphanumeric character placeholder (entry required) – for example: <b>a E z, A E Z, or 0 E9</b> .
a	Alphanumeric character placeholder (entry optional).
9	Digit placeholder (entry optional) – for example: <b>0 E9</b> .
C	Character or space placeholder (entry optional). This operates exactly like the & placeholder and ensures compatibility with Microsoft Access.
?	Letter placeholder – for example: <b>a E z or A E Z</b> .
Literal	Displays all other symbols as literals (that is, as themselves).

### Real Time Clock Data Type

In the Field Properties screen, click the "Evaluate" button to display an example of the resulting string, based on current computer time and date, in the text box below the offset value field.

The image shows a 'Field Properties' dialog box with a blue title bar and a close button. It has five tabs: 'Settings', 'Options', 'Data', 'Serial', and 'Symbology'. The 'Data' tab is selected. Inside the 'Data' tab, there is an 'Expression Type' dropdown set to 'Realtime Date/Time' and an 'Evaluate' button. Below this is a text field for 'Realtime Printer Date Time format string' containing '[d0][m2][d2][y4]'. A checked checkbox 'Expiry Date Offset (1 - 9999):' is followed by a numeric spinner set to '5' and a dropdown set to 'Months'. Below these is a text field showing the result '302112004'. At the bottom of the 'Data' tab is a section 'Printer Date Time Codes:' containing a table with two columns: 'Description' and 'Format'. To the right of the table are three vertical buttons: an up arrow, a list icon, and a down arrow.

Description	Format
Day of week (Monday)	[dw]
Day of week (Mon - Sun)	[d3]
Numeric day of week (0-6)	[d0]
Week (00 - 53)	[w0]
Numeric day (01 - 31)	[d2]
Month (January-December)	[m1]

At the bottom of the dialog are four buttons: 'OK', 'Close', 'Apply', and 'Help'.

The time unit options in the dropdown list are: Years, Months, Weeks, Days, Hours, Minutes and Seconds. The master list for Printer Date Time Codes is:

Code	Printer Date Time
[dw]	"Day of week (Monday)"
[d3]	"Day of week (Mon - Sun)"
[D3]	"Day of week (MON - SUN)"
[d0]	"Numeric day of week (0-6)"
[dn]	"Numeric day of week (1-7)"
[w0]	"Week (00 - 53)"
[wn]	"Week (01 - 54)"
[dd]	"Numeric day (1 - 31)"
[d2]	"Numeric day (01 - 31)"
[ma]	"Month (January-December)"
[m3]	"Month (Jan - Dec)"
[M3]	"Month (JAN - DEC)"
[mn]	"Numeric month (1 - 12)"
[m2]	"Numeric month (01 - 12)"
[y2]	"Year (00 - 99)"
[y4]	"Year (2000 - 2099)"
[jd]	"Julian date (1 - 366)"
[jb]	"Julian date (leading blanks)"
[jz]	"Julian date (leading zeros)"
[TM]	"12 hour time (1 - 12)"
[TZ]	"12 hour time (01 - 12)"
[tm]	"24 hour time (0 - 23)"
[tz]	"24 hour time (00 - 23)"
[mt]	"Minutes (0 - 59)"
[mz]	"Minutes (00 - 59)"
[sc]	"Seconds (0 - 59)"
[s2]	"Seconds (00 - 59)"
[ap]	"am/pm"
[AP]	"AM/PM"
[si]	"Shift Information"

## Deleting a Field

Follow these steps to delete a field:

1. Select the field.
2. Select *Edit* → *Delete* from the menu bar *or* press the **Delete** key on your keyboard.

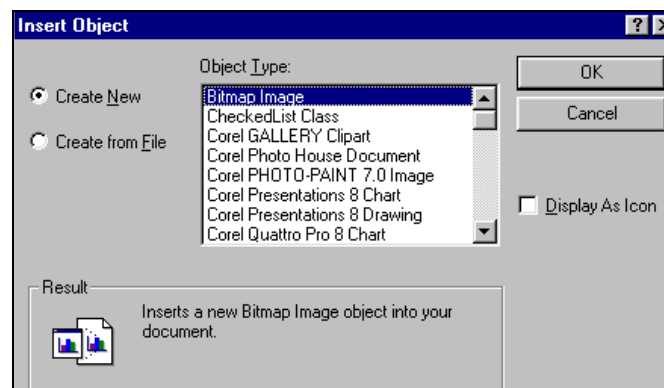
## Object Linking and Embedding (OLE)

Object linking and embedding (OLE) allows you to create an object – such as a graphic or Microsoft Word document – in any Windows® application that supports OLE and use that object as the content of a label field. To use the OLE function, make sure the application you want to create the object in is active. You can insert an existing object or create a new object by following the steps below.

### Inserting an Existing Object

1. Select the field that will contain the object.
2. Select *Edit* → *Insert New Object*.

The Insert Object dialog box opens.



3. Click *Create from File*.
4. Type the name of the file that contains the object. If you don't know the file name, click **Browse**. When you locate the file name, select it and click **Insert**.
5. If you want the object to display as an application icon, check *Display As Icon*.

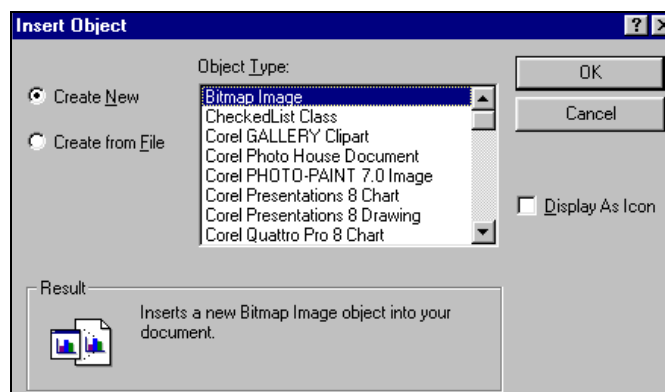
6. If you want to link to the file so that the contents of the field always reflects the contents of the file, check **Link**.
7. Click OK.

The contents of the file will be inserted into the field.

## Creating a New Object

1. Select the field that will contain the object.
2. Select Edit → Insert New Object.

The Insert Object dialog box opens.



3. Click Create New.
4. If you want the object to display as an application icon, check Display As Icon.
5. Select the type of object you want to create and click OK.

The application you selected is activated so that you can create the object.

6. When you have created the object, click inside the field to insert the object.


## Editing an Object

To edit an object embedded in a field, just double-click the object. The application it was created in activates so that you can edit it.

## Dragging File Names From Explorer or Your Desktop

You can also insert a file as an object in a label field by dragging the file name to the field from Explorer or from your desktop. The file contents is inserted into the field and linked.

## Saving the Label

When saving the label under the same name, simply click  in the tool bar or select from File → Save from the menu bar.

---

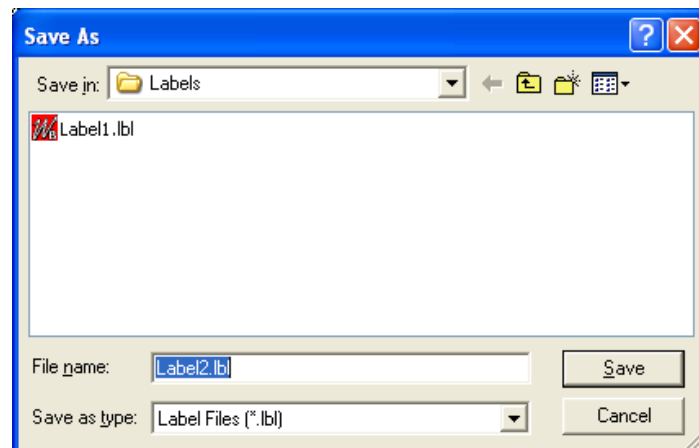
**Note:** When you have not made any changes to a label, the Save function is inactive.

---

Follow these steps to save the label under a different name:

1. Select File → Save As from the menu bar.

The Save As dialog box opens.




2. Enter a file name for the label.
3. Click the Save button.



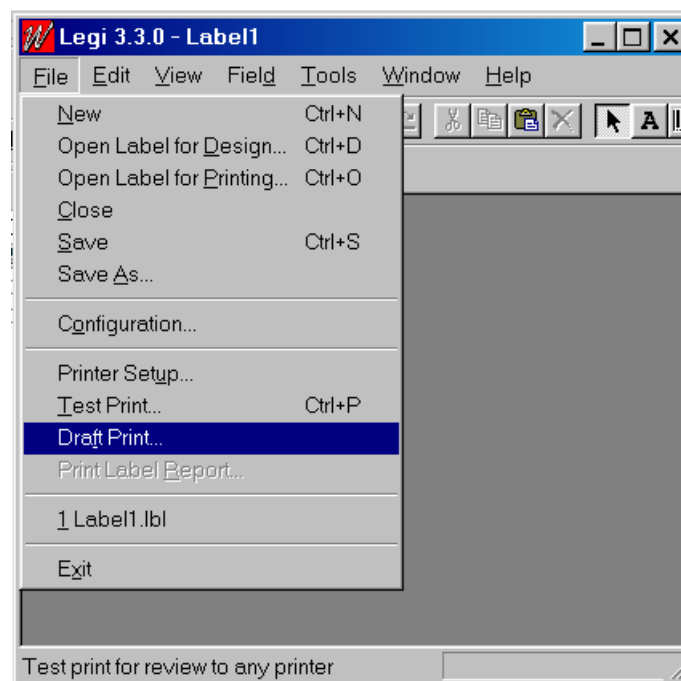
## Printing a Test Label

You can print a test label in one of three ways:

1. Select *File* → *Test Print...* from the menu bar.
2. Right-click the label and select *Test Print* from the menu that displays.
3. Click  in the tool bar.

## Printing a Draft of the Label

The draft print feature allows the user to print a copy of the label to any installed printer. Generally, the feature is used to print copies of the label to an office-type laser or ink-jet printer for review. A Draft Print is initiated by clicking *File* → *Draft Print*. See below.




# 5. Printing Labels

This chapter provides the detailed information you need to perform each of the printing steps:

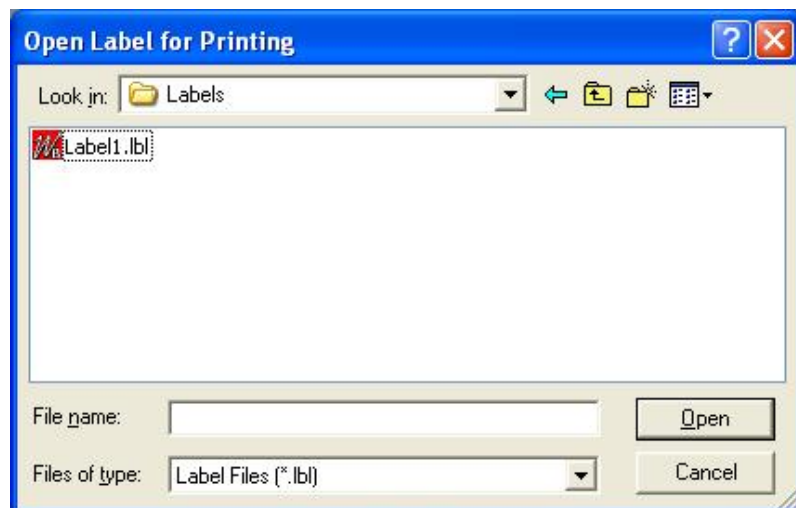
1. Opening a label for printing
2. Specifying the print properties
3. Printing the labels

## Opening a Label for Printing

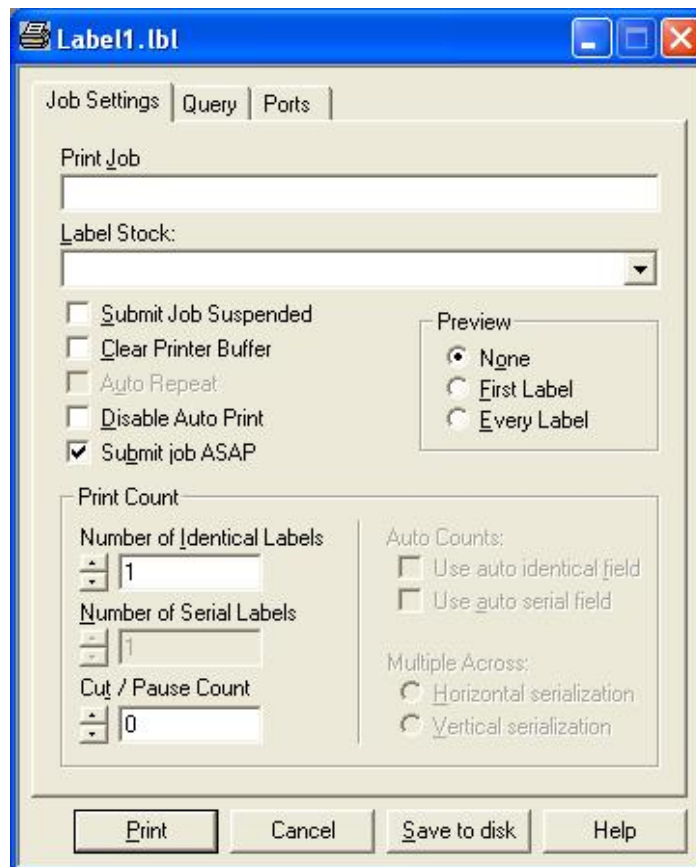
Follow these steps to open a label for printing:

1. Click  in the tool bar or select *File* → *Open Label for Printing...* from the menu bar.

The Open Label for Printing dialog box opens.



2. Locate and select the file name for the label you want to print.
3. Click Open.
4. The print properties dialog box opens, with the label name displayed in the title bar.



## Specifying the Print Properties

The print properties dialog box includes three tab displays:

- ❑ **Job Settings** – general information about the label print job.
- ❑ **Query** – information about where to obtain queried input.
- ❑ **Ports** – information about supplied input sources.

On each relevant tab of the print properties dialog box, specify the appropriate print properties. (The specifications on each tab are described in the following sections.)

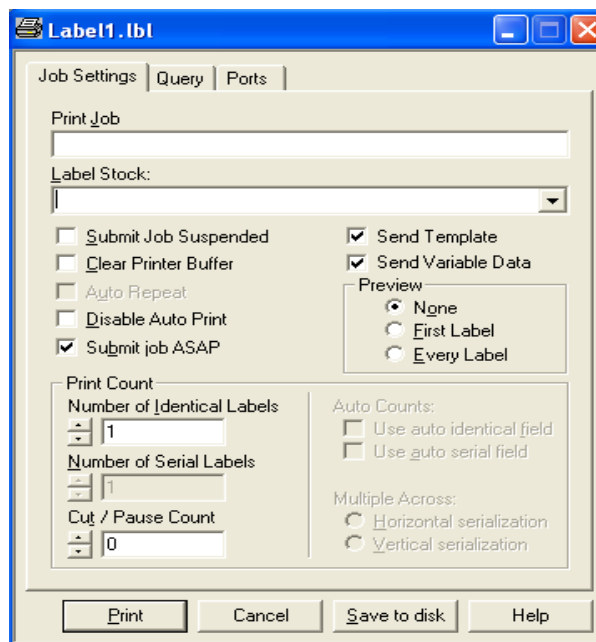
## Job Settings

Specification	Description
Print Job Description	Name of label print job. This is the job name that will appear in Windows® Print Manager.
Label Stock	Stock to be used for printing the label.
Submit Job Suspended	When checked, the print job goes to the Windows® print queue as a paused document, to be released later.
Clear Printer Buffer	When checked, the currently printing job is cleared from the printer memory.
Auto Repeat	When checked, the print job automatically starts printing again upon completion.
Disable Auto Print	When checked, the label does <i>not</i> automatically print after the last supplied input field is entered. You must click <b>Print</b> to continue printing.
Submit job ASAP	When checked, the print job is submitted immediately. When <i>not</i> checked, the Windows® Print Manager must be empty before the print job is submitted. <b>Note:</b> When a label format includes time fields, leaving this box unchecked will result in more accurate time information on the labels.
Preview	Type of preview desired: <i>none</i> , preview of <i>first</i> label only, or preview of <i>every</i> label.
Print Count	Number of labels to print:  <b>Number of Identical</b> – number of identical (duplicate) labels to print.  <b>Number of Serial</b> – number of serial labels (identical except for serial number) to print.  <b>Cut / Pause</b> – number of labels to print before cutting or pausing.
Multiple Across	<b>Horizontal serialization</b> – across the web specification at print time.  <b>Vertical serialization</b> down the web specification at print time.

## Multiple-Across Labels with Serial Fields

This feature enables serialization to be specified as Horizontal (across the web) or Vertical (down the web) at print time.

The selection is made from the Job Settings dialog, shown below, which appears after opening a label for print.



### *Send Template*

When checked, the open label template is downloaded to the printer.

### *Send Variable Data*

When checked, variable fields on the open label template are sent to the printer where they are merged with a previously downloaded label template to initiate printing of labels.

Given a label two-across label design that contains a serial field, the following label printing scenarios are available.

#### *A. Horizontal Serialization*

Serial number start value of one (1).

- ❑ Identical Count set to one (1).
- ❑ Serial Count set to four (4).

The labels print serialized as shown below.

1	2
3	4

*B. Horizontal Serialization*

Serial number start value of one (1).

- ❑ Identical Count set to two (2).
- ❑ Serial Count set to four (4).

The labels print serialized as shown below.

1	2
1	2
3	4
3	4

*C. Vertical Serialization*

Serial number start value of one (1).

- ❑ Identical Count set to two (2).
- ❑ Serial Count set to two (2).

The labels print serialized as shown below.

1	1
2	2

*D. Vertical Serialization*

Serial number start value of one (1).

- ❑ Identical Count set to four (4).
- ❑ Serial Count set to three (3).

The labels print serialized as shown below.

1	1
1	1
2	2
2	2
3	3
3	3

**Notes:**

With Horizontal Serialization, the Serial-Count value must be an even multiple of the Horizontal Label Count set in Label Design.

With Vertical Serialization, the Identical-Count value must be an even multiple of the Horizontal Label Count set in Label Design.

**Label1.lbl**

Job Settings | **Query** | Ports

User Name: admin

User Password: xxxxxxxx

Data Source: LABELLOG

Table Name: StockLog

Search Field:

Start Value: 1

End Value: 2

☐ Use SQL Expression    ☐ Reevaluate Auto Counts

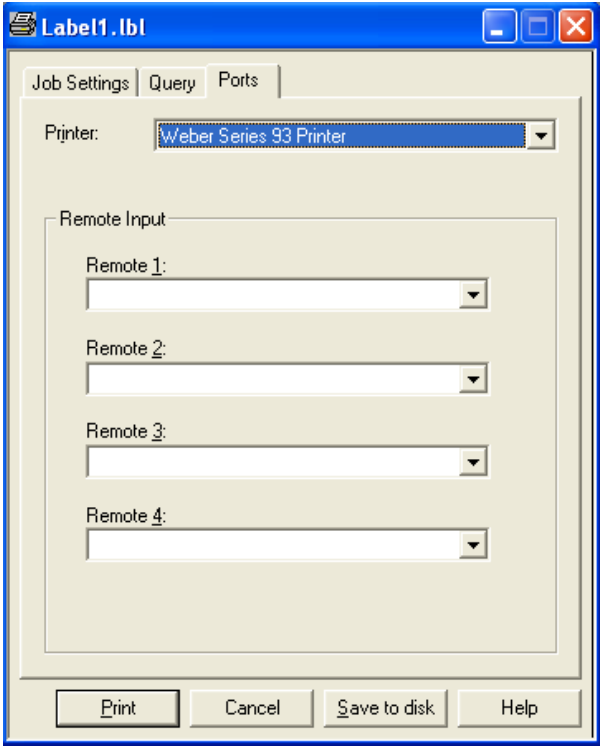
SQL Expression:

Print    Cancel    Save to disk    Help

## Query

Specification	Description
User Name	User ID.
User Password	User password (required for some data sources).
Data Source	Drop-down list of data sources defined using the ODBC Administrator. When you select a data source, a dialog box displays so that you can locate and select the appropriate database from that data source.
Table Name	Name of the table that contains the data you want to use.
Search Field	The field in the table to search for particular values.
Start Value	The first value for which a label should be printed.
End Value	The last value for which a label should be printed.
Use SQL Expression	When checked, the SQL expression entered in the SQL Expression box is used to select labels for printing. If this field is checked when start and end values have been specified, those values are converted to an SQL expression.
Reevaluate Auto Counts	When checked, the field value is re-evaluated for every database record. Otherwise, the value for the first database record is used for all labels printed.
SQL Expression	The SQL expression that will be used to select labels for printing.

## Ports



Specification	Description
Printer	Printer that will be used to print the labels. The printer specified in Label Design is the default printer, but you can change the printer selection.
Remote Input	For remote supplied fields, the port number for the remote device. <b>Note:</b> The port number must correspond to the remote sources specified in Label Design, on page 2 of the Data tab for Supplied Input field properties.

## Printing the Labels

When you have completed your print property specifications, follow these steps to print the labels:

1. Click **P**rint. If no Preview option was selected, the print job is added to the print queue.
2. If a Preview option *was* selected, the label is previewed. You can click **P**rint to add the print job to the print queue, or click **A**bort to cancel the print job.
3. Monitor the print job via the Windows® Print Manager.



# 6. Security Administration

This chapter explains how to use the Legi Standard Security Administrator to establish and maintain three types of system security:

- ❑ **System access** – access to Legi can be controlled with user names and passwords. Security Administrator allows you to maintain current user names and passwords and to assign each user to a user *group*.
- ❑ **Function rights** – Security Administrator allows you to identify the Legi functions each group is allowed to perform.
- ❑ **Print data rights** – Security Administrator allows you to identify the directories each group is allowed to access when using the Print Labels function (described in Chapter 5).

Your entries are stored in the Legi security database, which provides the information Legi needs to maintain its security.

---

**Note:** Clicking the red Legi logo in any Security Administrator dialog box displays information about the current version of Legi Security Administrator.

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## Logging into Security Administrator

Follow these steps to login to Legi Security Administrator:

1. Run Legi Security Administrator by double clicking its icon on your desktop or by selecting it from the Programs menu.

The Security Administrator Login dialog box opens.



2. Enter your user name in the Login Name field.
3. Enter your user password in the Login Password field.
4. Verify that the pathname in the Location of Legi Security Files field is the complete pathname for the directory that stores the Legi security database. If the pathname is not correct, click the ellipsis (...) button to browse for the appropriate directory.
5. Click OK.

The Security Administrator dialog box opens.

## Security Administrator Dialog Box



Specification	Description
<b>Function Rights</b>	
Group Name	The name of the group currently selected in the <u>G</u> roups list box to the right. The functions rights settings below apply to this group.
<u>L</u> abel Design	When checked, users in the selected group can perform label design operations.
<u>P</u> rint labels	When checked, users in the selected group can perform label printing operations. To restrict access to specific label printing operations, click the ellipsis (...) button.
C <u>o</u> nfiguration	When checked, users in the selected group can modify all configuration parameters.
Sec <u>u</u> rity	When checked, users in the selected group can run Security Administrator and modify security settings for Legi groups and users.
Print Data Rights	When checked, allows Legitronic-level read-only access to label format files located in specific directories when using the Print Labels function.
<b>Options</b>	
Enforce Function Rights	When checked, function rights security is enabled and enforced through the use of user names, passwords, and function rights settings.  When not checked, function rights security, user names, and passwords are disabled. When opening Legi, users are not required to log in. If any logging functions are used, the user name <b>Anonymous</b> is logged.
<b>User Controls</b>	
<u>G</u> roups [list box]	List of all groups in the Legi security database.
<u>U</u> sers [list box]	List of all users in the selected group.

Specification	Description
Groups [radio button]	When clicked, the <u>A</u> dd..., <u>M</u> odify..., and <u>D</u> elete command buttons to the right operate on the <u>G</u> roups list box.
Users [radio button]	When clicked, the <u>A</u> dd..., <u>M</u> odify..., and <u>D</u> elete command buttons to the right operate on the <u>U</u> users list box.

