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# *IDentifier for Windows*

## **Video Imaging Identification System**

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Imaging Technology Corporation

428 Main Street

Hudson, Massachusetts 01749

[www.imaging-tech.com](http://www.imaging-tech.com)

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*What Is IDentifier for Windows?*

Welcome to IDentifier for Windows, the world's leading software for the creation of digital photo ID badges! IDentifier for Windows combines database, badge design, image capture, point-and-click hardware setup, and badge printing all from within one user-friendly interface. Here's a brief description of what this software package has to offer:

**Database**

- Based on Microsoft Access 2000, IDentifier for Windows can store up to 100,000,000 records
- Attach to ODBC databases
- Personal information is entered in standard text fields using Windows' "point and click" interface
- User-definable database fields
- Perform searches for single records or groups of records
- Create completely customized reports of your data
- Import and export data to and from another database file
- "Repair and compact" utilities included for database integrity

- User accounts and passwords for database security
- More...

**Badge Design**

- Design badges in a WYSIWYG window
- Badges are printed exactly the way they appear in the design window
- A “Toolbar” for quick access to commonly used commands
- Image “ghosting” and “see through”
- Unlimited badge designs
- Export card layouts
- PDF417 2D bar code
- Datastrip Superscript 2D bar code
- Single- or double-sided badge design
- Rotation of text, images, bar codes, and badge
- Up to 300% ZOOM in the design window
- Create Rosters with text, photos, headers and footers
- More...

**Image Capture and Display**

- Capture portraits, fingerprints or signatures
- Import images
- Images are immediately available for preview and printing
- Images accessible to other applications
- Up to 30 images per record, and use all images in badges and rosters

**Hardware Setup**

- Use any TWAIN or Video for Windows input device
- Use any PVC card or Sheet printer which uses a Windows printer driver
- Point and click configuration of hardware options



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## Minimum Requirements

### Badge Printing

- Print badges at the click of a button
- One-at-a-time or Batch printing
- Sheet printing

### Optional add-on modules

- Expert Image Export (export select images)
- Expert Data Export (export data from select fields and for selected records)

---

## *Minimum Requirements*

Please verify that your computer meets the following requirements before installing *IDentifier for Windows*:

**Operating System:** You must be running Windows 95/98/2000, or Windows NT 4.0

**CPU (central processing unit):** You must have a Pentium-level CPU running at 133 MHz or higher.

**RAM (random access memory):** You must have a minimum of 32 megabytes of RAM. Best results are obtained with 64 megabytes or more.

**Hard Disk Space:** You must have up to 90 megabytes of free hard disk space depending on which installation options you choose.

- The *IDentifier for Windows application* requires approximately 45 megabytes of disk space. In addition, extra disk space is required to store individuals' images. Typically, a single portrait is 10K-12K. Therefore, if you have 500 individuals, you will need an additional 5,000K-6,000K of disk space—or 5-6 megabytes—to store their portraits. Storing fingerprint and signature images requires additional disk space.
- *IDentifier for Windows* uses a “runtime” version of Microsoft Access 2000 as its database engine. If you do not already have the “runtime” version of Access, the installation wizard will install this 43 megabyte application.

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## Introduction

- The *IDentifier for Windows on-line User Manual* (in PDF format) requires approximately 2 megabytes of disk space.

**Video Capture Card:** While some cameras connect to your computer through a serial or Universal Serial Bus (USB) port, others require you to install a separate video capture card. Consult your camera's documentation.

**CD ROM:** IDentifier for Windows only installs from a CD. Your PC must have a CD ROM drive.

## Keyboard and Mouse

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### *What's On the CD*

The IDentifier for Windows CD contains:

- *The IDentifier for Windows application and Access Runtime files.* Installing this application will copy all the files needed to run our photo ID badging system.
- *IDentifier for Windows interactive tutorial.* This provides a simulation of the application and offers a great overview and introduction for first-time users. Accompanying text and "tool tips" explain how to use the various aspects of the IDentifier for Windows application.
- *On-line User Manual.* This manual has been converted to a Portable Document File (PDF). Once installed onto your computer, you can read the "electronic" version of this manual. If you do not have Adobe's free Acrobat Reader, you may also install this from the CD.

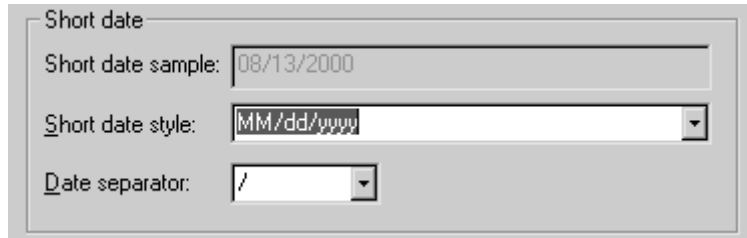
When you run IDentifier for Windows's Setup Wizard on the CD, you will be presented with the option to install any or all of these components.

---

### *Year 2000 Compliance*

IDentifier for Windows is Year 2000 compliant, but only if the following setting has been made:

Go to Windows Control Panel folder (Start  Settings  Control Panel) and double-click Regional Settings. Click the Date tab. Select MM/dd/yyyy for the Short date style. You must now use four-digit year dates in all IDentifier for Windows date fields.



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### *Five Versions of IDentifier for Windows*

IDentifier for Windows comes in five versions: Level I, Level II, Level III, Education Edition I, and Education Edition II. The difference between them is the absence or presence of “features”—features which enhance and make more robust the IDentifier for Windows experience.

The features are controlled by the “security key” or “dongle” that comes with your software. The dongle plugs into the printer port on your computer. The software will not work without it. The keys are clearly marked “Level I,” “Level II,” “Level III,” and “Education I” and “Education II.”

As you read this manual, you may see screenshots or read about features of IDentifier for Windows that are different from what you see on your own monitor. That is because you are running a lower level key and the features are not present. We have tried to indicate clearly through use of icons in the margins of this manual which application features are associated with which “levels.”



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### *Best Practices*

There are some simple procedures which can enhance your experience with IDentifier for Windows and save you from grievous headaches. The developers of IDentifier for Win-

dows strongly encourage you to make these “best practices” a regular habit—a part of your weekly routine.

## **Backup, Backup, Backup!!!**

Enough said? You’d think so. But sadly, we receive all too many phone calls from customers whose computers crashed because of a power outage, lightening strike, corrupted registry, or some other “act of God.” They ask pathetically, “How can I get my database back? Where are all my pictures?”

The question is not “will my computer crash?” but “when will it crash?” For customers who use IDentifier for Windows every day, please get into the habit of backing up the C:\ITC directory (or in a networked installation, the directory containing the shared database and image files) every day. For those who use IDentifier for Windows less rigorously, please get into the habit of backing up your database weekly. When your computer does crash, you can restore your data in a matter of minutes, with the loss of only a little data representing what was entered since your last backup.

There are a variety of relatively inexpensive backup methods. Please consult your IT specialist if you have one. Otherwise, a good salesperson at your local Computer Store can assist you. If you faithfully follow this advice, **YOU WILL THANK US!**

## **Repair and Compact**

One of the simplest ways to recover from what at first seems like a near disaster is to perform a “repair and compact” from Windows desktop. You see, it’s still a fact of life in computing that for both known and unknown reasons, computer files become damaged and corrupted. Sadly, IDentifier for Windows is not excluded from this reality.

IDentifier for Windows’s Technical Support department receives numerous calls for help for which a simple solution is given: exit out of IDentifier for Windows if it is currently open, and from Windows’ START button, navigate to the IDentifier for Windows program group and run REPAIR IDENTIFIER FOR WINDOWS APP and REPAIR IDENTIFIER FOR WINDOWS DAT. The “App” is the application itself. The “Dat” is the database table containing all the actual data. (You will learn how to do this in “Repairing and Compacting” on page 139.)

We recommend that you run the “repair and compact” utilities weekly. Again, trust us—you’ll thank us! It may prevent crashes from occurring, keep your database lean and mean, and help you recover when the program appears to be acting strangely.

## **Empty Your Temp Folder**

It is very likely that many of you reading this will ask, “What’s a ‘Temp folder’?” The Temp folder is a folder inside the Windows directory on your hard drive where many programs store files that are used only temporarily. Programs that create these files are supposed to delete them when they are no longer needed. But we do not yet live in a perfect world, and for the uninitiated, a trip to Windows Explorer will surprisingly reveal umpteen megabytes of useless files still lingering there.

There is a curious relationship between the presence of these files, the way they affect memory (RAM), and their effect on other running applications. Therefore, we recommend that you make a habit of deleting the contents of the Temp folder on a weekly basis.

You may fear deleting some files...their names may sound cryptic, important, or even critical, and some files may refuse (!) to be deleted, scaring you further. Here is the simple truth: anything remaining in the C:\Windows\Temp folder after a fresh reboot is absolutely unnecessary and a perfect candidate for deletion. And a file that won’t be deleted the first time WILL be deleted after a reboot of your computer.

Save yourself some aggravation: Delete your temporary files regularly.

Now that you have taken the oath to follow these “best practices,” turn the page to begin your IDentifier for Windows experience!



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IDentifier for Windows uses a “wizard” to guide you through the steps for installing the software. Note: If you intend to install IDentifier for Windows in a networked environment, each computer must “map” the shared network drive onto which certain files must be copied before installation. (Your Network Administrator must create a network directory which will contain the database and image files, and assign full Read, Write and Delete privileges to it. Though he or she may name this directory anything, for simplicity’s sake, we suggest you name it “ITC.”) To “map” the drive, double-click the “Network Neighborhood” icon on your desktop. All available network resources are displayed. Double-click the workstation/file server where your Network Administrator created the shared directory, then right click on the folder representing the hard disk. Choose “Map Network Drive” from the pop-out menu. Allow Windows to assign a drive letter, and ensure that “Reconnect at logon” is checked.

*Note to Windows NT and 2000 users: Before you install IDentifier for Windows, you must logon to Windows with full Administrator privileges. If you do not logon with Administrator privileges, required software keys will not be written to Windows’ registry and IDentifier for Windows will not run properly.*

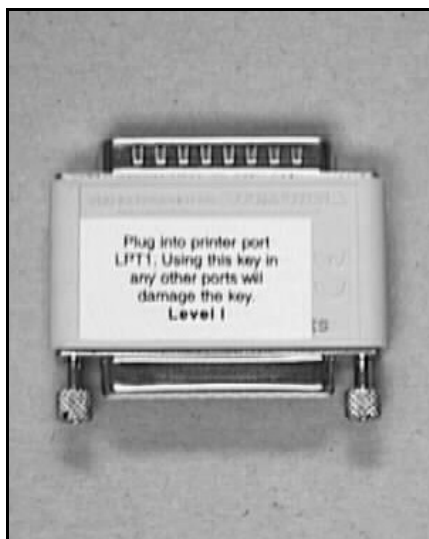
1. Insert the IDentifier for Windows CD in your CD ROM drive. If “auto insert notification” is enabled in the Device Manager tab of your System control panel, IDentifier for Windows’s installation wizard will automatically begin. If the installation wizard does not begin automatically, open Windows Explorer

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## Installation

and browse the IDentifier for Windows CD. Double-click on the file named “Setup.exe.”

2. Follow the on screen prompts.
3. You will be prompted to mark a “Network” check box if you wish to install IDentifier for Windows in a networked environment. If you check that option, you will be prompted to enter the drive letter and path to the directory your network administrator created earlier.
4. Repeat this at every workstation on which you will run IDentifier for Windows. At subsequent workstations, the setup wizard will detect that the IDentifier for Windows database has already been installed on the network drive. You will be prompted to overwrite the database. Click “No” at that prompt—do not overwrite the database. Proceed as usual.
5. A “security key” was shipped with your software. You must attach it to the LPT1 paral-



lel printer port for each computer running IDentifier for Windows. (Each “security key” has a unique serial number. After you install IDentifier for Windows, the serial number of the key can be displayed by pulling down the HELP menu in any application window and selecting ABOUT.) If your printer is currently connected to your computer’s LPT1 port, unplug the printer’s cable and attach the security key in its place. The security key has a female connector at one end and a male connector at the other. It will only attach to your computer one way. The printer’s cable may now be reattached to the back of the security key. (*Note: IDentifier for Windows will not operate without*



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*this key. IDentifier for Windows also may not work if your printer is plugged into the security key and the printer's power is OFF. Either attach your printer to another parallel port, or always keep your printer's power ON when using the IDentifier for Windows software.)*

The setup wizard will create a program folder and program icons for IDentifier for Windows in the Programs section of Windows' START button.

While you are now ready to begin using IDentifier for Windows, it will not be optimized for use until you have set some program preferences and instructed the program to use your specific cameras and printers. Therefore, first-time users should carefully read the next chapter, "Tools," before continuing.

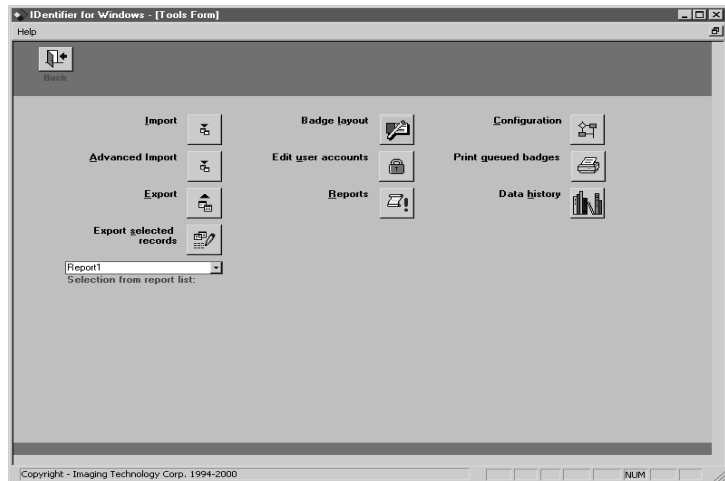
*Note: When you launch IDentifier for Windows, you are presented with an initial Logon window. The User Name and Password fields are disabled; a short message in the body of the Logon window explains that "logon" is disabled until a user account with "System Administrative" privileges is created. Do not worry—you will learn about this in "User Permissions" on page 19.*





You arrive at the Tools window by clicking **TOOLS** in the Search window.

The Tools window is where IDentifier for Windows’s “tools” are located, e.g., importing and exporting databases, designing badge layouts, setting application preferences, etc. The following window appears allowing access to different application functions:



*Tools Window*

---

## The Tools Window

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Returns you to IDentifier for Windows's "home" page.

BACK



Opens a standard Windows Open dialog to navigate to a text file containing data exported from another database. IDentifier for Windows will import all the data. (See "Importing" on page 119.)

IMPORT



Takes you to an Advanced Import window in which you have a variety of options for importing or updating data in your database. You may import from either a text file or directly from a Microsoft Access database. (See "Advanced Import" on page 121.)

ADVANCED IMPORT



Level I  
EDU I  
Level II



Will export the entire database (text only) to a comma-delimited ASCII text file. (See "Exporting" on page 117.)

EXPORT



EXPORT SELECTED  
RECORDS

Allows you to export a specified set of records to a comma delimited ASCII text file. The EXPORT DELIMITED TEXT file button is disabled until you tell IDentifier for Windows which records you want to export. Use the SELECTION FROM REPORT LIST BUTTON immediately below to do this.

Selection specification is a "pick list" displaying the names of your Reports. (See "Exporting a Group of Records" on page 118.) Selecting a Report from this list will use its query to specify which records will be exported.



Level I  
EDU I  
Level II



Opens a "badge design" window in which you may create your ID badges in a graphical window. (See "Badge Design" on page e83.)

BADGE LAYOUT



Takes you to a User Permission window in which you create "user accounts"—user names, passwords, and application privileges. (See "User Permissions" on page 19.)

EDIT USER ACCOUNTS



Takes you to a Reports window in which you may create, edit, and print reports. (See “Reports” on page 133.)

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#### REPORTS



Takes you to a Configuration window where you may configure your application options. (See “Configuration” on page 25.)

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#### CONFIGURATION



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#### PRINT QUEUED BADGES

Will immediately print the contents of the “print queue.” (If you selected “Batch print” and “Always queue” in the Printer Options Dialog of IDServer Setup, clicking a record’s PRINT button sends the badge to the print queue instead of to the card printer. See “Printer Options dialog” on page 53.)



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#### DATA HISTORY

Takes you to a Data History window where you may view a log of record and application events. (See “History” on page 141.)



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#### ADD-INS

Opens a selection window allowing you to launch custom “mini-applications” which add functionality to Identifier for Windows. (Add-ins may be present in the higher versions of our software, and may be purchased and installed separately for the lower versions.)



Level I  
EDU I  
Level II

Though you may access and use any of the tools at any time, you will want to visit several areas first in order to optimize Identifier for Windows for your personal use:

- User Permissions (to create “user accounts” and set application “permissions”)
- Configuration (to set program preferences)
- IDServer Setup (for camera and printer setup)
- Database Management (to modify database fields)
- IDLayout (to design badges)

The chapter sections which follow will describe each of these program areas.





You arrive at the User Permissions window by clicking **TOOLS** ➤ **EDIT USER PERMISSIONS**.



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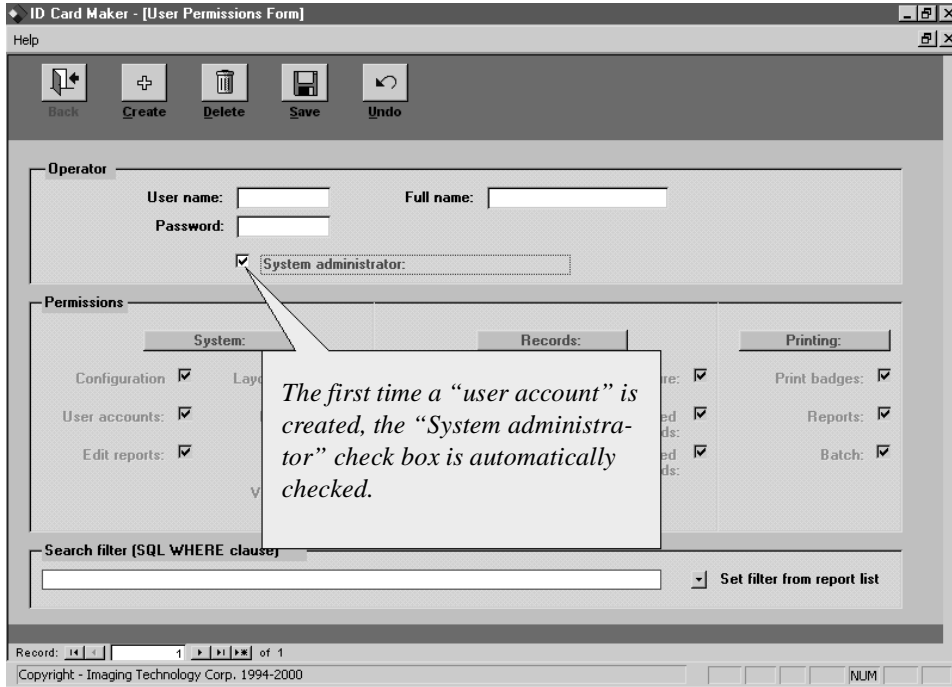
### *User Accounts and Passwords*

Through its use of a secure logon, IDentifier for Windows allows you to have control over who is able to access the IDentifier for Windows application. This prevents unauthorized users from creating, editing or printing badges and reports. This discussion is intended for those few individuals who will have permission to create “user accounts.”

A record is created in a hidden table for each authorized “user” of IDentifier for Windows; a “user name,” initial “password,” and “access options” are entered into each record. Only someone with permission to access specific application functions (e.g., create, delete, print, etc.) is allowed to use them. The application administrator may assign an initial password for each user, but users may change their passwords at any time thereafter. Though the application administrator can never “read” a user’s password (passwords always appear as asterisks), he or she may over-write or delete a user’s password at any time, or delete the “user account” (record) entirely, thereby denying that individual access to the application.

When you logon to IDentifier for Windows for the first time, the User Name and Password fields in the Logon window are disabled, indicating that a “System Administrator” has not yet been created. To “secure” the application, that is, force the initial Logon window to require user names and passwords, at least one user account with “System administrator” privileges must be created (see below). If all “user accounts” enjoying “System administrator” permission are deleted, the logon window will stop forcing the use of user names and passwords. This

is a visible reminder that at least one “user account” must be created which has over-all access to the database.



## Create a User Account

The first time you click the EDIT USER ACCOUNTS button, an empty User Permissions window appears. CREATE, DELETE, SAVE, and UNDO buttons are located at the top.



Creates a new “user account.” Each “user account” is denoted by a “record number” at the bottom left of the User permissions window.

CREATE



Deletes the current “user account.”

DELETE



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## User Accounts and Passwords

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When a “user account” has been created or edited, the SAVE button saves the changes.

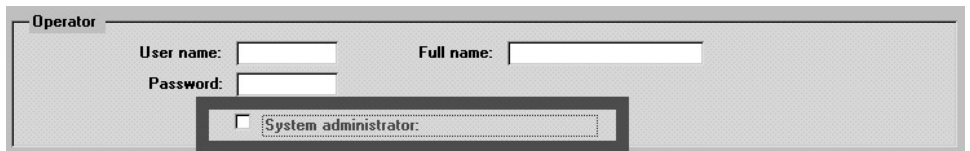
SAVE



This button undoes the last action taken in a “user account.”

UNDO

Click the CREATE button to create a record for yourself. An “Operator” box in this window contains text fields. Enter a “user name” up to 8 characters in the UserName field. This is the name you will enter when you logon to IDentifier for Windows. Enter a descriptive name for the user in the Full Name field (e.g., first and last names, or employee ID, etc.), up to 50 characters long. Enter a password, up to 15 characters, in the Password field. *Passwords may be alphanumeric and are case sensitive!*



Operator

User name:  Full name:

Password:

System administrator:

There is a “System administrator” check box labeled in red. At least one person must have this option checked. It forces the use of User Names and Passwords at the initial Logon window. Until a System Administrator for IDentifier for Windows is assigned, *anyone* may launch IDentifier for Windows to create records and print badges. *Important! Only someone with System Administration permission is able to access the Database Management portion of IDentifier for Windows. Database Management is where the System Administrator may modify database fields, and create, copy or attach to Microsoft Access or ODBC databases. (See “Database Management” on page59.)*

Below “Operator” is a “Permissions” box. This section contains check boxes to enable or disable access to application functions. A function is enabled for a user when its box is

checked. (Click the SYSTEM, RECORD, or PRINT buttons to enable or disable *all* the options below them.)

Permissions		
System:	Records:	Printing:
Configuration <input type="checkbox"/>	Edit records: <input type="checkbox"/>	Print badges: <input type="checkbox"/>
User accounts: <input type="checkbox"/>	Delete records: <input type="checkbox"/>	Reports: <input type="checkbox"/>
Edit reports: <input type="checkbox"/>	Create records: <input type="checkbox"/>	Batch: <input type="checkbox"/>
Layout badges: <input type="checkbox"/>	Image capture: <input type="checkbox"/>	
Export text: <input type="checkbox"/>	View protected fields: <input type="checkbox"/>	
Import text: <input type="checkbox"/>	Edit protected fields: <input type="checkbox"/>	
View history: <input type="checkbox"/>		

The individual permissions are:

Configuration	This permission allows you to use all the tools in the Configuration window (e.g., Program Preferences, Database management, IDServer Setup, etc.).
User accounts	This permission allows the user to create, edit and delete user accounts.
Edit reports	This permission allows users to create and edit the queries upon which reports are based.
Layout badges	This permission allows the user to open and use the IDLayout badge design utility.
Export text	This permission allows users to export data in the Identifier for Windows database to an export text file.
Import text	This permission allows users to import data from another database into the Identifier for Windows database.
View history	This permission allows users to view the Badge History, Record History and Program History if they were enabled.
Edit records	This permission allows users to edit data in the Identifier for Windows database.
Delete records	This permission allows users to delete records and their images in the Identifier for Windows database.
Create records	This permission allows users to create records in the Identifier for Windows database.
Edit protected fields	If you marked specific database fields as “protected,” only someone with this permission may edit them. The fields are otherwise un-editable. (See “Edit Field Definitions Window” on pag e63.)



Level I  
EDU I  
Level II



Level I  
EDU I  
Level II

---

## User Accounts and Passwords

---



Level I  
EDU I  
Level II

View protected fields	If you marked specific database fields as “protected,” only someone with this permission may view them. The fields are otherwise invisible. (See “Edit Field Definitions Window” on page63.)
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Image capture	This permission allows users to capture images.
---------------	---

---

Print badges	This permission allows users to print badges.
--------------	---

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Reports	This permission allows users to print reports.
---------	--



Level I  
EDU I

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Batch	This permission allows users to perform “batch” operations (i.e. apply actions to groups of records).
-------	---

At the bottom of the User Permissions window is a text field for creating a “Search Filter” using a standard SQL Where clause. (See “Searching with SQL” on page161.) For each user, you may elect to apply a filter which restricts the records a user may browse. For example, if you want to restrict a user to viewing only records belonging to the Engineering Department, you would enter: Department = “Engineering.” That user will only be able to view records where the word “Engineering” is entered in the Department field. Add additional fields as needed providing authorized users a range of records to browse. Alternately, select a query from a report using the SELECT FILTER FROM REPORT LIST pick list. The SQL from the selected report will act as the “filter” for the user account.