## Maintaining Groups

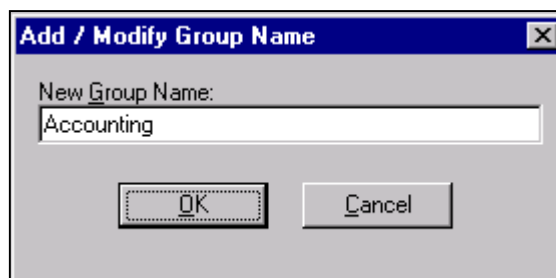
Legi Security Administrator allows you to add, modify, and delete group names.

### Adding a New Group

Legi Security Follow these steps to add a new group to the Legi security database:

1. In the Security Administrator dialog box, click the Groups radio button, and then click Add...

The Add/Modify Group Name dialog box opens.



2. Type the name of the new group.
3. Click OK.

The Add/Modify Group Name dialog box closes. The group name you added now appears in the Groups list box of the Security Administrator dialog box.

---

**Note:** When adding a new group, you should set the function rights for the group. (Refer to “Setting Function Rights for a Group” on page 91.) You may also want to add users to the new group. (Refer to “Adding a New User” on page 88.)

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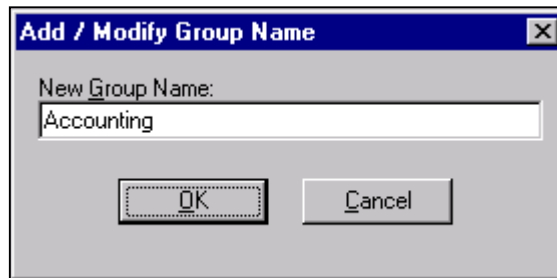
4. If you have no other Security Administrator functions to perform, click **S**ave and Exit to save all your changes to the security database and exit the Security Administrator application.

## Modifying a Group Name

Follow these steps to modify an existing group name in the Legi security database:

1. In the Security Administrator dialog box, click the Groups radio button.
2. Select the group name that you want to modify.
3. Click **M**odify...

The Add/Modify Group Name dialog box opens.



4. Type the new name for the group.
5. Click **O**K.

The Add/Modify Group Name dialog box closes. The modified group name now replaces the old group name in the Groups list box of the Security Administrator dialog box.

6. If you have no other Security Administrator functions to perform, click **S**ave and Exit to save all your changes to the security database and exit the Security Administrator application.

## Deleting a Group Name

Follow these steps to delete an existing group name from the Legi security database:

1. In the Security Administrator dialog box, click the Groups radio button.
2. Select the group name that you want to delete.
3. Click Delte.

The selected group name is removed from the Groups list box.

4. If you have no other Security Administrator functions to perform, click Save and Exit to save all your changes to the security database and exit the Security Administrator application.

## Maintaining Users

Legi Security Administrator allows you to:

Add and delete user names.

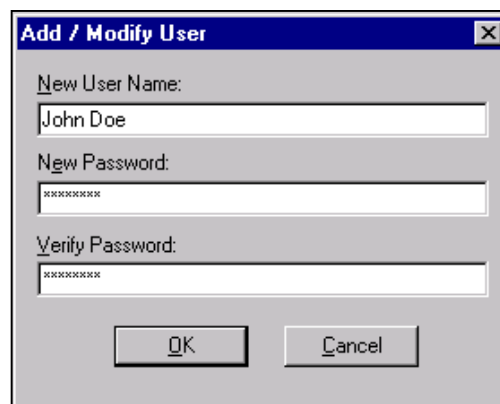
Modify user names and/or passwords.

## Adding a New User

Follow these steps to add a new user to the Legi security database:

1. In the Security Administrator dialog box, select the appropriate group for the new user from the Groups list box.
2. Click the User<sub>s</sub> radio button.
3. Click Add...

The Add/Modify User dialog box opens.



The image shows a Windows-style dialog box titled "Add / Modify User". It contains three text input fields: "New User Name:" with the text "John Doe", "New Password:" with masked characters "XXXXXXXX", and "Verify Password:" with masked characters "XXXXXXXX". At the bottom, there are two buttons: "OK" and "Cancel".

4. Type the name of the new user in the New User Name field.
5. Type the new user's password in the New Password field.
6. Type the new user's password again in the Verify Password field.
7. Click OK.

The Add/Modify User dialog box closes. The user name you added now appears in the Users list box of the Security Administrator dialog box.

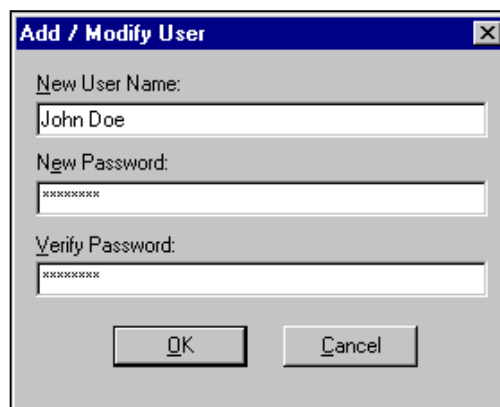
8. If you have no other Security Administrator functions to perform, click Save and Exit to save all your changes to the security database and exit the Security Administrator application.

## Modifying a User Name and/or Password

Follow these steps to modify an existing user name and/or password in the Legi security database:

1. In the Security Administrator dialog box, select the user's group from the Groups list box.
2. Select the appropriate user name.
3. Click the Users radio button.
4. Click Modify...

The Add/Modify User dialog box opens.



5. If modifying the user name, type the new name in the New User Name field.
6. If modifying the user password, type the new password in the New Password field. Then type the password again in the Verify Password field.
7. Click OK.

The Add/Modify User dialog box closes. If changed, the modified user name now replaces the old user name in the User list box of the Security Administrator dialog box.

8. If you have no other Security Administrator functions to perform, click **Save and Exit** to save all your changes to the security database and exit the Security Administrator application.

## Deleting a User Name

Follow these steps to delete an existing user name from the Legi security database:

1. In the Security Administrator dialog box, select the user's group from the Groups list box.
2. Select the user name you want to delete.
3. Click the User radio button.
4. Click **Delete**.

The selected user name is removed from the User list box.

5. If you have no other Security Administrator functions to perform, click **Save and Exit** to save all your changes to the security database and exit the Security Administrator application.



## Setting Function Rights for a Group

Follow these steps to set the function rights for a group:

1. In the Security Administrator dialog box, select the group name from the Groups list box.
2. The selected group name displays in the Function Rights section.
3. Check the appropriate function rights for the group you selected.

For **Print Data Rights**, you can select directories for read-only access when using the Print Labels function.

**For Print Labels**, you can allow the group to modify print quantities or save print settings by clicking the ellipsis (...) button and checking the Modify Print Quantities or Save Print Settings checkbox.

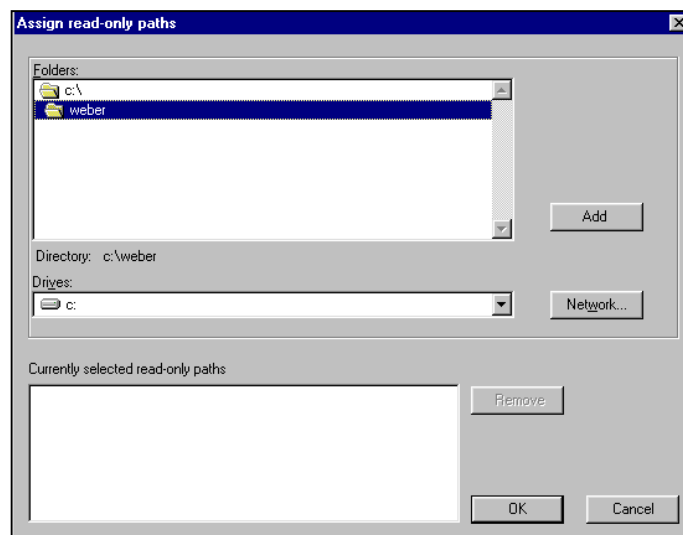
4. Click Apply Settings to apply the settings to the group.
5. If you have no other Security Administrator functions to perform, click Save and Exit to save all your changes to the security database and exit the Security Administrator application.

## Setting Print Data Rights

Follow these steps to set print data rights:

1. In the Security Administrator dialog box, select the appropriate group and click the Print Data Rights ellipsis (...) button.

The Assign Read-Only Paths dialog box opens.



2. Select the appropriate drive from the Drives drop-down list in the middle of the dialog box.
3. Locate and double-click the directory whose access you want to restrict to read-only.
4. Click **Add**.

The directory name is added to **Currently selected read-only paths** at the bottom of the dialog box. (To remove a directory name from **Currently selected read-only paths**, highlight the name and click **Remove**.)

5. Repeat steps 3 and 4 for each directory whose access you want to restrict to read-only.
6. Click **OK** to save the settings and close the Assign Read-Only Paths dialog box.
7. If you have no other Security Administrator functions to perform, click **Save and Exit** to save all your changes to the security database and exit the Security Administrator application.

**Note:** The directory is considered read-only by Legitronic software only. Other software packages including the Windows operating system retain full read and write access to the directory.

## Selecting Security Options

Follow these steps to select security options for Legi:

1. In the Security Administrator dialog box, check the appropriate security options in the Options section.
2. If you have no other Security Administrator functions to perform, click **Save and Exit** to save all your changes to the security database and exit the Security Administrator application.

---

**Note:** Your selections do not take effect until you exit Legi and login again.

---

# 7. Tracking Serial Number Support

Tracking serial numbers are serial numbers that are given a name and tracked by Legi. When a label includes a *tracking* serial number field, the initial value of that field is obtained from the Tracking Serial Numbers table when the label prints. When the label print job is submitted, the next serial number to be used is stored in the Tracking Serial Numbers table.

When a label includes a *regular* serial number field, Legi does not keep track of the next serial number to be used. Each time the label is printed, the serial number begins at the specified start point.

This chapter explains how to:

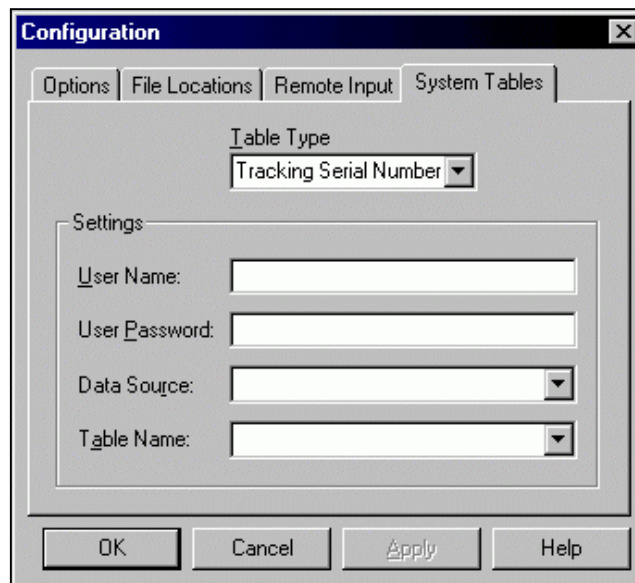
- ❑ Configure Legi for serial number tracking.
- ❑ Maintain the Tracking Serial Numbers table.
- ❑ Use tracking serial numbers in label formats.

## Configuring Legi for Serial Number Tracking

Tracking serial numbers are stored in a ODBC compliant database. Follow these steps to configure Legi to work with the Tracking Serial Number database:

1. Select Configuration from the Legi Options menu.

The Configuration dialog box opens.

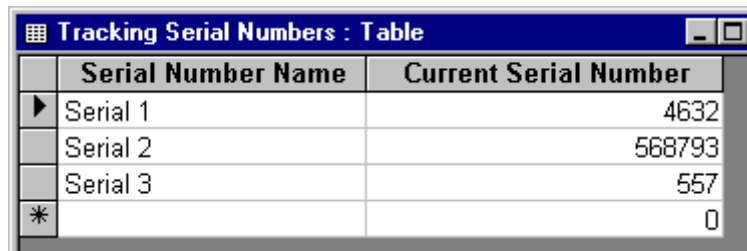


2. Click the System Tables tab.
3. Select **Tracking Serial Number** from the Table Type drop-down list.
4. Select the appropriate ODBC Data Source and Table Name.
5. Click OK.

## Maintaining the Tracking Serial Numbers Table

The Tracking Serial Numbers table is a database table that Legi accesses through ODBC. For all existing serial number names, the table lists the serial number that will be used next.

Using the parent database program, you can add new tracking serial numbers and change the next number to be used for existing tracking serial numbers.



	Serial Number Name	Current Serial Number
▶	Serial 1	4632
	Serial 2	568793
	Serial 3	557
*		0

---

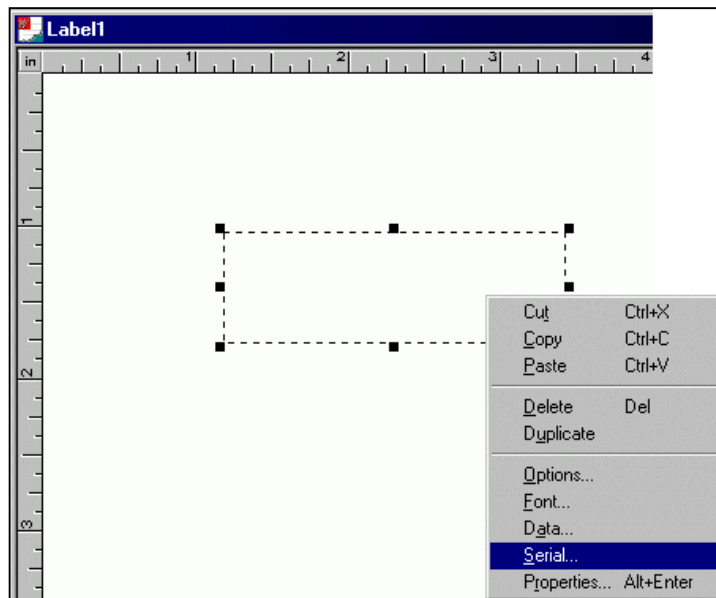
**Note:** When you change a serial number name in the Serial Numbers Tracking table, you must also change its name in all label formats that use it as a tracking serial number field.

---

## Using Tracking Serial Numbers in Label Formats

Follow these steps to use tracking serial numbers in label formats:

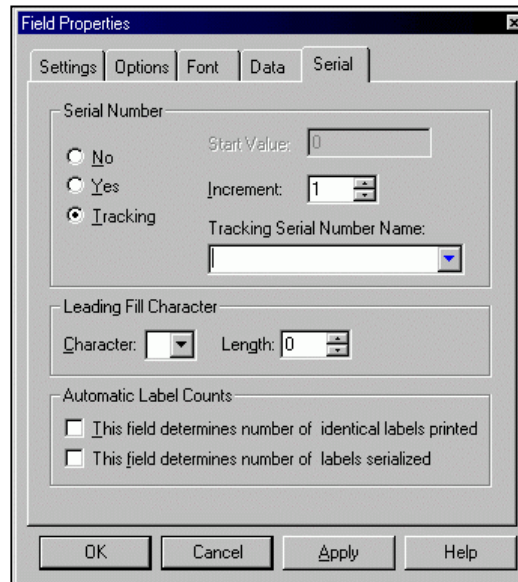
1. Right-click a field on the label.



2. Select **Serial**.

The Field Properties dialog box opens with the Serial Numbers tab activated.

3. In the Serial Number section, click **Tracking**.



4. From the Tracking Serial Number Name drop-down list, select the appropriate serial number (defined in Legi Configuration).
5. If necessary, use the Increment spin box to change the serial number increment after each label.
6. Click OK.

# 8. Audit Support

Legi's Audit Support module provides three audit options. Each option can be enabled or disabled through the Configuration module to track printing information in an ODBC-connected database table. The audit options are:

- ❑ **Label stock** tracks the stock levels of selected label stock. You can add label stock names to this table and update quantities, as necessary.
- ❑ **System print log** keeps track of all print jobs. For each print job submitted, Legi captures the print run information.
- ❑ **Label print logs** are user-defined ODBC-connected tables that maintain print job information for selected labels. For example, a label print log might include the stock name, label name, date and time the label was printed, and label field data.


This chapter explains how to:

- ❑ Activate audit support.
- ❑ Use the label stock log.
- ❑ Use the system print log.
- ❑ Create a label print log.

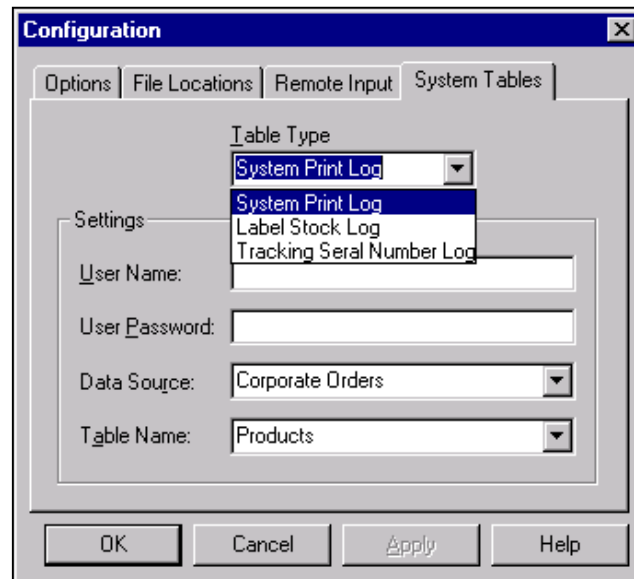


## Activating Audit Support

Follow these steps to activate audit support:

1. Select *Options* → *Configuration...*  from the menu bar *or* click in the tool bar.

The Configuration dialog box opens.



2. Click the System Tables tab.
3. From the Table Type drop-down list, select the appropriate audit option.
4. From the Data Source drop-down list, select the appropriate audit support table for the selected option.
5. Click OK.

## Using the Label Stock Log

The label stock log is an ODBC-connected database table maintained by Legi and displayed within the parent database application. For selected label stock, Legi tracks the number of labels printed, the quantity in stock, and when stock should be reordered. Legi updates this information in the label stock log after successful completion of every print job (including print jobs that print to a file). You can maintain the log by adding label stock names and updating quantities as necessary.

Stock Name	Start Date	Labels Printed	Current Qty	Reorder Qty	Reorder Now	Comments
Stock 1	7/31/98	980	320	50		Used
Stock 2	8/12/98	57	12	20	*	
Stock 3	9/17/98	340	100	75		
		0	0	0		

Record: 1 of 3

---

**Note:** Legi does not update the label stock log unless the label stock log option is activated in the Configuration dialog box. (Refer to “Activating Audit Options” on page 99).

---

To use the label stock log, create a table containing the following fields.

Field Name	Description
Stock Name	Label stock name. All stock names in this column appear as label stock selections elsewhere in Legi. (You can add stock names, but Legi does not update this field.)
Start Date	State date – this can be the date that the stock was received or ordered or some other date. (Legi does not update this field.)
Labels Printed	Total number of labels printed on this label stock to date.
Current Qty	Quantity currently in stock. (Legi updates this field when the Reorder Quantity is not 0.)
Reorder Qty	The stock level for reordering label stock – for example, if the Reorder Qty is 50, label stock is reordered when the Current Qty falls to 50 or below.  <b>Note:</b> If you don’t want to track the Reorder Qty for a label stock, type 0 in this field.

Field Name	Description
Reorder Now	An asterisk (*) indicates that label stock should be reordered (when Current Qty is less than or equal to Reorder Qty).  <b>Note:</b> When <i>Notify low stock at print time</i> is selected in the Options dialog box, Legi checks the Reorder Now field when this label stock is selected. When an asterisk is found, Legi displays the message:  <b>Stock reorder quantity reached! Continue?</b>  Click OK to continue the print job.
Comments	Comments about the label stock, such as the type of print job it is used for.

## Using the System Print Log

The system print log keeps track of print run information for all print jobs. The log is a database table maintained by Legi and displayed within the parent database application.

Stock Name	Label Name	Date Time	User Name	Total Labels	Job Aborted
STOCK 1	BOLT	9/15/98 9:13:00 PM	DLM	310	
	PROD DATE	9/18/98 6:24:00 PM	MOP	156	

Record: 2 of 2

**Note:** Legi does not update the system print log unless the system print log option is activated in the Configuration dialog box. (Refer to “Activating Audit Options” on page 99).

To use the system print log, create a table containing the following fields.

Field Name	Description
Stock Name	If label stock was selected for the printed job, the name of the stock.
Label Name	Name of the label used in the print job, if any.
Date Time	Date and time the print job was submitted.
User Name	Name of the user who submitted the print job.
Total Labels	Total number of labels printed in the label run.

Field Name	Description
Job Aborted	An asterisk (*) identifies aborted print jobs.  <b>Note:</b> When a print job aborts, the value of the Total Labels field may not be accurate.

## Creating a Label Print Log

Label print logs are user defined database tables that maintain print job information for selected labels. A label print log may contain such information as the stock name, label name, date and time of last printing, and names of specific label fields. When a label includes a query and the label print log contains the name of the query field, the log lists all of the corresponding records printed in the label print run.

---

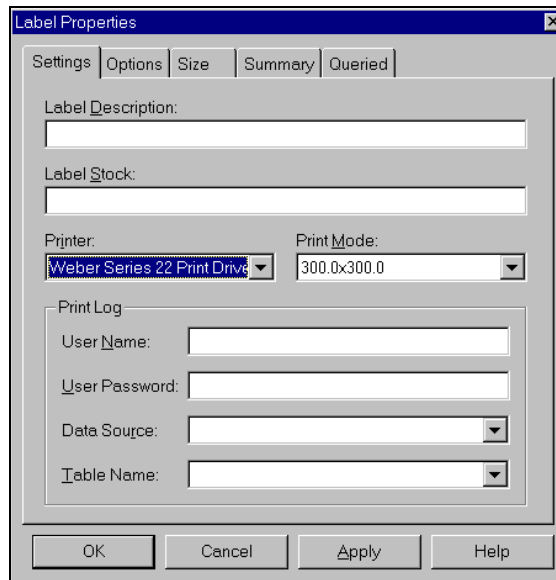
**Note:** Legi does not update the label print log unless the label print log option is activated in the Configuration dialog box. (Refer to “Activating Audit Options” on page 99).

---

Follow these steps to create a label print log:

1. Create the label print log table based on the fields in the label format.
2. Create or display the appropriate label format.

3. In the Print Log section of the Label Properties dialog box, type the name of the label print log table in the Table Name field.



4. When creating a new label format, give descriptive names to the fields you want to identify in the label print log.
5. The following reserved field names may be used to log additional information about the label print job.

Field Name	Description
Stock Name	If label stock was selected for the printed job, the name of the stock.
Label Name	Name of the label used in the print job, if any.
Date Time	Date and time the print job was submitted.
User Name	Name of the user who submitted the print job.
Total Labels	Total number of labels printed in the label run.

Chapter 4, “Designing Labels,” provides detailed instructions for creating label formats and fields.

# 9. Configuration

This chapter provides the detailed information you need to configure Legi. Configuration settings are organized into four categories:

- ❑ **Options** – information to be tracked in system tables, the unit of measure used to create new labels, and Application Designer information.
- ❑ **File Locations** – fully qualified pathname for the directory that stores each type of file (labels, graphics, configuration, and print control).
- ❑ **Remote Input** – the port assigned to each remote source of supplied input.
- ❑ **System Tables** – the ODBC data source and table name for each type of system table (System Print Log, Label Stock Log, and Tracking Serial Numbers).

Configuration settings are stored in two locations – in the local registry file for the current user and in *LegiConfiguration.dat*, the configuration file stored on a local or network drive. Both the local registry and configuration files are required because some settings are specific to each Legi workstation, while others must be globally accessible to all users running Legi on a network.