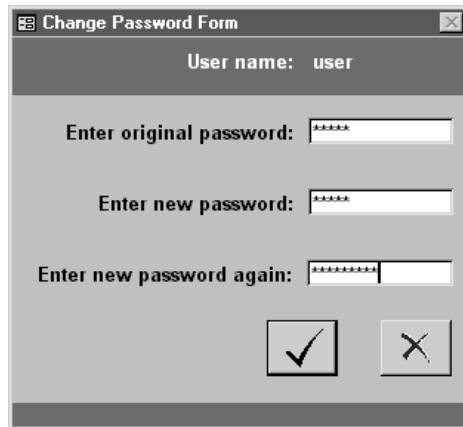
Create as many “user accounts” as you need. You may assign temporary passwords which the users may later change.



Users may change their passwords as soon as they logon to Identifier for Windows. At the opening “home page,” clicking the PASSWORD button opens a small window in which the

---

user enters their old, then a new, password. (The PASSWORD button does not appear until



A screenshot of a Windows-style dialog box titled "Change Password Form". The dialog has a dark header bar with the text "User name: user". Below the header, there are three text input fields, each with a label and a password mask: "Enter original password:" with a mask of six asterisks, "Enter new password:" with a mask of six asterisks, and "Enter new password again:" with a mask of seven asterisks. At the bottom of the dialog, there are two buttons: a checkmark button and a close button (marked with an 'X').

at least one "System administrator" user account is created.)

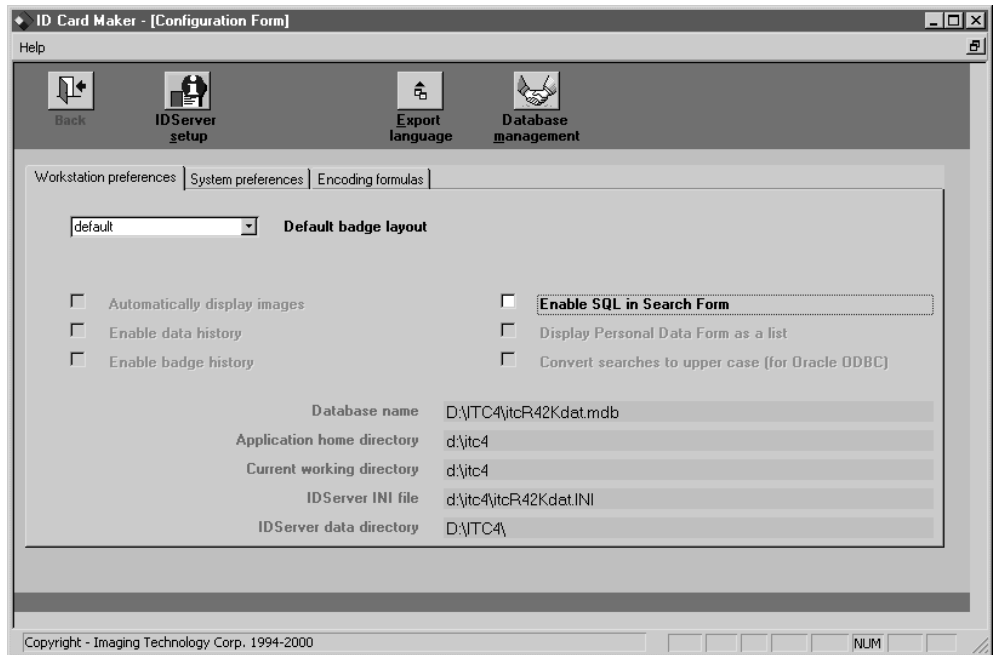
# Configuration



You arrive at the Configuration window by clicking TOOLS ➔ CONFIGURATION.



A number of application preferences are set in an area of our program known as Configuration.



Three buttons at the top of the Configuration window perform functions which require special user input.



#### IDSERVER SETUP

IDServer is the portion of IDentifier for Windows that is responsible for image capture and badge printing. This button takes you to a Setup window in which you set your preferences for “input” and “output” devices (e.g., cameras and printers), as well as other options. (See “IDServer Setup” on page39)



#### EXPORT LANGUAGE

IDentifier for Windows supports multiple languages. If an authorized dealer edited the words which appear in program alert messages, prompts, and Form labels, you may save the changes to a new "language file." Clicking Export language opens a window listing the installed language files. Select the language file you wish to update. Our program will create a new language file using the modified words, and name it LanguageNEW (where Language is the language you selected in the Language Export window (e.g., SpanishNEW, ItalianNEW). (See “Changing Languages” on page 145)



#### DATABASE MANAGEMENT

IDentifier for Windows has a number of “management” functions: creating, copying and saving databases, attaching to alternate Microsoft Access or ODBC databases, “importing” database fields from another database, as well as adding, deleting and editing individual fields. Only someone with “System administrative” privileges may access Database Management. (See “Database Management” on pag e59)

The main body of the Configuration window contains three tabbed properties sheets: WORKSTATION PREFERENCES (options applying just to the particular workstation), SYSTEM PREFERENCES (options applying to both a stand-alone system, and to all workstations in a networked environment), and ENCODING FORMULAS (text and data strings used for bar and magnetic encoding, as well as for other uses). (In a networked system, the System and Encoding formulas preferences need only be set once.) Clicking on the “tab name” opens that property sheet.

### Workstation preferences

Five non-editable text fields display useful information about the IDentifier for Windows application:

Database name	This field shows the name and “path” of the database file to which you are currently “attached.” That is, this is the file which contains the actual data in your database.
Application home directory	This field shows where the Identifier for Windows application is installed.
Current working directory	This field shows where the IDServer components are installed.
IDServer INI file	This field shows the name and “path” of the file which stores IDServer’s settings. (IDServer is the portion of Identifier for Windows which manages image capture, image retrieval and badge printing.)
IDServer data path	This field shows the “path” where IDServer will save and retrieve badge layout and image files used in a badge design.

Five preferences may be set to offer workstation-specific features and functionality. These options must be configured at each workstation running Identifier for Windows.

### Default badge layout

The Default badge layout preference allows you to simplify data entry by establishing a default badge type whenever a record is created. Select from the pick list the badge you



wish to use as the default. The list displays any “.bdg” (badge layout) files found in the folder you specified in the “Server data path.” (See “IDServer Setup” on page 39) When you create your own badge layouts, ensure that they are saved to the folder you specified in the “Server data path” field. (Until you create your own badge layouts, only the “default” badge will appear in this list. After you have created your badge layouts, you may wish to return to this Configuration window to specify a new default badge.)

---

In addition to listing all your existing badges, there are the following items in the Default badge layout pick list: [Expression1], [Expression2], and [Expression3]. Selecting any of



these items allows you to use the “expression” in that field to determine which badge is assigned to the individual. (The Expression fields appear on the Encoding formulas property sheet in this Configuration window.)

While the Configuration window doesn’t offer the ability to automatically insert “functions” the way you can in IDLayout’s Expression Builder (See “Expression Builder” on page 100), you may manually enter functions, operators and text. Note that all expressions must begin with an equal sign (=).

You may use any function and operator that is supported by Microsoft Access 2000. However, Imaging Technology Corporation only supports and warrants the following expressions:

<b>Expression1:</b>	=IIF(Department="technical","tech",IIF(Department="sales","sales","default"))
<b>Expression2:</b>	=CHOOSE(VAL(Department),"sales","tech","default")
<b>Expression3:</b>	=DEPARTMENT

**Expression1:**

This expression uses “nested if” statements. An “if” statement follows this syntax: iif (argument, result1, result2). In plain English, that means: “If such and such a condition is true, then make a certain result apply. Otherwise, if the condition is not true, apply a different result.”

The “argument” typically compares whatever is entered in a specified database field to a “value” (text, date or number) which you provide here. The syntax of the argument typically is: [database field]-[Boolean operator]-[“literal text”]. (Note: literal text must be enclosed within quotation marks.) In the example in the graphic above, Department=“technical” is the argument. That is, our program will look at every database record and see if the Department field contains the word “technical.” If “technical” does, indeed, appear in this field, then this expression will make the word “tech” appear in the Badge layout pick list in the Personal Data window. (This example assumes that 1) you have a



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badge designed specifically for individuals belonging to the Technical department, and 2) that badge is, in fact, named “tech.”)

If you only have two badge designs, “tech” and “default,” this expression would be easily written. “Tech” would be result1 and “default” (or the name of your other badge design) would be result2. The expression would be entered as follows:

```
=iif (Department=“technical”, “tech”, “default”)
```

However, if you have numerous badges associated with specific database fields, then you would use nested iif statements. The example in the graphic above inserts a second iif statement in place of result2. This second iif statement may contain yet a third iif statement in the location of *its* result2, and so on. The only difficulty in using nested iif statements is keeping track of the parentheses...each iif statement must have an opening and closing parenthesis. In the example in the graphic above, you can see there are only two iif statements. While the expression begins with just one opening parenthesis, it ends with two closing parentheses.

**Expression2:**

This expression uses the Microsoft Access “Choose” function. The Choose function will look for a number—1, 2, 3 and so on—in the specified database field, and enter the word you supply in quotes according to which order it appears in the expression. For example, in the graphic above, three words follow the database field “Department”: “technical”, “tech”, and “default.” “Technical” is the first word, “tech” is the second, and “default” is the third. If a record contains the number 2 in the Department field, then the word “tech” will be entered in the Badge layout pick list of the Personal Data window. If a record contains the number 3 in the Department field, then the word “default” would be displayed in the Badge layout pick list.

Obviously, this approach simply associates a specific number with a specific badge design. Use any field you wish to enter individuals’ badge design number.

**Expression3:**

This last example is perhaps the easiest to use. If you have badge designs specifically associated with individual Departments, then use the =Department (or other database field) expression. This expression assumes two things: 1) you have a different badge design associated with each Department, and 2) the badge designs have the identical name as the actual Department (e.g., the Accounting department is issued a badge named “Accounting.bdg” and the Engineering department is issued a badge named “Engineering.bdg”). Therefore, this expression will automatically insert into the Badge layout pick

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list the word entered in their Department field. And since that word is the appropriate badge name, the correct badge will be issued to him or her.

### Automatically display images

The automatic image display preference allows you to have captured images automatically display when opening a database record. If this option is not enabled, the image is

**Automatically display images**

not displayed until you click DISPLAY in the Personal Data window. This option may be toggled on or off as often as you wish.



### Enable data history

This preference “turns on” a history of “application events” as well as changes made to specific records. When ENABLE DATA HISTORY is “on,” a HISTORY button is displayed in the

**Enable data history**

Tools window. Clicking HISTORY presents a log of events at both the application and record level. At the application level, it records when users log on and off the system, which ones accessed specific portions of the application and from which workstation, and more. At the record level, it records every event occurring in a record: image capture, badge printing, database field edits, and more. Identifier for Windows does not begin creating a “history” until this option is checked.



### Enable badge history

This preference “turns on” a history of badge issues. When enabled, a HISTORY button appears in the Personal Data window. When clicked, it displays a “snapshot” of the data-

**Enable badge history**

base as it was each time a badge was printed. It allows you to “look back in time” at the data recorded in the various database fields at the time each badge was issued.



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### Enable SQL in Search Form



Level I  
EDU I

Selecting this option inserts two new search fields in the “home page” of IDentifier for Windows: “SQL WHERE clause” and “SQL ORDER BY clause.”



**Enable SQL in Search Form**

The “SQL WHERE clause” field allows you to create very customized searches of your database using common “SQL” (Structured Query Language) commands. The “SQL ORDER BY clause” allows you to custom-sort the results of a query. (See “Sorting with SQL SORT BY” on page162)

### Display Personal Data Form as a list



Level I  
EDU I  
Level II

Selecting this option changes your first “view” of database information from an IDentifier for Windows Personal Data form to a more conventional “table” displaying records in columns and rows. The view may be toggled between “form” and “table.”



**Display Personal Data Form as a list**

### Convert searches to upper case (for Oracle ODBC)



Level I  
EDU I  
Level II

This option will automatically convert text you enter in a search field to upper case. While searches in a Microsoft Access database are case-insensitive, Oracle and some other ODBC databases require text to be in all uppercase letters.



**Convert searches to upper case (for Oracle ODBC)**

## System preferences

Click the System preferences tab to view and set these options. System preferences are “global.” (In a stand-alone system, these settings control IDentifier for Windows on the local workstation; in a networked environment, these settings apply to every workstation running IDentifier for Windows and only have to be set once.)

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## Document Name for Print Manager

The Document name for Print Manager preference allows you to associate a dynamic database field with a print job. That is, whenever you send a badge to the printer, that print



job's "name" will appear in the Print Manager window with the contents of the field you enter here. For example, if you enter "LastName" (one of Identifier for Windows's fields) in this preference field and send John Baker's card to the printer, Windows' Print Manager will report that "Baker" is queued for printing.

## Alternate field for ImageID

Identifier for Windows automatically "names" each image with a serial number when it is captured and saved (e.g., 255.jpg), and inserts the "number-name" in the database field "ImageID." There may be times when you will want to name the captured image with the



contents of another database field, such as a person's Social Security number. In such a scenario, if a database record contains a Social Security number, that number will become the "name" of the portrait image file (e.g., 261-21-8273.jpg) when it is captured and saved, and that number will be inserted in Identifier for Windows's ImageID field. Once Identifier for Windows names a captured image, it uses that "name" in the ImageID field until the record is deleted from the database. There are some inherent dangers in using an alternate field:

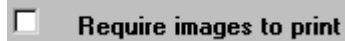
- The alternate field must be set to "Unique Index" in the Edit Field Definitions window. (See "Edit Field Definitions Window" on page63.) If a field, such as "Last-Name," is not set to Unique Index, Identifier for Windows will not know which "Baker.jpg" to display if there is more than one Baker in the database.
- Use of any field which does not consist of sequential numbers GREATLY reduces the functionality of Identifier for Windows's "Directory Tree" structure. The "Directory Tree" is hardly noticed by the end user, but enhances the speed of image retrieval and display. Identifier for Windows automatically creates subdirectories within the Portrait, Fingerprint, and Signature directories for every 1,000 images captured. The program was developed in such a way that, through the use of serial numbers and these subdirectories, images can be "found" extremely quickly—virtually instantly. If image names are not serial numbers, it may take a long time for Identifier for Windows to "find" an image and display it on screen or print on a badge.

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*Note: The database must be empty before this option can be enabled.*

### Require images to print

The REQUIRE IMAGES TO PRINT preference allows you to choose between making portraits optional or required when printing badges. If you leave this check box empty, cards may



be printed even though an individual's picture has not been taken. If you place a check in this box, IDentifier for Windows will not print an individual's badge until his or her picture has been taken.

Below the System preferences are some additional non-editable fields. These are for information only. Depending on whether or not you are attached to an ODBC data source, and other additional database configurations, these fields will display useful information.

### Encoding Formulas

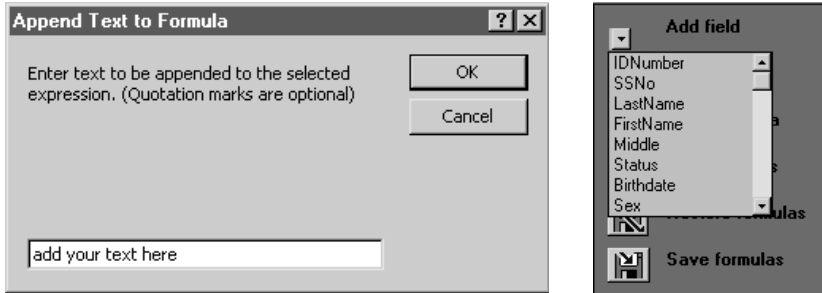
Click the Encoding formulas tab to view and edit these options. There are eight text fields for entering a variety of "encoding formulas" or "expressions" which dynamically combine data from database fields and/or literal text strings.

**Mag Track 1, 2, and 3:** In the Magnetic Encoding dialog of ID Setup (see "Encoding dialog" on page 55), you will enter prefixes and suffixes for the magnetic encoding fields instructing your printer when to start and stop encoding data. The Mag track fields *here* are where you tell IDentifier for Windows *what* to encode. You must know what data your access control software is looking for. (Note: if your data string is very long, it may not all appear in the mag track field window. Use the left and right arrow keys on your keyboard to "scroll" through the data string.) If you enter expressions containing "syntax" errors,

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Microsoft Access may not allow you to “leave the field” until the error is corrected. If you do not know how to correct the error, simply delete the contents of the field and try starting over.

Create the encoding formulas and expressions using the ADD FIELD and ADD TEXT buttons:



click in an encoding field or on its corresponding radio button to select it. Then click the ADD FIELD down arrow to display a list of all the database fields. Click the field you want to include in the formula. That field is inserted into the encoding formula. An ampersand (which links multiple values) is automatically supplied, allowing for placement of the next value. Add as many fields as your access control system requires. (You do not have to delete the last ampersand in the expression.) To insert static or “literal” text in the expression, click ADD TEXT. A small window appears allowing you to type the exact text required by your access control system. You do not need to enclose text in quotation marks in this window; Identifier for Windows supplies them automatically. (However, if you are inserting only blank spaces with no additional characters, the space characters must be enclosed within quotation marks.) Enter the fields and literal text in the order your access control system requires them. Each time you use ADD FIELD and ADD TEXT, the new values are inserted at the end of the data string. If you accidentally insert the values in the incorrect order, use cut and paste to rearrange the data string.

To manually create the encoding formulas: click in the encoding field or on its corresponding radio button to select it. Begin the expression with an equal sign (=). Type in field names or literal text in the required card reader order. Enclose literal text (that is, static text appearing on every card’s mag track) within quotation marks (“ ”); if the contents of specific fields are required, type the field names exactly as they appear in the database; use ampersands (&) between fields and literal text to link multiple values. In addition, you may use TRIM, LEFT, RIGHT and other Microsoft Access formatting features to select portions of a database field (such as the first three letters of a last name, or the year of a date of birth). (See “Field Formatting” on page 206.)

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Repeat these steps for each of the mag track fields your access control system require.

**Bar Code:** Follow the procedures above to encode data in the bar code field. Note, however, that like magnetic encoding, bar codes also require “prefixes” and “suffixes.” Bar code prefixes and suffixes are specified within IDLayout (“Bar Encoding” on page108). If your bar code font does not appear in the Encoding list in the Properties of Bar Code dialog of IDLayout, you must manually add the prefix and suffix characters to the Bar Code expression here. Insert the encoding characters as literal text (enclosed within quotation marks) at the beginning and end of your Bar Code expression.

**Both Names:** Identifier for Windows offers a database field called “BothNames” which links an individual’s first, middle and last names. You may customize how the BothNames field displays people’s names.

If you want:	You must type:	Explanation
Robert Smith	FirstName & “ ” & LastName	The quotation marks contain literal text—in this case, a space to separate the two names.
R. Smith	Left [FirstName, 1] & “. ” & LastName	Left [fieldname, 1] is a formatting command that instructs Identifier for Windows to extract the first letter of the database field “FirstName.” The quotation marks enclose a period and space after the first letter of the first name.
Smith, Robert	LastName & “,” & FirstName	Enter the fields in the order you wish them to appear. The comma and space enclosed in quotes separate the two names.

If you want:	You must type:	Explanation
<i>If you want to use a nickname, if present, instead of a first name, use a conditional “if” statement like the following:</i>		
Bobby Smith  or  Robert Smith	= iif (NickName = NOT NULL, NickName & “ ” & LastName, FirstName & “ ” LastName)	The “iif” statement presents an “argument.” If the argument is true, “result1” will occur; if the argument is false, “result2” will occur. The syntax is as follows:  iif (argument, result1, result2)  The expression in this example is interpreted in plain English as follows: If the NickName field is not empty (i.e., contains data), then add the contents of NickName, plus a space, plus the contents of LastName; otherwise, use the contents of FirstName, plus a space, plus the contents of LastName. (Of course, you must have a “NickName” field in the database for this expression to work.)

**Expression 1, 2 and 3:** Identifier for Windows provides three additional fields called Expression 1, 2 and 3 which you may use in your badge layouts or as the basis for selecting a default badge type each time a record is created. You may create expressions in the same manner as mag track and bar code encoding fields. Use ADD FIELD and ADD TEXT or type the data strings to create custom strings of information.

When you finish entering all your formulas and expressions, click TEST FORMULAS. Identifier for Windows verifies the syntax and integrity of each of the formulas, presents a window confirming the results, and displays a sample of each formula (extracted from the first record in the database).



In addition, you may save your formulas to a text file by clicking the SAVE FORMULA button. A standard Windows Save dialog opens allowing you to name and save the formulas. To use formulas that you previously saved, click RESTORE FORMULAS. A standard Windows Open dialog allows you to navigate to the encoding formulas file you previously saved. *Note: If you change the names of database fields in the Edit Field Definitions window and rebuild the User Field table( See “Modifying Tables and Forms” on page61,) your formulas here may no longer “match” the field names in the database. Always verify*





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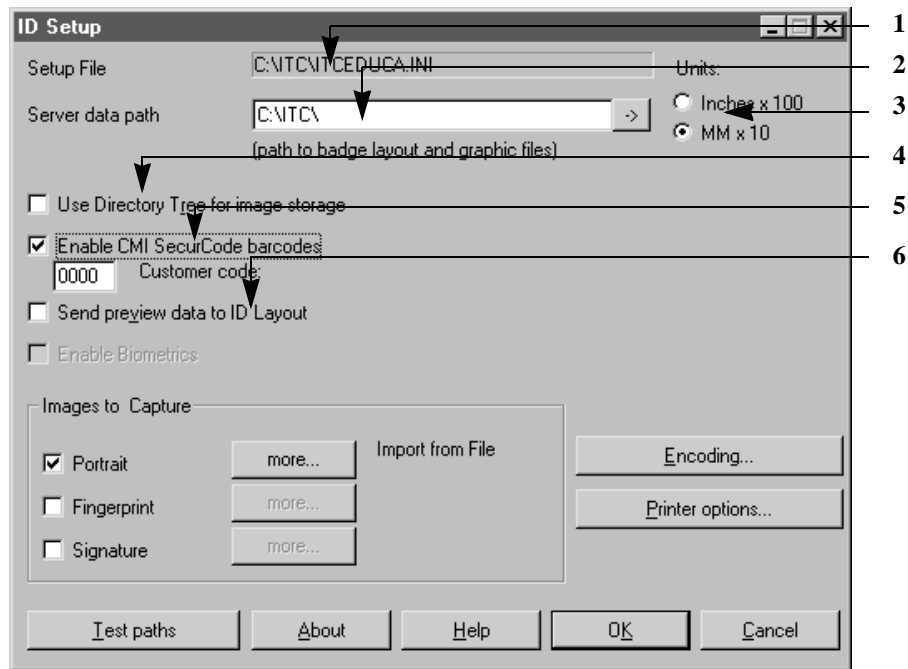
*that the field names used here in the Encoding Formulas of Configuration match the actual field names used in the database.*



# IDServer Setup

You arrive at IDServer Setup by clicking **TOOLS** → **CONFIGURATION** → **IDSERVER SETUP**.

IDServer is a utility that configures your image capture and printer settings. You may not capture or view images until you have run the IDServer setup program. When you click IDSERVER SETUP an ID Setup window appears.



- 
- 1) The path and name of the SETUP FILE is identified at the top: C:\ITC\ITCdat.INI. (The path may differ if you did not accept the default installation directory.) Any changes you make here in ID Setup will be written to this file.
  - 2) The IDSERVER DATA PATH is where IDentifier for Windows stores and retrieves images, badge and sheet layout files, as well as “field definition” and “language” files. (See “Database Management” on page 59 See “Changing Languages” on page 145) However, you must *tell* IDentifier for Windows where on your disk or network you want these images and badge files to be stored. Ordinarily, the **Server data path** defaults to the directory where IDentifier for Windows was installed. IDentifier for Windows will automatically create separate Portrait, Fingerprint and Signature directories to store your portrait, fingerprint and signature images inside this directory, though you may elect to store them elsewhere on your hard disk or network. (See “Graphics Definition dialog” on page43) If you specify a different directory as your **Server data path**, you must enter that path on each computer in the network running IDentifier for Windows.
  - 3) The UNITS: (Inches vs. Millimeters) radio buttons allow you to specify whether measurements related to captured images and badge size default to metric or English standard.
  - 4) The USE DIRECTORY TREE for image storage check box allows you to improve the speed and performance of image retrieval. Many operating systems handle file systems (storage and retrieval) inefficiently; they begin to experience sluggishness if they have to search for a specific file (in this case, the individual’s portrait, fingerprint or signature) within a directory or subdirectory containing more than 2,000 files. Checking this box instructs IDentifier for Windows to automatically create additional subdirectories as needed for every 1000 image files that are created. (These subdirectories will be located inside the Portrait, Fingerprint, and Signature folders which are created automatically when you mark the check box to capture their images.) In this way IDentifier for Windows will be able to search more quickly for and retrieve images.
  - 5) If you use CMI’s SecurCode bar code reader and bar code fonts, turn them “on” by checking the ENABLE CMI SECURCODE BAR CODES check box. SecurCode bar code fonts offer increased security by appending to the database’s bar code field an additional set of SecurCode characters encoded and read by the card reader using this system. Enter the additional characters (text or numbers) to be appended to the bar code field in the “Customer Code” field which appears immediately to the right when the box is checked. That “string” will now be added to the contents of the bar code field, and will display in the SecurCode font.

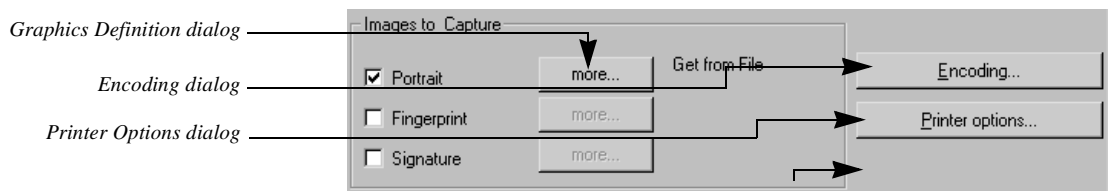




Level I  
EDU I  
Level II

- 6) The SEND PREVIEW DATAE TO IDLAYOUT option allows you to view actual data from the database (i.e., images and text) when you place text and image objects on a badge layout as you design badges. When you check this option, an alert window informs you that the data (text and images) *from the next record whose badge you preview in the Personal Data window* will be used for display purposes in the badge design program. Identifier for Windows will “read” the data in that record and write it to a text file (“Lpreview.txt”) in the IDServer data path; when you select the “Preview” option in IDLayout, the application will “read” Lpreview.txt and use its information to “fill in” the badge objects. To later change the “sample” record, return to ID Setup and place a new “check” in this option. You will be prompted again that the *next* record you preview will be used in IDLayout. Use caution when selecting a record for badge preview; that record is “unsecured” in that anyone with permission to edit badge designs may view the contents of any database field placed, even temporarily, on the badge.
- 7) Check the BIOMETRICS box if you purchased and installed the separate “Biometrics” package from Imaging Technology Corporation. This brings up a window in which you may configure your fingerprint searching and matching capabilities.

In addition to the settings and options that are configured directly within the IDServer Setup window, there are four additional “dialogs” or windows from which you may configure various hardware and software features:



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*Graphics Definition dialog*

The Graphics Definition dialog is used to select:

- which method you wish to use for either portrait, signature or fingerprint capture
- image size
- graphic file format
- hardware options
- software options
- the number of images you wish to capture

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*Printer Options dialog*

The Printer Options dialog is used to select:

- PVC card and sheet/paper printers
- print offset values
- print queue options
- enable Sheet printing

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*Encoding dialog*

The Encoding dialog is used to select the “start” and “stop” commands which instruct the magnetic encoder on your card printer when to start and stop encoding data, and to select a Smart Chip protocol for Smart Card encoding.

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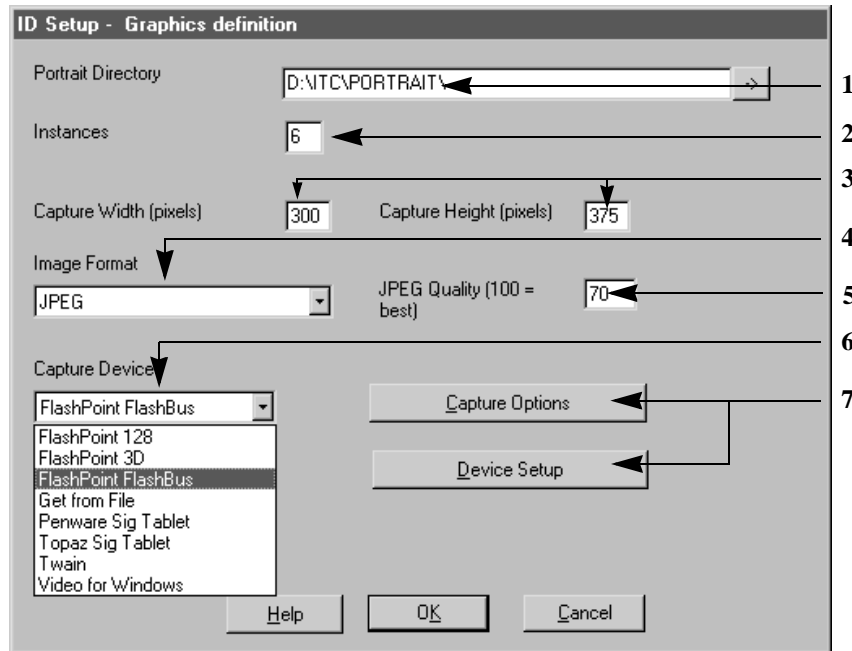
*Sheet Layout dialog*

While not a “hardware setup” dialog, the Sheet Layout dialog is used to design the number and positions of multiple badges on a single sheet of material. You access the Sheet Layout dialog from *within* the Printer Options dialog. If you check the “Use Batch printing option” check box and the “Use Sheet formatting option,” a new SHEET LAYOUT button appears.

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## Graphics Definition dialog

Open the Graphics Definition dialog by clicking a check box for the image-type you wish to capture (e.g., Portrait, Signature, or Fingerprint), then clicking the MORE button beside it.



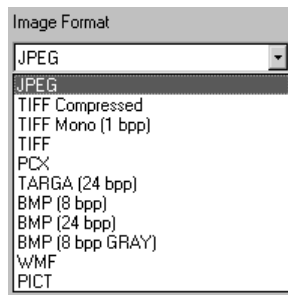
The Graphics Definition dialog offers the following options:

- 1) **PORTRAIT / SIGNATURE / FINGERPRINT DIRECTORY** This path points to your image files. If you entered a new path in the SERVER DATA PATH field in the opening IDServer Setup window and allowed Identifier for Windows to automatically write the paths to your images files, that path was automatically entered here. Otherwise, enter an alternate path to your Portrait, Signature and Fingerprint image directories.
- 2) **INSTANCES** The “Instances” field allows you to capture multiple images for each image type (Portrait, Signature or Fingerprint). Enter the number you wish to capture (from 1-10). If, for example, you enter “3” in the Graphics Definition dialog for Portraits, you will be prompted to take three portraits before you are prompted to capture signatures and/or fingerprints. (For example, you may take a picture of a student, his



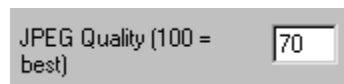
or her parent or guardian, and homeroom teacher. Any or all of the images may be used on badges and rosters.)

- 3) **CAPTURE WIDTH AND CAPTURE HEIGHT** Enter width and height parameters in these fields. We recommend a width of 300 and height of 375 for portraits (yielding a one inch by 1 1/4 inch image), width of 400 and height of 400 for fingerprints (yielding almost a 1 1/2 inch square image), and width of 900 and height of 300 for signatures.
- 4) **IMAGE FORMAT** You may select from the pick list the file format in which the image will be saved. We recommend that you save portraits as “JPEG,” fingerprints as



“BMP(8bpp GRAY),” and signatures as “TIFF mono.” (See “Graphic File Formats” on page 187 at the end of this manual for a table describing the characteristics of the graphic file formats Identifier for Windows supports.)

- 5) **IMAGE QUALITY** This option, only appearing if you selected JPEG as the file format, sets the balance between the image’s compression and image quality. (A lower num-



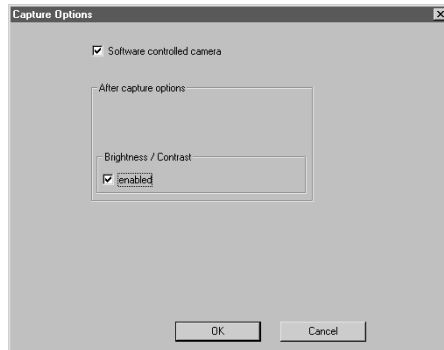
ber offers greater image compression at the expense of image quality. A higher number offers greater image quality, but a larger file.) We recommend that you accept the default value of 70 which produces image files in the range of 10k-12k for 300 x 375 pixel images.

- 6) **CAPTURE OPTIONS** The **CAPTURE OPTIONS** button in each of the Graphic Definitions dialogs offers options for cropping and enabling adjustment of image brightness and contrast. (Note: Use of the FlashBus, Flash3D, and FlashPoint 128 video capture cards in combination with the CCD 1000 video camera offers an additional option not available for other input methods: software controlled camera. If software controlled camera is enabled, you may control zooming, back light compensation, white bal-

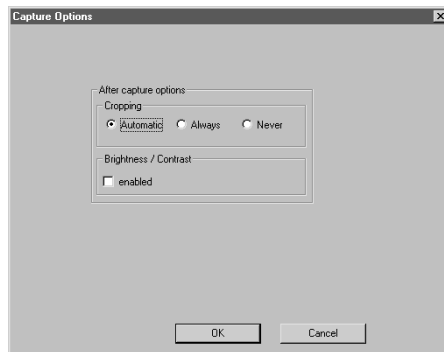


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ance, and other features of the video camera with the mouse and keyboard. FlashPoint does not offer a separate cropping option because it is built into the capture environment through its use of software-controlled zooming.)



*FlashPoint Capture Options*



*Options for all other capture methods*

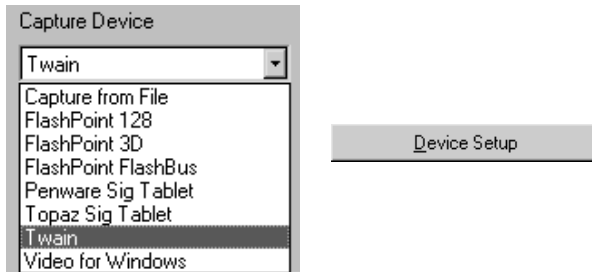
- a. Cropping:
  - i) AUTOMATIC If you capture an image at the same pixel size you established in the Capture Width and Capture Height fields above, the image will automatically be “cropped”—the entire image will be brought into IDentifier for Windows at that size. If the image is larger or smaller than specified in the width and height fields above, a cropping window will allow you to select a portion of the image.

ii) ALWAYS A cropping window will always appear allowing you to select a specific portion of the image to be used. The portion you crop is saved to the pixel width and height you set above.

iii) NEVER A cropping window will never be presented. The entire image will be saved.

b. Brightness/Contrast: If enabled, the cropping window will also contain slide bars for adjusting the image's brightness and contrast. Dragging the slide bars left or right changes the brightness and contrast in "real time." Clicking on the brightness or contrast buttons to the left of these slide bars will revert the image to its original capture attributes.

7) CAPTURE DEVICE AND DEVICE SETUP There are eight methods for capturing images: *Flash\* family of video capture cards, Video for Windows, TWAIN, Topaz Sig Tablet, Penware Sig Tablet or Capture from File.* For each image you intend to capture (portrait, fingerprint and signature), select your capture method from the Capture Device pick list. The input device you use (video camera, scanner, signature tablet, etc.) will have required you to install one of the driver-types listed here; the Get from File option allows you to import images previously captured and saved to disk. Each capture method offers its own Device Setup options when you click the DEVICE SETUP button.



a. FLASH\* FAMILY The DEVICE SETUP button brings up a tabbed Property Sheet allowing the selection of various camera options. A live video window displays on the right.

i) General Properties tab



- (1) Focus—Select either “Auto” or “Manual.” If “Manual” is selected, “Near” and “Far” buttons are enabled. (Click either “Near” or “Far” to start the focus—click a second time to stop the focus.)
- (2) Lighting—Select “None or Portrait” if you are not using a light, or are using a portrait light other than Imaging Technology Corporation’s AutoLite; select “Flash” if you are using a flash attachment; select “AutoLite” if you are using Imaging Technology Corporation’s AutoLite box.
- (3) Zoom—Click the “+” or “-” buttons to set the default level of magnification whenever a new capture window is opened. (You can always override the default during the actual image capture.) Clicking the “+” or “-” button once starts the zoom; clicking it a second time stops the zoom.
- (4) Camera Iris—If “Flash” was selected from the Lighting option, “Flash Iris” and “Flash Delay” become enabled. Drag the “Live Iris” slide bar to widen or narrow the camera’s iris to the desired result. Drag the Flash Iris slide bar to specify how much you want the iris to open or close after the CAPTURE button is clicked (toward the left closes the iris; toward the right opens the iris). Drag the “Flash Delay” slide bar to the left or right to specify how much time the flash should delay “firing” allowing your camera

time to widen or narrow the iris as specified above. (All the way to the left is minimal delay, all the way to the right is maximum delay.) Use the TEST button to test the coordination of iris movement and flash delay. The TEST button turns into a RESET button to reset the FlashPoint for another test.

- (5) Camera Back Light Compensation—Drag the slide bar left or right to set your desired back light compensation.
- (6) Color Control Wizard—Click START to start a wizard which will adjust the camera's white balance. Follow the wizard's prompts. Correct white balance is crucial to achieving correct colors in final image capture.
- (7) Camera Detail—Drag the slide bar left or right to adjust the desired level of detail.

## ii)Color tab



- (1) You may adjust the color settings for both the FlashPoint capture board as well as the camera.
- (2) Click the CAMERA SETTING radio button and adjust colors. Next, click the FLASHPOINT radio button and adjust colors accordingly.

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*Note: If you accept the default settings for the FlashPoint video capture board and FlashPoint driver settings, and properly set the white balance in the General Properties tab, you do not need to adjust the Color settings here!*

iii) Video tab

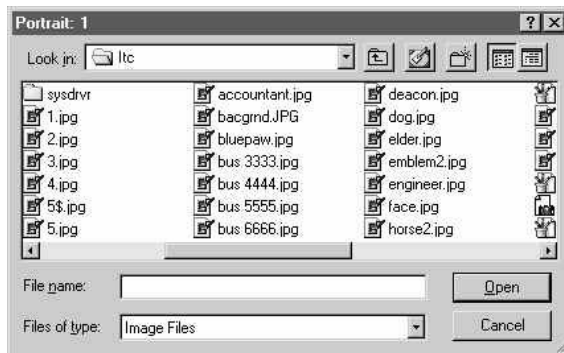


- (1) Source—Select your input source. (“Input 1” must be used with “Composite” format; “Input 2” must be used with “SVideo” format. If you “mismatch” source and format, the live video will disappear.)
- (2) Standard—Select either “PAL” or “NTSC.” (Use the “NTSC” setting within the USA; use the “PAL” setting within Europe.)
- (3) Format—Select “Composite,” “SVideo,” or “RGB.” (“RGB” requires custom camera and cabling.)

- iv) Advanced tab—only for advanced users, select options as required. (The default settings for the FlashPoint video capture board and FlashPoint driver should produce satisfactory results; additional settings should be unnecessary.)



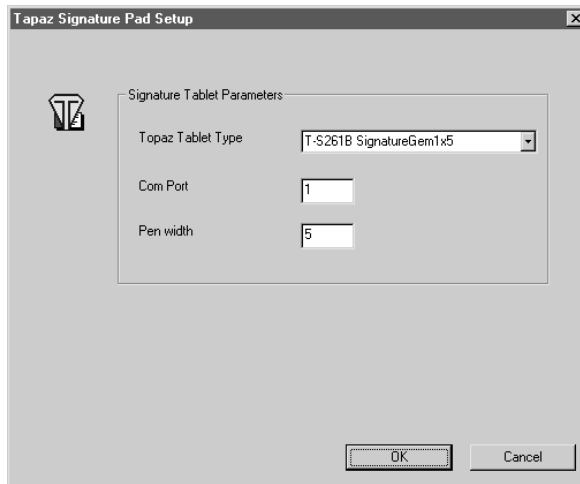
- b. CAPTURE FROM FILE When clicking Identifier for Windows’s CAPTURE button to take a picture, a standard Windows “open dialog” box appears in which you navigate to the image you wish to use in the database. No device setup options are available.



- c. TOPAZ SIG TABLET The DEVICE SETUP button for this type of capture brings up a small window allowing you to specify the type of tablet you have, the Com Port the tablet is attached to, and set the thickness of the “pen.” A smaller number yields a thinner “line,” while a larger number yields a slightly thicker signature (like the difference between a fine point and felt-tip pen). “10-15” is a medium

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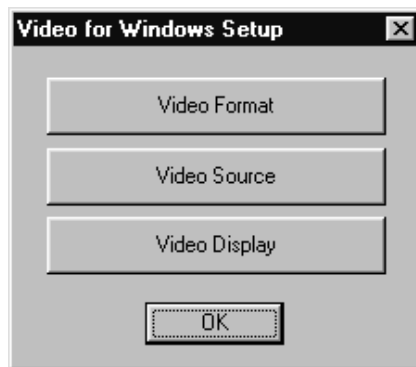
thickness; select a number between 1-25. Enter the Com Port number to which the SigGem signature tablet is physically connected. (The PenWare Sig Tablet's pen "thickness" setting is 1-5, with "3" being an average thickness.)



- d. TWAIN When you select TWAIN as the capture method, the Device Setup options presents you with a list of all TWAIN drivers installed on your computer. At the top of the list is the option Always Ask. If you select Always Ask, a selection window showing all available TWAIN drivers will appear every time you begin capturing an image. Otherwise, select the TWAIN driver for your camera or scanner from the list; this driver will always be used. Capture options, such as color, hue and saturation, are configured directly from your TWAIN hardware drivers at the time of capture instead of from ID Setup. The options differ from device to device.



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- e. VIDEO FOR WINDOWS The DEVICE SETUP button brings up a window displaying VIDEO DISPLAY, VIDEO SOURCE and VIDEO FORMAT buttons. The options available to you through these buttons are hardware dependent—each device driver will present its own windows and feature options. When setting the Video Display options, however, select “Full,” “Full Screen,” or “640 x 480” (this window may offer choices like 1/4, 1/2, or Full, referring to how large the image will be displayed on screen). This ensures the highest image quality when the image is brought into IDentifier for Windows.



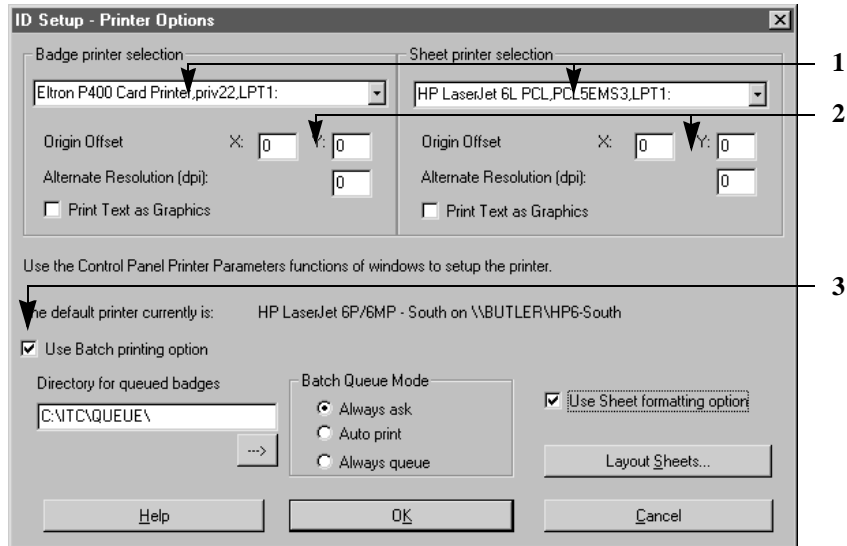
Click OK in each Graphics Definition dialog when you are done.



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## Printer Options dialog

Clicking the **PRINTER OPTIONS** button brings up the Printer Options dialog for specifying your printer settings. (Your printers' "printer drivers" must already be installed for them to be available in this dialog.)



- 1) There are two boxes at the top of the dialog: "Badge Printer selection" and "Sheet Printer selection." One is for selecting your card printer; the other is for selecting a printer for paper or sheet output. Click the down arrow in each box to select your card and sheet printer from the list of installed printers. *Note: Identifier for Windows will always default to the Badge printer unless the badge's width or height is greater than four inches, or the USE SHEET FORMATTING OPTION has been selected.*
- 2) In both the Badge and Sheet printer selection areas of the Printer Options dialog are fields for entering X and Y values for "Origin offset." This allows you to adjust how closely to the edges of the card or page your printer will print. The offset values are set to the upper left-hand corner of the card or page, and are measured in hundredths of an inch/millimeter. Leave these values set to "0" for now; you may adjust them later if your printed output is not satisfactory. To make the badge print more to the right, set the X Offset to a positive number (e.g., 5, 10, 15); to make the badge print lower on the card or page, set the Y Offset to a positive number. (Use negative numbers—such as -5—to make the badge print higher or more to the left.) Additionally, the "Alternate Resolution" fields in this portion of the window allow you to manually




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adjust the speed and memory requirements of the print process. A “0” in this field instructs Identifier for Windows to use the printer’s default resolution when rendering images. If your printer is able to print at extremely high resolution (1200 dpi, for instance), setting the “Alternate Resolution” to 300 or less will improve print speed and performance. Any value other than “0” overrides the printer’s default value.

- 3) Several more options are available at the bottom of the Printer Options dialog.
- a. Checking the USE BATCH PRINTING OPTION enables batch printing and makes three new radio buttons immediately appear in the Printer Options window under the heading BATCH QUEUE MODE. These radio buttons refer to queuing options:
    - i) the ALWAYS ASK option will present a user-input prompt each time you click a PRINT button asking if you want to print a badge now or queue it for later;
    - ii) the AUTO PRINT option is used primarily when printing exclusively to a paper printer. If USE SHEET FORMATTING is selected (see “b.” below), cards automatically bypass the selected PVC card printer and are sent to the sheet printer; printing does not begin, however, until enough cards have been queued to fill a sheet. If USE SHEET FORMATTING is not selected, the badge will be printed on the PVC card printer immediately.
    - iii) the ALWAYS QUEUE option will queue all badge print requests until you decide to print the contents of the queue.



If you do not select USE BATCH PRINTING, an individual’s badge will be printed immediately after you click a PRINT button. If you check USE BATCH PRINTING, Identifier for Windows will create a subdirectory named “C:\ITC\Queue” on the local workstation. If you wish to change the directory for where the queue will be

stored, use the BROWSE button  to enter an alternate path in the DIRECTORY field at the bottom of this window. You may change these options at any time by returning to this window.

- b. Check USE SHEET FORMATTING when you want to bypass the card printer and print your badges on preprinted badge forms or create and print rosters. With this option checked, Identifier for Windows sends the badge print request directly to the sheet printer you selected in Sheet Printer Selection (see above). This option may be checked and unchecked as often as your needs require. When you check this option, a new LAYOUT SHEET button appears. The LAYOUT SHEET button disappears when you deselect this option. (See “Layout Sheet dialog” on page 56)

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*Note that if you try to print a badge whose height or width is greater than four inches, IDentifier for Windows will automatically bypass your card printer and send the badge print request directly to the paper printer you selected in the Printer Options dialog.*

Though unrelated in a strict sense to IDentifier for Windows, we should mention the importance of verifying printer driver settings in Windows' Printers folder. The printer driver is a software utility provided by your printer manufacturer that allows it to operate in the Windows environment, but also allows you to set various options and preferences for how the printer functions (e.g., selecting either 300 dpi or 600 dpi output resolution). Installing the printer software is one of the first things you do when adding a printer to your computer.

Go to Start ➤ Settings ➤ Printers. The Printers folder opens, displaying all the printers whose drivers have been installed on your computer. Right-click on your PVC card printer in this window and select Properties from the context menu to open the Properties sheet. There is no single standard for how the printers' properties are presented to you. The Properties sheet may be "tabbed" offering easy access to configuration options; on older printer drivers, you may have to look for something like a SETUP button.

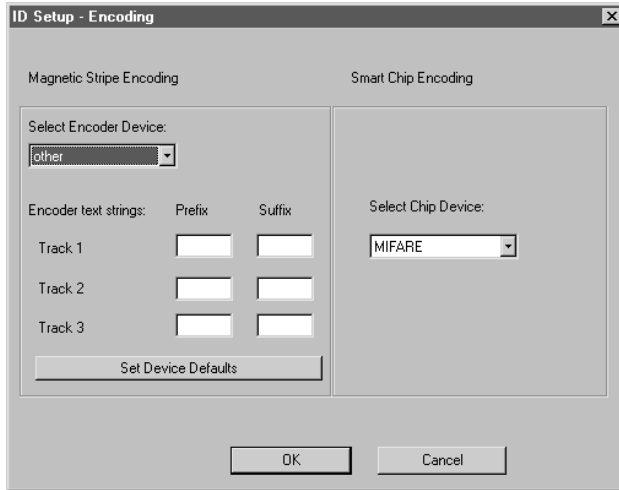
Note that this is where you will specify how many color panels your printer ribbon contains, and whether or not you using an overlay panel or protective laminate. Some printer drivers allow you to adjust temperature settings of the card printer's print head and lamination station. You should familiarize yourself with this property sheet. Because PVC card printers are so mechanical, they are the most likely source of problems in producing high quality photo ID badges. The printer driver is the first place to turn when trying to troubleshoot printing problems.