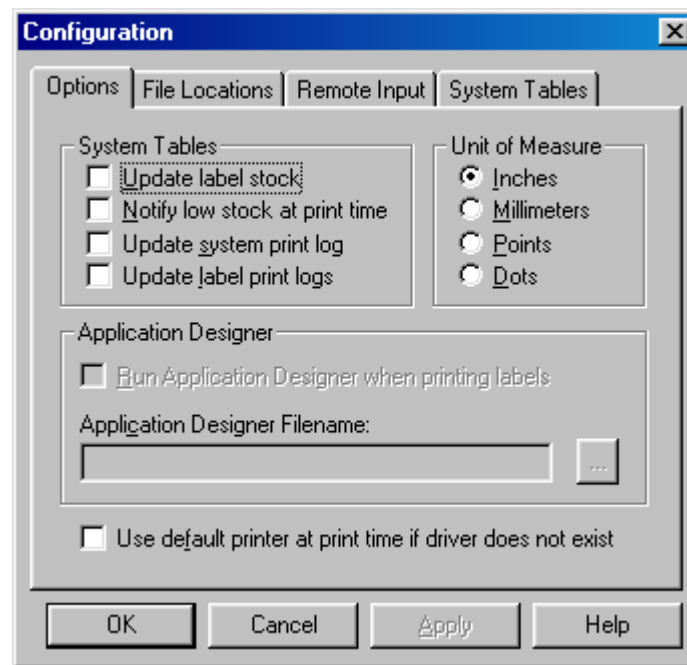
Your Legi configuration is established and maintained using the Configuration dialog box, which contains a tabbed display for each of the configuration categories listed above. When you click **OK**, Legi saves the configuration settings to the appropriate file – local registry file, configuration file, or both.

## Configuration Procedure

Follow these steps to configure Legi:

1. Select *Options* → *Configuration...* from the menu bar.

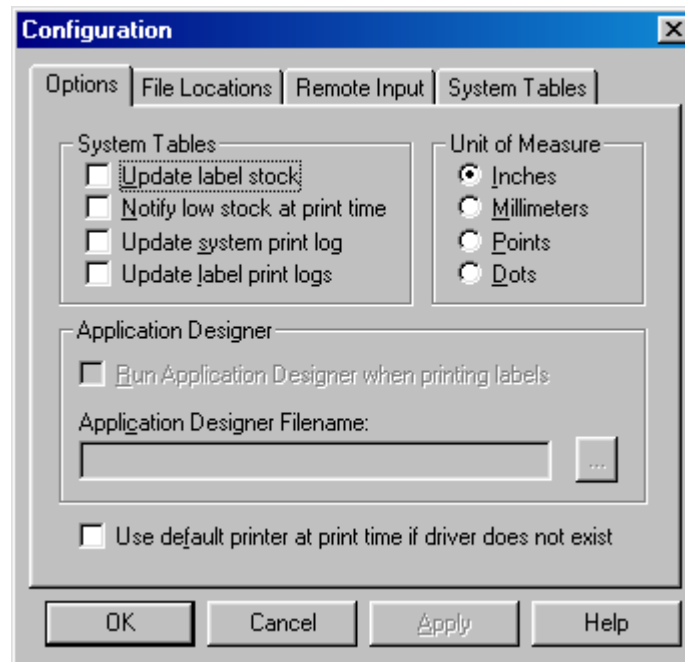
The Configuration dialog box opens.



2. On each relevant tab of the Configuration dialog box, make new selections or modify existing selections, as necessary. (The selections on each tab are described in the following sections.)
3. When you have completed your configuration selections, click OK.

Your selections are saved to the appropriate files — local registry file, configuration file, or both.

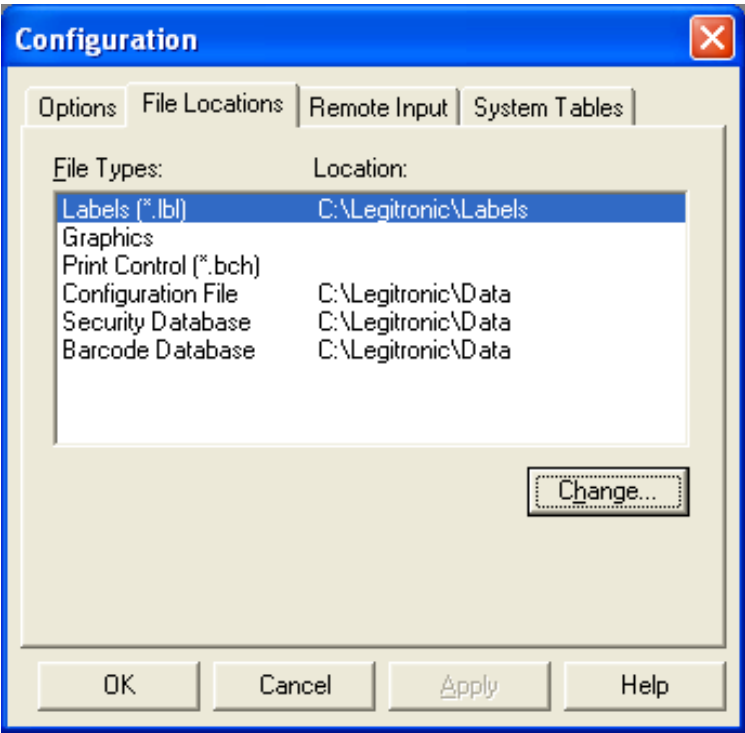
# Options



Specification	Description
<b>System Tables</b>	
Update label stock	When checked, the number of labels printed is tracked in the label stock table.
Notify low stock at print time	When checked, the user is alerted (at print time) when the number of labels in stock fall below a certain level.
Update system print log	When checked, the labels printed, user name, and other information is tracked in the system print log.
Update label print logs	When checked, the (user-specified) print log identified in the label is updated.
<b>Unit of Measure</b> – unit to be used for entering and displaying measurements when creating a new label: <i>Inches</i> , <i>Centimeters</i> , <i>Points</i> , or <i>Dots</i> .	
<b>Application Designer</b>	
Run Application Designer from Print Labels	When checked, Application Designer runs instead of the standard Legi Print session.
Application Designer filename	Name of the batch file to be used for Application Designer.
Use default printer at print time if driver does not exist.	



# File Locations

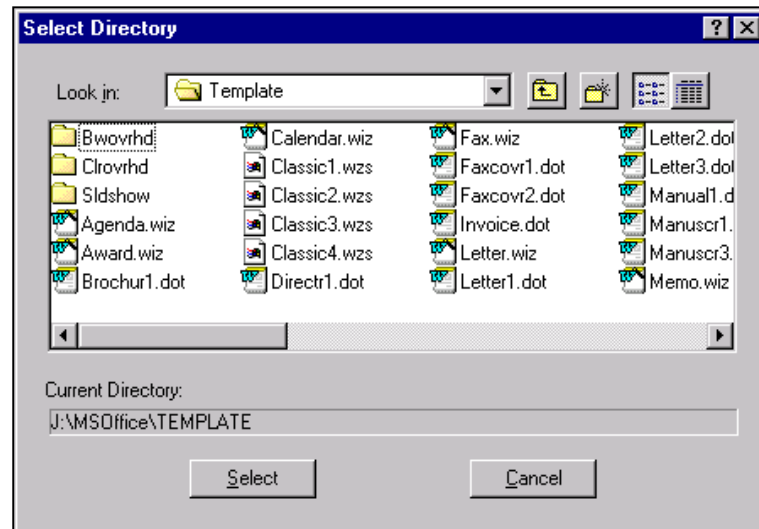


Specification	Description
<u>F</u> ile Types	File types – such as graphic, label format, or configuration.
<u>L</u> ocation	Directory in which each file type is located (fully qualified path). To change the location for a file type, highlight the current location and click Change...

## Changing a File Location

Follow these steps to change the location for a file type.

1. Select the file type and location you want to change.
2. Click **Change...** to open the Select Directory dialog box.



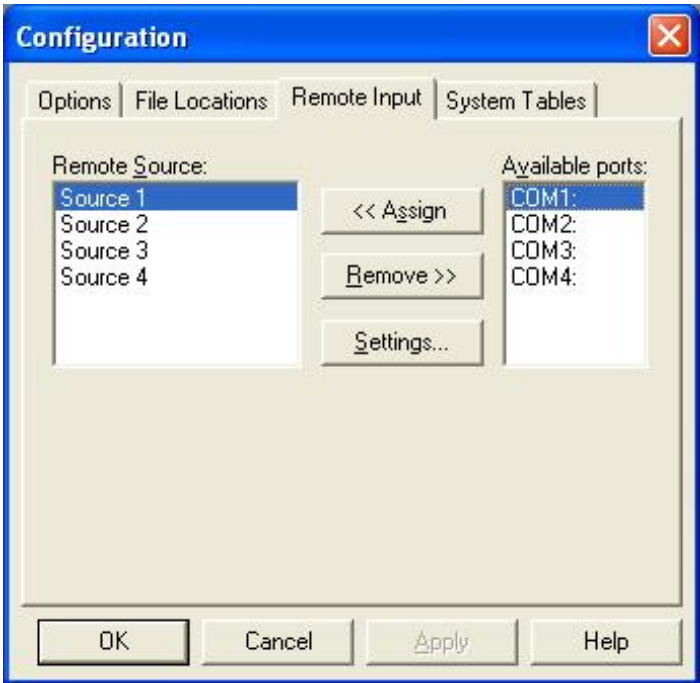
3. Locate and click the directory to be used for the selected file type.  
The pathname for that directory is displayed at the bottom of the dialog box in the Current Directory field.
4. When the appropriate pathname is displayed, click **Select**.  
The new pathname is displayed on the File Locations tab of the Configuration dialog box.

---

**Note:** The example above shows the pathname using mapped drive letters. Legi also supports the use of the Universal Naming Convention (UNC) – for example: \\Enterprise\Shipping\Labels

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# Remote Input



Specification	Description
Remote <u>S</u> ource	List of remote sources for supplied input.
A <u>v</u> ailable ports	List of available serial port IDs that can be assigned to a remote source.

## Assigning a Port to a Remote Source

Follow these steps to assign an available port to a remote source:

1. Select the remote source.
2. Select the appropriate available port.
3. Click <<Assign.

The port ID is removed from the Available Ports list and added to the Remote Source list – for example, Source 1 from COM1.

## Removing a Port Assignment

Follow these steps to remove a port assignment:

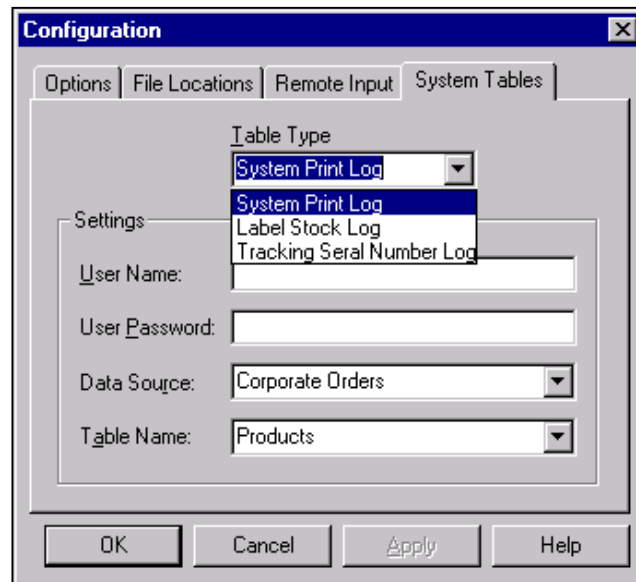
1. In the Remote Source list, select the remote source and its assigned port.
2. Click **Remove>>**.

The port ID moves from the Remote Source list to the Available Ports list.

## Setting Communication Port Parameters

Parameters associated with communication ports are set using standard Windows® facilities, accessed by clicking **Settings** on the Remote Input tab of the Configuration dialog box.

## System Tables



Specification	Description
<u>T</u> able Type	Type of system table whose ODBC data source is specified below – <i>System Print Log</i> , <i>Label Stock Log</i> , or <i>Tracking Serial Number Log</i> .
<b>Settings</b>	
<u>U</u> ser Name	User name (supplied by user).
User <u>P</u> assword	User password (supplied by user).
Data <u>S</u> ource	ODBC data source for the table type identified above.
<u>T</u> able Name	Name of appropriate table in the data source.



# 10. Security Administration: Legitronic Secure Series Labeling Software

Legitronic Secure Series Software is designed to help meet the requirements for FDA 21 CFR Part 11 rules regarding electronic records and electronic signatures.

- ❑ **System access** – access to Legi can be controlled with user names and passwords. Security Administrator allows you to maintain current user names and passwords and to assign each user to a user *group*.
- ❑ **Function rights** – Security Administrator allows you to identify the Legi functions each group is allowed to perform.

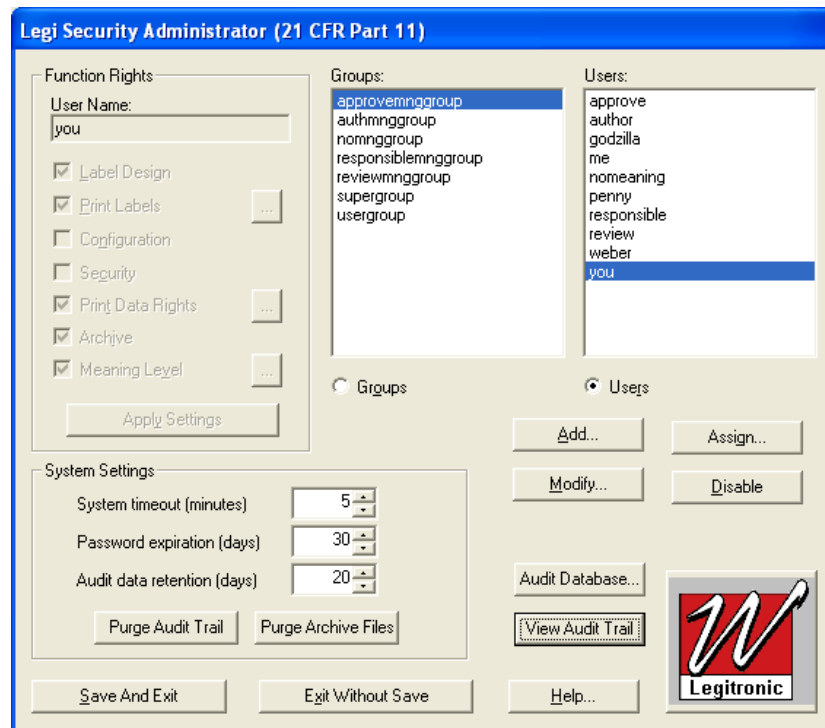
## Application Login

The Weber Legitronic logo has been updated in this version, but the login screen has not changed from previous versions.



## Main Screen

After successfully logging in, you see the main Legi Security Administrator screen.



## Function Rights Features

New Function Rights include:

Archive

Meaning Level



## Archive

Selecting the Archive function allows you to save files to the Archive. Some users can create labels, but a manager must approve them before they can be put in the archives. In general, if a user is printing for production, he or she will be printing from a file in the archives. A user may have an authorship meaning level but may also be able to archive if the client wants it set up that way.

## Meaning Level

Click the browse button next to the Meaning Level option to display the following dialog.



Use this dialog to set the highest allowed meaning level for the selected group of users. Meaning levels are arranged from lowest to highest (Authorship to Responsibility). A user is allowed to assign to a label any meaning level at or below the level that you set for the user (e.g., if you set the user level at Approval, the user can assign a label a meaning level of Approval, Review, and Authorship).

## System Settings Features

The System Settings section is also new, allowing you to set several new global values that affect Legitronic:

System timeout: the number of minutes that elapse before the Legitronic user is prompted to reenter his password. A value of 0 means the system will not time out.

Password expiration: the number of days that elapse before each Legitronic user must enter a new password. A value of 0 means user passwords will not expire.

Audit data retention: the number of days that audit trail records and/or archived label files are kept. A value of 0 means all records will be kept.

Purge Audit Trail button: Clicking deletes audit trail records older than the audit data retention period.

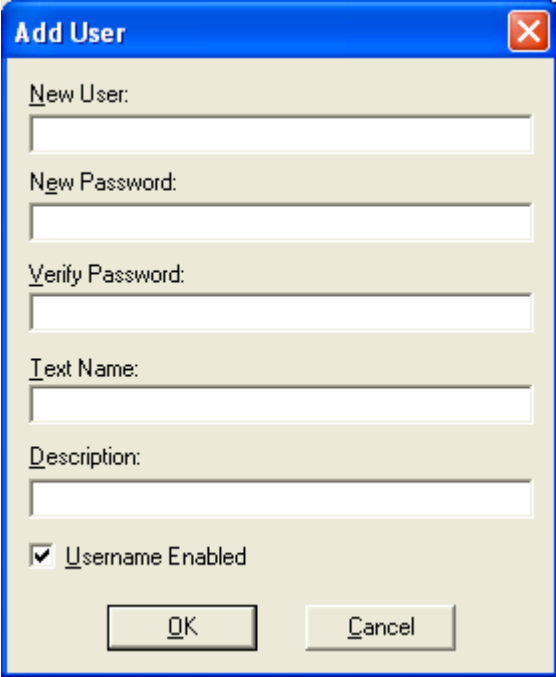
Purge Archive Files button: Clicking deletes archived label files older than the audit data retention period, but never deletes latest version of an archived label file.

## Additional New Features

You can still use the Add and Modify buttons to enter user information, but now there are more fields (and more required fields).

### Adding a User

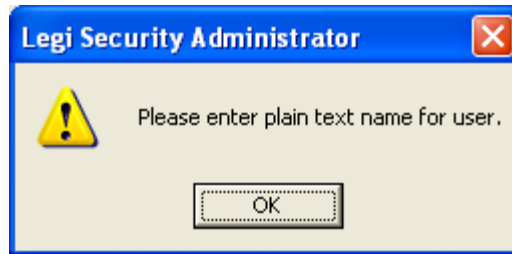
Several new fields have been added to user name and password in the Add User window.



The screenshot shows a standard Windows-style dialog box titled "Add User". It features a blue title bar with a close button (X) in the top right corner. The main area is light beige and contains five text input fields, each preceded by a label: "New User:", "New Password:", "Verify Password:", "Text Name:", and "Description:". Below the "Text Name:" field is a checkbox labeled "Username Enabled" which is currently checked. At the bottom of the dialog are two buttons: "OK" and "Cancel".

Text Name is a new required field that acts as the user's electronic signature within the audit trail.

NOTE: If you attempt to create a new user without entering information in the required Text Name field, the following message appears:



Description is a new optional field which can be used for information such as job title, SSN, etc.

Username Enabled is a new Boolean field that defaults to checked (true); setting this field to false (unchecking it) disables the user's access to the Legitronic.

## Modifying a User

Because of the newly added user fields, you can modify more user information than just the password. By default, the screen appears as follows and minimally requires a password change.

 A screenshot of a "Modify User" dialog box. It contains several input fields and checkboxes. The "User Name" field contains the text "penny". Below it is a checked checkbox labeled "Change password:". Under this checkbox are two empty text boxes for "New Password:" and "Confirm Password:". Below those is a text box for "Password Changed Date:" containing "4/10/2003". Further down are two text boxes: "Text Name:" containing "Penny Person" and "Description:" containing "V.P. of Purchasing". At the bottom is a checked checkbox labeled "Username Enabled". At the very bottom are two buttons: "OK" and "Cancel".

The date this user's password was last changed is also displayed as a read-only field.

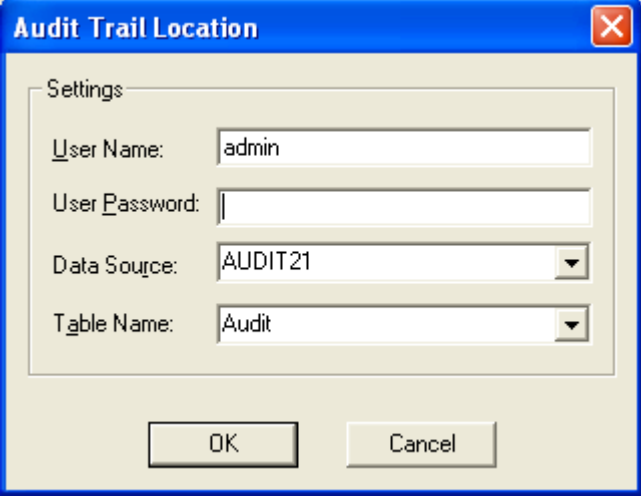
If you need to change information such as the Text Name or Description fields, uncheck the Change Password checkbox. When you do this, you won't need to--nor be able to--change the password at that time.

## **Disable**

The Delete button has been renamed Disable. When you work with users, 21CFR11 does not allow you to delete user records. Because you want an audit trail of actions and who performed them, by pressing Disable, you disable the currently highlighted user. User information remains in the database, but that user is not allowed access to Legitronic.

## Set up Audit Trail Database Info

Because the client can set up the audit trail table (and the database containing it), you can set up connection information by clicking the Audit Database button. The following window appears:

The image shows a Windows-style dialog box titled "Audit Trail Location" with a blue header bar and a red close button. The main area is a light beige rectangle containing a "Settings" section. This section has four fields: "User Name:" with the text "admin", "User Password:" which is empty, "Data Source:" with a dropdown menu showing "AUDIT21", and "Table Name:" with a dropdown menu showing "Audit". At the bottom of the dialog are two buttons: "OK" and "Cancel".

**Audit Trail Location**

Settings

User Name: admin

User Password:

Data Source: AUDIT21

Table Name: Audit

OK Cancel

Here are the settings for the fields:

User Name: username for access to the database. This often defaults to "admin."

User Password: password for access to the database. For full 21CFR11 compliance, the database must be password protected.

Data Source: a system DSN name that is used to access the database containing the audit trail table. The data source can be on the local machine or on a network.

Table Name: the name of the database table where the audit trail records are stored. The default name is Audit.

## Audit Trail Viewer Dialog

Click the View Audit Trail button to display the following screen.

User ID	Text Name	DateTime	Meaning	Machine Name	Action	Label ID
weber	default user login	04/18/2003 03:03:29 PM	Responsibility	PRODSYS18	Label Properties [Size]	0
me	myself	04/18/2003 09:22:12 PM	<none>	PRODSYS18	login unsuccessful	
me	myself	04/18/2003 09:23:31 PM	Authorship	PRODSYS18	login successful	
me	myself	04/21/2003 01:23:51 PM	<none>	PRODSYS18	login unsuccessful	
me	myself	04/21/2003 01:24:01 PM	Authorship	PRODSYS18	login successful	
me	myself	04/21/2003 01:24:14 PM	Authorship	PRODSYS18	Opened 'C:\Program File...	0
me	myself	04/21/2003 01:24:36 PM	Authorship	PRODSYS18	File 'NewLabel1.lbl' archi...	12
me	myself	04/21/2003 01:25:14 PM	Authorship	PRODSYS18	Label Properties [Settings...	0
me	myself	04/21/2003 01:25:23 PM	Authorship	PRODSYS18	Add Field: Text1	12
me	myself	04/21/2003 01:25:26 PM	Authorship	PRODSYS18	Direct Edit: Text1	12
me	myself	04/21/2003 01:25:44 PM	Authorship	PRODSYS18	Apply Properties [Font]: T...	12
me	myself	04/21/2003 01:25:50 PM	Authorship	PRODSYS18	Add Field: Barcode1	12
me	myself	04/21/2003 01:26:02 PM	Authorship	PRODSYS18	Apply Properties [Data]: ...	12
me	myself	04/21/2003 01:26:14 PM	Authorship	PRODSYS18	Apply Properties [Symbol...	12
me	myself	04/21/2003 01:26:45 PM	Authorship	PRODSYS18	Apply Properties [Options...	12

This screen can display all records currently contained in the audit trail table or some filtered subset of that data. Here are the filters:

**Show All Records:** shows both application and security records (this is the default). You can filter these by User ID and/or Date Range.