## **Encoding dialog**

When you click the ENCODING button, the Encoding dialog appears. If your card printer supports writing to a magnetic strip, you must specify "start" and "stop" characters instructing the printer when to start and stop magnetically encoding data. IDentifier for Windows has pre-configured the prefixes ("start") and suffixes ("stop") for common card printers. Select your printer from the pick list; the correct prefix and suffix is supplied. If your printer requires characters other than those supplied by IDentifier for Windows, enter the correct prefixes or suffixes for any of the three magnetic "tracks" your card reader

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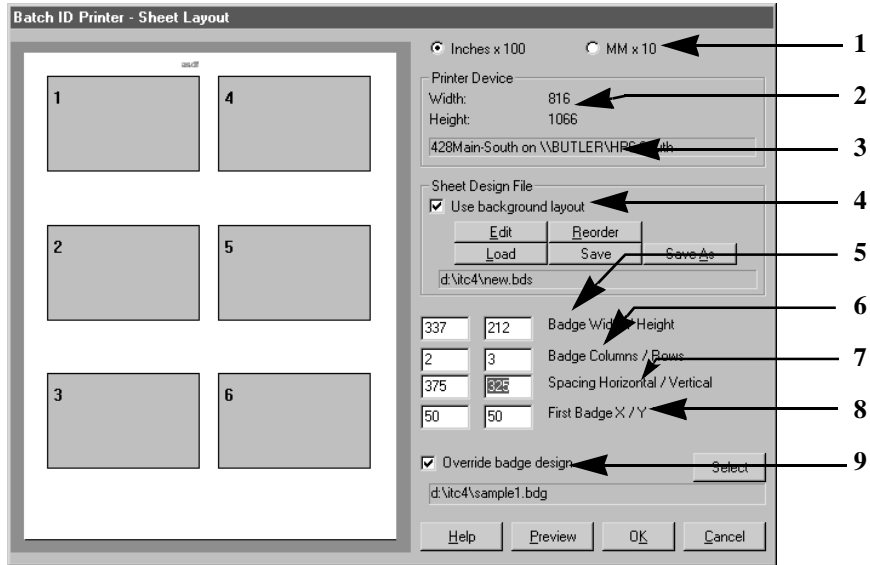
uses. (Refer to your card printer's documentation to determine whether other prefixes or suffixes are required.).



## Layout Sheet dialog

The LAYOUT SHEET button is only available if you selected USE SHEET FORMATTING in the Printer Options dialog. The purpose of the LAYOUT SHEET option is to allow you to print more than one card on a pre-printed badge form or to create rosters. The left side of the Sheet Layout window shows a graphical representation of the sheet layout; the right side of the window contains fields for changing the layout.

*Note: Sheet Layout uses considerably more computer resources than printing a single badge on a PVC card printer. For example, a single badge containing a number of graphic images might result in a 1.5M print file. If a sheet layout contains 8 badges, the size of the print file jumps to 12M! Be aware, therefore, that if both your computer and printer do not have ample RAM, and you are running other applications in the background, unpredictable printing errors may occur.*



1. The INCHES and MM radio buttons allow you to select which unit of measurement to use when defining your badges on the sheet layout.
2. The WIDTH and HEIGHT values are derived from the printer driver of the printer selected in the Printer options dialog of IDServer Setup, and refer to the total printable area of the sheet printer.
3. The name of the printer selected as the “Sheet Printer” is identified.
4. The USE BACKGROUND LAYOUT check box allows you to add graphics and text in the Header and Footer area of the sheet layout. The first time you check this box, a Save As...dialog opens prompting you to provide a name for the Sheet Background Layout file you are about to create. Then IDLayout launches, displaying the sheet layout currently configured in the Sheet Layout dialog. Thereafter, use the EDIT or LOAD buttons to launch IDLayout and open the current or alternate background layout. (See “Badge Design” on page83) Within IDLayout, you may insert Text or Images anywhere on the “background” of the sheet. (The gray rectangles on the sheet represent the “badge” you selected for inclusion on the sheet layout.) Click the SAVE button to save your changes. To create a new Sheet background layout, open an existing background file and edit it as desired. Click the SAVE button but provide a new name. Click the REORDER button to change the order in which the badges print on the sheet. (Each badge on the sheet is “numbered.” The badges print from 1 to 2 to 3...When there is more than one column of badges, the print order can change from left to right or top to bottom.)



Level 1  
EDU 1

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5. Enter BADGE WIDTH and HEIGHT values. Though the numbers do not have to match exactly the actual dimensions of the badge you designed in IDLayout, all badge elements may not display properly if you enter values smaller than the badge's actual size. (To check the actual badge size, launch IDLayout and open the badges you will be printing. Right-click on the badge background to open the Properties of Badge Background dialog. The badge's width and height dimensions are recorded there.)
  6. Enter numbers representing how many COLUMNS and ROWS you want on the sheet layout.
  7. Enter numbers in the HORIZONTAL and VERTICAL SPACING fields to set how close or far apart the badges are from each other. HORIZONTAL SPACING refers to the distance, in hundredths of an inch, from the top left corner of the *first badge in row one* to the top left corner of the *second badge in row one*. Similarly, VERTICAL SPACING refers to the distance, in hundredths of an inch, from the top left corner of the *first badge in row one* to the top left corner of the *first badge in row two*. Decreasing these values will bring the badges closer together on the layout. Increasing these numbers will spread the badges farther apart.
  8. Enter numbers in the FIRST BADGE X & Y fields to set where on the sheet layout the first badge will print. The X & Y fields refer to the distance, in hundredths of an inch, of the top left corner of the first badge in row one to the top left corner of the printer's printable area. Reducing the First Badge X number brings the first column of badges closer to the left edge of the page. Reducing the First Badge Y number brings the first row of badges closer to the top edge of the page.
  9. Check the OVERRIDE BADGE DESIGN check box if you want to print a badge other than the one currently assigned to the individual(s). An Open dialog appears allowing you to select an alternate badge to print. Using the OVERRIDE BADGE DESIGN option allows you to create rosters. To do so, launch IDLayout and create a "badge" containing the information you want displayed on the roster. Create one design for Varsity Football players, another design for each school bus and route, etc. Select each of those "badges" as desired for the alternate. The end result is your roster.



You arrive at the Database Management window by clicking **TOOLS** ➤ **CONFIGURATION** ➤ **DATABASE MANAGEMENT**.

The ability to store and retrieve records in a database is one of the things that make IDentifier for Windows such a powerful program. You may create a record for each individual in your organization, and enter as much information as you need: name, address, employee ID, position in the organization...anything you can think of. You may instantly retrieve the record to review or edit the information, view the person's portrait or assigned badge, capture their image or print their badge. In the following pages you'll learn about databases in general, and how IDentifier for Windows's database features work. Only someone with System Administrative privileges to our application may access Database Management. (The **DATABASE MANAGEMENT** button is disabled for all other users.) Our program offers a variety of database options:

- allow end users to add, delete, or modify individual database fields
- specify whether the database tables are stored in a Microsoft Access or ODBC database
- attach to external databases
- more...

While selecting and implementing any of these options is a simple “point and click” operation, database subject matter, by its very nature, is exceedingly complex and requires considerable explanation and consideration. Please, therefore, read this entire chapter thoroughly before performing any of the “database management” functions found here.

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### *Database Options*

You have a variety of database options:

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- Use the built-in Microsoft Access database “as is.” (When you first install Identifier for Windows, we automatically create all the database tables and forms that allow our program to be fully functional.)
  - Make minor modifications to the way the built-in database fields *look*, such as applying field formatting, input masks, new field labels, etc. (Minor modifications such as these only effect the Microsoft Access *forms*, which are the “windows” through which you look at the data contained in the underlying *table*.)
  - Make major modifications to the built-in User Field table that stores your actual data, such as deleting fields, or changing a field's name or size.
  - You may attach to external database tables, whether generated by our application or another, and whether in a Microsoft Access or ODBC database. (Depending on which table you attach to, you may or may not have the ability to modify all the fields and field properties of that table. If attached to a User Field table created by Identifier for Windows, whether in a Microsoft Access or ODBC database, you have the ability to edit any of the fields and field properties. If attached to a database table created by any other application, you may only edit how the database fields display in our Search and Personal Data forms.)

The options described above essentially relate to two areas of a database: its tables, and its forms.

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## *Database Tables and Forms*

### **Tables**

At their heart, every database uses tables to store its data. Tables are similar to spreadsheets in that data is physically and logically arranged in columns and rows. Columns represent individual database fields (such as First Name, Middle Name, Last Name, etc.), while rows represent individual records.

When you install our application, it automatically creates a table called “User Fields” to store all the data that you enter into the database. If you wish to record an individual’s address, employee ID number, social security number, date of birth, etc., all that data will be stored in the User Field table. It is called the “*User Field*” table because *you* have the ability to modify or “define” not only what fields are in this table, but the various field



properties themselves, such as field size, type, visibility, indexing, etc. If you are attached to any other database table, you may view and edit the data contained within the table, but you cannot modify the table itself (its fields and field properties).

### Forms

We said that tables are like spreadsheets...the information is presented logically in rows and columns. However, rows and columns are often an inconvenient way to view your data. Therefore, Microsoft Access, upon which our program is based, uses *forms* as an alternate way of viewing the data stored in its tables. Forms are “graphical.” That is, instead of viewing table data in rows and columns, forms may display data in almost any layout imaginable. Forms may be colorful, contain pictures and buttons, and allow database fields to be arranged anywhere in the window. When you are looking at IDentifier for Windows’s Search and Personal Data windows, you are looking at the forms...the tables that contain the actual data are hidden from view.

Just as you may modify the User Field table, you may also modify the forms used to display that table’s data. There may be a variety of reasons why you will consider modifying the forms:

- you want your forms to exactly represent the fields in the User Field table
- you *do not* want your forms to exactly represent the fields in the User Field table

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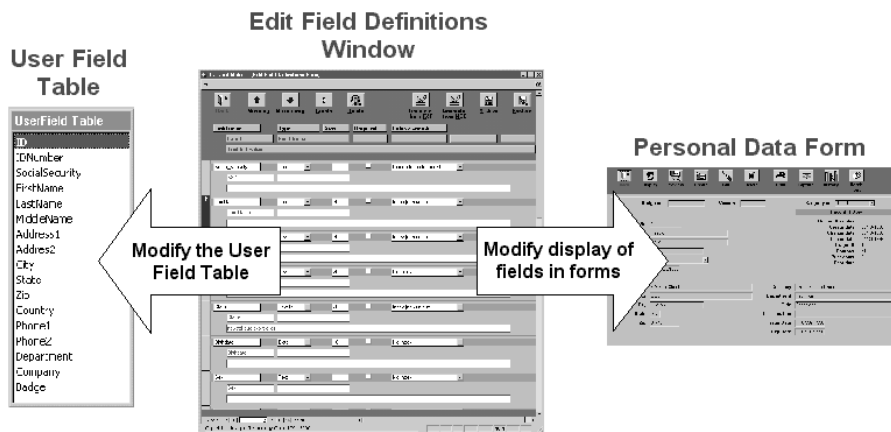
### *Modifying Tables and Forms*

When using commercially available database applications such as FoxPro, FileMaker Pro, or Microsoft Access, these applications provide a functional and intuitive way to look at and work with your database fields. That is, they provide tools for adding, deleting and editing the properties of your database fields. IDentifier for Windows also provides a tool for editing the database fields, whether in the User Field table or the way they display in the Search and Personal Data forms. This tool is the Edit Field Definitions window.

The Edit Field Definitions window is simply a list of database fields—a window or “interface”—allowing you to add, delete, or modify a variety of field properties. The list of fields in this window is called “the current Field Definitions.” It is *not* the User Field table, but it is used to *create or modify* the User Field table. The “current Field Definitions” in the Edit Field Definitions window may describe how a field is *supposed to look* in the Search and Personal Data forms. But until you rebuild the forms to “reflect” the way the

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Edit Field Definitions window describes them, Identifier for Windows will only show the default forms when the database was first installed. To make your changes apply to the User Field table or Search and Personal Data forms, you must click either a MODIFY THE CURRENT DATABASE ACCORDING TO THE CURRENT FIELD DEFINITIONS button or REBUILD THE FORMS FROM THE CURRENT FIELD DEFINITIONS button.



There is an important difference between the User Field table and the Microsoft Access forms which display its data. The User Field table is the actual “storage receptacle” for the data that you enter and save in the database. The table, for all intents and purposes, is hidden from an end user’s view—it is virtually invisible. So how do you view the contents of the User Field table? By creating Search and Personal Data forms on which you place individual User Field fields for viewing and editing. The User Field table contains *all* the data. The Search and Personal Data forms only display the data that you instruct them to display. You may elect to have the Search and Personal Data forms display *all* the data in the User Field table. Or you may elect to have the forms display only *some* of the data. (In either case, of course, you have the ability to determine *how* that data is displayed.)

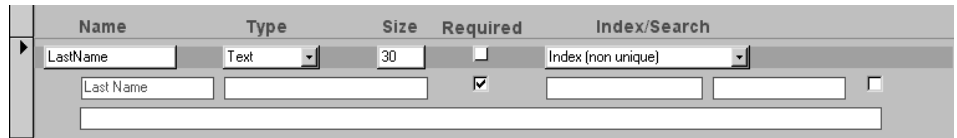
Before you begin editing fields, please understand the following critical issue: If you edit fields for display purposes in the Search and Personal Data forms, you are virtually unrestricted in your modifications, within the confines of our program. However, if you edit fields for the purpose of changing the User Field table, ***the User Field table must be empty.*** (If the User Field table is not empty, unpredictable results may occur.)

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## Edit Field Definitions Window

When you view the field properties in the Edit Field Definitions window, you see a total of 12 editable field properties for each field. The field properties, however, are broken into two categories: those that affect the User Field table, and those that affect the *display* of fields in the Search and Personal Data forms.

The five field properties that directly affect the User Field table are: *Name*, *Type*, *Size*, *Index*, and *Required*. These field properties are visually distinguished from the other properties by their placement together on the first row of the list of field properties. They have



The screenshot shows a table with five columns: Name, Type, Size, Required, and Index/Search. The first row, which is highlighted with a darker gray background, contains the following values: 'LastName' in the Name column, 'Text' in the Type column, '30' in the Size column, an unchecked checkbox in the Required column, and 'Index (non unique)' in the Index/Search column. Below this row, there are two more rows of input fields, with the first row containing 'Last Name' in the Name column, an unchecked checkbox in the Required column, and an unchecked checkbox in the Index/Search column.

Name	Type	Size	Required	Index/Search
LastName	Text	30	<input type="checkbox"/>	Index (non unique)
Last Name			<input type="checkbox"/>	

a darker gray background than the other field properties. The remaining field properties are listed in the two rows below.

Note: If you are attached to any other database table, you may edit (or appear to be editing) the five field properties relating to the User Field table (Name, Type, Size, Index, Required) in the Edit Field Definitions window, but those changes will not be implemented when you later try to rebuild the database.)

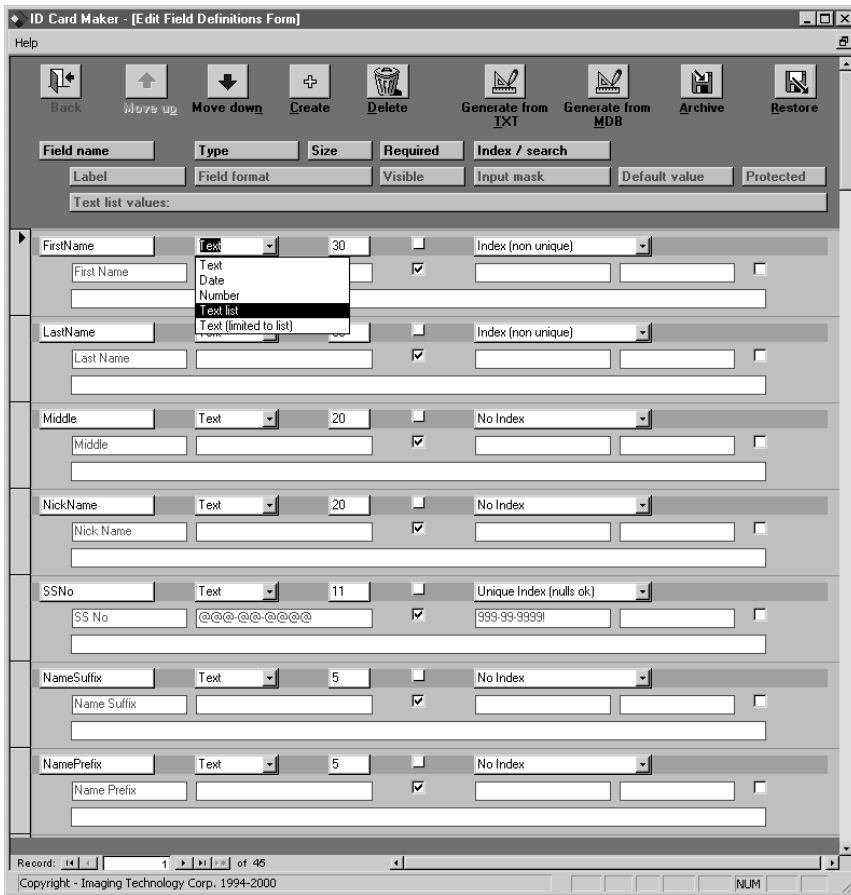
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## *Edit Field Definitions Window*

The Edit Field Definitions window is the tool or “interface” by which you “describe” or “define” a database *the way you want it to be*. You use the Edit Field Definitions window to define the characteristics of your User Field table (the presence or absence of individual fields, as well as field properties, such as name, type, and indexing, etc). You also use the Edit Field Definitions window to describe or define the way you want the database fields to display in the Search and Personal Data forms, such as special formatting, order, default values, etc. The fields and field properties that currently display in Edit Field Definitions window are the “current Field Definitions” referred to in the Database Management window. A variety of buttons there enable you to modify the User Field table or Search and Personal Data forms *based on the current Field Definitions*.



You arrive at the Edit Field Definitions window by clicking FIELD DEFINITIONS in the Database management window.



*Edit Field Definitions window*

The following buttons appear at the top of the window:


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## Edit Field Definitions Window

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MOVE UP

Clicking MOVE UP makes the currently selected database field move up the order it appears in the Search and Personal Data windows. (A “record selector” arrow  appears beside the currently selected field in the left margin of the window.)



MOVE DOWN

Clicking MOVE DOWN makes the currently selected database field move down the order it appears in the Search and Personal Data windows. (You can change the selected record by left-clicking in the the slection column on the left.)



CREATE

Clicking CREATE makes a new database field appear at the end of the scrolling list of fields.



DELETE

Clicking DELETE deletes the currently selected field. (You can change the selected record by left-clicking in the the slection column on the left.)



GENERATE FROM TXT

If you exported data from another database and want to use that data *and its fields* in Identifier for Windows, click GENERATE FROM TXT. A standard Windows Open dialog box appears. Navigate to and select the database text file you want to import. An alert window asks you to confirm your decision. If you click OK in this window, Identifier for Windows will read and import the first line of the import text file which identifies all the database fields being used. *Note: the first line of the import text file must contain the actual field names. Field names in this file must be one word and separated from each other by commas. Note also: good practice suggests that your external database’s “export routine” enclose field data within quotation marks so that commas appearing within, for example, a “Company” database field (e.g., “The Gap, Ltd.”) will not be construed as a field delimiter. (See “Export File” on page 117 for an example of the required “first row” in an import text file.)* After generating the fields and field properties from the import text file, view each field in this window to confirm that the field properties meet your needs.



GENERATE FROM  
MDB

If you wish to use the “fields” and “field properties” of an existing Microsoft Access database, click **GENERATE FROM MDB**. A standard Windows “open dialog” appears in which you navigate to and select an Access “.mdb” database file. Once you have selected the Access database file, a second window appears in which you may select the specific table containing the database fields you wish to use. After generating the fields and field properties from the database file, view each field in this window to confirm that the field properties meet your needs.

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ARCHIVE

This button will create a “Field Definition” file—a text file containing all the information about every database fields displayed in this window. That is, it will identify each field and its “label,” “size,” “input mask,” and other properties and write it to a text file with “.fdf” file extension.

If you edited the Field Definitions in this window and want to return to the Field Definitions currently in use by your database, simply re-attach to that database file using the **ATTACH TO AN EXISTING DATABASE** button in the Database Management window.

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RESTORE

If you want to make **IDentifier for Windows** on one or more PC's use the database fields stored in an archived Field Definition file, click **RESTORE** to bring up a standard Windows open dialog in which you navigate to an archived Field Definition file. Restoring field definitions is like importing records: you are importing “fields” and “field properties” into the User Field table which is shared by one or more PC's. *After restoring or “importing” the fields definitions, you must rebuild your IDentifier for Windows database on each PC attached to that database to display those new fields.*

If you are attached to a non-**IDentifier for Windows**-generated database, you may use **RESTORE** only to modify the *display* of data in **IDentifier for Windows**'s forms.

In the main body of the Edit Field Definitions window, a scrolling list of every field currently being used by the database is displayed. You may modify the individual field properties for each field. However, before you begin, please understand the following critical issue: If you edit fields for the purpose of changing the User Field table, the database must be empty. There are five fields properties which directly affect the User Field table: *Name, Type, Size, Index, Required*. These field properties are visually distinguished from the other properties in the Edit Field Definitions window by their placement together on the

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## Edit Field Definitions Window

first row of the list of field properties. They have a darker gray background than the other field properties.

The following table describes the field properties that may be modified:

Property	Description
Name	This is the name of the field used by the database. The field name must be one word. To use multiple words for the field's name, either delete the space between them (e.g., "multiplewords"), or separate the words with an underscore character (e.g., "multiple_words"). A field name may be up to 20 characters long. Field names must use alphanumeric characters; the only special character allowed is the underscore ( _ ) character.
Label	The field's label is a human-readable or human-friendly version of the actual field name. Sometimes a field's name as used by the database needs to be abbreviated. But when that field is placed on a database form, it can be given a label which makes it easily identified. The field's label can be more than one word and may contain spaces. If you do not specify a label, the field's "field name" will be used by default.
Visible	This property makes the field visible or hidden on a workstation. (Removal of the check mark makes the field hidden.) For example, one workstation can have a field "unchecked" and therefore hidden, while another workstation can have the same field "checked" and thus visible.
Type	The field may be of five types: <i>Text</i> , <i>Number</i> , <i>Date</i> , <i>Text List</i> or <i>Text (limited to list)</i> . A <i>Text</i> field allows the entry of any keyboard character. A <i>Number</i> field allows only numbers. A <i>Date</i> field allows alphanumeric entry, but treats the data as a date. A <i>Text list</i> is a "pick list" in which you may either select from a predefined value or enter your own values. A <i>Text (limited to list)</i> is a "pick list" in which you may only select a value from a predefined list of values.



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**Property****Description**

Size

Typing a number in the size property field lets you to set the maximum number of characters the field allows. When setting the size for telephone, social security and zip code fields, remember to allow extra characters for the hyphens and parentheses between numbers. In addition, try to anticipate the longest entry which a certain field might contain (for example, a lengthy, hyphenated last name). The physical dimension of the field in the Personal Data and Search window shrinks or expands depending on the size you enter here.

Attention to future importing and exporting needs should also be considered. If you have a 75-character “address” field in your database, and use all available characters, exporting that data to a database whose “address field” is restricted to 15 characters will result in truncated or lost data.

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Required

This property makes a field “required.” That is, when you check this option, a user *must* enter data in this field. *Note: If you make a field “Required” and import data containing records in which this field is empty, those records will not import.*



**Property****Description**

Index/search

When you select a field to be indexed, the database builds an invisible “list” of the contents of that field for every record. When performing a search in that field, the database first looks through its “list” before actually searching through the database itself; doing so greatly improves the speed of your database queries. Also consider indexing fields you intend to use in reports; even if you don’t anticipate using the field in a typical database search, doing so will speed up the creation of reports. (You must find your own balance, however, between the speed of searches and performance of other database functions: more indexes slow the creation of new records, and increase the size of the database.) Fields that are indexed are automatically placed in Identifier for Windows’s Search window. There are four index options.

- No Index: Does not build an index for that field.
- Index (non unique): Builds an index for that field and allows duplicate entries in the database’s records (more than one “Smith” in a last name field).
- Unique Index: Builds an index for that field, but requires that no two records have the same value. (It would be permissible for a last name field to contain duplicate values, such as “Smith,” but not permissible for an “Employee Number” field to contain duplicates.)
- Unique Index (nulls OK): Builds a unique index (prohibiting data entry into a field if the value is already used in another record), but allows that field to be empty.

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Field format

This field property allows you to apply Microsoft Access formatting to control how data in that field is *displayed*. For example:

- To make text appear in a color, type (without quotes) “[red]” (you may substitute any other RGB color in place of “red.”)
- To force text to upper case, type “>”
- To force text to lower case, type “<”
- To combine lower case with a color, type “<[red]”
- To add a prefix of 3 leading zeros, type “!000”

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**Property****Description**

Protected

Individual database fields may be view- or edit-protected on a user-by-user basis. If a field's protected property is checked, and a user is restricted from viewing or editing protected fields in the User Permission window of IDentifier for Windows, that field will be protected accordingly.



Input mask

You may automatically insert characters such as dashes and parentheses in fields with an input mask. For example, you can force the inclusion of dashes or parentheses in telephone and social security numbers.



Note: Use the Input Mask property to display literal display characters in the field with blanks to fill in. For example, if all phone numbers have the same format, you can create an input mask which automatically supplies the parentheses and dashes. If you define both a display format and an input mask for a field, Microsoft Access uses the input mask when you are adding or editing data, and the Format setting determines how the data is displayed when the record is saved. When using both Format and Input Mask properties, be careful that their results don't conflict with each other. (See "Input Masks & Field Formatting" on page 203.)

Default value

You may enter a default value (such as the word "NONE") in a field. Until the user over-writes the word "NONE" with other data, the default value remains visible in the field. You must enclose the value within quotes.



Text list values

For text lists and limited lists, type the values you want to appear in the list box. Separate values with semi-colons. To add a blank line in the list, type two semi-colons with nothing between them (;:).

*When creating new fields, ensure that you do not use our program's reserved field names. Use of these fields will produce unexpected results. Our program uses the following field names:*

**Reserved field names**

IDNumber

BadgeNumber

BadgeVersion

Badgelayout

CreateDate

PrintDate

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## Edit Field Definitions Window

ImageDate  
ImageID  
ChangeDate  
Operator  
PrintCount  
BadgeStatus  
BadgeNo  
MagTrack1  
MagTrack2  
MagTrack3  
Expression1  
Expression2  
Expression3  
BothNames  
Barcode  
IDNo  
IDYes

When you add or delete fields, or modify the field properties in the Edit Field Definitions window, absolutely nothing is affected until you either click one of the “database management” buttons in the Database Management window.

The following buttons affect the User Field table or the Field Definition file:



REBUILD THE FORMS  
FROM THE CURRENT  
FIELD DEFINITIONS

Clicking this button will rebuild the Search and Personal Data *forms* based on the data displayed in the Edit Field Definitions window. “Forms” are a graphical alternative to viewing data in the rows and columns of database tables. If you edited database field properties that affect the forms, the forms must be rebuilt before your changes can be viewed. Rebuilding the forms has no effect on the actual data or database tables.



MODIFY THE CURRENT DATABASE ACCORDING TO THE CURRENT FIELD DEFINITIONS

If you 1) edited database field properties (such as deleting a field or changing a field's name, size, type, or index) in the Edit Field Definitions window, or 2) used the "Restore" button to import a new set of Field Definitions from an archived Field Definition file, you must rebuild the database tables and forms before the changes are visible. This button is not available if you attach to a non-ITC-generated database (e.g., a pre-existing Human Resources database).



CREATE A NEW COPY OF THE CURRENT DATABASE

This will create an exact copy of the existing database, complete with the database fields in the User Field table, and all the existing data.

## Database Management window

At the top of the Database Management window is a non-editable "Current database" text field identifying the path and name of the database to which you are currently attached.

Current database: d:\itc4\TCR42KDAT.MDB

Next record ID: 10000 Set

Next image ID: 10000 Set

Below "Current database" are two SET buttons: NEXT RECORD ID and NEXT IMAGE ID.



These SET buttons may be used to over-ride Identifier for Windows's use of incremental serial numbers when creating "names" for images that are saved to disk or for "primary key" numbers to uniquely identify each database record. These buttons might be useful for organizations who have remote worksites where a mobile badge issuing system is used to capture images and print badges. Using the Set options to start numbering records with a higher number, the mobile system can create records and capture images remotely without fear of duplicating existing image or record ID's.

Click the SET buttons on the workstation for which you wish to over-ride the automatic serial numbering of image and record ID's. A dialog appears in which you may enter a new starting number for the image or record ID. The dialog informs you of the last (high-

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## Database Management window

est) number currently used in the database. Enter a new starting number sufficiently large (high) that it is unlikely the central database will ever use it. Do this for both image ID and record ID.

Two radio buttons offer the selection of either Microsoft Access or ODBC database management functions. The database options change somewhat depending on whether MS Access or ODBC is selected. If ODBC is selected, the buttons appearing below will effect



an ODBC data source. If MS Access is selected, the buttons appearing below will effect a Microsoft Access database.

The following buttons are present in the Database Management window when MS Access is selected:



ATTACH TO AN EXISTING DATABASE

Click this to access data from another Microsoft Access database. The database may be an existing IDentifier for Windows or IDentifier for Windows database or any other Microsoft Access database. Clicking this button opens a standard Windows “Open dialog” to navigate to a Microsoft Access database. If you attach to a non-IDentifier for Windows-generated database, you will be prompted to select the specific table containing the data you wish to access, and the primary key for that table.

If you are attaching to a non-IDentifier for Windows-generated database, and its “primary key” field is not numeric, you are neither allowed to edit data in the field designated as the “key field” nor create or delete records.

When attaching to another database, always answer YES to the prompt to rebuild the Search and Personal Data forms. If you do not rebuild these forms, some of the data may not display.



CREATE NEW DATA-  
BASE FROM THE CUR-  
RENT FIELD  
DEFINITIONS

Clicking this button will create an empty database based upon the current Field Definitions. The current Field Definitions are the fields and field properties which are displayed when you open the Edit Field Definitions window. Clicking this button will rebuild the User Field table and re-generate the Personal Data and Search forms to reflect the fields and field properties in the Edit Field Definitions window.



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If you accidentally modify the Field Definitions and after rebuilding the forms experience undesirable results, you may restore the original Field Definitions by re-attaching to the database (table).



CREATE A NEW COPY  
OF THE CURRENT  
DATABASE

Make a copy of the current database, including all its records. This is an ideal way to backup or archive your database. For example, you may create a copy of your database named “db\_2000.mdb” at the end of the year, then delete all the “history” and/or old records in your current database. If you ever need to review the “old information,” you simply attach to the copy to see the data as it existed in 2000.



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MODIFY THE CURRENT DATABASE ACCORDING TO THE CURRENT FIELD DEFINITIONS

Clicking this button will rebuild the User Field table and the Search and Personal Data forms based on the Field Definitions in the Edit Field Definitions window if your database is *currently empty*. If your database is *not empty*, our program will offer you several options:

*Rebuild only the forms:* The Search and Personal Data forms can always be rebuilt and re-drawn to reflect your current Field Definitions without affecting the underlying data in the User Field table. An alert message will offer this option if your database contains even a single record.

*Delete existing data and Rebuild the User Field table and forms:* If your database contains even a single record and the modified field properties affect the underlying User Field table, you will be prompted to create a new database. This means that the User Field table will be rebuilt to reflect your changes, but first, the data in the User Field table must be deleted. You will be prompted to confirm this in the next prompt.

*Rebuild the User Field table and forms without deleting existing data:* If your database contains even a single record and one of your modifications in the Edit Field Definitions window was to add a new field, you may partially rebuild the User Field table to reflect the new field without implementing other field modifications which require that the table be empty and without deleting your existing data.

This button is not available if you attach to a non-Identifier for Windows-generated database (e.g., a pre-existing Human Resources database).



FIELD DEFINITIONS

This takes you to an Edit Field Definitions window where you have a variety of options for setting the field properties of database fields. (See “Attaching to Another Database” on pag e78.)



REBUILD THE FORMS  
FROM THE CURRENT  
FIELD DEFINITIONS

Clicking this button will rebuild the forms. “Forms” are a graphical alternative to viewing data in the rows and columns of database tables. If you edited database field properties which affect the forms, the forms must be rebuilt before your changes can be viewed. Rebuilding the forms has no effect on the actual data or database tables. (See “Modifying Tables and Forms” on pag e61.)



DELETE ALL RECORDS  
IN THE CURRENT  
DATABASE

If in the Edit Field Definitions window you delete a field, change a field’s name, size, requirement status or index property, those modifications will not be implemented when you later rebuild the database tables and forms. To implement these kinds of changes, the database must be empty, i.e., contain no records. Clicking this button deletes all the records in the database! Before deleting your records, export your data to a text file using IDentifier for Windows’s Export command (See “Exporting the Entire Database” on page 117.)

If you add new fields to the Field Definition file and try to rebuild the database tables and forms without first emptying your database, IDentifier for Windows will add the new fields to the table of User Defined Fields. If you restore a previously created Field Definition file and try to rebuild the tables and forms without first emptying your database, the fields from the restored file will be added to the existing list of database fields.



CONVERT A REV 3  
DATABASE TO THE  
CURRENT VERSION

If you have databases created by IDentifier for Windows or IDentifier for Windows version 3.xx, clicking this button will convert the database to version 4.

Because ODBC databases are inherently more complex than Microsoft Access databases, it is advised that only an experienced Database Administrator perform these database functions.

Before you can attach to an ODBC data source, you must run the “ODBC Data Source Administrator” (Control Panel → ODBC Data Sources (32bit)) to create a user or system Data Source (DSN). Ask your Database Administrator to verify that this has been done, and to provide you with pertinent information.



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## Database Management window

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Click the ODBC radio button in the Database Management window to display the Database management buttons pertaining to an ODBC database.



The following buttons are present in the Database Management window when ODBC is selected:



ATTACH TO AN EXISTING DATABASE

Clicking this button opens an ODBC logon window in which you enter the Server Name (the DSN, or Data Source Name), UserID, and password for an ODBC database. Your Database Administrator must provide this information to you as it is generated outside the Identifier for Windows environment.

When attaching to another database, always answer YES to the prompt to rebuild the Search and Personal Data forms. If you do not rebuild these forms, some of the data may not display. (See “Attaching to Another Database” on page 78.)

When attached to non-Identifier for Windows-generated database, you are neither allowed to edit data in the field designated as the “key field” nor create or delete database fields.



DELETE ALL RECORDS AND REBUILD AN ODBC DATABASE

Identifier for Windows uses a variety of tables to record employees, authorized application users, history and audit logs, etc. To create an Identifier for Windows database identical to the Microsoft Access version in an ODBC database, click this button.

You will be prompted to select the ODBC database in which Identifier for Windows will create all its tables.

Identifier for Windows will delete any records that exist in the ODBC database you specified.



FIELD DEFINITIONS

This takes you to the Edit Field Definitions window where you have a variety of options for setting the display of database fields. (See “Attaching to Another Database” on page 78.) Note: modifying field properties only affects the way fields are *displayed* at individual workstations; it does not affect the actual database tables.



REBUILD THE FORMS  
FROM THE CURRENT  
FIELD DEFINITIONS

Clicking this button will rebuild the Search and Personal Data forms to reflect the “current Field Definitions” (the database field information that currently displays in the Edit Field Definitions window). “Forms” are a graphical alternative to viewing data in the rows and columns of database tables. If you edited database field properties which affect the forms, the forms must be rebuilt before your changes can be viewed.



DELETE ALL RECORDS  
IN THE CURRENT  
DATABASE

If you are attached to the User Field table created by IDentifier for Windows on an ODBC database, you may not add or delete database fields, nor edit certain field properties, if the User Field table contains records. This button will delete your records allowing you to change database field properties such as “field name,” “field size,” “field indexing,” etc.



CONVERT A REV 3  
DATABASE TO THE  
CURRENT VERSION

If you have databases created by IDentifier for Windows or IDentifier for Windows version 3.xx, clicking this button will convert the database to version 4.

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## *Attaching to Another Database*

There are several basic types of Database Management Systems (this is the formal name for database applications), or DBMS for short. Perhaps you recognize the names of some commercial DBMS's: Microsoft Access, FoxPro, FileMaker Pro, SQL Server, and Oracle. In general, they all store and manipulate the data that users need to manage and work with. Each DBMS has its own “database engine” and “working environment” that enable users to edit, save and view data, as well as perform typical database functions such as running queries, creating reports, establishing “relationships” between different data sources, and modifying the display of data.

While there are any number of DBMS's, we would like to point out a simple distinction between them: there are **Workstation** DBMS's and **Server** DBMS's. Workstation DBMS's are designed to handle small- to moderately-sized databases. Individuals and small businesses are adequately served with these systems: a typical desktop computer is powerful enough to run the software, and the program will probably perform most of the database functions that a small organization might need. Server DBMS's, however, are much more powerful and complex. They typically require the raw processing power of an

application server (a special computer with extremely powerful, if not multiple, microprocessors, extra RAM, and multiple fixed disks). These programs are so complex that they normally require a “Database Administrator” to create, maintain, and supervise database activity and functionality.

“Out-of-the-box,” IDentifier for Windows, by default, creates a database in Microsoft Access, a Workstation DBMS. Maintaining a Microsoft Access database is relatively easy for anyone with general computing experience.

IDentifier for Windows also has the ability, however, to create a database in a Server DBMS. In this case, our program will still use Microsoft Access as the “front end” (what the user experiences at his or her workstation), but communicate with the Server DBMS through an industry standard Open Database Connectivity (ODBC) driver. If you wish to use an ODBC database (that is, a Server DBMS created either by IDentifier for Windows or another application), your Database Administrator must perform all the ODBC database setup before our program can begin functioning with it.

Our program has the ability to “attach” to database tables, whether created by IDentifier for Windows or not. “Attaching” or “linking” means that you can view the data from another table within our program. (IDentifier for Windows and its run-time version of Microsoft Access is the “front end”—it displays the data regardless of the type of application that created it at the “back end.”) If IDentifier for Windows created the table, after you are attached, you may modify the database fields in the User Field table. If the table was not created by our program, you may only view and edit the *data* contained within that table; you may not edit the data contained in the database field used as the table’s “key field.”



If you selected the MS Access radio button in the Database Management window, clicking ATTACH TO AN EXISTING DATABASE opens a standard Windows Open dialog allowing you to select a Microsoft Access database. (Microsoft Access databases have an “.mdb” file



extension.) Once selected, a second window appears in which you select the individual table within the database to which you wish to attach. (Note: If you are attaching to another IDentifier for Windows database, you are attached as soon as you specify the “\*.mdb” file; IDentifier for Windows automatically knows to attach to the User Field table.) When attaching to any database, always answer YES to the prompt to rebuild the

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Search and Personal Data forms. If you do not rebuild these forms, some of the data may not display.

If you selected the ODBC radio button in the Database Management window, clicking ATTACH TO AN EXISTING DATABASE opens an ODBC logon window in which you enter the Server Name (the DSN or Data Source Name), UserID, and Password of the ODBC data-



base. (Your Database Administrator must provide this information to you as it is generated outside our program environment.) After successfully logging on to the ODBC database, a second window appears in which you select the individual table within the ODBC database to which you wish to attach. When attaching to another database, always answer YES to the prompt to rebuild the Search and Personal Data forms. If you do not rebuild these forms, some of the data may not display.

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### *Added Security with Field Definition files*

The ability to rebuild the forms without modifying the database tables adds a new level of security to IDentifier for Windows. Thus, there are three approaches to protecting your data from view by unauthorized users:

*User level security:* In the User Permissions window, deselect “View protected fields” and “Edit protected fields” for specific users. In the Edit Field Definitions window, check the “Protected” field property for fields you wish to protect from specific users.

*Workstation level security:* At specific workstations, uncheck the “Visible” property of specific database fields from the Field Definitions Edit window. Then rebuild the forms at that workstation using the REBUILD THE FORMS FROM THE CURRENT FIELD DEFINITIONS button. Those fields will not be visible to anyone, regardless of the user’s application permissions.

*Multiple field definitions files security:* In a large network running a variety of configurations of our program, create specific Field Definition files for each configuration.

Customizing database fields for a networked environment takes careful planning. You must know which fields must be visible or hidden at specific workstations, and if specific

field formatting is required at different sites. For example, if several “guard verification stations” are to be restricted from viewing certain information in the database, then a Field Definition file needs to be created which hides that data. Or if a number of “data entry stations” need to have certain fields color coded to ease data entry, then a Field Definition file must be created specifically for them. A Field Definition file is a text file containing a list of database fields, plus each field’s “properties,” created when you click the ARCHIVE button in the Edit Field Definitions window. (See below.) You may create as many Field Definition files as your needs require. You will then restore or “import” these Field Definition files at the appropriate workstations; the workstation-specific modifications will now be displayed on those PC’s after you rebuild the database.

From any workstation, click **TOOLS** ➤ **CONFIGURATION** ➤ **DATABASE MANAGEMENT** ➤ **FIELD DEFINITIONS**. Make any changes you require for your “master” database (that is, create, delete, or modify the fields that you want to use for your database) and click **ARCHIVE**. A standard Windows “Save dialog” appears in which you enter a name and directory for this master Field Definition file. Modify the field definitions again for a workstation whose view of the data will be different in some manner (hidden/visible fields, colored text, input masks, etc.) and again click **ARCHIVE** to save this modified Field Definition file. Continue to create additional Field Definition files for as many workstations as your needs require. Then, at each workstation, restore or “import” the appropriate Field Definition file using the **RESTORE** button and rebuild the database by clicking the **REBUILD THE FORMS FROM THE CURRENT FIELD DEFINITIONS** button.



If you are running our program in a “stand alone” environment, you do not need to create Field Definition files. Simply change the existing fields and their properties to suit your needs and rebuild the database and forms using the **MODIFY THE CURRENT DATABASE ACCORDING TO THE CURRENT FIELD DEFINITIONS** button.



You arrive at IDLayout by clicking **TOOLS** ➤ **LAYOUT ID BADGES**.

If you have used graphics or “draw” programs before, you will be comfortable with the many familiar tools in IDLayout—the badge design module of IDentifier for Windows. If you have never used a drawing program, you will be pleasantly surprised at how easy it is to create aesthetic and functional layouts. IDentifier for Windows includes a sample badge as a model. Be creative. All that is required is that your images or graphics must be “digital”—that is, they must be graphic image files stored on your hard drive. If you have a company logo or favorite image and want to incorporate it into your badge layout, scan the image and save it to disk. You may now incorporate it into the badge layout.

Though you can create badge designs from scratch, it is more likely you will be reproducing pre-approved badge layouts used by your organization. Either way, you will probably need to create a variety of badge designs reflecting various positions of the people in your organization. Color coding, for example, is one common feature distinguishing one type of badge from another. Special text or logos on a badge can reflect the range of “privileges” assigned to your employees. You will need to create multiple badges containing some common elements, as well as unique features. Each time you enter an individual into the database, you have an opportunity to assign him or her the badge-type appropriate to their position.

Text and graphic images used in the badge layout are called objects. All objects can be shrunk, stretched and enlarged by clicking once on the object to select it, and dragging its “handle” (any of the four, tiny black squares appearing at its corners). An object can be moved by clicking and dragging it to a new location (the pointer turns into a four-sided arrow). In addition, IDentifier for Windows offers “multiple select” and “alignment” tools aligning multiple objects to each other and to the card itself. IDentifier for Windows supports cut and paste, so when multiple badge layouts are open you may easily copy images or text from one badge design to another.

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The following discussion first provides an orientation to the layout commands available on IDLayout's menu bar. After that overview, instructions for placing objects on the badge layout will be provided.

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## Menu Commands

### The File menu

New	Creates a new badge layout.
Open	Opens an existing badge layout.
Close	Closes the currently active open badge layout.
Save	Saves a newly created or edited badge layout.
Save As...	Saves a copy of the existing badge layout with a different name.
Save to Archive	Similar to the way "WinZip" works, this saves the *.bdg badge layout file, plus any graphics used in the layout. By saving the entire file, you may send this archive to someone else by email, for example, so they may immediately use the badge design in their version of IDentifier for Windows.
Unpack Archive	If someone receives a badge archive, you may "unpack" it with this command.
Exit	Exits IDLayout.

<u>N</u> ew	Ctrl+N
<u>O</u> pen...	Ctrl+O
<u>C</u> lose	
<u>S</u> ave	Ctrl+S
Save <u>A</u> s...	
Save to Archive	
Unpack Archive	
1 Engineer.bdg	
2 default.bds	
3 roster1.BDS	
4 roster1.bdg	
Exit	



**The Edit menu**

<u>U</u> ndo	Ctrl-Z
C <u>u</u> t	Ctrl-X
<u>C</u> opy	Ctrl-C
<u>P</u> aste	Ctrl-V
<u>D</u> elete Object	Del
Select <u>A</u> ll	Ctrl-A
Select <u>N</u> one	Ctrl-D
<u>B</u> adge Background...	
Object <u>P</u> roperty...	Enter
Move to <u>F</u> ront	
Move to <u>B</u> ack	
<u>P</u> roportional Stretch	
Make <u>H</u> eight Proportional	
Make <u>W</u> idth Proportional	
<u>R</u> otate Badge	

Undo	Returns an object to its state before the most recent action was taken.
Cut	Deletes an object from the layout and places it on the “clipboard” (the computer’s temporary memory).
Copy	Places a copy of an object onto the “clipboard” so it may be “pasted” or used again, while the original object remains on the layout.
Paste	Inserts the contents of the clipboard onto the badge layout.
Delete Object	Deletes an object from the layout, not from the hard disk. (When an object is deleted, it is not placed on the clipboard.)
Select All	Selects all the objects on the badge.
Select None	Deselects all previously selected objects.
Badge Background	Opens the Badge Background dialog allowing you to choose between one- or two-sided badge designs, use a solid color or graphic image for the badge’s background, and instruct Identifier for Windows to send the data in the mag track fields to the printer for magnetic encoding (if your printer supports this).
Object Property	Opens the “Property of...” dialog allowing you to change the characteristics of the selected object (e.g., change its size, color, rotation, etc.). (Double-clicking or right-clicking an object, or pressing Enter when the object is selected, also activates this command.)
Move to Front	Brings a selected object to the front of the badge layout when multiple objects overlap. Text always remains in the foreground. (Background images created with the “Badge Background” command always remain in the background.)

**Move to Back** Sends objects to the back of the badge layout when multiple objects overlap. Text always remains in the foreground. (Background images created with the “Badge Background” command always remain in the background.)

**Proportional Stretch** If you want to preserve an object’s original ratio of height to width when shrinking or enlarging it by dragging its “stretch handles,” select this option. If this option is “off,” an object’s width or height can be stretched out of proportion. Once the object has been distorted, it cannot be restored to its “original” height to width ratio unless it is deleted from the badge layout and re-inserted as a new object or the “Make Proportional...” commands (below) are used.

**Make Height Proportional** Forces the object to decrease or increase in size, achieving the original ratio of height to width, based on the current width of the object.

**Make Width Proportional** Forces the object to decrease or increase in size, achieving the original ratio of height to width, based on the current height of the object.

**Rotate Badge** Allows you to rotate the badge and all its contents in 90° increments. Selecting this command repeatedly produces 90°, 180°, 270°, and back to 0° rotations.

## The Insert menu

**Portrait** Inserts the portraits captured from within IDentifier for Windows. Portraits are “dynamic” in that IDentifier for Windows inserts each individual’s portrait on their own badge. (Portrait is “grayed out” if it is deselected in ID Setup.)

**Signature** Inserts the signatures captured from within IDentifier for Windows. Signatures are “dynamic” in that IDentifier for Windows inserts each individual’s signature on their own badge. (Signature is “grayed out” if it is deselected in ID Setup.)



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## Menu Commands

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**Fingerprint** Inserts the fingerprints captured from within IDentifier for Windows. Fingerprints are “dynamic” in that IDentifier for Windows inserts each individual’s fingerprint on their own badge. (Fingerprint is “grayed out” if it is deselected in ID Setup.)

**Text** Inserts database text into the badge layout. When you selectText, a “pick list” of database fields appears from which you select the field you wish to insert on the badge layout. Text objects are dynamic in that IDentifier for Windows inserts the data in that field from each individual’s record onto their badge.

**Image** Inserts a picture that is linked to a database text field. If an image you want to use (for example, a scanned logo) is named the same as the contents of a database field, the Insert/Image command inserts that scanned logo on every badge where that name appears in the specified field. For example, scan an image of California’s state symbol, name the image file “California.” Whenever an individual’s State field in the database contains the text “California,” the California state symbol appears on their badge.

**Bar Code** Allows you to insert the database’s bar code field. (Or you may choose any other field from a “pick list” of database fields.) A bar code object provides the ability to add required encoding characters at the beginning and ending of the text in the database’s bar code field. Note: after inserting a bar code, it does not display as a “bar code” until you select a bar code typeface in the Properties of Bar Code dialog.



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**2-D Bar Code** Allows you to use Datastrip’s 2D Superscript or the PDF417 bar code if you use 2D bar code readers. 2D bar codes allow many times more data than traditional bar codes. For example, Datastrip’s 2D Superscript can encode as much as 2100 bytes of data, and incorporate images as well as text.

**Static Text** Allows you to place text that is identical on all badges, such as a company name or address. Selecting this command brings up a window in which you type text exactly as you want it to appear on the badge.

**Static Image** Allows you to insert an image or graphic, such as a company logo, that appears on every card.

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Solid Box

Allows you to create a “border” or drop shadow behind text and image objects. Solid boxes may be dragged and re-sized, but default to being placed immediately behind an object.



Mag Track 1, 2, 3

Does not actually place a visible object on the badge layout, but instructs IDentifier for Windows to send the data contained within the mag track field(s) you select to your card printer, which encodes the data on the mag stripe when the card is printed.

## The Align menu

Left

Aligns multiple selected objects to the left-most object.

Right

Aligns multiple selected objects to the right-most object.

Top

Aligns multiple selected objects to the top-most object.

Bottom

Aligns multiple selected objects to the bottom-most object.

Center Horizontal

Aligns single and multiple objects to the horizontal center of the badge.

Center Vertical

Aligns single and multiple objects to the vertical center of the badge.

Align to Grid

Forces selected objects’ top left corner to “snap to” the nearest grid point on the layout.

Size to Grid

Forces selected objects to increase or decrease in size to the grid point nearest the bottom right corner of the object.

Grid Settings

Allows you to set the size of the grid (from 2/100ths of an inch to one inch) and turn on “snap to grid” so that objects always snap to a grid point when being moved. (See graphic next page.)

Left

Right

Top

Bottom

Center Horizontal

Center Vertical

Align to Grid

Size to Grid

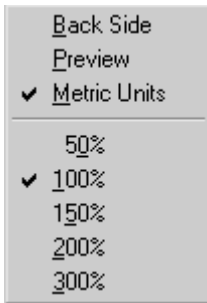
Grid Settings ...