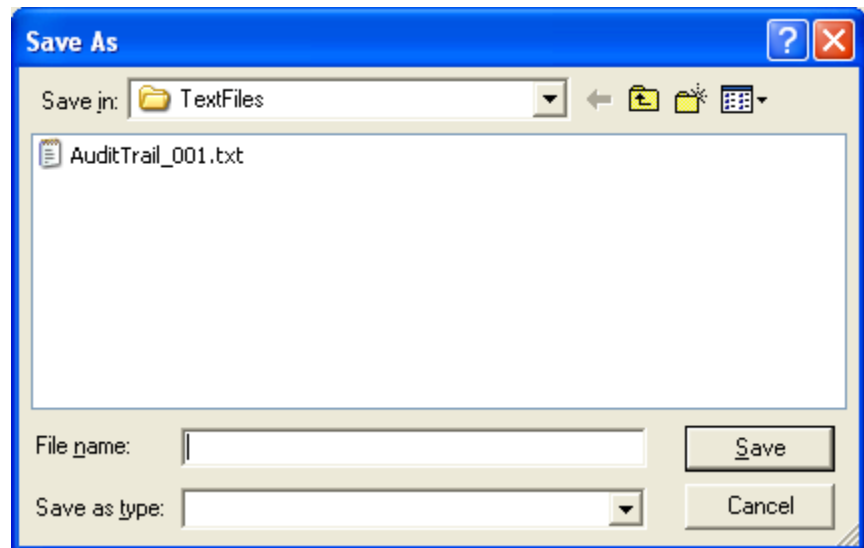
**Show Application Records:** shows only application records (what you have added, deleted, and edited). You can filter these by any combination of Label ID (e.g., within the application, what has been done with Label 1), User ID, and Date Range.

**Show Security Records:** shows only security records (successful and failed login results). You can filter these by any combination of Login Status (success or failure), User ID, and Date Range.

To filter data, select the desired filter(s) and click Refresh. Every time you change filtering criteria, click Refresh (clicking Enter does the same thing).

Click Export Displayed Data to export any currently displayed records (whether all audit trail records or some filtered subset) to a tab-delimited text file. The user must be able to display data or to print it, but not do both. A print option is provided without formatting constraints. The user can save the data in an Excel spreadsheet, format, sort, and print it: the information is available electronically, in conformance to the regulation.

A File Save As prompt appears, as shown below.



Click Save to export all records currently displayed on the Audit Trail Viewer screen to the selected file and path.

If you click Cancel, the following window appears:





You can:

Click OK to export the selected data to file C:\AuditTrail.txt.

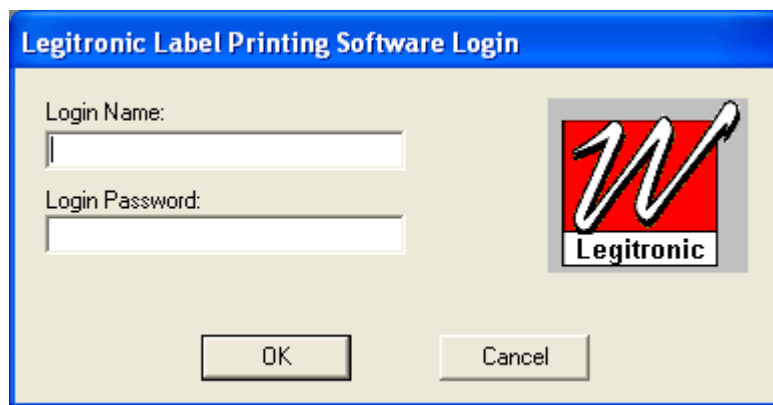
Click Cancel to not do the export.

After you have viewed the audit trail records, click Exit; you return to the Security Administrator screen.

## Legitronic User Reference for 21 CFR Part 11

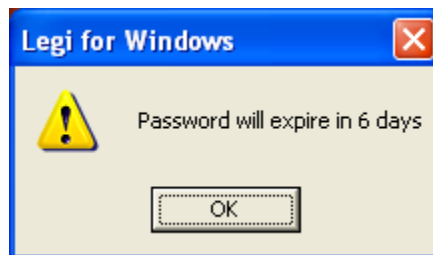
### Application Login

The Weber Legitronic logo has been updated in this version, but the login screen has not changed from previous versions.



### Password Expiration

One of the changes for 21CFR11 compliance is the expiration of passwords. This forces you to periodically change your password. During the week before your password expires, the following prompts appear:



During this period, you can decide to change your password through the Legi Security Administrator (with the administrator's help). If your password was created before the time period set in the System Settings of the Legi Security Administrator screen, and your password expires, the following prompt appears:



Click OK and the following dialog appears.

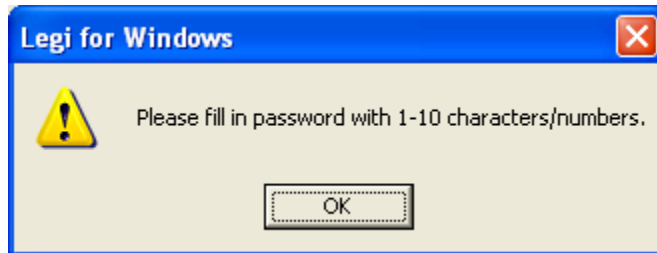


You can enter a new password. For security purposes, be sure to enter the expired password. The user table keeps track of the last nine (9) passwords entered. Any new password is not allowed to match any of these recent passwords. This means that the you must cycle through at least 10 different passwords. Once you enter a new, valid password, that password change date is also updated in the security database as the current change date.

If you leave the Old Password field empty, the following prompt appears:



If you leave the New Password field empty or type more than the maximum number of allowed characters, the following prompt appears:



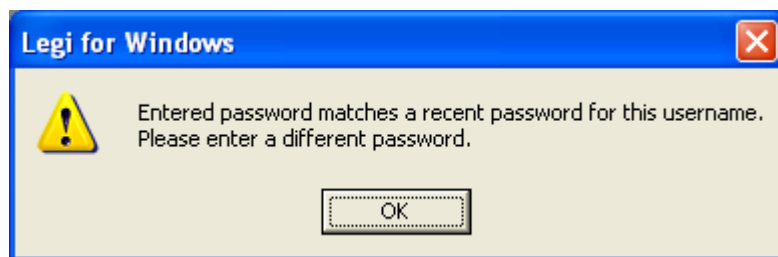
If you leave the Confirm New Password field empty, the following prompt appears:



If the Confirm New Password field does not match the contents of the New Password field, the following prompt appears:

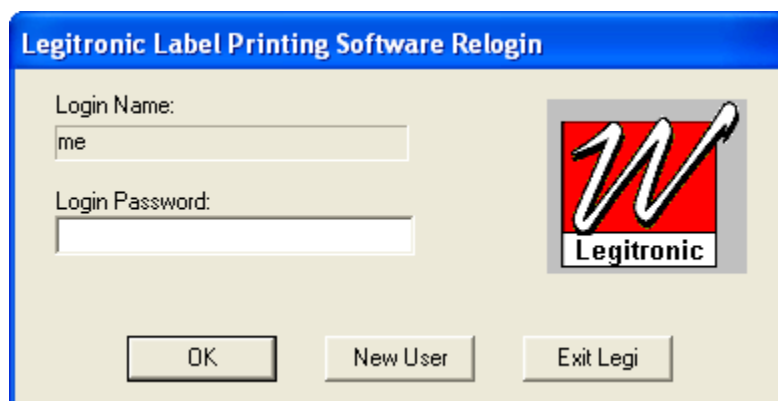


If you enter a new password that is found in your list of recent passwords, the following prompt appears (and you must select a different password):



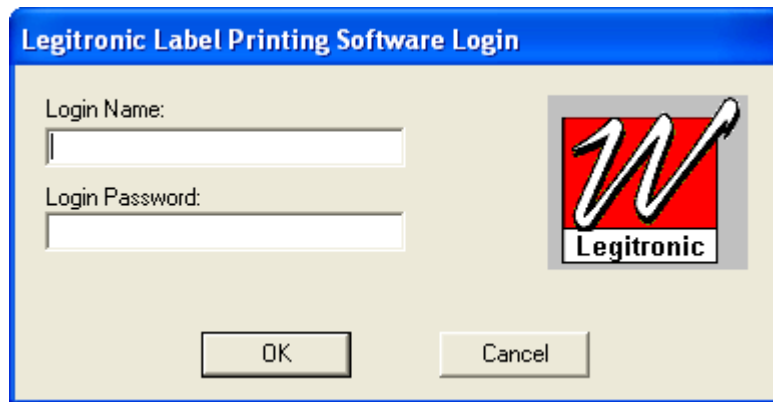
## Periodic Relogin

If the System Timeout value was set to any number other than 0 in the Security Administrator application, you will be prompted periodically to reenter your password (e.g., every 30 minutes if the set value is 30), as shown below.



If you are the current user, type the correct password, click OK and continue working with Legitronic.

If you click New User, a regular login screen (shown below) appears.



In this case, you must type both a username and a password. If any changes were left pending from the last user, you have the option of either saving the previous user's changes or canceling them.

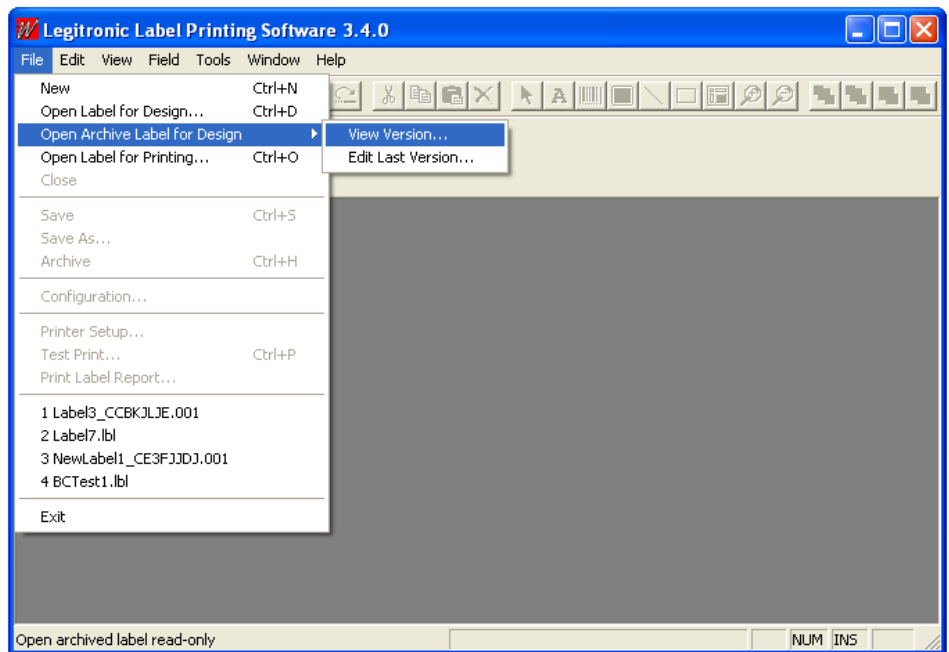
If you clicked Exit Legi from the relogin screen, the following prompt appears:



Click Yes to end Legitronic and be prompted whether you want to save any changes left pending by the last logged in user. Click No to return to the relogin screen.

## Label Archiving

Using the new 21CFR11 functionality, you can store versions of a label file in an archive. New File options related to this feature have been added under Open Archive Label for Design, as shown below.

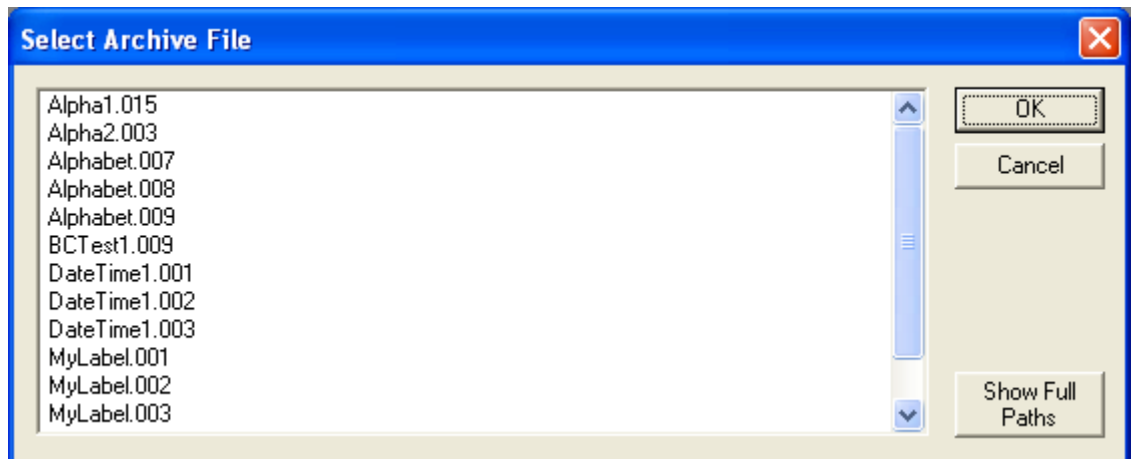


View Version allows you to view and do test prints of any version of any archived label (all archived labels are tracked within the security database). To deter modifications, the archived labels are stored with the read-only attribute set.

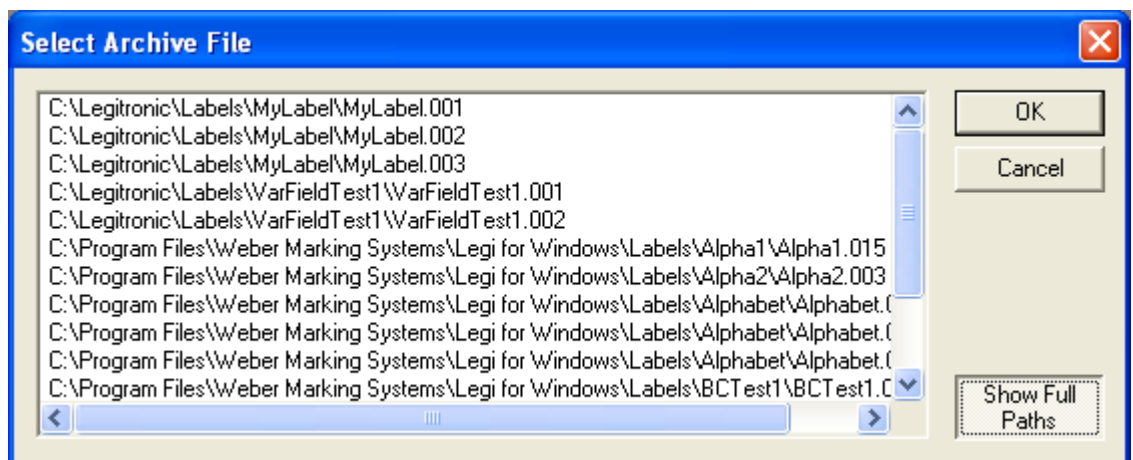
If you wish to make changes to a label, you should use the Edit Last Version menu option. This creates a “work file” copy of the latest version of the selected label that can be modified. If you make changes to the work file, but decide to “undo” all changes within that work file, select Edit Last Version to fetch a new copy of the last archived version. This copy replaces the previous work file and its changes.

Select the new File – Archive option to save a modified work file to the archive (or to save a newly created file to an archive). The label file is saved to a subdirectory of its current directory as a read-only file; the new filename includes a hash value for change detection and a file archive version number.

When you choose the View Version menu option to open an existing archive for viewing, the following prompt, which lists all existing archive files, appears:



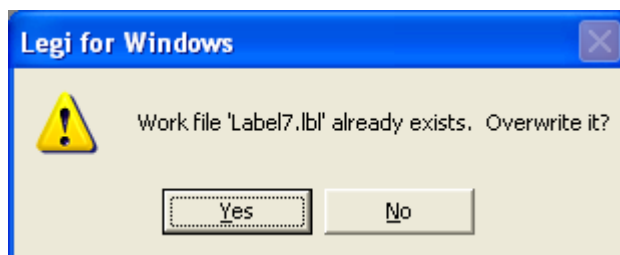
Click the Show Full Paths button to toggle between showing the full archive file path or just the archive file as shown in the following dialog.





Note: When you choose the Edit Last Version menu option to open an existing archive for editing, the Select Archive dialog only shows latest version of each archived file.

If you choose to edit a label for which a work file already exists, the following prompt appears.



Select Yes to overwrite the previous work file with a fresh copy of the last archived version of the selected label. This selection also throws out related audit trail actions. Select No to open the existing work file.

The following prompt is displayed when you open an archived version of a label file either to view or to edit it and the hash value calculated from file information does not match the hash value within the filename—which indicates modification outside Legitronic:



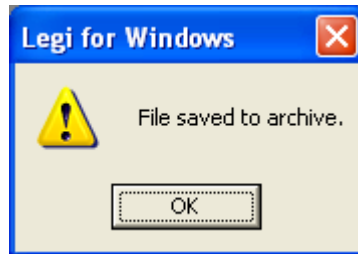
You can view or edit the file normally.

Suppose you choose to archive a brand new label file or a work file. The file is first saved and closed. Then it is copied to the appropriate archive subdirectory as a read-only file with this filename and path:

<old path>\<old file title>\<old file title>\_<hash>.<version>

For example, the first archived version of file “C:\Labels\MyLabel.lbl” would be saved to a filename and path such as “C:\Labels\MyLabel\MyLabel\_D4AIKKHF.001”.

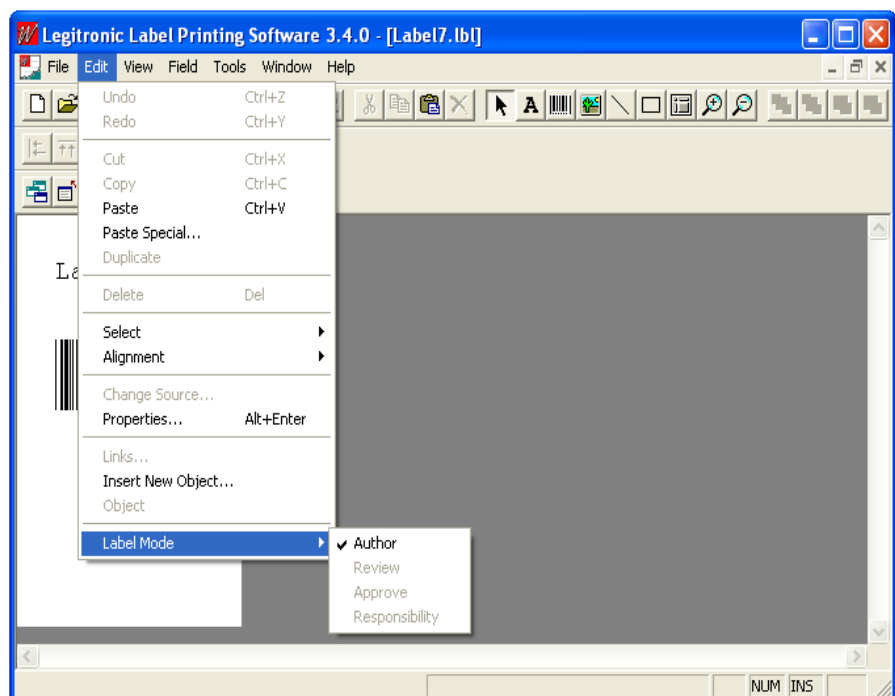
Once the file has been successfully archived, the following prompt appears:



## Setting Label Mode (Meaning Level)

One of the new properties added to the label document is the Label Mode. During initial creation, you should set the mode to Authorship. After reviews, you should progressively set the mode through Review and Approve (and perhaps also Responsibility). Authorship is considered the lowest mode and Responsibility the highest.

You can set any mode at or below your permission level. In the following screen, if you had Authorship permissions you could only set the Author mode. If you had Responsibility permissions, you could set any of the levels of label mode.



Legitronic does not require you to set the label mode. It offers this setting for client use. You can change Label Mode on only a new label file or a work file. You cannot edit a read-only archived version of a label file.

## Changes to Automation Interface

While running in 21 CFR Part 11 compliance mode, client applications will need to set the username and password before they call other Legitronic automation methods.

To set the username and password for automation calls, use this method:

`SetUserNamePassword(strName, strPassword)`

The following methods check to ensure that username and password have been set with valid entries:

`LoadLabel(strLBLFile)`

`PrintLabel()`

`SetPrinterName(strPrinter)`

`SetSuppliedData(strFieldName, strData)`

Until `SetUserNamePassword()` is called during a Legi automation session, calls to the other methods listed above will fail and return the error code:

`AutFailureNoValidUser = (AutFailureOther + 1)`

# 11. Visual Basic for Applications

## Introduction

Legitronic Label Printing Software provides functionality for label printing in a feature-rich MS-Windows desktop application. The user interface provides ease-of-use while following current MS-Windows user interface conventions. However, clients often design solutions for label printing that require a custom user interface or custom feature not available in Legi.

Legi 3.2.0 provides two automated printing solutions for these scenarios called Application Designer and Batch Print Control. While fully functional, both methods are antiquated by current development standards and have limitations that prevent their use in many solutions for label printing.

Legi 3.3.0 is a VBA-enabled (Visual Basic for Applications) application that can be tailored to fit specific labeling needs, using the industry-standard Visual Basic development environment. The vast amount of resources available for Visual Basic can be used to design, develop, and deploy customized label printing applications.

## Visual Basic for Applications

Microsoft Visual Basic® for Applications (VBA) is a development technology for rapidly customizing desktop applications, like Legi, and integrating them with existing data and systems. VBA offers an extensive set of programming tools based on the Microsoft Visual Basic development system.

Visual Basic for Applications provides an integrated development environment (IDE) that features the same development facilities as Visual Basic, including a Project Window, a Properties Window, and debugging tools. VBA also includes support for visually creating custom forms and dialog boxes to build custom user interfaces.

Integrated directly into Legi, VBA offers performance and usability improvements over Application designer and Batch Print Control. Integration of the software components for label printing and user interface handling offers the fastest processing. Clients access to the VBA development environment directly from Legi allows them to purchase and install one software product they can use to create, maintain, and implement a custom label printing solution.

## Automation Server

Legi 3.3.0 implements a Microsoft OLE Automation Server based on Microsoft's Component Object Model (COM) architecture. Through Automation, Legi for Windows exposes some common internal functions through COM objects. Software applications can invoke tasks for label printing, which are normally selected interactively from the Legi user interface.

Legi 3.3.0 uses a dual-interface in its OLE Automation Server implementation. One method is best suited for Microsoft Visual Basic and other clients that support Microsoft ActiveX automation. The other method is best suited for higher performance clients like Microsoft Visual C++ and non-Microsoft clients that support COM technology.

Customers can design and implement their own label printing solutions, using Legi for label creation, maintenance, and printing tasks. This allows customers to focus on their own user interface and data resolution rule sets. In addition, existing software systems can implement functionality for label printing by modifying those systems to access Legi's printing functions.

## Visual Basic for Applications (VBA)

Legi 3.3.0 includes a VBA integrated development environment (IDE) accessed from the menu bar by clicking Tools→Run Legi VBA. Refer to the IDE help system for usage information.

### Type Library

Legi 3.3.0 includes a Type Library file (Legi32.tlb) that contains information on all implemented objects, methods and properties. The client software of choice, including VBA, requires access to the Type Library file.

To install the Type Library in the VBA IDE:

Click Edit→References

Check the Weber Marking Systems Legi Type Library in the list of references,

Then click OK.

To display objects and methods:

Click Debug→Browse

In the Library list, select Legi32.

### Type Library Usage

When entering a code statement, enter a period (.) after an object name to display a dialog containing all associated members and properties.

Enter a period (.) after a member name to display all properties.

## Object Creation

Legi 3.3.0 supports the following ways to create its objects.

*Dim MyLabel as Object*

*Set MyLabel = CreateObject("Legi32.label")*

This method follows ActiveX conventions and creates an object with a late bind. A reference to the object is created during program execution.

*Dim MyLabel as Legi32.label*

*Set MyLabel = CreateObject("Legi32.label")*

This method creates an object with an early bind. A reference to the object is created during program compilation to increase performance.

*Dim MyLabel as Object*

*Set MyLabel = New Legi32.label*

This method requires clients to use the Type Library. It creates an object with an early bind. A reference to the object is created during program compilation to increase performance.

## Event Handling

Legi 3.3.0 objects can notify client applications when predetermined label printing events occur. For example, Legi 3.3.0 implements a Notification object to notify a client when a label print request is sent to the Windows print manager. This notification process is called "firing an event."

An object that fires an event is called an event source. Declare a variable's object using the WithEvents keyword.