## The View menu

(Note: “Back side” is only available if you chose the two-sided option in the Properties of Badge Background window.)

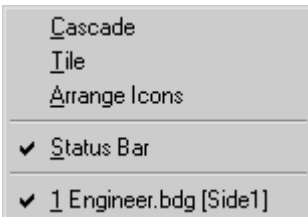
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## Menu Commands



Back side	Displays the back of a two-sided badge.
Preview	If you enabled “Preview in IDLayout” from ID Setup, selecting Preview will extract the data from a selected record and present it in the layout window so you may see exactly how the badge will appear in its final output. (See “ID Setup,” page 44.)
Metric Units	Choose whether the unit of measurement is metric.
50%	Reduce the view of the badge to 50% actual size.
100%	View the badge at actual size. (Variations in monitor resolution—e.g., 800x600, 640x480—will affect how closely this reflects the “actual” size.)
150%	View the badge at 150% of actual size.
200%	View the badge at 200% of actual size.
300%	View the badge at 300% of actual size.

## The Window menu



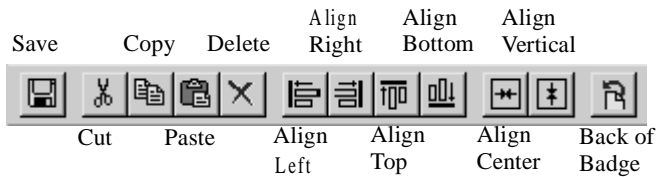
Cascade	Allows multiple badge layouts to “float” on top of each other.
Tile	Forces multiple badge layouts to appear in rows (no overlap).
Arrange Icons	Forces minimized badge layouts to arrange themselves at the bottom of the Badge Layout window.
Status Bar	Toggles the Status Bar at the bottom of the window on and off. The Status Bar displays the name of each badge object when selected.
	All open badge layouts are listed in the Window menu. You may quickly “set the focus” of a layout by selecting it from this menu.

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## The Help menu

The Help menu brings up the on-line help instructions and identifies the current version of this software.

In addition, a tool bar beneath the Badge Layout window's menus offer quick access to the following commands:



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## *Badge Objects*

Each object is placed onto the badge using the Insert menu command. Once inserted onto the badge layout, objects may be “dragged” to any location, and stretched (re-sized) by dragging one of the four “handles” that appear at their corners when selected. Alternately, you may re-size objects using the following key-stroke shortcuts:

- Ctrl + any arrow key expands the object in the direction of the arrow.
- Ctrl + Shift + any arrow key shrinks the side of the object represented by the direction of the arrow.
- + on the numeric keypad expands the object on all four sides.
- - on the numeric keypad shrinks the object on all four sides.
- ← = the left side of the object.
- ↑ = the top of the object.
- → = the right side of the object.
- ↓ = the bottom of the object.

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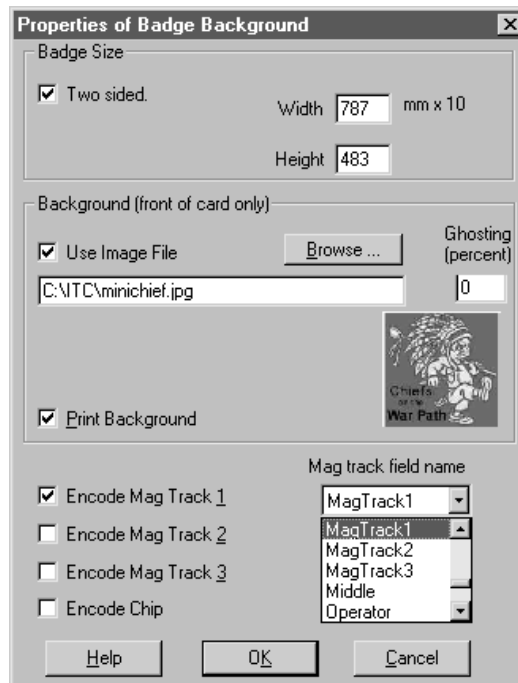
## Badge Objects

- Objects shrink or expand in increments of 1/100ths of an inch.

Each object is edited from within a “Properties of...” dialog by double or right clicking the object after it has been placed on the badge (or by selecting the object and pressing Enter or using the Edit menu’s Object Property command). Different object types offer differing editing options.

### Properties of Badge Background

Pull down the FILE menu to NEW to create a new badge layout. A Properties of Badge Background window appears. If your card printer supports double-sided printing, click the “Two sided” box. Select either Portrait or Landscape for badge orientation. The Badge Width and Badge Height values are supplied automatically by the card printer’s printer driver (selected in ID Setup when you specified which card printer you are using).



If you want to use a background image or background color, click either the USE IMAGE FILE or CHOOSE COLOR buttons. Checking USE IMAGE FILE makes a BROWSE button

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appear. Navigate to and select an image file to be used as the badge's background. When this option is selected, a Ghosting option also appears. Enter a number from 0-99 to "ghost" the image. A "0" applies no ghosting; a "99" applies complete ghosting (invisible). The CHOOSE COLOR button brings up a color selection window from which you may select from Windows' basic 48 colors, or click DEFINE CUSTOM COLORS to choose a custom color. (After creating a custom color, click ADD TO CUSTOM COLORS adding it to the custom colors bar, and then click that color on the custom colors bar to select it for use.) Check the PRINT BACKGROUND check box if you are *not* printing on pre-printed cards. (If you use pre-printed cards containing a background image, you may insert a copy of the graphic on the badge background allowing you to precisely place the badge objects; this option allows you to "see" the background without printing it.)



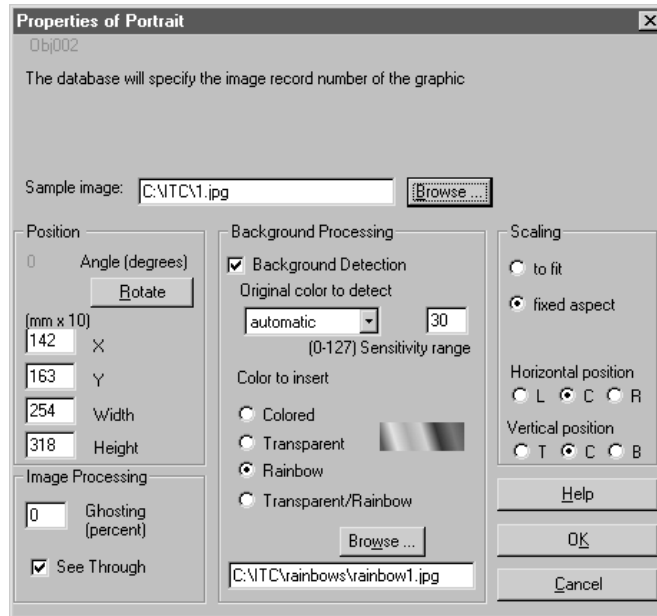
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If your card printer supports magnetic encoding, click ENCODE MAG TRACK 1, 2, OR 3 (whichever tracks your card reader requires) instructing IDentifier for Windows to send data to the card printer for encoding. A pick list appears beside each mag track selected, allowing you to select the database field whose contents need to be encoded on the magnetic track. Ordinarily, you choose the corresponding mag track fields created in the Configuration area of IDentifier for Windows's tools. You may, however, select any other field for encoding by selecting it in this pick list. You may also build custom "data strings" with the Expression Builder (see "Expression Builder" on page 100). If your printer supports Smart Chip encoding, select the database field containing the data that is to be encoded.



## Image Properties

The “Properties of...” dialog is nearly identical for Portraits, Fingerprints, Signatures, Dynamic Images, Static Images and Solid Boxes. After inserting an image-type, double-clicking or right-clicking on the object brings up the “Properties of...” dialog.

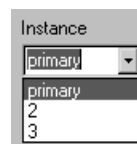


To insert a portrait, fingerprint, signature, dynamic image, static image or solid box onto the badge layout (see “Solid Boxes” on page 97 for special instructions on inserting solid boxes), pull down the Insert menu and select a desired image type. The object appears in the badge layout window as an empty rectangle with its corresponding label. You may shrink or enlarge the image by dragging one of its handles. Double-click the object to bring up the “Properties of...” dialog.



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If you enabled multiple image capture in IDServer Setup (e.g., 3 portraits, 10 fingerprints), the Properties of Portrait dialog will add the following option:



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You may select from this pick list the specific image to be inserted on the badge.

In the “Properties of...” dialog, IDentifier for Windows automatically names each object as it is placed on the badge. The Sample Value field allows you to select an image file to temporarily appear in the badge layout window assisting you in better visualizing the badge layout. (Click the BROWSE button to navigate to a desired sample image.)

The Badge Position values indicate the location of the image on the badge layout. You may precisely adjust the position by entering values here, or simply drag the image to a new location using the mouse. (An object’s movement may be constrained depending on the size of the grid and whether “snap to grid” was turned on.)

You may rotate the image in 90° increments by repeatedly clicking ROTATE.

You may “ghost” the image by entering a number (from 0 to 99) in the “Ghosting” field. A “0” applies no ghosting; a “99” applies complete ghosting (invisible). You may also make the image “transparent” (allowing background images to “bleed through”) by checking See Through.

You may control the characteristics of image “re-sizing” by selecting either Scaling to fit or fixed aspect ratio.

**Background Detection:** IDLayout provides the ability to detect a specific color or “range of color” within an image. Once “detected,” that color can be made transparent, or replaced with a different color or even another image file. In order to implement background detection, you must indicate a color to detect (also called a “Key Color”), and a “range of sensitivity.” Typically, background detection is used to remove the background color in a person’s portrait. It may also be used to remove or substitute different colors in other image or graphic files.

The sensitivity range indicates how closely the image’s background color must match the Key Color in order to be “detected.” For example, many portraits are captured with a “white” background. But rarely is the background “pure white.” Rather, it is a shade or variation of “white.” If you set the Key Color to WHITE, IDLayout will attempt to remove all the color in the image that matches “pure white.” If the actual background is not “pure white,” the color substitution or transparency may not be completely successful. Therefore, the sensitivity range allows you to instruct IDLayout to be more or less “forgiving” in interpreting how close or far from “pure white” the background is. A smaller number means IDLayout should treat the “white” background as “closer to pure white” and only substitute or make transparent those pixels that more closely match “pure white.” A

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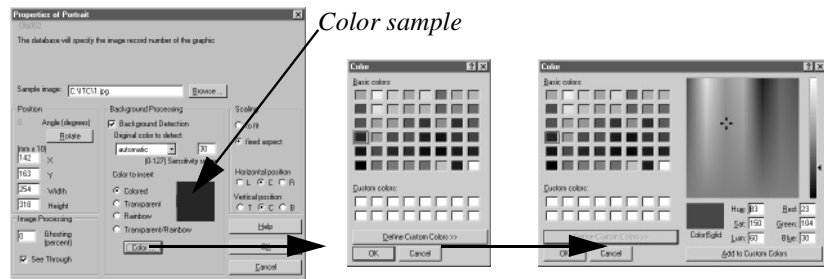
## Badge Objects

larger number means that IDLayout should treat the background as “further away from pure white” and thereby substitute or make transparent more of the background.

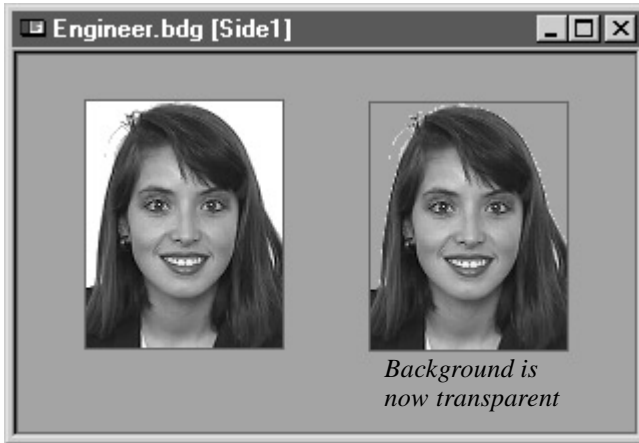
A value of 30 or less is generally suitable for portraits. Increasing the value for these images will tend to make the colors further away from white (like teeth or the whites of eyes) either transparent or color-substituted. On the other hand, graphic images generated by computer tend to have “purer” colors, allowing the use of lower sensitivity range values.

For portraits, it is recommended that you select “AUTOMATIC” instead of selecting a specific key color. When this is selected, IDLayout will sample the color at the upper left and upper right corners of the image object, average them, and use the result as the key color. It also protects colors within the face (e.g., white teeth and whites of eyes) from being altered. This generally produces excellent results. (Obviously, if your graphic is not a portrait, but has varied colors at the upper corners instead, this will offer poor results.)

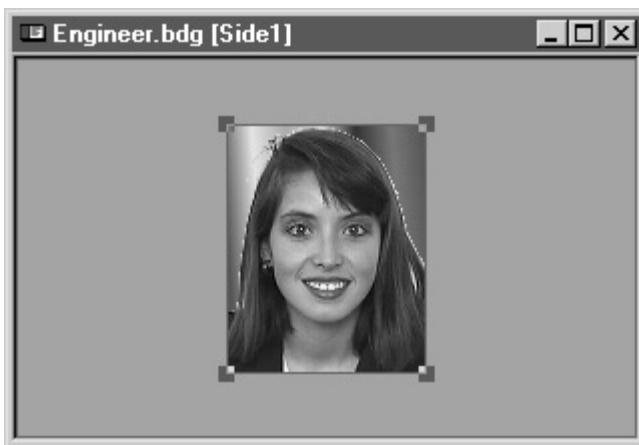
**To Change the Background Color of the Image** (e.g., the backdrop behind the individual’s head in a portrait): Select Background Detection. New options immediately appear. Click the COLORED radio button. A new COLOR button and rectangular “color sample” immediately appears. (The “color sample” shows the currently selected color.) Clicking the new COLOR button opens a Color Selection window in which you may select a new color. The color you select will now replace every instance of the color you specified as the Key Color.



**To Eliminate the Background Portion of the Image:** Select Background Detection. New options immediately appear. Click the TRANSPARENT radio button to make the background transparent, allowing images or badge background to display behind the portrait.



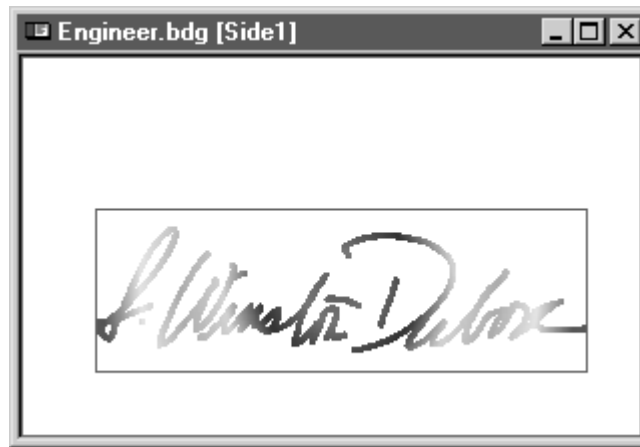
**To Insert a “Rainbow” Pattern:** Just as you may remove or change a colored portrait background (the color that appears behind the person’s head), you may insert a “rainbow” pattern or any other graphic image to appear in the portrait background. After checking the BACKGROUND DETECTION check box, click the RAINBOW radio button. A BROWSE button appears allowing you to navigate the hard drive or network for an image file. Identifier for Windows provides three sample “Rainbow” images located in a folder named “Rainbows” installed in the ITC directory (or elsewhere if you chose a different directory when you installed the program). Select either “rainbow1.jpg,” “rainbow2.jpg,” or “rainbow3.jpg.” These colorful rainbows will now fill the portrait background.





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**To Insert a Transparent Rainbow Pattern:** The “Transparent Rainbow” feature is designed for two-color images in which the background is white, such as a signature image file. After checking the BACKGROUND DETECTION check box, click the TRANSPARENT/RAINBOW radio button. A BROWSE button appears allowing you to navigate the hard drive or network for a background image file. The “transparent” part of this feature will make the white background transparent, allowing the card’s background image to show through; the “rainbow” part of this feature changes the second color in the image (for example, the black signature) to the image you “browsed” for. You must set the “Original color to detect” (from the pick list) to match the second color in the image file, e.g., “BLACK” for signatures.



Repeat these steps for the remaining images you want to incorporate into your badge design.

### Solid Boxes



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Though Solid Boxes may be inserted as simple colored rectangles, they are usually placed behind other objects to create the appearance of a border. Ordinarily, a Solid Box is inserted after a text or image object is selected. The Solid Box is placed immediately behind the selected object and is approximately one pixel larger. If a Solid Box is created first, the *next* object placed on the badge will be inserted *inside* the box and sized accordingly. The Solid Box may be enlarged and stretched as desired.

To enlarge all four sides of a Solid Box in one-pixel increments, press “+” (plus key on numeric keypad) while the Solid Box object is selected; to reduce the size, press “-”

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(minus key on numeric keypad). To enlarge or reduce the Solid Box on just one side, press Control- and an arrow key (the arrow key corresponds to moving the edge up, down or sideways). To move the Solid Box, press Shift and an arrow key.

You may apply “ghosting” and “see through” to a Solid Box. (Select the Solid Box and choose “Object Property...” from the Edit menu, or double-left or right-click the Solid Box to open the “Properties...” dialog.)

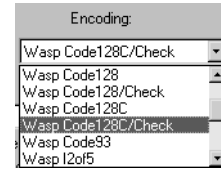
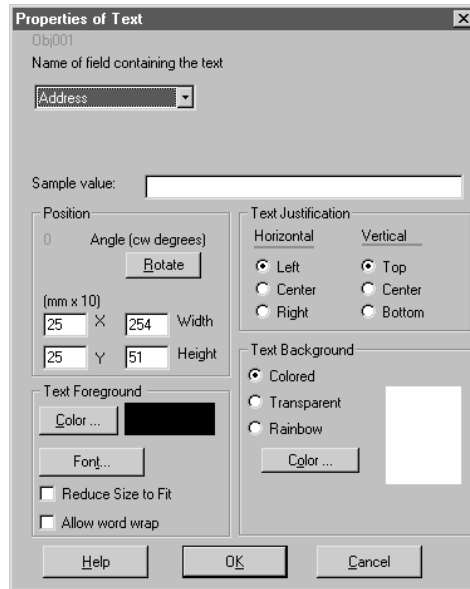
## **Text and Bar Code Properties**

Whether inserting static text (text that is identical on all cards), dynamic text (text that is extracted from a record’s database field), or bar codes, the Properties of Text windows are nearly identical. (The Properties of... dialog for bar codes adds an “Encoding” pick list to select and insert the appropriate prefix and suffix to the selected bar code. Bar code readers require these “start” and “stop” characters to know when to start and stop encoding, as well as to provide additional encryption instructions. The Properties of...dialog for 2D bar codes offers a pick list to select either the 2D Superscript or PDF417 bar code.) (See “Bar Encoding” on page 108.) Double-clicking or right-clicking on a text object brings up the Properties of Text dialog from which you may change the text characteristics. Identifier for Windows automatically names each object as it is placed on the badge. If the text object is dynamic, that is, linked to a database field, you may change the database field by

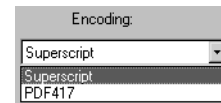
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## Badge Objects

selecting an alternate field from the pick list. You may type sample text in the Sample



*Properties of Bar Code  
adds this encoding field*



*Properties of 2D Bar Code  
adds this selection*

Value field to better visualize how the text will appear in the badge layout. If the text is static, you may edit the text in the Static Text field. (A static text object will allow a maximum of 259 characters.) In addition, an “Expression Builder” lets you combine database fields or parts of fields within a single text object. (When you select the equal sign (=) from the pick list of database fields in any Properties of Text dialog, an “ARROW BUTTON” appears to its right. Clicking the “ARROW BUTTON” opens the Expression Builder dialog. See “Expression Builder” on page 100.)

You may align the text vertically and horizontally within the object frame by clicking TEXT JUSTIFICATION. Allow long text to wrap to another line by checking Allow word wrap. Text wraps after a “space” between words.

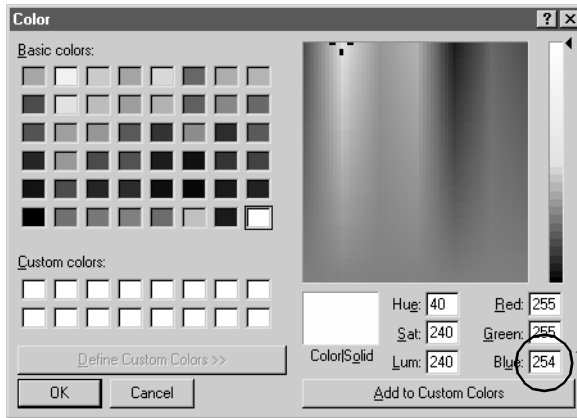
You may rotate the text object in 90° increments by clicking ROTATE. Text objects retain their vertical and horizontal justification when rotated.

You may change the font characteristics (typeface, size, style, color, etc.) by clicking FONT and COLOR in the “Text Foreground” box. In addition, if you select a scalable TrueType font, you may force long text to fit within a specific object frame size by checking

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REDUCE TO FIT. (Caution: “REDUCE TO FIT” can shrink text to an unreadable 2 pts. if necessary to make text fit within a text object boundary.)

Note that text cannot be pure white (the numeric value for white in the custom color window is: Red = 255, Green = 255, and Blue = 255). To make text *appear* white, go to the custom colors window and change any one of the color numeric values to “254.”



*Change this value to achieve “near white,” then add it to the Custom colors.*

You may fill the background of the text object with a color or make the object frame transparent by selecting either Transparent or Colored in the Text Background box of this window.

Repeat these steps for the remaining text objects you want to incorporate into your badge design.

## Expression Builder

The Expression Builder lets you create special text objects (which contain data from multiple database fields, plus literal text strings) and allow that data to be printed on a badge. With Expression Builder you can:



- extract portions of data from within a database field
- combine data with literal text
- create a single badge object which contains data from numerous database fields
- insert images into a 2D Superscript bar code
- create “what if” arguments to insert text only if certain conditions apply

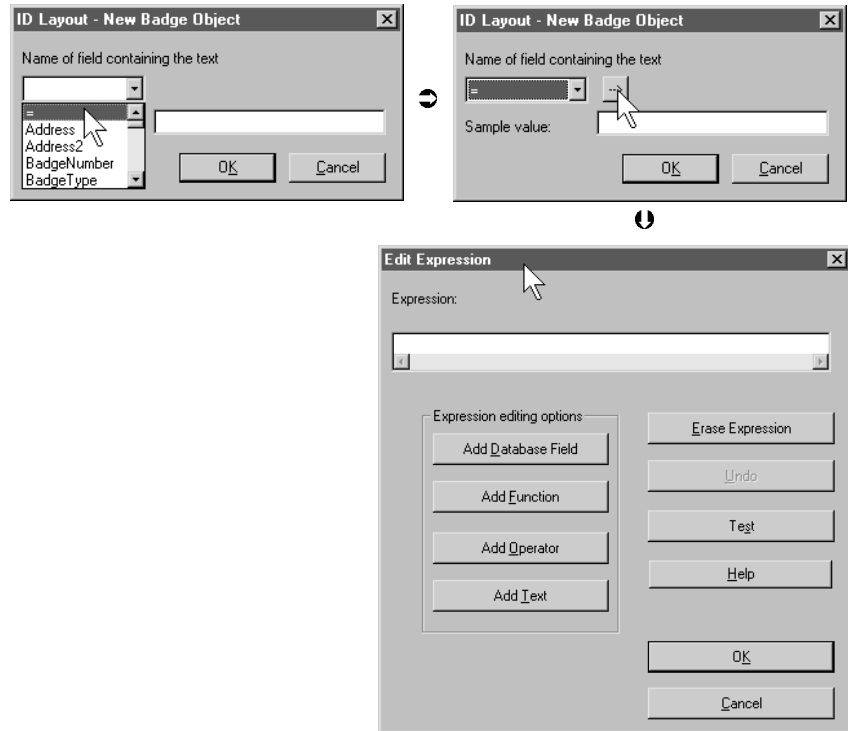


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## Badge Objects

- more...

When you select the equal sign (=) from the pick list of database fields in any Properties of Text dialog, an “arrow button” appears to its right. Clicking the “ARROW BUTTON” opens the Expression Builder dialog.



An editable Expression field allows you to type “expressions” manually, but you may prefer to use the easy “ADD...” buttons instead. Unlike other applications which limit you to the number of expressions or custom “data strings” you may use, the Expression Builder allows you to create an unlimited number of specialized displays of your data.

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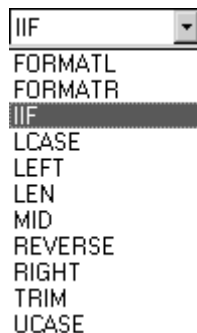
### Add Database Field button

Click this button to present a list of database fields. When you select a field and click “OK,” it is inserted into the Expression field.



### Add Function button

Click this button to present a list of formatting functions. Note: when a function is inserted into the expression edit field, it is followed by parentheses. The parentheses may have none, one or two commas embedded within them. You must mouse-click inside the parentheses, before or after the appropriate commas, to insert either a database field name, operator, or literal text, depending on the function you are using. Refer to the table below for descriptions of the functions.