# Appendix A. Data Expressions

The Data Tab of the Field Properties dialog box provides a String Builder for building data expressions. This appendix lists and explains the String Builder functions used in data expressions. For more information about data expressions, refer to “String Builder” in Chapter 4.

## Data Expression Functions

Data expression functions are the various commands used in String Builder. These functions generally accept one or more parameters as input and return a result. Functions can be combined by using the result returned by one function as an input to another. For example, **abs(fld("quantity"))** returns the absolute value of the number stored in the *quantity* field on the label. If the value in the *quantity* field was -50, **fld("quantity")** would return a value of -50, which would be the input parameter for the **abs** function. The function **abs(-50)** would then return a value of 50.

Constant parameters like *quantity* are generally enclosed in quotes as shown above. This ensures that characters like commas and math signs are interpreted correctly by the function. For example, **cat("Conner, Inc. part #",fld("part number"))** combines the constant information *Conner, Inc. part #* and the value held in the *part number* field into one string. If *Conner, Inc. part #* were not enclosed in quotes, the comma would be interpreted as part of the command and generate an error.

In an expression like:

**format\_time(value,format[,separator[,am[,pm]]])**

the parameters that appear between the brackets *[]* are optional. If you include them, do not type the brackets as part of the expression. They only indicate that the parameters are not required in this particular data expression function.

The operator precedence is:

Multiple, division, and modulo arithmetic (\*, /, %).

Addition and subtraction (+, -).

Relational operations: *equal to* (=), *greater than* (>), *less than* (<), *not equal to* (<>), *equal to or less than* (<=), and *equal to or greater than* (>=).

## **abort()**

Returns message at print time that the printing has been aborted. Use in conjunction with computer repetition and if statement to conditionally stop the print job.

Parameters: None.

See also:

**if**

## **abs(number)**

Returns absolute value of number.

Parameters: Number.

Example: **abs(-100)**

Result: **100**

See also:

**precision**

**sgn**

**asc(char)**

Returns numeric equivalent of ASCII character.

Parameters: ASCII character

---

**Note:** If a character string is given for the parameter, only the first character is used.

---

Example: **asc("!")**

Result: **33**

See also:

**chr**

**auto\_identical(identical\_count)**

Equivalent to the Auto Identical check box on the Data Expression dialog box. Prints number of identical labels specified. This number can be overridden at print time.

Parameters: Number of identical labels.

Example: **auto\_identical(10)**

Result: Ten identical labels.

See also:

**auto\_serial**

**auto\_tracking\_serial**

**get\_identical\_count**

**auto\_serial(serial\_count)**

Equivalent to the Auto Serial check box on the Data Expression dialog box. If a serial number is on the label, increments the serial number the number of times specified. This number can be overridden at print time.

Parameters: Number of times to increment the serial number.

Example: **auto\_serial(10)**

Result: The serial number will increment ten times.

See also:

**auto\_identical**  
**auto\_tracking\_serial**  
**get\_serial\_count**  
**serial**

## **auto\_tracking\_serial**

Allows you to combine the auto serial and the serial number tracking options on the Data Expression dialog box.

The tracking serial option creates a tracking serial number field based on the parameters entered.

The auto serial option increments a serial number the number of times specified.

See also:

**auto\_serial**  
**tracking\_serial**

## **blank()**

Returns a null character that has a length of zero.

Parameters: None.

Example: **blank()**

See also:

**isblank**

## **cat(string1,string2,...)**

Concatenates strings.

Parameters: String 1, string 2, etc. (variable number of strings).

Example: **cat("Weber ","Marking ","Systems")**

Result: **Weber Marking Systems**

See also:

**left**  
**len**  
**mid**  
**pad\_left**  
**pad\_right**  
**right**

**C128fncl()**

Returns a Code 128 Function 1 character to a barcode.

**checksum(type,string)**

Generates a checksum of specified *type* for the given string.

Parameters: Type, string.

Type codes are:

- 1 HIBCC (Mod 43)
- 2 UCC (Mod 10)

Example: **checksum(2,1234567890)**

Result: **5**

**chr(ascii\_code)**

Returns the ASCII equivalent of a number.

Parameters: ASCII code.

Example: **chr(33)**

Result: **!**

See also:

**asc**

**dll(library\_name,  
function\_name,[string1,[string2,[string3,[string4,[string5]]]])**

This function allows calling into an external program called a DLL or Dynamic Link Library. This is provided to allow customization of the software and requires a custom DLL to be written by a programmer. For proper use of this function contact Weber Marking Systems.

Example: **dll("custdll.dll","Mod87","123422234");**

Result: **1234222349**

---

**Note:** This example would require that a DLL be written and be called *custdll.dll*. It would need to have an entry point within it called Mod87 which accepts a single string parameter.

---

**false()**

Synonymous with 0. True is synonymous with non-zero values.

Parameters: None.

See also:

**if**

**true**

**first\_label()**

Indicates whether a label is the first label in the print job. Returns 1 if the label is the first label in the print job. Returns 0 if not the first label.

Parameters: None.

See also:

**last\_label**

**fld(fld\_name)**

Returns the value of a specified field in the label format.

Parameters: Label field name.

Example: **fld("Product number")**

Result: The data in the label field named *Product number*.

**format\_date(date\_value,format[,separator])**

Returns a date value in the format specified. A date value is a number that Legi uses to store dates internally (the number of days passed since a certain date).

Parameters: Date value, date format code, and the separator desired (optional). The default separator is */*.

Date format codes are:

1	MM/DD/YY	5	DD/MMM/YY
2	DD/MM/YY	6	DD/MM/YYYY
3	YY/MM/DD	7	MM/DD/YYYY
4	YYDDD	8	YYYY/MM/DD

Example: **format\_date(get\_current\_date(),1,"/")**

Result: 06/11/99

See also

**format\_time**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_month**  
**get\_week\_of\_year**  
**get\_year**

## **format\_time(value,format[,separator[,am[,pm]]])**

Returns a time value in the format specified.

Parameters: Time value, time format code, separator (optional), am (optional) and pm (optional). The default separator is : and the default for am is **a** and for pm is **p**.

Time format code:

- 1 12-hour clock
- 2 24-hour clock

Example: **format\_time(get\_current\_time(),1,":","am","pm")**

Result: **12:01:00pm**

See also:

**format\_date**  
**get\_current\_time**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_second**  
**get\_time\_value**  
**isam**  
**ispm**

**get\_current\_date()**

Returns the current date in numeric format. Use this option with `format_date` to produce a readable date.

Parameters: None.

Example: `format_date(get_current_date(),1,"/")`

Result: The current system date formatted in MM/DD/YY format. For example, on January 15, 1996, the result would be **01/15/96**.

See also

**format\_date**  
**get\_current\_time**  
**get\_date\_value**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_month**  
**get\_week\_of\_year**  
**get\_year**

**get\_current\_label\_in\_run()**

Returns the number of unique labels that have printed.

Parameters: None.

**get\_current\_time()**

Returns the current system time in numeric format. Use this option with `format_time` to produce a readable time.

Parameters: None.

Example: `get_current_time()`

Result: **43260**



See also:

**format\_time**  
**get\_current\_date**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_second**  
**get\_time\_value**  
**isam**  
**ispm**

## **get\_date\_value(month,day,year)**

Returns the internal date value for a specified date. A date value is a number that Legi uses to store dates internally (the number of days passed since a certain date).

Parameters: Month, day, and year.

Example: **get\_date\_value(06,11,99)**

See also:

**format\_date**  
**get\_current\_date**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_month**  
**get\_time\_value**  
**get\_week\_of\_year**  
**get\_year**

**get\_day(date\_value)**

Returns the day of the month for an internal date value. A date value is a number that Legi uses to store dates internally (the number of days passed since a certain date).

Parameters: Date value.

Example: **get\_day(get\_current\_date())**

Result: **911**

---

**Note:** The current date is June 11, 1999.

---

See also:

**format\_date**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_month**  
**get\_week\_of\_year**  
**get\_year**

**get\_day\_of\_week(date\_value)**

Returns a day of week number between 1 and 7 (1 is Sunday, 7 is Saturday) based on the date value entered. A date value is a number that Legi uses to store dates internally.

Parameters: Date value.

Example: **get\_day\_of\_week(get\_current\_date())**

Result: **6**

---

**Note:** The current date is Friday, June 11, 1999.

---

See also:

**format\_date**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_month**  
**get\_week\_of\_year**  
**get\_year**

## **get\_day\_of\_week\_iso(value)**

This function returns the day of the week based on the algorithm outlined in ISO 8601.

Day number one of any week is Monday, and day number seven is Sunday.

Please note: This function is not compatible with Legi 220. For compatibility with Legi 220, use the function `get_day_of_week()`.

## **get\_hour(time\_value)**

Returns the hour of the day between 0 and 23 for a specified internal time value.

Parameters: Time value.

Example: **get\_hour(get\_current\_time())**

Result: **12**

---

**Note:** The current time is 12:01 pm.

---

See also:

**format\_time**  
**get\_current\_time**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_second**  
**get\_time\_value**  
**isam**  
**ispm**

## **get\_identical\_count()**

Returns the current settings for the number of identical labels executed at print time. This function cannot be used in conjunction with `auto_identical`.

Parameters: None.

See also:

**auto\_identical**

**get\_serial\_count**

**get\_query\_count**

## **get\_job\_start\_date()**

Returns the date value for the job start date. This function can be used in conjunction with `format_date` to make the date value human readable. The job *start* date or time is the time that the print job actually began printing. The job *submit* date or time is the time when the print job was submitted to the print manager.

Parameters: None.

See also:

**format\_date**

**get\_current\_date**

**get\_date\_value**

**get\_day**

**get\_day\_of\_week**

**get\_job\_start\_time**

**get\_job\_submit\_date**

**get\_julian\_day**

**get\_month**

**get\_week\_of\_year**

**get\_year**

**get\_job\_start\_time()**

Returns the time value for the job start time. This function can be used in conjunction with `format_time` to make the time value human readable. The job *start* date or time is the time that the print job actually began printing. The job *submit* date or time is the time when the print job was submitted to the print manager.

Parameters: None.

See also:

**format\_time**  
**get\_current\_time**  
**get\_hour**  
**get\_job\_start\_date**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_second**  
**get\_time\_value**  
**isam**  
**ispm**

**get\_job\_submit\_date()**

Returns the date value for the job submit date. This function can be used in conjunction with `format_date` to make the date value human readable. The job *start* date or time is the time that the print job actually began printing. The job *submit* date or time is the time when the print job was submitted to the print manager.

Parameters: None.

See also:

**format\_date**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_time**  
**get\_julian\_day**  
**get\_month**  
**get\_week\_of\_year**  
**get\_year**

**get\_job\_submit\_time()**

Returns the time value for the job submit time. This function can be used in conjunction with `format_time` to make the time value human readable. The job submit time is the time the job was submitted to print manager, not the time it printed. The job *start* date or time is the time that the print job actually began printing. The job *submit* date or time is the time when the print job was submitted to the print manager.

Parameters: None.

See also:

**format\_time**  
**get\_current\_time**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_date**  
**get\_minute**  
**get\_second**  
**get\_time\_value**  
**isam**  
**ispm**

**get\_julian\_day(date\_value)**

Returns the julian calendar day value. The julian calendar day is the number of days since January 1 of the current year.

Parameters: Date value.

Example: **get\_julian\_day(get\_current\_date())**

Result: **162**

---

**Note:** The current date is June 11, 1999.

---

See also:

**format\_date**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_month**  
**get\_week\_of\_year**  
**get\_year**

## **get\_label\_name()**

Returns the file name for the label format.

Parameters: None.

See also:

**get\_label\_stock**  
**get\_user\_name**  
**label\_version**

## **get\_label\_stock()**

Returns the name of the label stock selected for the label format.

Parameters: None.

See also:

**get\_label\_name**  
**get\_user\_name**  
**label\_version**

## **get\_minute(time\_value)**

Returns the minute for a specified internal time value.

Parameters: Time value.

Example: **get\_minute(get\_current\_time())**

Result: 1

---

**Note:** The current time is 12:01 pm.

---

See also:

**format\_time**  
**get\_current\_time**

**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_second**  
**get\_time\_value**  
**isam**  
**ispm**

## **get\_month(date\_value)**

Returns the month number for a specified internal date value

Parameters: Date value.

Example: **get\_month(get\_current\_date())**

Result: **6**

---

**Note:** The current date is June 11, 1999.

---

See also:

**format\_date**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_week\_of\_year**  
**get\_year**



## **get\_query\_count()**

Returns the number of records found during a queried label print run.

Parameters: None.

See also:

**get\_identical\_count**

**get\_query\_rec**

**get\_serial\_count**

## **get\_query\_rec()**

Returns the number of the current record being printed during a queried label print run. This value will be between 1 and the values returned by `get_query_count`.

Parameters: None.

See also:

**get\_query\_count**

## **get\_second(time\_value)**

Returns the number of seconds for a specified time value. A time value is the number of seconds passed since midnight for a specified time.

Parameters: Time value.

Example: **get\_second(get\_current\_time())**

Result: **10**

---

**Note:** The current time is 12:01:10 pm.

---

See also:

**format\_time**  
**get\_current\_time**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_time\_value**  
**isam**  
**ispm**

## **get\_serial\_count()**

Returns the current setting for the number of times the serial number will increment during a serial run. This function cannot be used in conjunction with `auto_serial`.

Parameters: None.

See also:

**auto\_serial**  
**get\_identical\_count**  
**get\_query\_count**  
**serial**

## **get\_time\_value(hour,min,sec)**

Returns the internal time value for a specified time.

Parameters: Hour, minute, second.

Example: **get\_time\_value(12,01,00)**

See also:

**format\_time**  
**get\_current\_time**  
**get\_date\_value**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_second**  
**isam**  
**ispm**

**get\_user\_name()**

Returns the current user name logged into the system.

Parameters: None.

See also:

**get\_label\_name**

**get\_label\_stock**

**label\_version**

**get\_week\_of\_year(value)**

Returns the number of the current week in the year. Note that the first day of the year starts week 1.

The function now returns the correct week of year number with a week defined as Sunday through Saturday. The year 2000 has 54 weeks per standard week calculation techniques; therefore, year 2000 has 54 weeks as follows.

Week	Date	Day
1	Jan. 1	Saturday
2	Jan. 2-8	Sunday - Saturday
3	Jan. 9-15	Sunday - Saturday
.		
.		
53	Dec. 24-30	Sunday - Saturday
54	Dec. 31	Sunday

Parameters: Date value.

Example: **get\_week\_of\_year(get\_current\_date())**

Result: **24**

---

**Note:** The current date is June 11, 1999.

---

See also:

**format\_date**

**get\_current\_date**

**get\_date\_value**

**get\_day**

**get\_day\_of\_week**

**get\_job\_start\_date**

**get\_job\_submit\_date**

**get\_julian\_day**

**get\_month**

**get\_year**

**get\_week\_of\_year\_iso(value)**

This function returns the year number based on the algorithm outlined in ISO 8601. Week number one of any year is defined as the first week of the year where the majority of its days (four or more) are in that year. Also, weeks are defined as starting on Monday.

Please note: This function is not compatible with Legi 220. For compatibility with Legi 220, use the function `get_week_of_year()`.

The year 2000 breaks down as follows.

Week	Date	Day
52 of 1999	Jan. 1	Saturday
52 of 1999	Jan. 2	Sunday
1	Jan. 3 – 9	Monday – Sunday
2	Jan. 10 – 16	Monday – Sunday
.		
.		
51	Dec. 18-24	Monday – Sunday
52	Dec. 25 – 31	Monday – Sunday

**get\_year(date\_value)**

Returns the year for a specified internal date value

Parameters: Date value.

Example: `get_year(get_current_date())`

Result: **1993**

---

**Note:** The current date is June 11, 1999.

---

See also:

**format\_date**  
**get\_current\_date**  
**get\_date\_value**  
**get\_day**  
**get\_day\_of\_week**  
**get\_job\_start\_date**  
**get\_job\_submit\_date**  
**get\_julian\_day**  
**get\_month**  
**get\_week\_of\_year**

**if(test\_value,true\_value,false\_value)**

Returns a value based on the test value entered. True is not equal to zero, and false is equal to zero.

Parameters: Test value, value if true, value if false.

Example: **if(2<1,"TRUE!","FALSE!")**

Result: **FALSE!**

See also:

**false**  
**isam**  
**isblank**  
**isnumber**  
**ispm**  
**isstring**  
**true**

**index(index,value\_if\_1[,value\_if\_2]...)**

Returns the value according to the index value. An index value of 1 returns the first value, an index value of 2 returns the second value, and so on.

Parameters: index, value\_if\_1, value\_if\_2, etc.

Example: **index(1,one,two,three)**

Result: **one**

**isam(time\_value)**

Based on the time value entered, returns true (1) if the time is an AM time, returns false (0) if the time entered is *not* an AM time.

Parameters: Time value.

Example: **isam(get\_current\_time())**

Result: **0**

---

**Note:** The current time is 12:01 pm.

---

See also:

**format\_time**  
**get\_current\_time**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**

**get\_minute**  
**get\_second**  
**get\_time\_value**  
**if**  
**ispm**

## **isblank(value)**

Returns true (1) or false (0) based on whether the value of the parameter is blank.

Parameters: Value.

Example: **isblank(blank())**

Result: **1**

See also:

**blank**  
**if**  
**isnumber**  
**isstring**.

## **isnumber(value)**

Returns true (1) or false (0) based whether the value of the parameter is numeric (1) or alpha (0).

Parameters: Value.

Example: **isnumber("abc")**

Result: **0**

See also:

**if**  
**isblank**  
**isstring**.

## **ispm(time\_value)**

Based on the time value entered, returns true (1) if the time is a PM time, returns false (0) if the time entered is *not* a PM time.

Parameters: Time value.

Example: **ispm(get\_current\_time())**

Result: **1**

---

**Note:** The current time is 12:01 pm.

---

See also:

**format\_time**  
**get\_current\_time**  
**get\_hour**  
**get\_job\_start\_time**  
**get\_job\_submit\_time**  
**get\_minute**  
**get\_second**  
**get\_time\_value**  
**if**  
**isam**

## **isstring(value)**

Returns true (1) or false (0) based whether the value of the parameter is numeric (0) or alpha (1).

Parameters: Value.

Example: **isstring("abc")**

Result: **1**

See also:

**if**  
**isblank**  
**isnumber**

## **label\_version()**

Returns the number of times the label has been saved. Each time you save the label, a counter is increased in the label format.

Parameters: None.

See also:

**get\_label\_name**  
**get\_label\_stock**  
**get\_user\_name**

**last\_label()**

Indicates whether a label is the last label in the print job. Returns 1 if the label is the last label in the print job. Returns 0 if not the last label.

Parameters: None.

See also:

**first\_label**

## **left(string,len)**

Returns characters specified beginning from the left of the string.

Parameters: String, number of characters.

Example: **left("ABCDEFGHIJK",5)**

Result: **ABCDE**

See also:

**cat**

**len**

**mid**

**pad\_left**

**pad\_right**

**right**

## **len(string)**

Returns the number of characters in a string.

Parameters: String.

Example: **len("ABCDEFGHIJK")**

Result: **11**

See also:

**cat**

**left**

**mid**

**pad\_left**

**pad\_right**

**right**



**lower(string)**

Forces a specified string to lower case.

Parameters: String.

Example: **lower("ABCDE")**

Result: **abcde**

See also:

**upper**

**mid(string,pos,len)**

Returns the characters in a string based on the starting position and length. The first position in the string is 1.

Parameters: String, starting position, length.

Example: **mid("ABCDEFGHIJK",3,3)**

Result: **CDE**

See also:

**cat**

**left**

**len**

**pad\_left**

**pad\_right**

**right**

**ODBC\_query(fld\_name)**

Reads the data from an ODBC table and allows you to set up an ODBC query. Before using this data expression, the ODBC drivers must be installed and configured using the ODBC option from the Legi for Windows program group.

Parameters: Field name.

Example: **ODBC\_query(ProdName)**

**Result:** No result is produced until the query is completed using the Specify query option in Print Labels.

See also:

**ODBC\_srch**

**ODBC\_update(data\_source, [user\_name], [user\_pswd], table\_name, put\_col\_name, put\_col\_value, key\_col\_name1, key\_col\_value1 [,key\_col\_name2, key\_col\_value2, ]...)**

Read the data from an ODBC-supported table format, searching a selected column for a specific value and replacing that value with the updated value. Before using this data expression, the ODBC drivers must be installed and configured using the ODBC option from the Legi program group.

Parameters: Data source, user name (optional), user password (optional), the table name, the name of the return field, the search field name and the search field value, key column name, key column value. More key values may be entered.

**ODBC\_srch(data\_source,[user\_name],[user\_pswd],table\_name,ret\_fld\_name,srch\_fld\_name1,srch\_fld\_value1[,srch\_fld\_name2,srch\_fld\_value2])**

ODBC\_srchRead the data from an ODBC-supported table format and return the values that match the search criteria. Before using this data expression, the ODBC drivers must be installed and configured using the ODBC option from the Legi program group.

Parameters: Data source, user name (optional), user password (optional), the table name, the name of the return field, the search field name and the search field value. Up to 32 search field names and values can be entered.

See also:

**ODBC\_query**

**pad\_left(string,len,fill)**

Returns the characters left-aligned based on the length and the fill character.

Parameters: String, length, fill character.

Example: **pad\_left("ABCDEFGHIJK",14,"@")**

Result: **@@@ABCDEFGHIJK**

See also:

**cat**

**left**

**len**

**mid**

**pad\_right**

**right**

**pad\_right(string,len,fill)**

Returns the characters right-aligned based on the length and the fill character.

Parameters: String, length, fill character.

Example: **pad\_right("ABCDEFGHIJK",14,"@")**

Result: **ABCDEFGHIJK@@@**

See also:

**cat**

**left**

**len**

**mid**

**pad\_left**

**right**

**precision(number,places,zeros\_flag)**

Returns the number specified with the number of decimals specified. Includes zeroes if specified. This function does not round.

Parameters: Number, number of decimal places, zero flag.

Zero flag values:

0 Do not remove the zeroes (zero suppression false)

1 Remove the zeroes (zero suppression true)

Example: **precision(55,3,0)**

Result: **55.000**

See also:

**abs**

**sgn**

**right(string,len)**

Returns characters specified beginning from the right of the string.

Parameters: String, number of characters.

Example: **right("ABCDEFGHIJK",5)**

Result: **GHIJK**

See also:

**cat**

**left**

**len**

**mid**

**pad\_left**

**pad\_right**

**serial(base[,increment[,length[,fill[,persistant]]]])**

Equivalent to the serial Yes radio button on the Data Expression dialog box. Creates a serial number field based on the parameters entered.

Parameters: Starting number, increment number (optional), length (optional), fill character (optional). The increment defaults to 1, the length defaults to zero (all), and the fill defaults to spaces.

Example: **serial("25",5,10,"0")**

Result: The serial number will begin at 25, will increment by 5, and will be 10 characters long. If it is not 10 characters long, the 0 symbol will fill in the extra spaces. The first serial number will be **0000000025**. Due to printer limitations any character other than a space or a zero as the fill character requires computer repetition.

See also:

**auto\_serial**  
**auto\_tracking\_serial**  
**get\_serial\_count**  
**tracking\_serial**

**set\_nonprinting(), fld("Text2")**

Use this command to conditionally control printing of a label format field. For example, use the following expression to disable printing of a field, if there is no data in the field it is referencing. The reference field is named Text2.

**if( fld("Text2") = "", set\_nonprinting(), fld("Text2") )**

**sgn(number)**

If the number specified is positive, returns 1. If the number specified is negative, returns -1. If the number specified is 0, returns 0.

Parameters: Number.

Example: **sgn(-23)**

Result: **-1**

See also:

**abs**  
**precision**

**textfile(filename)**

Equivalent to the Text File radio button on the Data Expression dialog box. Returns the contents of the text file specified.

Parameters: File name.

Example: **textfile("c:\config.sys")**

Result: Contents of config.sys file.

**tracking\_serial(key[,increment[,length[,fill]]])**

Equivalent to the Serial Number Tracking radio button on the Data Expression dialog box. Creates a tracking serial number field based on the parameters entered. See also **serial**.

Parameters: Serial number name, increment number (optional), length (optional), fill character (optional). The increment defaults to 1, the length defaults to zero (all), and the fill defaults to spaces.

Example: **tracking\_serial("serial 1",5,10,"0")**

Result: The tracking serial number will be serial 1, the numbers will increment by 5, and be 10 characters long. If the number is not 10 characters long, the 0 symbol will fill in the extra spaces. Due to printer limitations any character other than a space or a zero as the fill character requires computer repetition.

See also:

**auto\_serial**  
**serial**

**true()**

Synonymous with 1. False is synonymous with 0.

Parameters: None.

See also:

**auto\_tracking\_serial**  
**false**  
**get\_serial\_count**  
**if**

## **upper(string)**

Forces a specified string to upper case.

Parameters: String.

Example: **upper("abcde")**

Result: **ABCDE**

See also:

**lower**

# Appendix B. Printer Driver Installation and Configuration

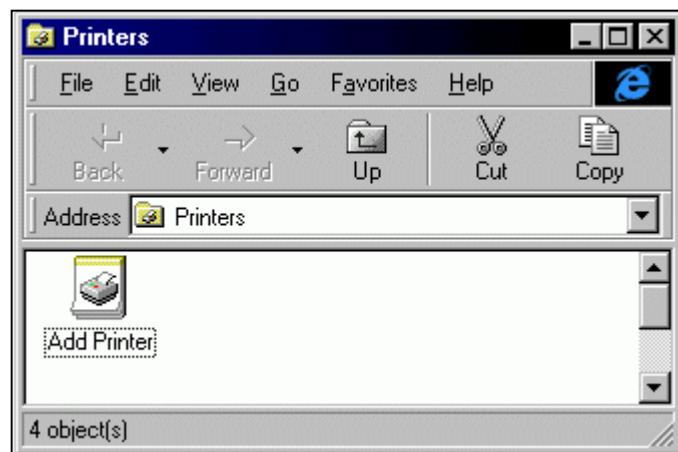
Legi supports the use of Windows® printer drivers. This appendix provides the information required to install and configure Legi printer drivers.

## Installing a Printer Driver

Follow these steps to install a Legi printer driver:

1. From the Windows® Start menu, select *S*ettings → *P*rinters.

The Printers dialog box opens.

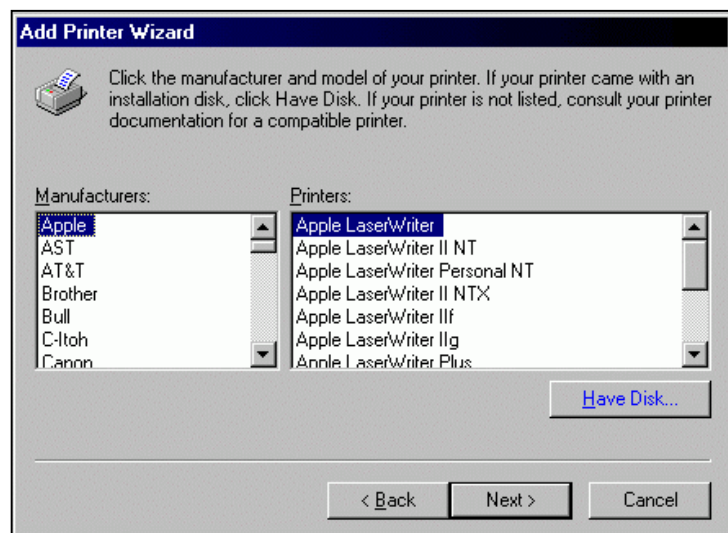




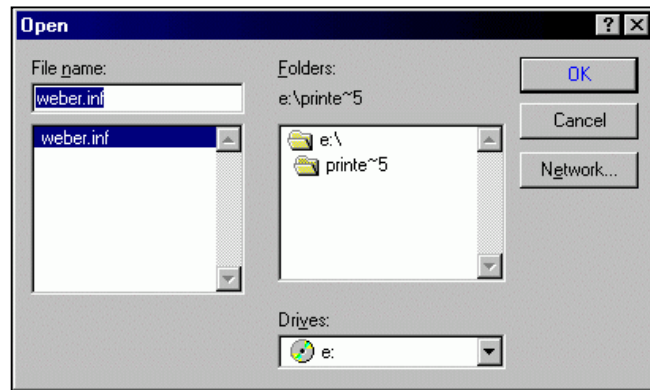
2. Click the **Add Printer** icon to activate the Windows® Add Printer Wizard. Then follow the instructions on your screen.



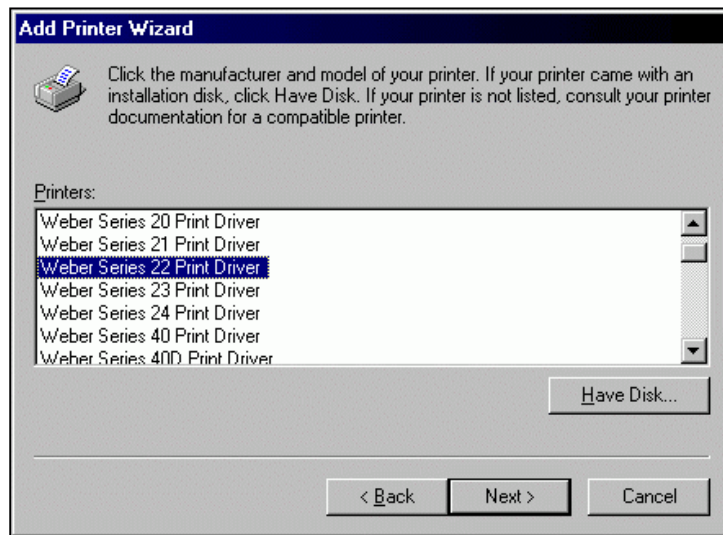
3. When prompted to select a printer, click Have Disk...
4. When prompted for a disk, select the drive that your Weber Printer Driver resides on.



5. Select and open the **weber.inf** file.



6. Choose your printer from the list of Weber printers and click **Next**.
7. Follow the remaining Add Printer Wizard instructions to complete



the installation.

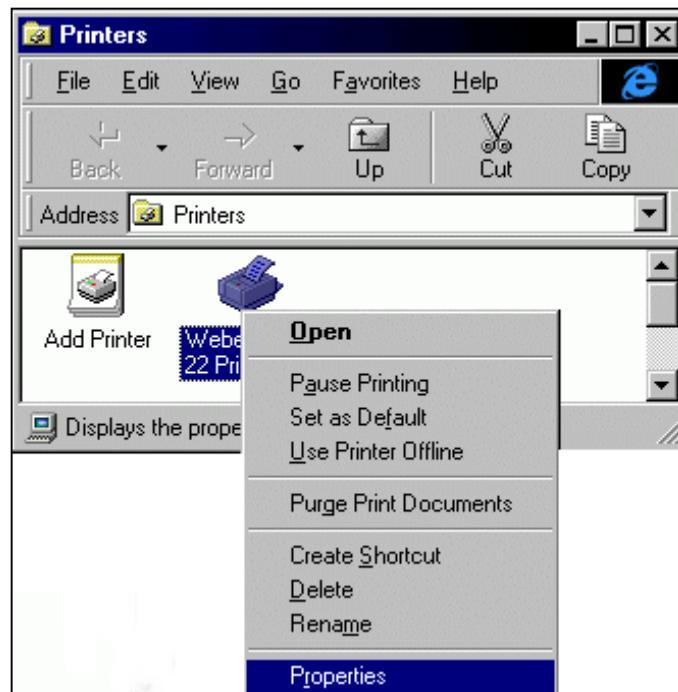
## Configuring a Printer Driver

Follow these steps to configure an installed printer driver:

1. Click the icon for the printer you want to configure.



2. Right click and select Properties to open the Print Driver Properties dialog box.



**Note:** Depending on the operational characteristics of your Weber printer, the Print Driver Properties dialog box may contain optional fields. For descriptions of those fields, refer to “Optional Specifications” (page 176).

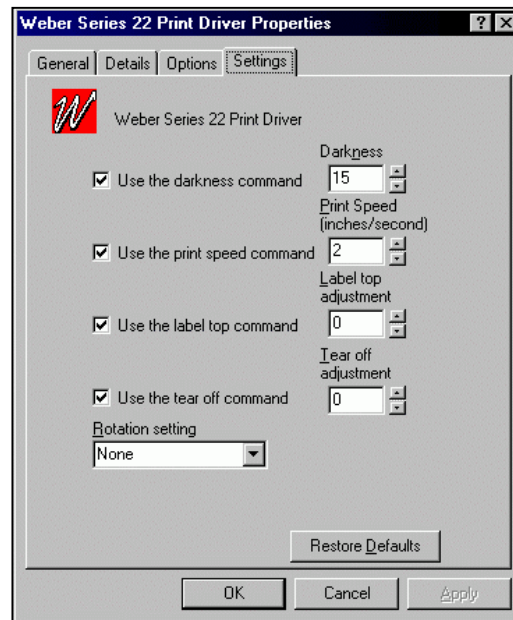
3. Click the Options tab.



4. Modify the values displayed as necessary.

Specification	Description
Label Size	The width and height of the label and the appropriate measurement standard.
Cutter installed	Check if the printer has a cutter installed.
Cut during print	Check to use cutter option during label printing. (Disabled when no cutter is installed.)
Computer repetition	Check to send label information for each copy when multiple copies of the label are printed. When not checked, the printer repeats the information received for every label.
Cut/Pause count	Number of labels to print before cutting or pausing.

- Click the Settings tab.



- Modify the values displayed as necessary by checking the commands you want to use and typing the appropriate value for each command.

Specification	Description
<u>D</u> arkness	Print darkness (darkness intensifies as number increases).
<u>P</u> rint Speed	Print speed in inches per second.
<u>L</u> abel top adjustment	Position (in printer dots) at which the top of the label format should print.
<u>T</u> ear off adjustment	The distance from the print head the label feeds after printing.
<u>R</u> otation setting	Number of degrees to rotate the label when printing.

---

**Note:** You can restore the original (unmodified) settings by clicking **Restore Defaults**.

---

- When you have completed your configuration settings, click OK.

## Optional Specifications

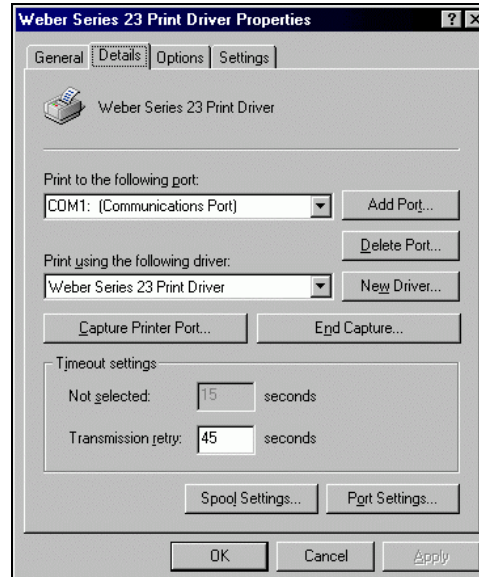
The following table lists and explains optional specifications that may appear in the Print Driver Properties dialog box, depending on the operational characteristics of your Weber printer.

Specification	Description
Module designator	The code for the memory options installed on the printer. Refer to the printer user guide for specific codes.
Module size in bytes	The size (in bytes) of the memory option.
Contrast	The level of contrast between the black and white areas of the label. This specification determines how heavy the inking will be, ranging from <b>1</b> (lightest) to <b>20</b> (heaviest).
Label stock continuous	Check to print labels on continuous feed label stock.
Label sensor reflective	Check when the printer uses transmissive ("black strip" media) sensing to detect end of label. When not checked, the printer uses reflective sensing to detect end of label.
Independent ribbon control	Check to use the ribbon saving feature.
Media darkness	Print darkness (darkness intensifies as number increases).
Media tracking	Label stock type — continuous or non-continuous.
Print mode	Print mode selection:  <b>Tear off</b> — labels will be torn off manually.  <b>Peel off</b> — printer will separate the backing from the label. (Backing only rewind assembly must be installed.)  <b>External rewind</b> — Label stock winds onto the external rewind spool. (Optional external rewind assembly must be installed.)  <b>Cutter</b> — cutter will cut between labels. (A cutter must be installed.)
Installed graphics module	Location and size of installed graphics module.
Select edge sensor	Select to use die cut stock with a reflective label edge sensor.

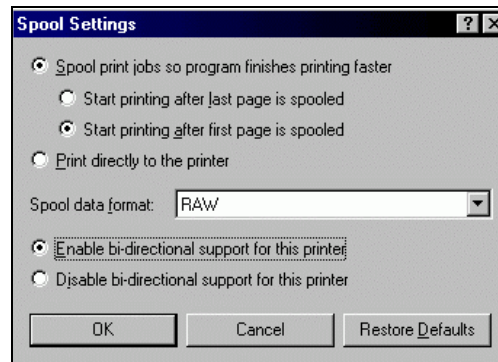
## Status Checking

Follow these steps to set status checking on or off:

1. Click the Details tab of the Print Driver Properties dialog box.



2. Click Spool Settings... to open the Spool Settings dialog box.



3. Select the appropriate option:

- ☐ **Enable bi-directional support for this printer** (sets status checking on).
- ☐ **Disable bi-directional support for this printer** (sets status checking off).

# Appendix C. Automated Print Control

Legi supports two automated methods for printing and manipulating labels:

- ❑ **Batch Print Control** allows you to control printing activity via commands stored in a file.
- ❑ **Application Designer** allows you to develop customized labeling applications, including specialized user interfaces, data manipulation, and programmatic logic control.

## Using Automated Print Control

Batch Print Control and Application Designer both require an input file called a *script file*. The script file is an ASCII file containing print job parameters required by Legi. The script file may contain such parameters as the label name, the port to print to, and identical and serial counts.

To execute a script file, you run the LEGI32.EXE file, specifying the script filename in the command line:

**legi32/batch *filename***

where *filename* is the name and full path of the script file.

---

**Note:** When you pass a label format or print job as the filename parameter, that format or job will be printed. This is a useful practice when the label data or number of labels to print does not change, and when the label data comes from database tables and label expressions.

---



There are two ways to run script files in Legi:

- ❑ Run LEGI32.EXE, specifying the script filename in the command line:

**legi32.exe/batch *filename***

where *filename* is the name and full path of the script file containing the application designer commands.

- ❑ Specify the name of a script file containing Application Designer commands in the Options dialog box and check the **Run Application Designer from Print Labels** checkbox. This causes the Application Designer commands to run when the print session is invoked.
- ❑ Run Legi32.exe /batch batch.end to remove the Legi batch print program from memory.

## Batch Print Control Commands

### ALTERNATE-AUTO-COUNTS

Specifies method of computing alternate automatic and identical label counts for a queried print job.

**Value:** Yes or No

**Default:** None

**Notes:** When the value is **Yes**, the identical and serial counts are re-evaluated as the field that specifies automatic or identical label counts is re-evaluated during a label run. When the value is **No**, the automatic identical and automatic serial counts do not change, even though the field that specifies automatic or identical counts changes across several different records of a queried run.

### AUTO-REPEAT

Automatically repeats this job in an endless loop.

**Value:** Yes or No

**Default:** None

## BEGIN

Begins accepting field data

**Value:** none

**Default:** none

## CLEAR-BUFFER

Clears the current job from the printer when this job starts.

**Value:** Yes or No

**Default:** None

None

## DELETE-BATCH

Deletes the batch when it has been completely processed.

**Value:** None

**Default:** None

## DISABLE-AUTO-PRINT

Specifies whether job will auto print on last supplied input.

**Value:** Yes or No

**Default:** None

## END

Stops accepting field data.

**Value:** None

**Default:** None

## ERROR-ACTION

Specifies the error handling method.

**Values:** **Abort** (abort batch) *or* **Ignore** (ignore error and continue)

**Default:** Ignore

## ERROR-LOG

Specifies where to direct an error.

**Value:** =drive:path\filename.ext, **Display** ( to display), or **None**.

**Default:** **Display**

**Notes:** When the drive and path are not supplied, the value in SET-DIRECTORY is used.

## FMT-GDIPRINTERNAME

Selects the print mode for the label format.

**Value:** The name of the Windows printer as it appears in Print Manager (for example, **HP LaserJet 4 Plus/4M Plus**).

**Default:** None

**Notes:** The printer names must match exactly.

## FORMAT

Selects a label format for printing.

**Value:** *drive:path\filename.LBL*

**Default:** None

**Notes:** When the drive and path are not supplied, the value specified in SET-DIRECTORY is used.

## IDENTICAL-COUNT

Specifies the number of identical labels to print.

**Value:** 0-999999999 (0=auto identical)

**Default:** 1

## ODBC-QUERY-DATA-SOURCE

Specifies the data source for an ODBC query.

**Value:** Data source

**Default:** None.

## ODBC-QUERY-END-VALUE

Specifies the end value for the ODBC query.

**Value:** Ending value of the field for the query

**Default:** None

## ODBC-QUERY-PASSWORD

Specifies the password for an ODBC query.

**Value:** Password

**Default:** None

## ODBC-QUERY-SEARCH-FIELD

Specifies the key field for the ODBC query

**Value:** Field name

**Default:** None

## ODBC-QUERY-SQL-EXPRESSION

Specifies the SQL expression for the ODBC query.

**Value:** SQL expression

**Default:** None

## ODBC-QUERY-START-VALUE

Specifies the start value for the ODBC query.

**Value:** Start value of the field for the query

**Default:** None

## ODBC-QUERY-TABLE

Specifies the table for an ODBC query.

**Value:** Table name

**Default:** None

## ODBC-QUERY-USER-NAME

Specifies the user name for an ODBC query

**Value:** User name

**Default:** None

## ODBC-QUERY-USE-SQL-EXPRESSION

Specifies that the ODBC SQL expression will be used for the ODBC query.

**Value:** Yes or No

**Default:** None

**Notes:** When this statement is omitted, the SQL expression is not used for the query.

## OUTPUT-FILE

Redirects output to this file for the current label.

**Value:** drive:path\filename.ext

**Default:** None

## PRINT

Prints the current format or job.

**Value:** None

## SERIAL-COUNT

Specifies the number of serialized labels to print.

**Value:** 0-999999999 (0=auto serial)

**Default:** 1

## SUPPLIED-PORT

Specifies remote group 1 as communication port to receive serial supplied data

**Value:** COM $n$  (where  $n$  is 1 – 9)

**Default:** None

**Notes:** same as FLD-OP-REMOTE-ID1

## TEST-PRINT

Test prints the current format or job.

**Value:** None

**Default:** None

## USER-NAME

Specifies the user name for Legi login.

**Value:** User name

**Default:** None

**Notes:** Used to set a user name for print logs.

## Advanced Commands

### FMT-LBLVIEW-EACHQUERIED

Displays a label preview for each queried label.

**Value:** Yes or No

**Default:** None

### FMT-LBLVIEW-EACHSERIAL

Displays a label preview for each serial label.

**Value:** Yes or No

**Default:** None

### FMT-LBLVIEW-PRINTLABELS

Displays a label preview when a print job is submitted.

**Value:** Yes or No

**Default:** None

### FMT-LBLVIEW-PRINTSTART

Displays a label preview when a print job is started.

**Value:** Yes or No

**Default:** None

### JOB-DESCRIPTION

Describes a print job.

**Value:** Print job description

**Default:** None

### PRINT-SUSPENDED

Starts a print job that is suspended in Print Manager.

**Value:** Yes or No

**Default:** No

# Application Designer

## Syntax Rules

1. Lines beginning with `:` are GOTO labels.
2. Variable names must begin with `$`. Anywhere a value can be used, a variable can be used in place of it.
3. A variable value can be a numeric or a string value. All string values containing blank spaces should be enclosed in quotation marks.
4. `$ERRORCODE` and `$DLGITEMID` are predefined variables that are updated by commands.

## Performance Notes

Running Application Designer from another application such as a Visual Basic program can be very disk intensive. To improve performance, make sure that the hard disk drive is cached. Smart Drive is a hard disk drive cache program that is included with Windows. Set the cache size to at least 1024KB.

The Application Designer program remains in memory even after the batch has been processed. This allows for much faster processing of additional batches. Legi can run while Application Designer is running. To close Application Designer, click on the Legi Batch icon and select **Close**.



## Automated Print Control Rules

Keep the following automated print control rules in mind when creating an Application Designer file:

1. Enter only one command per line.
2. Blank space (spaces and tabs) is ignored except in field and expression data.
3. Blank lines are ignored.
4. Lines beginning with an asterisk (\*) are ignored.
5. Keywords *must* be uppercase.
6. Field data is referenced by field name.
7. Non-operator fields can accept any data expression.
8. Non-operator constant data for fields should be enclosed in quotation marks.
9. The full path, filename, and extension *must* be supplied for all files.
10. Referenced field names cannot be keywords.

## Application Designer Commands

### Assignment Statement

**Syntax:** \$var = value

**Note:** Assign the value to \$var.

### Goto and Conditional Goto Commands

#### **GOTO**

Jumps to a label.

**Syntax:** GOTO = *label*

**Note:** The syntax defining a label is **:label**

## IF Commands

**Syntax:** IF-EQUAL = *para1*, *para2*, *label*

(Syntax is similar for all IF commands.)

**Note:** These commands perform a jump if *para1* is =, <sup>1</sup>, >, <, or <sup>3</sup> *para2* respectively.

**IF-EQUAL**

**IF-GREATERTHAN**

**IF-LESSTHAN**

**IF-NOT-EQUAL**

**IF-NOT-GREATERTHAN**

**IF-NOT-LESSTHAN**

## String Commands

### **ANSI-CHAR**

Converts an integer to an ANSI character

**Syntax:** ANSI-CHAR = *ansicode*, \$char

**Note:** \$char will hold the ANSI character whose ANSI code is *ansicode*.

### **STRING-CAT**

Concatenates strings.

**Syntax:** STRING-CAT = *string1*, *string2*, ..., \$result

**Note:** Concatenate *string1*, *string2*, ... . The concatenated string will be saved to \$result.

### **STRING-FIND**

Scans a string for the occurrence of a given substring.

**Syntax:** STRING-FIND = *string1*, *string2*, \$index

**Note:** \$index holds the character position of the first occurrence of the *string2* in *string1*. The \$index is 0 if *string2* is not in *string1*.

### **STRING-LEN**

Gets the length of the string.

**Syntax:** STRING-LEN = *string*, \$length

### **STRING-LOWER**

Converts uppercase letters in a string to lowercase.

**Syntax:** STRING-LOWER = \$string

## STRING-MID

Gets a substring.

**Syntax:** STRING-MID = *string*, *index*, *count*, \$result

**Note:** \$result stores count characters from *string*, starting at character *index*. The index parameter is zero-based (for example, **index = 0** references the first character in the string).

## STRING-PARSE

Parses one string.

**Syntax:** STRING-PARSE = *string*, *delimiter*, *n*, \$result

**Note:** Get the *n*th token from *string*, where the string *delimiter* is used as the *delimiter*. The selected token will be in '\$result'. \$ERRORCODE is 1 if end of string is reached. Otherwise, 0.

## STRING-UPPER

Converts lowercase letters in a string to uppercase.

**Syntax:** STRING-UPPER = \$string

## Math Commands

**Syntax:** MATH-ADD = *para1*, *para2*, \$result

(Syntax is similar for other all MATH commands.)

**Note:** These commands perform mathematics operation on *para1* and *para2*. The result will be stored in \$result.

### ***MATH-ABS***

Replace the value of a variable by its absolute value.

**Syntax:** MATH-ABS = \$var

### ***MATH-ADD***

### ***MATH-DIV***

### ***MATH-MOD***

### ***MATH-MUL***

### ***MATH-SUB***

## Screen Input/Output Commands

When using screen I/O commands to define a dialog box and its controls, make sure that the definitions are executed only once. (It's a good idea to define them at the beginning of the batch file.)

\$DLGITEMID is a predefined variable that holds the ID of the dialog control item just defined. \$DLGITEMID will be overwritten by most dialog commands. If it will be needed, it should be saved to another variable right after the dialog command. When more than one pushbutton is defined, save the IDs of pushbutton controls to compare with the \$BUTTON\_ID of the DIALOG command. You should also save any control items in the dialog box that will use the DIALOG-SET-TEXT command.