Command	Format	Example
FORMATL	FORMATL( , )	FORMATL ([EmployeeID], 0000000000)
	<p>This argument “pads” the specified database field with the “mask” supplied after the comma. In this example, 10 zeros is the “mask,” meaning the employee ID field must have 10 characters; if the employee ID field contains less than 10 characters, zeros will be added to the right of the data until there are a total of 10 characters. If the employee ID is originally “12345,” the example above would result in: “1234500000.”</p> <p>12345=actual data                      0000000000=”mask”                      1234500000=final result</p>	
FORMATR	FORMATR( , )	FORMATR ([telephone], (716)00000000)
	<p>This argument “pads” the telephone database field with the “mask” supplied after the comma. The characters to the right of the comma is the “mask,” meaning the telephone field must have 13 characters; if the telephone number only has 8 characters (e.g., 575-2456), the portion of the “mask” to the left of the number will be added.</p> <p>575-2456=actual data                      (716)00000000=”mask”                      (716)575-2456=final result</p>	
IIF	IIF( , , )	IIF(NickName <> “”, NickName & “ ” & LastName, FirstName & “ ” & LastName)
	<p>This “if” statement reads: IF the field “NickName” does not equal nothing, i.e., is not empty, THEN insert the contents of the NickName field PLUS a blank space PLUS the contents of the LastName field, OTHERWISE insert the contents of the FirstName field PLUS a blank space PLUS the contents of the LastName field. (See Appendix D for a detailed description of the IIF statement.)</p>	
LCASE	LCASE( )	LCASE ([LastName])
	<p>This argument reads: Convert the contents of the LastName field to lower case letters. If the last name is Wilson, the result is: wilson</p>	
LEFT	LEFT( , )	LEFT ([LastName], 2)
	<p>This argument reads: Get the first two letters from the left side of the contents of the LastName field. If the last name is Wilson, the result is: Wi.</p>	
MID	MID( , , )	MID ([lastname], 2, 3)

Command	Format	Example
		This argument reads: Beginning after the second letter, get the next three letters from the contents of the LastName field. If the last name is Wilson, the result is: lso
REVERSE	REVERSE( )	Reverse ([LastName])
		This argument reads: Reverse the contents of the LastName field. If the last name is Wilson, the result is: nosliW.
RIGHT	RIGHT( , )	RIGHT ([LastName], 2)
		This argument reads: Get the last two letters from the right side of the contents of the LastName field. If the last name is Wilson, the result is: on.
TRIM	TRIM( )	TRIM ([LastName])
		This arguments reads: Remove all leading and trailing non-printing characters from the contents of the LastName field (e.g., spaces, tabs, returns, etc.). If a database editor inadvertently entered a "carriage return" after the last name, the TRIM command would remove it.
UCASE	UCASE( )	UCASE ([LastName])
		This argument reads: Convert the contents of the LastName field to upper case letters. If the last name is Wilson, the result is: WILSON

### Add Operator button

Add Operator

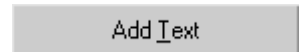
Click this button to get a choice of operators. Most operators produce numeric results.

Operator	Explanation
%	the % is the mod operator; it returns the remainder of a division. For example, 25 % 2 results in: 1; 10 % 3 results in: 1.
&	the ampersand is used to concatenate values. For example, [lastname] & " ," & [firstname] results in: Wilson, Jerry.
,	the comma separates statements. Note the commas in the following expression: IIF (argument, result1, result2).
/	the forward slash divides numbers. For example, 100 / 2 results in: 50
+	the plus sign adds numbers. For example, 100 + 50 results in: 150

Operator	Explanation
<	<p>the “less than” sign is a Boolean function returning a “true (1)” or “false (0)” value. Example: [Printcount] &lt; “4” results in a True or “1” if the record’s badge was printed less than four times.” Use this in an “IIF” statement. For example:</p> <p>IIF ([Printcount] &lt; “4”, “”, “Needs to be updated.”)</p> <p>This example would do nothing if the badge was printed less than four times; otherwise, the text “Needs to be updated.” would be displayed on the badge.</p>
<>	<p>this means “not equal to” and is a Boolean function returning a “true (1)” or “false (0)”. Use this in an “IIF” statement. For example:</p> <p>IIF ([Middle] &lt;&gt; “”, [Middle] &amp; “ ” &amp; [LastName], [FirstName] &amp; “ ” &amp; [Last-Name])</p> <p>This example says, “If the middle name does not equal nothing (two quotes with nothing between them represents “nothing”), that is, if the middle name field contains something, then add the middle name and last name. Otherwise, if the middle name field is empty, use the first name with last name.</p>
=	<p>this means “equal to.” For example, [Department] = “Engineering”</p> <p>Use this in an “IIF” statement. For example:</p> <p>IIF ([Department] = “Engineering”, “Engineer”, “”)</p> <p>This example says, “If the department field contains the text “Engineering,” then insert the word “Engineer” on the badge. Otherwise, don’t do anything.</p>
>	<p>the “greater than” sign is a Boolean function returning a “true (1)” or “false (0)” value. For example, [Printcount] &gt; “4” results in a True or “1” if the record’s badge was printed more than four times.” Use this in an “IIF” statement:</p> <p>IIF ([Printcount] &gt; “4”, “”, “Needs to be checked.”)</p> <p>This example would do nothing if the badge was printed more than four times; otherwise, the text “Needs to be checked.” would be displayed on the badge.</p>

Operator	Explanation
AND	<p>Use AND when you want a query to satisfy more than one argument. Individual arguments must be enclosed within parentheses. The AND operator is used with IIF statements. For example:</p> <p>IIF (([Clearance] = "5") AND ([Department] = "Security"), "Access Permitted", "")</p> <p>This states, "if the individual has a security clearance level of "5" and also is part of the "Security" department, then print the words "Access Permitted" on the badge. Otherwise, don't print anything."</p>
OR	<p>Use OR when you want a query to satisfy only one part of an argument. Individual arguments must be enclosed within parentheses. The OR operator is used with IIF statements. For example:</p> <p>IIF (([Clearance] = "5") OR ([Department] = "Security"), "Access Permitted", "")</p> <p>This states, "if the individual has a security clearance level of "5" or is part of the "Security" department, then print the words "Access Permitted" on the badge. Otherwise, don't print anything."</p>

#### Add Text button



The ADD TEXT button allows you to insert strings of literal text into an expression.



#### Test button



The TEST button will verify the syntax of the current expression. If the expression "passes," the Test window will display the result of the expression.

#### Erase Expression button



The ERASE EXPRESSION button clears the current expression.

#### Undo button



The UNDO button removes the last action taken.

When you finish designing your badge, pull down the FILE menu to SAVE or click SAVE on the tool bar to save your badge layout. Give the badge a descriptive name no longer than 8

characters and save it to the directory you specified in the “Server data path” field in ID Setup. IDentifier for Windows automatically adds a “.bdg” file extension to the file name. When you finish designing all your badges, consider returning to Configuration Management (IDentifier for Windows “home” ➤ Tools ➤ Configuration) to set your default badge layout.

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### *Using the “Insert Image” Command*

The Insert Image command is a particularly powerful feature in ID badge layouts. It is useful when different kinds of workers require specific images or logos on their badges. Consider a university setting: you may want all badges to use the same badge layout, but have all faculty badges contain an image of the university crest; all students’ badges to have an image of a book; and all support staff to have an image of the school building. Or consider an airport’s ID badge: using a single badge layout to identify the airport, all pilots’ badges must include a logo of the airline for which they fly. Instead of creating dozens of badge layouts, one for each airline and containing a static image of that company, use only one badge layout for pilots, but which will automatically insert the correct airline logo on their badge. In the example of the airport scenario, here is how this is accomplished:

1. In the Personal Data window of IDentifier for Windows, type in the name of the airline for each pilot in the Company Name field.
2. Scan images of each of the airlines’ company logos and save each image with the exact name being used in the Company Name field in the database. (For example, if you typed “Delta” in the Company Name field in the database, save your scanned image of Delta’s logo as “Delta.”) Because IDentifier for Windows only looks for badge layout images and designs in the directory specified in the “Server data path” in ID Setup, save these logos to that directory. (If you forget the “path,” go to Tools ➤ Configuration Management: the “Server data path” is identified in the Configuration Management window.)
3. In Badge Layout, pull down the Insert menu and select “Image.” In the resulting window, select the database field on which you are basing the association between text and graphic images. (In the example above, select the field “Company.”) That “object” now appears in the badge layout window where you may re-size, reposition or otherwise edit it as you would any other layout object.

- 
4. From now on, if the name of your image file matches the name entered in the text field in the database, IDentifier for Windows will display that image into the individual's badge.



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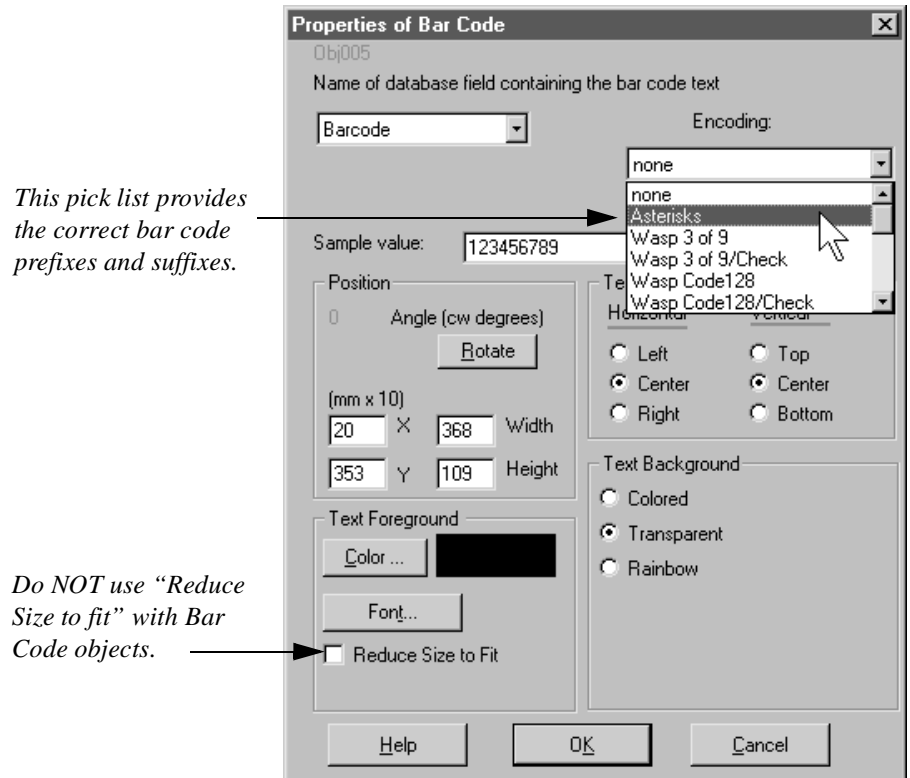
## *Bar Encoding*

Traditional “ID” bar code fonts (displayed as a series of black “bars” of varying thickness) vary widely in their implementation. For example, some bar code fonts will only allow the use of numbers (that is, you are not allowed to use letters in a bar code field); some will only allow the use of uppercase letters (if you insert a lowercase letter, the “translation” into the bar code font will fail). The Code 3 of 9 bar code font included with IDentifier for Windows allows alphanumeric entry, and will automatically convert data entered in lower case letters to the required upper case format. However, ensure that the data you enter into the database field (used for bar coding) follows the “rules” for the bar code font you will use.



## Bar Encoding

Data converted to a bar code font may be “encoded” in a variety of ways, depending on the individual font. Some encoding is simply a matter of providing a “start” and “stop”



character to instruct the bar code reader when to begin and end reading actual data. Other kinds of encoding involve complex algorithms to compress text and numbers, and embed error correction mechanisms into the actual “reading” of data.

Identifier for Windows provides automatic encoding for Code 3 of 9, the Wasp and Rivers Edge bar code families. (Use “Asterisks” for the Code 3 of 9 font.) First, select the correct encoding option from the pick list in the Properties of Bar Code dialog. The correct prefix and suffix will now be inserted automatically. (If the bar code font you are using does not appear in the pick list of encoding options, return to the Configuration Management window where you can manually enter the correct prefix and suffix as text strings in the Bar Code expression.) Next, click the FONT button to select your bar code font.

---

2D bar codes are a more recent innovation. They are noted for their ability to store very large amounts of data (relative to traditional 1D bar codes). For example, Datastrip's 2D Superscript can hold the entire contents of Abraham Lincoln's Gettysburg Address and still have room left over for more data. It can also store actual images, such as portraits



and/or fingerprints. Since it can hold all the data in a single database record (up to 2100 bytes), the 2D Superscript can be thought of as a static snapshot of a database record—a “portable” database, if you will. In addition, 2D Superscript offers tremendous built-in error correction—up to 50% of the bar code may be damaged due to wear, yet the data can still be “read.”

When you insert a 2D Bar Code on a badge layout, the Properties of 2D Bar Code dialog allows you to select a database field whose contents you want to be encoded in the 2D Bar Code. You may choose the database's Bar Code field (which allows the concatenation of multiple fields and strings of literal text) or any other field in the database. However, since the Datastrip 2D Superscript bar code can encode up to 2100 bytes of data, including images, you will probably want to use the Expression Builder to encode the contents of numerous database fields and text strings, as well as images. (If you are using Datastrip's 2D Superscript bar code and reader, please visit [www.datastrip.com](http://www.datastrip.com) for special instructions on implementing their bar code within IDLayout.)

When implemented in IDLayout, the Datastrip Superscript requires each text string, database field or image object to be placed on a separate “line.” If the data is not placed on its own “line,” the Datastrip 2D bar code reader may not correctly read the data encoded in it. These “virtual lines” are created in Expression Builder by separating each text string or database field with: & “\n” &. (The ampersand (&) is an instruction character telling Expression Builder to “add what follows;” backslash-n (\n) is the keystroke command for “carriage return” and as with any text string, must be enclosed within quotation marks; the trailing ampersand allows the concatenation of the next value to be encoded.)

Therefore, to create your 2D Superscript bar code in Expression Builder, use the ADD DATABASE FIELD button to add a database field. After each database field, use the ADD TEXT button to add the backslash-n required to create a “virtual line.” (If you use the ADD TEXT button to type the backslash-n, Expression Builder automatically encloses it within quotation marks.) A sample expression for use with 2D Superscript might look like the following:

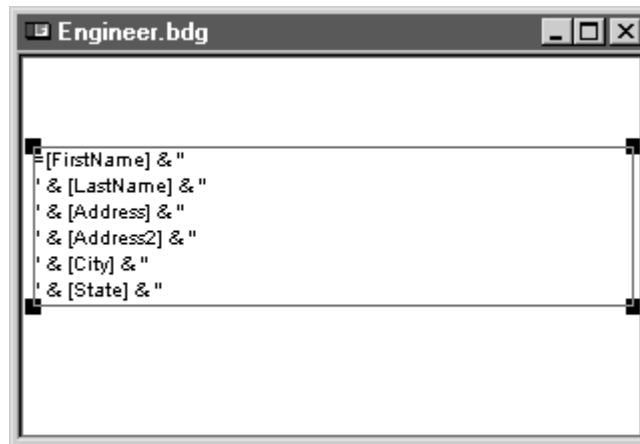
---

## Bar Encoding

[LastName] & "\n" & [FirstName] & "\n" & [SsNo] & "\n" & "portrait" & [imageID] & "\n" & "fingerprint" & [imageID]

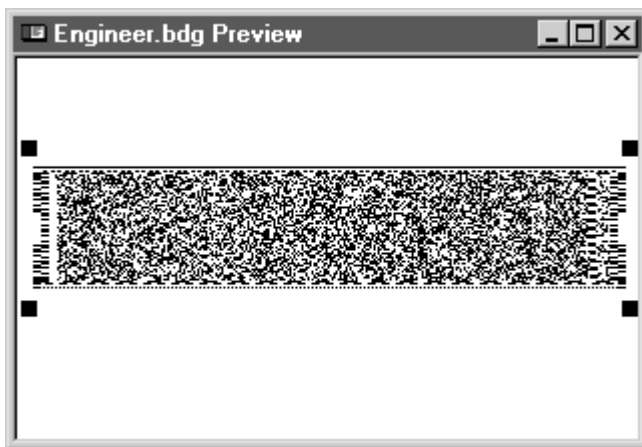
*NOTE: To insert images, you must manually type the name of the image (e.g., "portrait," "fingerprint," "signature") followed by a space character (spacebar); enclose the image name, including the trailing space, within quotation marks; type ampersand (&) followed by the database field "imageID"; as with all database fields in Expression Builder, fields must be enclosed within braces ([ ]). The "portrait" & [imageID]' must appear on its own "virtual line." Images are automatically compressed by Superscript; color images are converted to black and white in order to conserve space.*

The resulting 2D bar code object would appear in the badge layout as follows:



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If the badge is previewed (View menu ) Preview), the object would appear like this:



If your results are not as you expect, verify:

- that each field or text string is separated by an ampersand (&);
- that text strings begin and end with quotation marks (“ ”);
- that you have included a space after the words “portrait,” “signature,” and “fingerprint;”
- that you have re-sized the 2D bar code object on the badge (if you did not “stretch” the object large enough, the 2D bar code looks like a solid gray rectangle).

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## *Magnetic and Smart Chip Encoding*

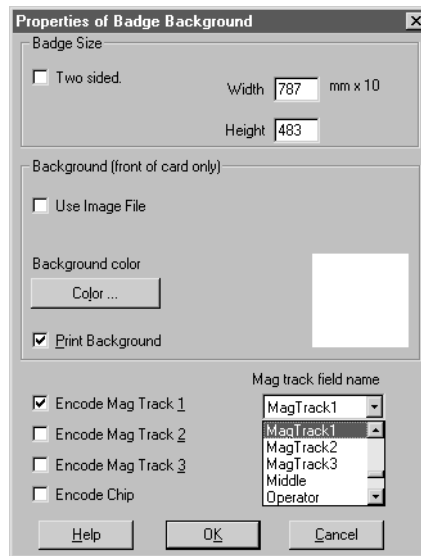
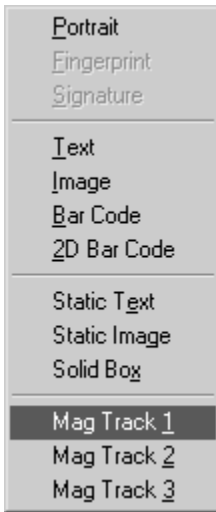
Magnetic encoding for card printers that support writing to a magnetic strip requires three areas of “setup”: 1) the “prefix” and “suffix” must be configured (described in “Encoding dialog” on page 55), 2) there must be data (text) in the “Mag Track” field(s) (described in “Encoding Formulas” on page 33), and 3) the mag track must be inserted onto the badge layout (described below).

“Smart Card” encoding for card printers that support sending data to a chip encoder requires two areas of “setup”: 1) the encoding method must be designated (described in “Encoding dialog” on page 55), and 2) you must select a database field containing the data you want encoded on the chip (described below).

## Magnetic Tracks in Badge Layout:

You have already set your printer's prefixes and suffixes, and created the data strings in the mag track fields. Now you must insert the mag track fields onto the badge layout. (Note: some card readers may only use data in track two, where other readers will look for data in all three tracks. Refer to your access control device's documentation to determine which tracks are used.)

You may add magnetic encoding in two ways. 1) Pull down the Insert menu and select Mag Track 1, Mag Track 2, or Mag Track 3. An alert window tells you that IDentifier for Windows has inserted the contents of your mag track field (created in the Configuration window) for encoding. A "check" beside the name in this menu indicates that that track is "placed" in the badge layout. 2) Or pull down the Edit menu and select Edit Background. A Properties of Badge Background dialog appears. At the bottom of this dialog window



are check boxes for "Encode Track 1," "Encode Track 2," and "Encode Track 3." Place a check in any of the tracks your card reader uses. A corresponding pick list of database fields now appears beside each check box. For each of the tracks you use, scroll through the list and select the corresponding mag track 1, 2, or 3 fields. The contents of your customized mag track fields will now be encoded by the card printer. The magnetic tracks will not appear on the badge layout, but IDentifier for Windows now knows to send that information to the printer whenever the card with that layout is printed.

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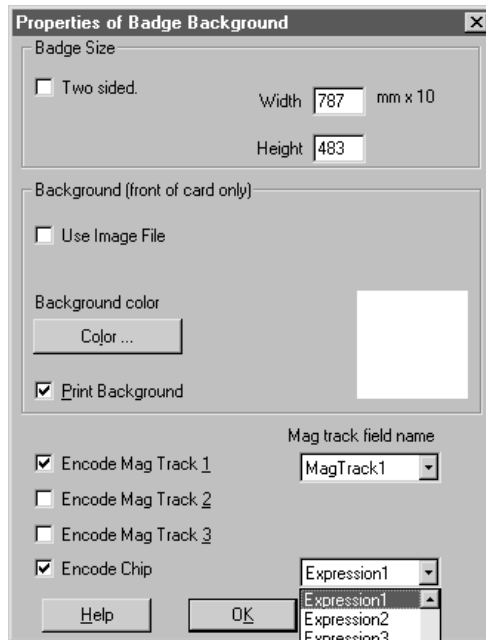
In some cases you may wish to select an alternate database field for magnetic encoding than what you specified in the Encoding Formulas section in the Configuration window. This is easily accomplished in Badge Layout. With the badge layout open, pull down the Edit menu and select Edit Background. In the Properties of Badge Background dialog, click the MAG TRACK check box you wish to change. In the corresponding pick list of database fields, select the new field you wish to have encoded.

## Chip Encoding

If your printer supports encoding “Smart Cards,” open the Properties of Badge Background dialog. (Either pull down the Edit menu and select “Badge background...” or left double-click an empty area of the badge layout.)



Place a check in the ENCODE CHIP check box. A list box appears in which you select the database field containing the data you want to encode on the Smart Card. Though you may



use any field in the database, it is likely that you will want to combine data from more than

one fields. Therefore, “build” your data string using one of the “expression” formulas in the Configuration window. (See “Encoding Formulas” on page33.)



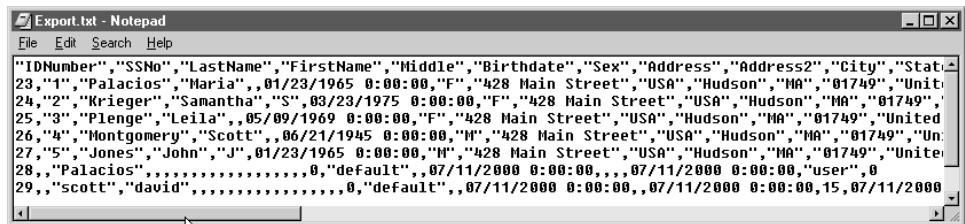


You export your data by clicking **TOOLS** ➤ **EXPORT** or **TOOLS** ➤ **EXPORT SELECTED RECORDS**.

### *Exporting the Entire Database*

Exporting an Identifier for Windows database lets you create a comma-delimited text file containing all the text data for every record in the database.

1. Click **EXPORT**. A Windows Save As... dialog opens where you are prompted to enter the path and name for the export file you want to create. Click **OK**.
2. An alert message confirms that the export text file was written as you specified. You may now import the data in this file into another database. Click **OK**.
3. From within Windows Explorer, open the export text file you just created. Though the data does not line up evenly, you can see that the data in each line follows the same order. The



**FIGURE 1. Export File**

first line of the text file identifies the names of the database fields. In the rows below, the contents of each of the database fields is listed in the same order. In both the first line and all subsequent lines below, the field name and field contents are separated by commas.

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## Exporting a Group of Records

In addition to EXPORT, there is an EXPORT SELECTED RECORDS button with a “Selection from report list:” pick list immediately below. The EXPORT SELECTED RECORDS button is disabled until you select a query from the report list. The “Selection from report list:” list



displays the names of your Reports. This allows you to export just the records which were queried for a report. (For example, if a report entitled “Contract Employees” is designed to display all individuals whose badge type is “Contract” and you want to export those records for use in another database, select “Contract Employees” from the pick list. The EXPORT SELECTED RECORDS button is now enabled. Clicking it will export those records.

Create a report for each group of records you are likely to want to export.

IDentifier for Windows offers two types of importing: “simple” and “advanced.” A “simple” import will append, if possible, data from an ASCII text file to the IDentifier for Windows database. Advanced import, on the other hand, offers you control over whether you will add or update records, whether the data resides in a text file or within a database table, plus the ability to “map” fields between the source and destination files. You arrive at both import options by clicking **TOOLS** ➤ **IMPORT** or **TOOLS** ➤ **ADVANCED IMPORT**.

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## *Simple Importing*

IDentifier for Windows imports data from any comma-delimited ASCII text file. There are only two requirements of the file to be imported: 1) the text file must be comma-delimited, and 2) the field names in the text file must exactly match the field names IDentifier for Windows uses.

### **Comma-Delimited:**

There are a variety of export formats (e.g., “dbf,” “tab-delimited,” “SYLK,” etc.). “Comma-delimited” means that the contents of the database are “dumped” in a text file, logically arranged in columns and rows. The database fields represent the “columns” and are separated from each other by commas; the “rows” represent each record in the database. You can see in Figure 1 on page 117, though the data does not line up perfectly with the names of the fields on the first line, IDentifier for Windows keeps track of the commas separating the field names and content of the fields from each other.

It is advisable that the application exporting the data enclose the data within quotation marks (“”). Otherwise, commas appearing within the data itself (e.g., “The Gap, Ltd.”) might be mistakenly construed as field delimiters.