### DIALOG

Defines a dialog box

**Syntax:** DIALOG = *DlgName*, *title*, *x*, *y*, *width*, *height*, \$button\_id

**Notes:**

*DlgName* is the name of the dialog box, which will be used in the DIALOG-SHOW command.

*x* is the x-coordinate(in pixels) of dialog box's upper-left corner in screen coordinates.

*y* is the y-coordinate(in pixels) of dialog box's upper-left corner in screen coordinates.

*width* is the dialog box width (in pixels).

*height* is the dialog box height (in pixels).

\$button\_id is the ID of the push-button been clicked.

## DIALOG-CHECKBOX

After a pushbutton is clicked, the selected file name (and its drive and path) will be saved in \$file.

**Syntax:** DIALOG-CHECKBOX = *text*, *x*, *y*, *width*, *height*, \$Status

**Notes:**

*text* is the text that follows the check box.

When the \$Status is assigned a value before the DIALOG-SHOW command, its value at the moment of executing DIALOG-SHOW determines whether the box is checked.

After a pushbutton is clicked, \$Status will be **1** if the box is checked. If the box is not checked, \$Status will be **0**.

## DIALOG-CLOSE

Closes the dialog box and its controls.

**Syntax:** DIALOG-CLOSE = *DlgName*

**Notes:**

This command applies only to MANUALCLOSE dialog boxes.

*DlgName* is the name of the dialog box to be closed.

## DIALOG-COMBOBOX

Defines a combo box control in the latest dialog box.

**Syntax:** DIALOG-COMBOBOX = *style*, *x,y,width,height*, \$ComboText

**Notes:**

*style* can be SIMPLE, DROPDOWN, or DROPDOWNLIST.

If \$ComboText is assigned a value before the DIALOG-SHOW command, its value at the moment of executing DIALOG-SHOW will be highlighted if the value is in the list.

After a pushbutton is clicked, the selected item will be stored in \$ComboText.

## DIALOG-COMBOBOX-FILES

Defines a combobox control that contains file names.

**Syntax:** DIALOG-COMBOBOX-FILES=*filename*, *style*, *x*, *y*, *w*, *h*, \$file

**Notes:**

*filename* can include wildcards.

*style* can be SIMPLE, DROPDOWN, or DROPDOWNLIST.

*w* is the combo box width (in pixels).

*h* is the combo box height (in pixels).

When \$file is assigned a value before the DIALOG-SHOW command, its value at that moment of executing DIALOG-SHOW will be highlighted if the value is in the list.

## DIALOG-COMBOBOX-ITEM

Adds a string to the latest combo box control.

**Syntax:** DIALOG-COMBOBOX-ITEM = *string*

**Notes:**

An empty or duplicate string will not be added to the list.

This command must be placed immediately after the DIALOG-COMBOBOX command.

## DIALOG-EDIT

Defines an edit box control in the latest dialog box

**Syntax:** DIALOG-EDIT = *x*, *y*, *width*, *height*, \$EditText [,PASSWORD]

**Notes:**

When \$EditText is assigned a value before the DIALOG-SHOW command, its value at the moment of executing DIALOG-SHOW will be the initial value of the edit box.

After a pushbutton is clicked, the edited text will be stored in \$EditText.

When the keyword PASSWORD is specified, Legi displays all characters as asterisks (\*) as they are typed into edit control.



## **DIALOG-FRAME**

Defines a box with the specified frame style in the latest dialog box.

**Syntax:** DIALOG-FRAME = *framestyle*, *x*, *y*, *width*, *height*

**Note:** *framestyle* must be BLACKFRAME, GRAYFRAME, or WHITEFRAME.

## **DIALOG-GROUPBOX**

Defines a group box control in the latest dialog box.

**Syntax:** DIALOG-GROUPBOX = *title*, *x*, *y*, *width*, *height*

**Notes:**

The control is a rectangle that groups other controls together.

The controls between this command and DIALOG-GROUP-END belong to one group.

## **DIALOG-GROUP-END**

Ends a group.

**Syntax:** DIALOG-GROUP-END

## **DIALOG-LIST**

Defines a list box control in the latest dialog box.

**Syntax:** DIALOG-LIST = *x*, *y*, *width*, *height*, \$ListText

**Notes:**

When \$ListText is assigned a value before the DIALOG-SHOW command, its value at the moment of executing DIALOG-SHOW will be highlighted if the value is in the list box.

After a pushbutton is clicked, \$ListText will contain the text of the selected item.

## DIALOG-LIST-FILES

Defines a list box control that contains all the specified file names.

**Syntax:** DIALOG-LIST-FILES=*filename*, *x*, *y*, *width*, *height*, \$file

**Notes:**

*filename* can include wildcards.

When \$file is assigned a value before the DIALOG-SHOW command, its value at the moment of executing DIALOG-SHOW will be highlighted if the value is in the list.

After a pushbutton is clicked, the selected file name (and its drive and path) will be saved in \$file.

## DIALOG-LIST-ITEM

Adds a string to the latest list box.

**Syntax:** DIALOG-LIST-ITEM = *string*

**Notes:**

An empty or duplicate string will not be added to the list.

This command must be placed immediately after the DIALOG-LIST command.

## DIALOG-PUSHBUTTON

Defines a push-button control in the latest dialog box.

**Syntax:** DIALOG-PUSHBUTTON = *text*, *x*, *y*, *width*, *height*

**Note:** When no pushbutton is defined, the software displays a default OK button.

## **DIALOG-RADIOBUTTON**

Defines a radio button in the latest dialog box.

**Syntax:** DIALOG-RADIOBUTTON = *text*, *x*, *y*, *width*, *height*, \$Status

**Notes:**

*text* is the text that follows the radio button.

When \$Status is assigned a value before DIALOG-SHOW command, its value at the moment of executing DIALOG-SHOW will determine whether the box is checked.

After a pushbutton is clicked, \$Status will be **1** if the box is checked. If the box is not checked, \$Status will be **0**.

## **DIALOG-SET-TEXT**

Sets the title or text of a control item to the specified text.

**Syntax:** DIALOG-SET-TEXT = \$id, *text*

**Notes:**

This command applies only to MANUALCLOSE dialog boxes.

This command must appear after DIALOG-SHOW and before DIALOG-CLOSE.

\$id is the ID of the control item that \$DLGITEMID is saved to.

## DIALOG-SHOW

Displays the dialog box and its controls, and pauses the batch.

**Syntax:** DIALOG-SHOW = *DlgName*, *type*

**Notes:**

*DlgName* is the name of the dialog box to be displayed.

*type* is AUTOCLOSE or MANUALCLOSE:

AUTOCLOSE - When one of the pushbuttons is clicked, Legi updates all variables attached to control items, closes the dialog box, and unpauses the batch.

MANUALCLOSE - The dialog box remains open until DIALOG-CLOSE is executed. Legi updates all variables attached to control items and unpauses the batch when the user does any of the following:

Clicks one of the dialog box pushbuttons, check boxes, or radio buttons

Moves the focus off an edit box or combo box whose style is SIMPLE or DROPDOWN

Selects another item from a list box or DROPDOWNLIST combo box.

The user can change the values of the related controls if the value of one control has been changed.

When the dialog box is already displayed in the case of MANUALCLOSE, the DIALOG-SHOW command moves to the top and pauses the batch. The type is ignored.

## DIALOG-TEXT

Defines a text field in the latest dialog box

**Syntax:** DIALOG-TEXT = *text*, *x*, *y*, *width*, *height*

## MESSAGE-BOX

Displays a message on the screen.

**Syntax:** MESSAGE-BOX = *title*, *text*

## File Input/Output Commands

### ***FILE-CLOSE***

Closes the opened text file.

**Syntax:** FILE-CLOSE = \$filehandle

### ***FILE-DELETE***

Deletes a DOS file.

**Syntax:** drive:path\filename.lbl

**Default:** None

### ***FILE-OPEN***

Opens a DOS text file.

**Syntax:** FILE-OPEN = *filename*, *access*, \$filehandle

**Notes:**

*access* must be one of the following:

RDONLY - Open for reading only

WRONLY - Open for writing only. When the file exists, it is cleared. When the file does not exist, it is created.

RDWR - Open for reading *and* writing.

APPEND - Open for reading *and* writing. The file pointer is set to the end of the file prior to each write.

\$filehandle is the file handle. On error, the \$filehandle is -1.

**\$ERRORCODE**

0 = Success

1 = Failure

**FILE-READ**

Reads *n* bytes from the opened text file.

**Syntax:** FILE-READ = \$filehandle, *n*, \$string

**Note:** FILE-READ attempts to read *n* bytes from the file associated with \$filehandle into \$string. It begins reading at the current file pointer. When the read is complete, the file pointer is incremented by the number of bytes read. \$ERRORCODE is set to **1** on end-of-file.

**FILE-READ-TOKEN**

Reads the file for tokens, which are separated by the delimiter character.

**Syntax:** FILE-READ-TOKEN = \$filehandle, *C*, \$string

**Notes:**

FILE-READ-TOKEN reads from file associated with \$filehandle into \$string until it reaches the delimiter character *C*. It begins reading at the current file pointer. When the read is complete, the file pointer is incremented by the number of bytes read. \$ERRORCODE is set to **1** on end-of-file.

(*C* is limited to one character.)

The delimiter is truncated.

**FILE-READ-LINE**

Reads the current line from the opened text file.

**Syntax:** FILE-READ-LINE = \$filehandle, \$line

**Notes:**

\$line will hold the one-line text.

The LF is truncated.

The current line changes to the next line when the read is complete.

\$ ERRORCODE is **1** on end-of-file.

**FILE-WRITE**

Writes a string to the opened text file.

**Syntax:** FILE-WRITE = \$filehandle, *text*

## ***FILE-WRITE-LINE***

Writes a line to the opened text file.

**Syntax:** FILE-WRITE-LINE = \$filehandle, *text*

**Note:** LF is appended to text before writing.

## Port Input/Output Commands

### **HARDWARE-INPUT**

Reads byte from the hardware I/O port.

**Value:** Portaddress, \$state

**Default:** None

**Notes:** The First argument is the port address. The second argument is the variable for storage of the return value.

### **HARDWARE-OUTPUT**

Writes byte to hardware I/O port

**Value:** Portaddress, Data

**Default:** None

### **PORT-CHECK**

Returns the status of a communication port.

**Syntax:** PORT-CHECK=*port*, \$status, \$inbytes, \$outbytes,

**Notes:**

*port* is COM*n* or LPT*n*.

\$status specifies the status of transmission.

\$inbytes specifies the number of bytes in the receive buffer.

\$outbytes specifies the number of bytes in the transmit buffer.

\$JobsInQueue specifies the number of jobs in the printer manager queue for this port.

The port must be opened by PORT-OPEN.

**\$ERRORCODE**

0 = Success

1 = Failure



## PORT-CLOSE

Closes an opened communication port.

**Syntax:** PORT-CLOSE = *port*

**Notes:**

*port* is COM*n* or LPT*n*.

This command closes only the port opened by PORT-OPEN.

## PORT-OPEN

Opens a communication port.

**Syntax:** PORT-OPEN = *port* [, *speed*, *parity*, *bytesize*, *stopbits*]

**Notes:**

*port* specifies the device in the form of COM*n* (where *n* is 1-9), or LPT*n*, where *n* is 1-3.

*speed*, *parity*, *bytesize* and *stopbits* are used to set up the port for COM*n* only.

On a successful open, \$ERRORCODE is **0**. On failure, \$ERRORCODE is **1**.

## PORT-READ

Reads bytes from a communication port.

**Syntax:** PORT-READ = *port*, *nbytes*, \$data

**Note:**

*port* is COM*n* or LPT*n*.

*nbytes* specifies number of bytes to read.

\$data is the data read from the port.

The port must be opened by PORT-OPEN.

**\$ERRORCODE**

0 = Success

1 = Failure

## ***PORT-WRITE***

Writes a string to a communication port.

**Syntax:** PORT-WRITE = *port, string*

**Notes:**

*port* is COM*n* or LPT*n*.

The port must be opened by PORT-OPEN.

**\$ERRORCODE**

0 = Success

1 = Failure

## Database Input/Output Commands

### ***DB-CLOSE***

Closes a database.

**Syntax:** DB-CLOSE = \$tblhandle

**Note:** \$tblhandle is the table handle obtained from DB-OPEN.

### ***DB-DELETE-RECORD***

Retrieves the field(s) from the next record.

**Syntax:** DB-DELETE=\$tblhandle,name1,value1,name2,value2,...

**Notes:** The record identified by *namen* and *\$valuen* is deleted. When more than one record matches, the first record is deleted.

**\$ERRORCODE**

0 = Success

1 = Failure

### ***DB-OPEN***

Opens a database.

**Syntax:** DB-OPEN = *DataSourceName*, *tablename*, \$tblhandle, mode, [username, password]

**Notes:**

This command returns the table handle that will be used by other database I/O commands (in \$tblhandle).

**\$ERRORCODE**

0 = Success

1 = Failure

**DB-INSERT**

Adds a record to a database.

**Syntax:** DB- INSERT = \$tblhandle, name1, \$value1, name2, \$value2,  
...

**Notes:**

The specified record will be added. All non-specified fields will be set to **0** or spaces.

**\$ERRORCODE**

0 = Success

1 = Failure

**DB-READ**

Retrieves a record by key match.

**Syntax:** DB-READ = \$tblhandle, FieldName, \$RTNFIELDVALUE,  
name1, \$value1, name2, \$value2, ...

**Notes:**

Searches the open table specified by \$tblhandle to find the record that has value *n* on key field name *n*.

**\$ERRORCODE**

0 = Success

1 = Failure

**DB-READ-NEXT**

Returns the record pointed to by the 'record pointer'.

**Syntax:** DB-READ-NEXT=\$HANDLE, COL1, \$VAR1, [COL2,  
\$VAR2, ..., COLN, \$VARN], [START-AT, KEY1, VAL1, [KEY2,  
VAL2, ..., KEYN, VALN]]

where;

\$HANDLE is the handle of an open file (must have been opened using the DB-OPEN command)

COL1, COL2, ..., COLN are the column names of the fields to be returned

\$VAR1, \$VAR2, ..., \$VARN are variables that will contain the values of the columns when the read is completed

KEY1, KEY2, ..., KEYN are the key column names

VAL1, VAL2, ..., VALN are the key values

**Notes:**

DB-READ-NEXT returns the record pointed to by the 'record pointer'. When a file is opened, a 'record pointer' for the DB-READ-NEXT function is set to point to the first record in the file. This 'record pointer' can be changed in several ways:

- 1) By calling DB-READ-NEXT without the START-AT clause - When DB-READ-NEXT is called (without the START-AT clause), the next record in the file is returned and the 'record pointer' is incremented to point to the following record in the file.
- 2) By calling any other database function (DB-READ, DB-UPDATE, DB-INSERT, DB-DELETE-RECORD, DB-OPEN), which will set the 'record pointer' to the beginning of the file.
- 3) By calling DB-READ-NEXT with a START-AT clause. This will create a record set of all records in the file with key value greater than or equal to the specified key. The 'record pointer' will point to the first record in that record set. Subsequent DB-READ-NEXT commands that don't contain a START-AT clause will return records from this record set.

If end-of-file is reached, or any other error occurs, \$ERRORCODE is set to 1. For example:

```
DB-OPEN="ADDRESSES", "EMPLOYEES", $HANDLE, QUERY
:LOOP
    DB-READ-NEXT=$HANDLE, "LAST NAME", $NAME
    IF-EQUAL=$ERRORCODE, 1, EXIT
    MESSAGE-BOX="NAME", $NAME
GOTO=LOOP
:EXIT
DB-CLOSE=$HANDLE
```

This will display one message box containing the last name for every entry in the table "EMPLOYEES". Here's another example:

```
DB-OPEN="ADDRESSES", "EMPLOYEES", $HANDLE, QUERY
DB-READ-NEXT=$HANDLE, "LAST NAME", $NAME, START-
AT, "LAST NAME", "WEBER"
:LOOP
    IF-EQUAL=$ERRORCODE, 1, EXIT
    MESSAGE-BOX="NAME", $NAME
    DB-READ-NEXT=$HANDLE, "LAST NAME", $NAME
GOTO=LOOP
```

```
:EXIT
DB-CLOSE=$HANDLE
```

This will display a message box for every record in the table "EMPLOYEES" which has a last name lexicographically greater-than or equal-to "WEBER".

## ***DB-UPDATE***

Updates a record in a database.

**Syntax:** DB-UPDATE = \$tblhandle, *fieldname1*, *fieldvalue1*, *name1*, *value1*, ...

**Notes:**

*fieldname1* is the name of the field to be updated.

*fieldvalue1* is the new value for *fieldname1*.

*name1*,... are the key field names.

*value1*,... are the key field values.

**\$ERRORCODE**

0 = Success

1 = Failure

## Miscellaneous Commands

### ***ADD-BATCH***

Adds a batch to the end of the batch queue.

**Syntax:** ADD-BATCH = *Batchfilename*

**Note:** *Batchfilename* is a string that contains the drive, path, and name of the batch file to be added.

### ***GET-DATE***

Gets the system date.

**Syntax:** GET-DATE = \$month, \$day, \$year

### ***GET-TIME***

Gets the system time.

**Syntax:** GET-TIME = \$hour, \$min, \$sec, \$hund

### ***SET-DATE***

Sets the system date.

**Syntax:** SET-DATE = *month, day, year*

**Note:**

**\$ERRORCODE**

0 = Success

1 = Failure

**SET-TIME**

Sets the system time

**Syntax:** SET-TIME = *hour, min, sec, hund*

**Notes:**

*hund* = hundredths of seconds

**\$ERRORCODE**

0 = Success

1 = Failure

**SLEEP**

Suspends the batch for an interval (specified in milliseconds).

**Syntax:** SLEEP = *msecs*

**Notes:**

*msecs* = number of milliseconds.

The limit is 4294967296 or 49 – 50 days.

**WIN-EXEC**

Runs a specified application.

**Syntax:** WIN-EXEC = *CmdLine*

**Notes:**

*CmdLine* is a string containing the command line (filename and optional parameter) for the application to run. If the string does not contain a path, Windows® searches the directories in this order:

Directory that contains the executable file for the current task.

Current directory.

Windows® system directory.

Windows® directory .

Directories listed in the PATH environment variable.

**\$ERRORCODE**

0 = Success

1 = Failure



## Sample File

```
* Select the bolts label for printing.  
FORMAT=bolts.lbl  
IDENTICAL-COUNT=10  
SERIAL-COUNT=2  
  
* Set data values into the fields  
BEGIN  
    0001="Special Bolt design A230-yt1"  
    0015="Expiration Date: 6/30/95"  
END  
  
* Print this format  
PRINT
```



# Appendix D. True Type Font Support

## Overview

Legi version 3.4 supports recalling downloaded TrueType fonts in the printer. These fonts are then accessed as printer-resident fonts and, therefore, do not need to be downloaded with every label. This process greatly improves the time it takes to print a label and is accomplished in two steps.

First, the fonts are downloaded to the printers using various tools provided by the different printer vendors.

Second, the font information is entered into the Legi print driver property pages so that Legi is aware of which fonts are printer resident.

Downloading fonts through the Legi drivers will be supported in future versions.

This document describes the methods printer vendors use to download TrueType fonts and to configure the Legi print drivers to use the fonts.

When you select fonts in Legi, Legi does not distinguish the downloaded TrueType fonts from other TrueType fonts. Just select the font as you normally would. If it is printer resident, the font is properly selected at print time. However the user must remember which fonts are printer resident.

## Zebra Printers

### Downloading Fonts

Zebra printers supports downloading of TrueType fonts into the printer. These fonts are then accessed as resident printer fonts, and therefore do not need to be downloaded with every label.

You download the fonts using the **Zebra Universal Print Driver**.

NOTE: Make sure that the printer is powered on and attached to the computer before starting this procedure.

### Procedure

1. Display the properties pages of the Zebra driver and select the *Printer* tab.
2. Select *Printer Options, Settings*.
3. Press the *Download Font* button at the bottom of the page.
4. Select the font you wish to download.
5. Select TrueType from the *Download As:* list.
6. Select the desired memory location (usually *B:*).

NOTE: *R:* is used for label data and is cleared at the beginning of every label printed. Therefore, do not use *R:* for storing fonts.

7. Select the style. (Regular, Bold, Italic, Bold + Italic)
8. Press the *Font Download* button.

You will be returned to the previous screen. In the *Font Information* group box, the downloaded font name and location are displayed. Make a note of this for later use.

## Notes

The Zebra Universal Print Driver has a bug that limits use of each TrueType font to one style. For example, you must choose Courier, Courier Bold, or Courier Italic; you cannot use more than one. If you do, the latest font downloaded will overwrite the previous font.

## Configuring Legi Print Drivers

You must tell Legi what fonts are downloaded and resident in the printer. Do this by using the *Fonts* property page of the Legi print driver. Note that the fonts you want to use must have previously been downloaded to the printer using the **Zebra Universal Print Driver**.

You will need administrative access to the computer to perform the following procedures.

## Add Font Procedure

Display the property pages of the Legi driver you are using and select the *Fonts* tab.

Select the TrueType font you want to access in the printer from the list *Installed Computer Fonts*.

Enter the font filename in the *Download Filename* edit control.

NOTE: This is the name that was used when you downloaded the font to the printer using the Zebra Universal Print Driver. You do not need to enter the .FNT extension.

Select the memory location that was used when you downloaded the font. (usually *B:*).

NOTE: Check that *R:* was not used. *R:* is used for label data and is cleared at the beginning of every label printed.

Press the *Add To Downloaded List* button. The font will be added to the *Downloaded Printer Fonts* list.

Press OK when you are done adding fonts.

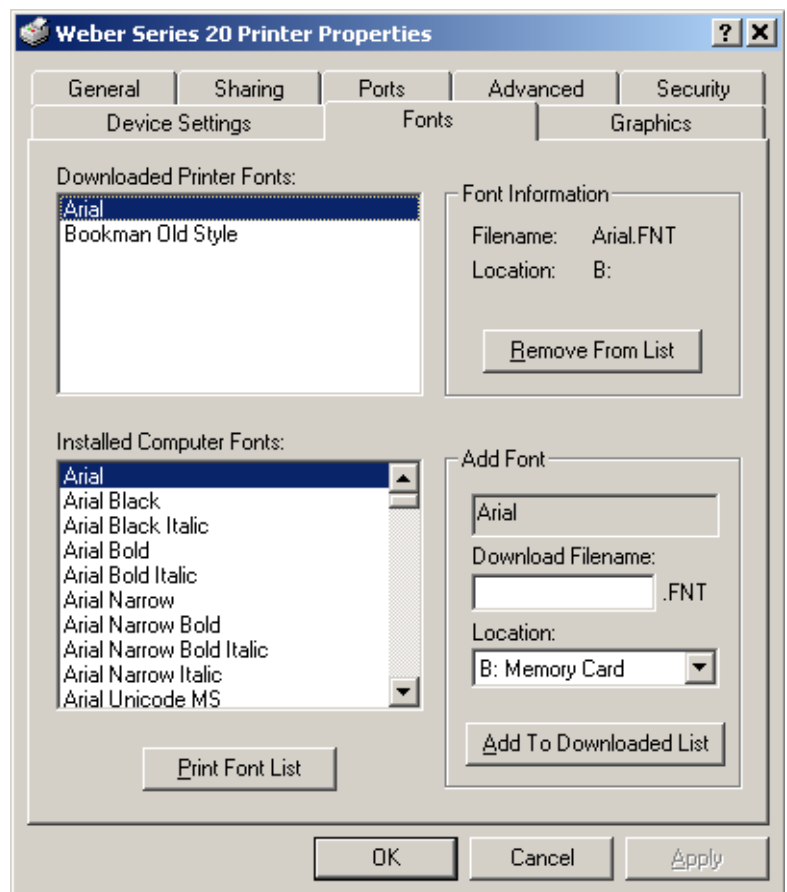
## Delete Font Procedure

Select the font from the *Downloaded Printer Fonts* list.

Press the *Remove From List* button. You will see the font disappear from the list.

Press OK when you are done removing fonts.

The font must also be deleted from the printer using the Zebra Universal Print Driver.



## Sato Printers

### Downloading Fonts

Sato printers support downloading of TrueType fonts into the printer. However, Sato requires that you select a specific point size of the font to download. Only those label fields that contain text in this size will use the downloaded font. This is much more restrictive than the other printer families and requires that you know exactly what size fonts you will use.

You download the fonts using the Sato **Memory Card Manager**.

NOTE: Make sure that the printer is powered on and attached to the computer before starting this procedure.

### Procedure

1. Start the Memory Card Manager application.
2. Select *Options, Settings* and select Slot number 1.
3. Select *File, New*.
4. Select *Fonts, Add*.
5. In the Font data dialog, press the *Select* button.
6. Choose a font, style, and point size and press *OK*.
7. Press *OK* in the *Font data* dialog.  
You will now see a list of all downloaded fonts. Make a note of the complete font name.
8. Select *Fonts, Download* to download the fonts shown in the list. The letter D appears next to the font name to indicate the fonts has been downloaded.
9. Select *Fonts, Test print*.  
The printer prints a sample of the font along with the font ID that has been assigned. Record the font ID for later use.
10. Select *File, Save*.

This saves all the downloaded font information. You can add or delete fonts at a later date by opening this file.

## Configuring Legi Print Drivers

You must tell Legi what fonts are downloaded and resident in the printer. Do this by using the *Fonts* property page of the Legi print driver. Note that the fonts you want to use must have previously been downloaded to the printer using the **Sato Memory Card Manager**.

You will need administrative access to the computer to perform the following procedures.

### Add Font Procedure

1. Display the property pages of the Legi driver you are using and select the *Fonts* tab.
2. Select the TrueType font you want to access from the list *Installed Computer Fonts*.
3. Choose the memory card slot that was used when you downloaded the font using the Sato Memory Card Manager.
4. Select it in the *Memory Card* list.
5. Enter the font ID in the *Font ID* edit control.  
NOTE: This is the value that was assigned by the printer when you downloaded the font using the Sato Memory Card Manager.
6. Enter the point size of the font that was downloaded.
7. Press the *Add To Downloaded List* button.  
The font will be added to the *Downloaded Printer Fonts* list.
8. Press OK when you are done adding fonts.

### Delete Font Procedure

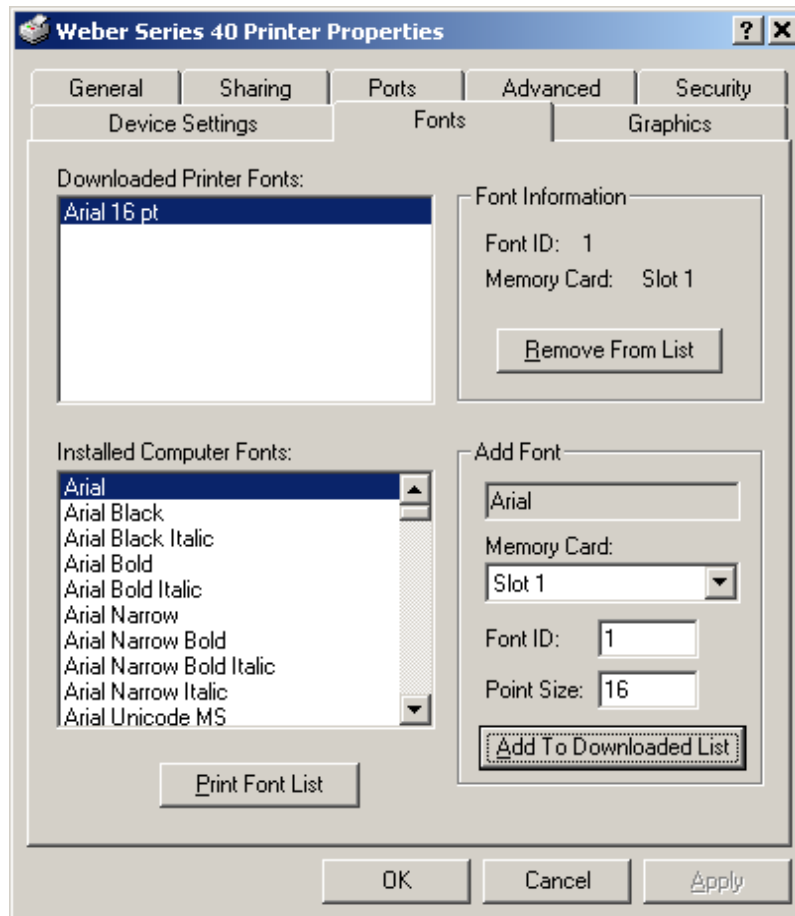
1. Select the font from the *Downloaded Printer Fonts* list.
2. Press the *Remove From List* button.  
You will see the font disappear from the list.
3. Press OK when you are done removing fonts.

Use the Sato Memory Card Manager to delete the font from the printer.



## Notes

Due to Legi's font sizing methods and Sato's inability to allow a range of point sizes on a given font, these fonts will print slightly larger than they display.



# Datamax Printers

## Downloading Fonts

Datamax printers support downloading of TrueType fonts into the printer. These fonts are then accessed as resident printer fonts and therefore do not need to be downloaded with every label.

You download the fonts using the **Datamax Print Driver**.

NOTE: Make sure that the printer is powered on and attached to the computer before starting this procedure.

## Procedure

1. Display the properties page of the Datamax driver and select the *Fonts* tab.  
This displays all currently downloaded fonts.
2. Press the *Download Font* button.
3. Select the font and style.
4. Select TrueType font from the *Download As:* list.
5. In the *Font Storage* group box, select the location to store the font to.  
NOTE: Do not choose module C or D. These modules are used for label data and are cleared every time a label is printed.
6. Select the font name.  
The font name should be as short as possible, yet accurately describe the font and style. You can take the default.
7. Press *OK*. The font is now sent to the printer and the *Font* property page is displayed.
8. Select the font from the *Font Name* list.  
Make a note of the file name, location, and ID displayed in the *Font Information* group box.
9. Press *OK* to save your changes.

## Configuring Legi Print Drivers

You must tell Legi what fonts are downloaded and resident in the printer. Do this by using the *Fonts* property page of the Legi print driver. Note that the fonts you want to use must have previously been downloaded to the printer using the **Datamax Print Driver**.

You will need administrative access to the computer to perform the following procedures.

### Add Font Procedure

1. Display the properties page of the Legi driver you are using and select the *Fonts* tab.
2. Select the TrueType font you want to access in the printer from the list *Installed Computer Fonts*.
3. Enter the font filename in the *Download Filename* edit control.  
NOTE: This is the name that was used when you downloaded the font to the printer using the Datamax Print Driver.
4. Enter the font ID in the *Font ID* edit control.  
NOTE: This is the value (e.g. S50) that was assigned when you downloaded the font using the Datamax Print Driver.
5. Choose the location (e.g. F) that you used when you downloaded the font. Select it from the *Location* list.
6. Press the *Add To Downloaded List* button.  
The font is added to the *Downloaded Printer Fonts* list.
7. Press OK when you are done adding fonts.

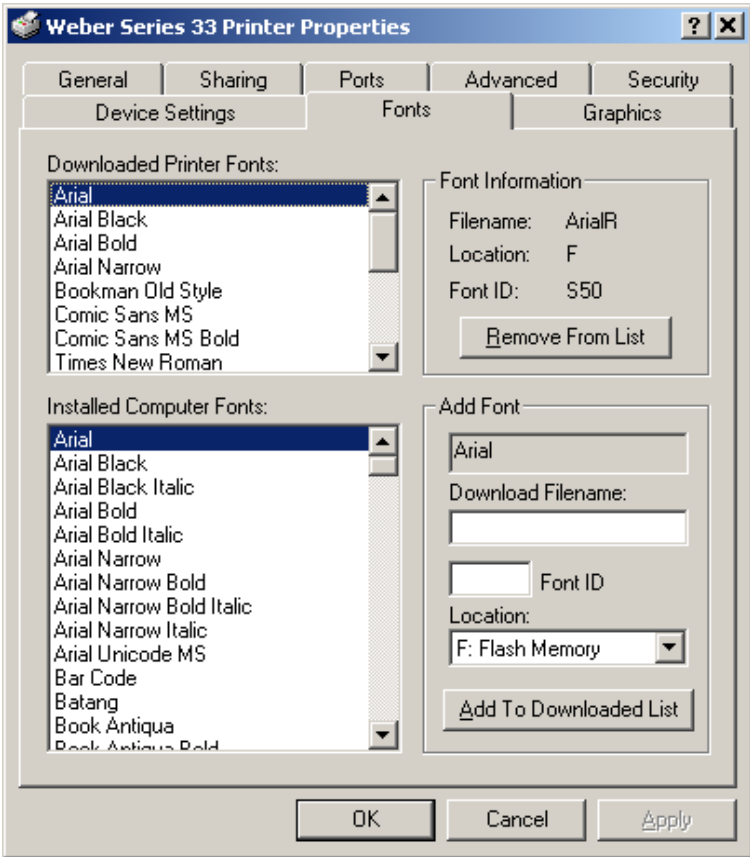
### Delete Font Procedure

1. Select the font from the *Downloaded Printer Fonts* list.
2. Press the *Remove From List* button. You will see the font disappear from the list.
3. Press OK when you are done removing fonts.

Use the Datamax Print Driver to also delete the font from the printer.

Notes

Datamax applies incorrect sizing algorithms to fonts that have the bold style. These fonts will print wider than they display. Additionally, the width of other fonts may not exactly match the display, due to differences between Windows' and the printer's sizing algorithms.



# Appendix E. Graphics Support

## Overview of support

Legi 3.4 supports recalling downloaded PCX graphics in the printer. These graphics are then accessed as printer resident graphics and therefore do not need to be downloaded with every label. . This process greatly improves the time it takes to print a label and is accomplished in two steps

First, the graphics are downloaded to the printer using various tools provided by the different printer vendors.

Second, the graphic information is entered into the Legi driver property pages so that Legi is aware of which graphics are printer resident.

Downloading graphics through the Legi drivers will be supported in future versions.

This document describes both the methods used by printer vendors to download graphics and how to configure the Legi print drivers to use the graphics.

When you select graphics in Legi, Legi does not distinguish the downloaded graphics in any way from other graphics. Just select the graphic as you normally would. If it is printer resident, the graphic will be properly selected at print time. However the user must remember which graphics are printer resident.

Graphics cannot be dynamically sized once they are downloaded. At label design time, if a graphic in Legi is dynamically sized larger or smaller, it will not match the graphic in the printer when the label prints. This is a printer limitation.

# Zebra Printers: Graphics

## Downloading Graphics

Zebra printers support downloading PCX graphics into the printer. Zebra requires that the PCX file first be converted into its proprietary format and then downloaded. Zebra does not support rotation of graphics. Once the graphic is downloaded, it will only print in that one orientation.

You convert graphics using **Zebra Tools 3.1**.

NOTE: Make sure that the printer is powered on and attached to the computer before starting this procedure.

## Procedure

1. Load the Zebra Tools application.
2. Select *Convert, Graphics*.
3. Enter the graphic name to download in *Source*.
4. Enter the name to use for the converted file in *Destination*.  
NOTE: The destination name is limited to 8 characters. This can be the same name (without the PCX extension) as the source graphic, because the extension will be changed to *GRF*.
5. Select the destination device (usually *B:*).  
NOTE: *R:* is used for label data and is cleared at the beginning of every label printed. Therefore, do not use *R:* for storing graphics.
6. Enter the name the printer will use to identify this graphic.  
NOTE: This name is limited to 8 characters. It can also be the same as the previously entered names.
7. Select rotation if a rotation other than 0° is desired. Once downloaded, the graphic cannot be rotated.

8. Locate the converted file according to the directory paths setup under *Options, Directories*.
9. Send the file to the printer using a communications program or DOS.

## Notes

Use the front panel setup to display the memory module contents. Do this to verify that the graphic was stored in the printer.

## Configuring Legi Print Drivers

You must tell Legi what graphics are downloaded and resident in the printer. Do this by using the *Graphics* property page of the Legi print driver. Note that the graphics you want to use must have previously been downloaded to the printer using the **Zebra Tools 3.1**.

You will need administrative access to the computer to perform the following procedures.

## Add Graphic Procedure

1. Display the property pages of the Legi driver you are using and select the *Graphics* tab.
2. Enter the name of the graphic as it is used by Legi in the *Filename* edit control.  
NOTE: Do not include the drive letter or path.  
**For example:** In a Legi graphic field, the name might be *C:\Graphics\Logo.pcx*. Enter only *Logo.pcx* in this edit control.
3. Enter the graphic filename in the *Download Filename* edit control.  
NOTE: This is the name that was used when you downloaded the font to the printer using Zebra Tools 3.1. You do not need to enter the .GRF extension.
4. Select the memory location that was used when you downloaded the font (usually *B:*). NOTE: Check that *R:* was not used. *R:* is used for label data and is cleared at the beginning of every label printed.

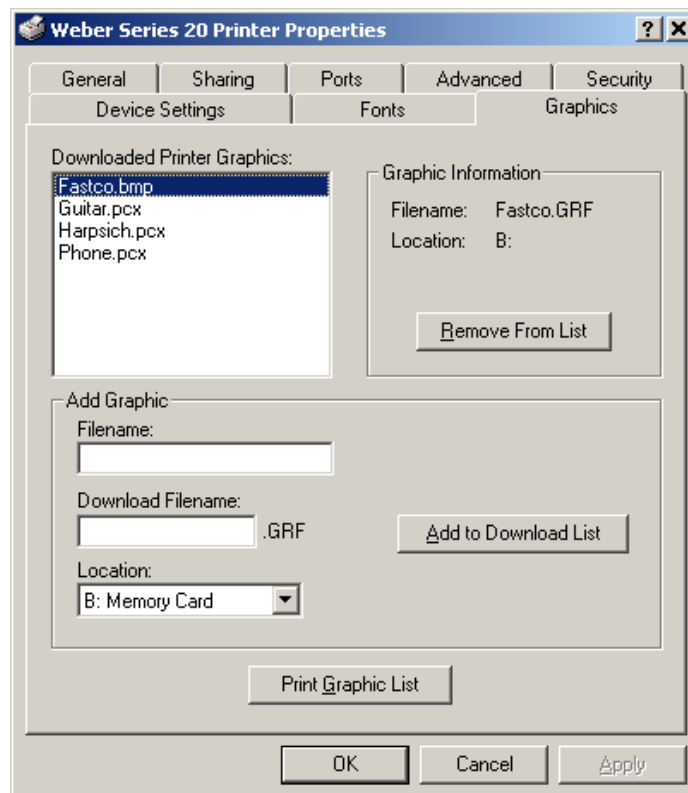


5. Press the *Add To Downloaded List* button. The graphic will be added to the *Downloaded Printer Graphics* list.
6. Press OK when you are done adding graphics.

## Delete Graphic Procedure

1. Select the graphic from the *Downloaded Printer Graphics* list.
2. Press the *Remove From List* button. You will see the graphic disappear from the list.
3. Press OK when you are done removing graphics.

The graphic must also be deleted from the printer using the Zebra Tools 3.1.



# Sato Printers: Graphics

## Downloading Graphics

Sato printers support downloading PCX graphics into the printer. Unlike other printer families, Sato allows graphics to be rotated after they are downloaded.

You download the fonts using the Sato **Memory Card Manager**.

NOTE: Make sure that the printer is powered on and attached to the computer before starting this procedure.

## Procedure

1. Start the **Memory Card Manager** application.
2. Select *Options, Settings*. Choose Slot number 1 or 2 from the list, depending on which slot your memory card is using.
3. Press *OK*.
4. Select *Graphics, Add*.
5. Select *PCX files* in the *List files of type:* list box.
6. Select the graphic you want to download and press *OK*.
7. Select the graphic name from the *Graphics* column on the main screen.
8. Select *Graphics, Download*.  
NOTE: This downloads the PCX graphic to the printer. The **D** next to the graphic indicates this graphic has been downloaded.
9. Use the *Test Print* feature to verify the download operation: Select *Graphics, Test Print*.  
NOTE: This prints the graphic along with its assigned ID. This ID is the location in the printer where the graphic is stored. Record this ID for later use.

## Configuring Legi Print Drivers

You must tell Legi what graphics are downloaded and resident in the printer. Do this by using the *Graphics* property page of the Legi print driver. Note that the graphics you want to use must have previously been downloaded to the printer using the **Sato Memory Card Manager**.

You will need administrative access to the computer to perform the following procedures.

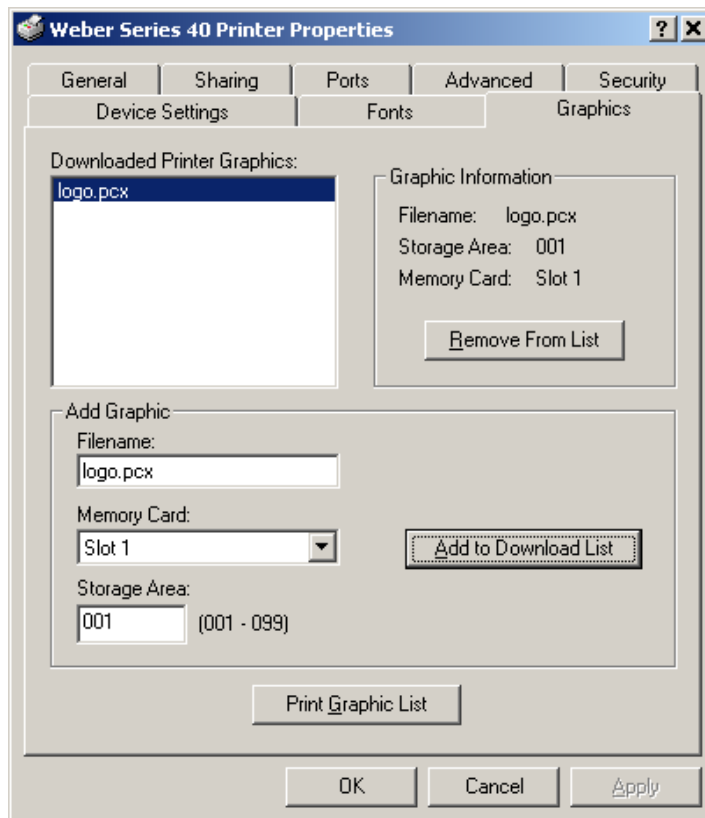
### Add Graphic Procedure

1. Display the property pages of the Legi driver you are using and select the *Graphics* tab.
2. Enter the name of the graphic as it is used by Legi in the *Filename* edit control.  
NOTE: Do not include the drive letter or path.  
**For example:** In a Legi graphic field, the name might be *C:\Graphics\Logo.pcx*. Enter only *Logo.pcx* in this edit control.
3. Choose the memory card slot that was used when you downloaded the graphic using the Sato Memory Card Manager.
4. Select it in the *Memory Card* list.
5. Enter the graphic ID in the *Storage Area* edit control.  
NOTE: This is the value that was assigned by the printer when you downloaded the graphic using the Sato Memory Card Manager.
6. Press the *Add To Downloaded List* button.
7. The graphic will be added to the *Downloaded Printer Graphics* list.
8. Press OK when you are done adding graphics.

## Delete Graphic Procedure

1. Select the graphic from the *Downloaded Printer Graphics* list.
2. Press the *Remove From List* button.  
You will see the graphic disappear from the list.
3. Press OK when you are done removing graphics.

The graphic must also be deleted from the printer using the Sato Memory Card Manager.



# Datamax Printers: Graphics

## Downloading Graphics

Datamax printers support downloading PCX graphics into the printer. Datamax does not support rotation of graphics; that is, once the graphic is downloaded, it will only print in that one orientation.

Datamax does not supply any tools for downloading graphics. You must add a special header to the PCX graphic you want to download and then copy or send that file to the port to which the printer is connected.

Header format:        <STX>I<module>P<graphic name><CR>data  
where

<STX> = 02 hex,

*I* stands for Input Image Data,

<module> is the memory module to which the graphic is downloaded: A, B or F

*P* stands for PCX image format,

<graphic name> is the name the graphic will be stored under in the printer (maximum 16 characters),

<CR> stands for Carriage Return, which is 0D hex,

<data> is the PCX file

NOTE: Make sure that the printer is powered on and attached to the computer before starting this procedure.

## Procedure

1. Open the PCX file using a hex or binary editor.
2. Insert the header shown above at the beginning of the file, substituting a module identifier and graphic name in the appropriate places.
3. Save the file under a new name.
4. Send the file to the printer use a communications program or DOS.

## Notes

You can display memory module contents using the front panel setup. Do this to verify that the graphic was stored in the printer.

## Configuring Legi Print Drivers

You must tell Legi what graphics are downloaded and resident in the printer. Do this by using the *Graphics* property page of the Legi print driver. Note that the graphics you want to use must have previously been downloaded to the printer.

You will need administrative access to the computer to perform the following procedures.

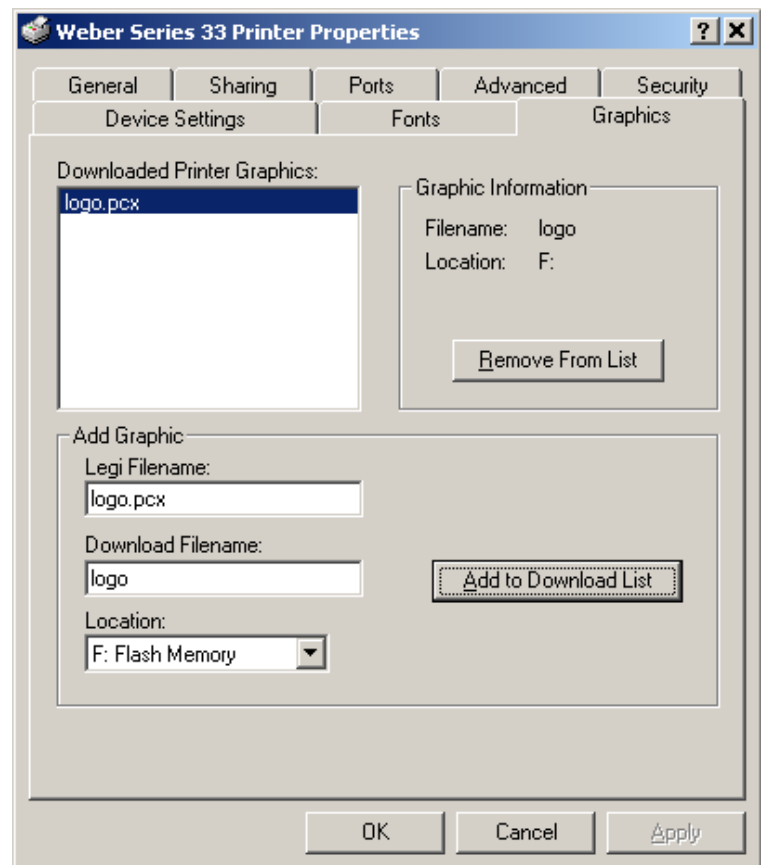
### Add Graphic Procedure

1. Display the properties page of the Legi driver you are using and select the *Graphics* tab.
2. Enter the name of the graphic as it is used by Legi in the *Legi Filename* edit control. NOTE: Do not include the driver letter or path.  
For example, in a Legi graphic field, the name might be *C:\Graphics\Logo.pcx*. Enter only *Logo.pcx* in this edit control.
3. Enter the graphic filename in the *Download Filename* edit control. This is the name that was used when you downloaded the graphic to the printer.
4. Choose the location that was specified when you downloaded the graphic to the printer. Select it from the *Location* list box.
5. Press the *Add To Downloaded List* button.  
The graphic is added to the *Downloaded Printer Graphics* list.
6. Press OK when you are done adding graphics.

## Delete Graphic Procedure

1. Select the graphic from the *Downloaded Printer Graphics* list.
2. Press the *Remove From List* button. You will see the graphic disappear from the list.
3. Press OK when you are done removing graphics.

The graphic must also be deleted from the printer.



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