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## Field Names Must Match:

If the field names (columns) of the export text file exactly match the field names used in Identifier for Windows, Identifier for Windows extracts the textual data from all the records in that column and inserts it into the corresponding field in the Identifier for Windows database. The order in which the fields appear (from left to right) do not have to match; Identifier for Windows will recognize the fields as valid and correctly import them into its own corresponding fields.

The comma-delimited text file must contain a “header” or “first row” identifying the names of each field. Before you try to import the data from the export text file, open the text file in a text editor and 1) verify that the first line of the text file contains the names of the database fields, 2) verify (and edit if necessary) that the field names exactly match Identifier for Windows’s equivalent fields, and 3) you may optionally enclose each field name in quotation marks. Each field name must be separated from the others by a comma, with the comma falling outside the quotation marks. Depending on the text editor you use, all the field names may not physically fit on one line. In that case, allow your word processor’s automatic text wrap to continue your field names on the second and third lines, with you entering a carriage return (Enter key) only when you finish all field name entries. When you finish editing the export text file, save it as a plain ASCII text file. Identifier for Windows’s IMPORT function only imports ASCII text files. If a field name in the export text file does not match exactly, then Identifier for Windows assumes that all the data for that column in the rows below do not belong in the Identifier for Windows database; the data in that field will not be imported.

If you do not want to import data from a field whose name exactly matches a field used in Identifier for Windows, rename the field in the export file to one not used by Identifier for Windows (e.g., “not\_used,” or “skip”). Because the field names will not match, Identifier for Windows ignores the data in those fields.

*Important! The **Import** button uses the field “IDNumber” in our application as the key field to compare records between two databases. Therefore, the source data file must also contain a field named “IDNumber” which stores a unique number for every record. (If the source file uses a differently-named field (e.g., EmployeeID), rename it in a text editor to “IDNumber.”) If the source data file contains records whose value in the IDNumber field is already in use by some of our application's records, those records will not be imported.*

### **Importing a File**



Click **IMPORT** in the Tools window. A Windows Open dialog allows you to navigate to the text file containing the import data. Select the file and click **OK**. **IDentifier for Windows** prompts you to confirm the action, then imports the data. It is now viewable in the **Personal Data** window.

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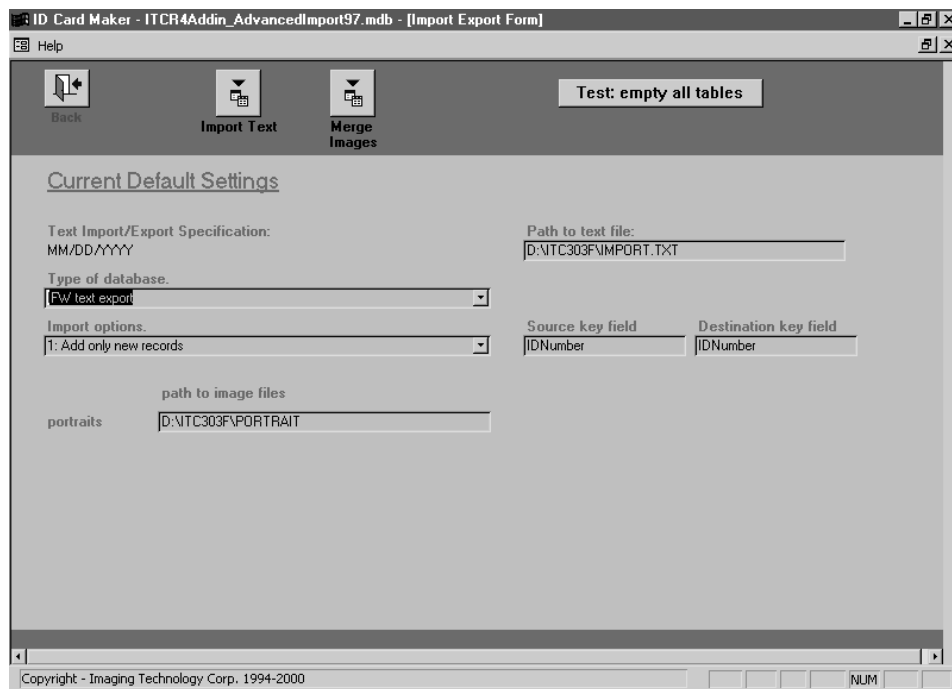
### *Advanced Import*



Level I  
EDU I  
Level II

The **Import** button in the Tools window only imports data that resides in a comma-delimited ASCII text file. While 100% effective as an import procedure, an ASCII text import requires numerous, and sometimes tedious, steps, such as exporting data from the source database, verifying or editing data for commas, quotation marks, and field names, etc. On the other hand, the **Advanced Import** allows you to open the source database directly and “map” the fields between **IDentifier for Windows** and the source file.

Launch Advanced Import by clicking Advanced Import in the Tools window. The Advanced Import window opens.



*Advanced Import window*

The Import text button launches a series of prompts in which you will specify the type of file containing the data you wish to import, and whether you are adding, updating, or adding AND updating existing records. The Merge images button launches a series of prompts allowing you to import images associated with the records you imported.



The text fields in the lower portion of the Advanced Import window display information about your previous import.

The process of importing or updating records requires you to select a field for use as a comparator. Sometimes called a “primary key” or simply “key field,” this field is used to

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## Advanced Import

compare records between two databases. If the data in this field is the same, it is assumed the records in each database refer to the same individual. If the data does not match, it is assumed that the records refer to different individuals. Before you proceed, therefore, you must determine the following critical information: is the data in the “key field” in the import file the same as data in the equivalent field in the existing database? In order to *update records that already exist*, the data in the “key field” must be identical. In order to *add new records* to the database, the data in the “key field” must NOT be identical. Depending on which type of import you perform, you may overwrite data in the database with information in the import file.

### Import Text

Click the Import text button to open the File Select window. There are four options.

Compatible ITC text file	This is a comma-delimited text file exported from an Identifier for Windows database. When this is selected, a Windows Open dialog looks specifically for a text (*.txt) file. Use this option ONLY if you have verified that the field names and field properties in the import file <i>exactly</i> match the fields in the existing database. Identifier for Windows will automatically use the “IDNumber” field as the “key field” to compare records in both databases.
Text file	This is a comma-delimited text file exported from any other database. When this is selected, a Windows Open dialog looks specifically for a text (*.txt) file. With this option, a “field mapping” window will open allowing you to “map” fields from the import file to the Identifier for Windows database. You will have an opportunity to specify the “key field” for use as a database comparator.

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Compatible ITC database	This is the “*.dat.mdb” file of an Identifier for Windows database. When this is selected, a Windows Open dialog looks specifically for a Microsoft Access (*.mdb) file. Use this option ONLY if have verified that the field names and field properties in the import file <i>exactly</i> match the fields in the existing database. (Unless you copy or rename your database, the name of this file is “ITCR4DAT.mdb.”) Identifier for Windows will automatically use the “IDNumber” field as the “key field” to compare records in both databases.
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MS Access database	This is the “*.mdb” file of any other Microsoft Access database. When this is selected, a Windows Open dialog looks specifically for a Microsoft Access (*.mdb) file. Using this option, you may select the specific table within the database whose data you wish to import, as well as “map” the fields from the import file to the Identifier for Windows database. You will have an opportunity to specify the “key field” for use as a database comparator.
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After selecting a file type in the File Select window, an Add/Update Select window opens. The three choices are:



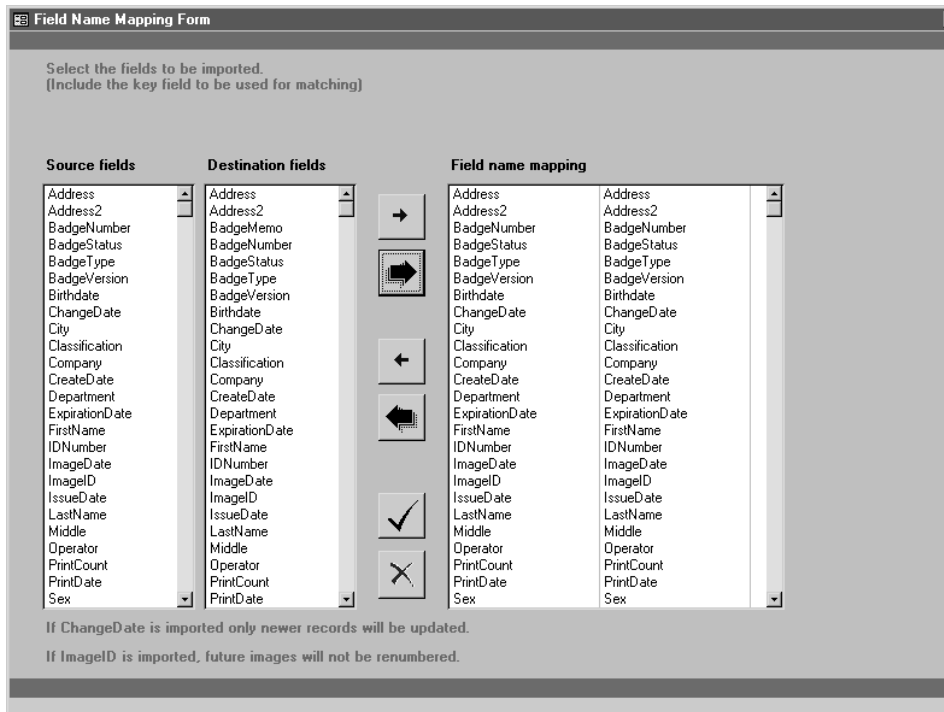
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## Advanced Import


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Add new records	Identifier for Windows will use a “key field” to compare the records in the import file to the records in the Identifier for Windows database. If the data in the “key field” of any records of the import file <i>are not</i> identical to data in Identifier for Windows’s “key field”, Identifier for Windows assumes that those individuals do not exist in the Identifier for Windows database; those records <i>will be imported</i> . All other records will be ignored.
Update existing records	Identifier for Windows will use a “key field” to compare the records in the import file to the records in the Identifier for Windows database. If the data in the “key field” of any records of the import file <i>are</i> identical to data in Identifier for Windows’s “key field,” it is assumed those records refer to the same individual and those records will be updated. That is, those records in the Identifier for Windows database will be over-written with data in the import file. All other records will be ignored.
Add or Update	Identifier for Windows will use a “key field” to compare the records in the import file to the records in the Identifier for Windows database. If the data in the “key field” of any records of the import file <i>are</i> identical to data in Identifier for Windows’s “key field,” Identifier for Windows will overwrite those records with the data from the import file. If the data in the “key” field is <i>not</i> identical, Identifier for Windows will add those records to the database.

If you are not importing a “compatible ITC text file or database,” after selecting an option in the Add/Update Select window, a Field Name Mapping window appears displaying two “panes:” left of the arrow buttons are the names of fields in the *Source* (import) file and *Destination* (Identifier for Windows) database; right of the arrow buttons are the mapped fields.




If fields are not named the same, yet contain equivalent data, you may “map” them. That is, you may instruct Identifier for Windows to insert data from a field in your database into any specified field in Identifier for Windows’s database. Click once on the field name in the Source column and click on its equivalent in the Destination column. After clicking


the  button, those two fields will display side-by-side in the right pane.



If you *double-click* on a field in either the Source or Destination column, Identifier for Windows will automatically search for an identically- or similarly-named field in the other column. If an identically- or similarly-named field exists, Identifier for Windows assumes they each contain equivalent data and maps them. (For example, if our program uses the field named “LastName,” it will automatically map “lastname,” “Last Name,” or



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## Advanced Import

“Last\_Name.”) Single-clicking a field and clicking the  button performs the same action.

If you click the  button, IDentifier for Windows searches all fields in both the Source and Destination files and maps those that are spelled identically or similarly. The mapped fields are displayed in the right pane.

To “un-map” fields, select the mapped fields in the right pane and click the  button, or click the  button to un-map all fields.


When satisfied that the fields are correctly mapped, click the  button. Click  to cancel the import.

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If you are not importing a compatible ITC text file or database, a Select Key Field window appears next. You must specify the unique field to be used as the “comparator” for the two databases.



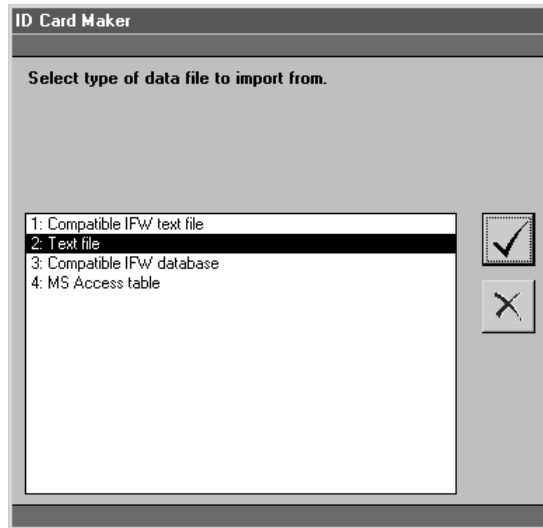
The Select Key Field window displays all the fields in the Source (import) file. Select the field which corresponds to Identifier for Windows’s “IDNumber” field. *The field you*

*select must contain unique numbers.* Click the  button to continue. Identifier for Windows calculates how many records may be added, updated, or added AND updated, and prompts you to continue. You are notified if the import was successful or unsuccessful.

## Merge Images



Click Merge images at the top of the Advanced Import window to import the images associated with records you have imported. In the Select file type window that appears,

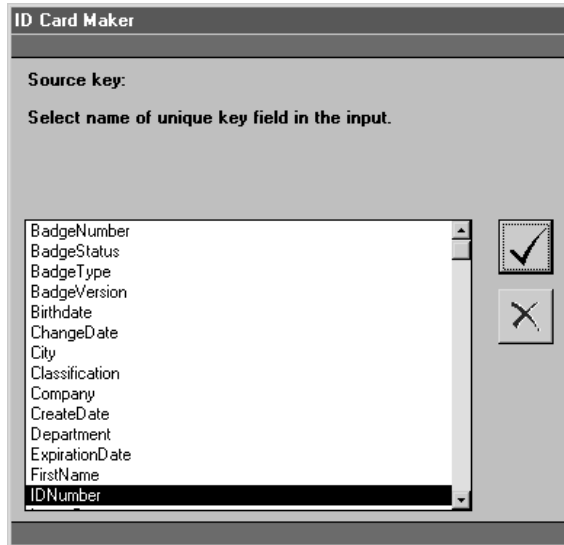


select the correct file type: Compatible ITC text file, Text file, Compatible ITC database, or other Microsoft Access database.

Select the correct file in the following Windows Open dialog.

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If you did not choose an ITC compatible text file or database in the previous window, two Select Key Field windows appears in which you first specify the “key field” in the Source

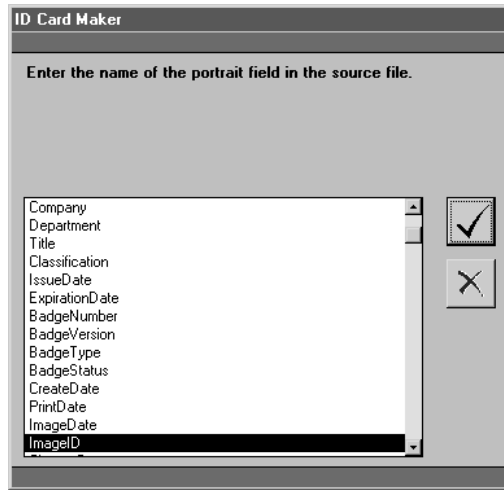


(import) file, and second, specify the corresponding field in the Identifier for Windows (destination) database.

---

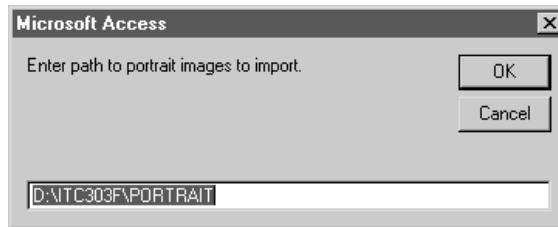
## Advanced Import

Next, you are presented with a window displaying all your Source (import) file's fields. You must select the field which contains the identifying name or number of the images.



(For example, Identifier for Windows stores the image names in the "ImageID" field.)

Finally, in the following dialog, enter the path to the folder where your import file's image



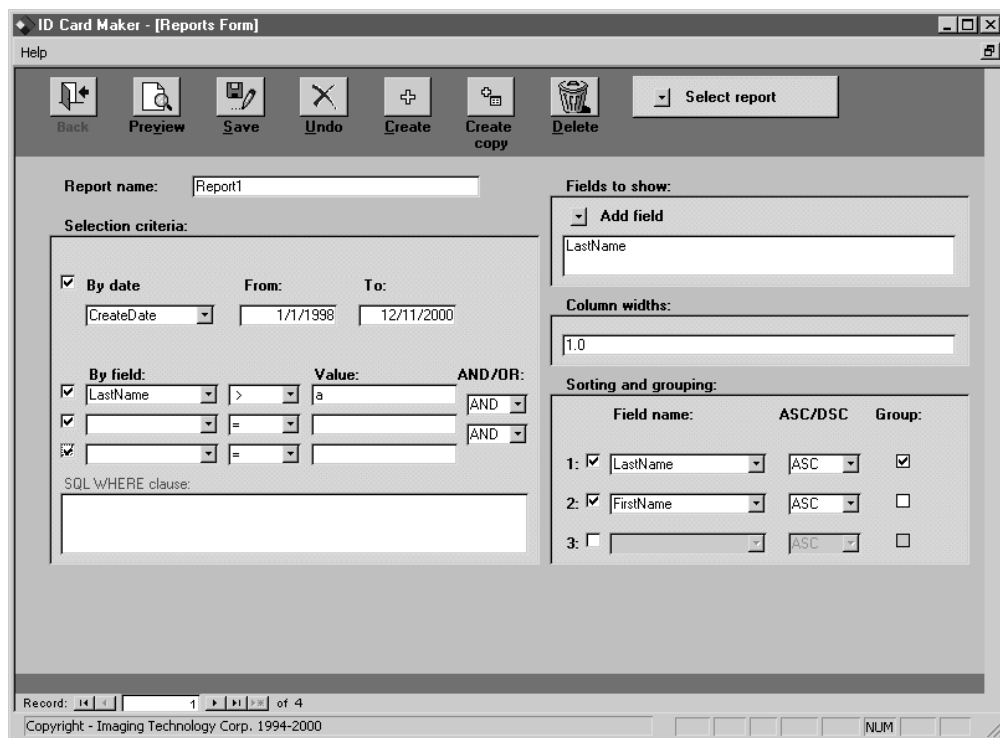
files are stored. Identifier for Windows reports that the images were successfully or unsuccessfully imported.





You arrive at the Reports window by clicking **TOOLS** → **REPORTS**.

The Reports window displays a variety of buttons:





After entering your report criteria, clicking PREVIEW displays a preview of the report. You may print your report from the Preview window.

PREVIEW

---



If you created or edited a report, clicking SAVE saves your changes.

SAVE

---



Clicking UNDO removes the last action taken in the Report window.

UNDO

---



Click CREATE to create a new report.

CREATE

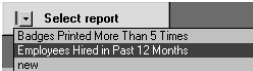
---



Click DELETE to delete the currently open report. (The open report is identified in the Report Name field.)

DELETE

---



Click the down arrow of SELECT REPORT to display a list of all saved reports. The selected report appears in the Report window.

SELECT REPORT

Creating a report requires three steps:

1. Specifying the query or search criteria for the records for which you want to view or print a report;
2. Specifying the database fields you want displayed in the final report; and
3. Specifying the Sort order of the final report.

Three areas of the Reports window allow you to customize these options.

---

## *Search Criteria*

Enter your search criteria in the box on the left side of this window. If you want to use a date as a search parameter, place a check in the BY DATE box. You can use date parameters as the sole criteria for your search, or in conjunction with other search parameters. (Or elect not to use a date parameter in your search by deselecting the BY DATE check box.) When you check the BY DATE box, the date fields become active. Select a date field from the pick list of database date fields which you want to use as the basis for your search, e.g., birth date, print date, expiration date, etc. In the FROM and TO fields, enter a starting and ending date for your search. You may enter the dates alphanumerically—that is, either as numbers (7/4/1997) or as text (July 4, 1997). You may even abbreviate the names of months (Feb 4, 1997). Double-clicking in a date field automatically enters the current (today’s) date. Remember to use 4-digit year dates if you set the Regional control panel’s Short date style to MM/DD/YYYY.

**Selection criteria:**

**By date**      **From:**      **To:**  
CreateDate      1/1/99      9/13/00

**By field:**      **Value:**      **AND/OR:**

LastName      >      a      OR

FirstName      >      a      OR

Middle      >      a      OR

SQL WHERE clause:  
[Empty text area]

Use the options under BY FIELD section to add search criteria. Place a “check” in the small gray box to the left of the FIELD pick list to make field criteria available. (Each time you click in an empty check box, another check box appears below. Clicking on the subsequent box(es) allows the use of up to three fields. When you add a second or third field, an AND/OR selection box appears. You may select either “And” or “Or” to specify whether the query should match *any part* or *all* of the search criteria.) With the FIELD box active, click on its pick list to select a database field on which to create search parameters. Click the down arrow of the OPERATOR pick list to select a Boolean operator. Last, enter a value in the VALUE box. (*Note: unlike the opening Search window where you were able to enter only a few characters in a field on which to search, you must type the field’s data in its*

---

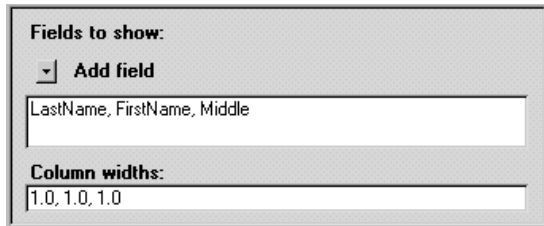
entirety. In a text field, enter the complete word or words for which you are searching; in a number field, enter the exact number, etc. For example, in the Search window, you can find all the records belonging to the Engineer department by typing “eng” in the Department field. To find all the “Engineer” records in the Report window, you must enter “engineer.”)

You can enter more complex “Where” statements in the “SQL Where” box using SQL expressions. (Refer to Appendix C for examples of SQL statements.)

---

## *Fields to Show in Report*

On the right side of the Reports window, the FIELDS TO SHOW section provides an ADD FIELD pick list to select any database fields you want to view in your report. IDentifier for Windows places your selected fields in the small text box below. Each time you select a field for output, it is appended to the end of the list. If you want to rearrange the order in which the fields appear on the report, use cut and paste commands in this window.



Fields to show:  
▼ Add field  
LastName, FirstName, Middle  
Column widths:  
1.0, 1.0, 1.0

## **Column Widths**

The data in a report is displayed in columns and rows. Rows correspond to individual records; columns correspond to the various database fields. You may specify the width of each “column” by entering a number (inches) in the COLUMN WIDTHS field. (Separate each number by a comma; specify column widths in the order they appear in the FIELDS TO SHOW field. For example, to make the First and Last names display in one inch columns, but have the Address display in a 2.5 inch column, enter: 1,1,2.5.)

## Sort Order

Finally, create a sort order by selecting a field for primary and secondary sort, and select whether the sort is in ascending or descending order. To view the results alphabetically by last name, place a check in the PRIMARY SORT check box, and select LastName in the list of database fields. In addition to simple sorting, you may create “sub-summary” sorts by selecting the GROUP RECORDS check box below the PRIMARY SORT or SECONDARY SORT fields. “Grouping” groups together all the records with identical values. For example, if

	Field name:	ASC/DSC	Group:
1:	<input checked="" type="checkbox"/> LastName	ASC	<input checked="" type="checkbox"/>
2:	<input checked="" type="checkbox"/> FirstName	ASC	<input type="checkbox"/>
3:	<input type="checkbox"/>	ASC	<input type="checkbox"/>

you choose the “Department” field for sorting and grouping, and your database contains “Engineer,” “Management,” “Maintenance,” and “Accounting” entries, all the records in the Engineering department will be grouped together, all the records in the Management department will be grouped together, and so on. You may sort the records within the groups by selecting an additional field for SECONDARY SORTING.

*Tip: When grouping, insert the field to be used for grouping at the beginning of the list of fields displayed for output.*

Click SAVE to save your report. Your saved reports appear in the SELECT REPORT pick list in this window, the EXPORT SELECTED RECORDS pick list in the Tools window, and the SET SQL FROM REPORT LIST on the “home page.”

## Preview and Print Reports

To preview and print your reports, click PREVIEW. The report appears in a preview window. (The mouse turns into a “magnifying glass;” click the mouse anywhere in the window to enlarge or reduce the report.) To print the report, pull down the FILE menu and select PRINT. Select PRINT SETUP from the FILE menu to select additional printing options. Select OUTPUT TO... to save a copy of the report to an external source. To close the preview window, pull down the FILE menu and select CLOSE.

---

---

*NOTE: The Report defaults to Windows' default printer. If you set a PVC card printer as your Windows default, the report will try to display (preview) in a window the size of your PVC card. The actual data may be distorted or not appear at all in the preview window. To correct this, pull down the FILE menu to PRINT SETUP. On the "Page" tab of this dialog, select a paper printer. The report will now display correctly.*

You repair and compact your database by clicking Windows' START button → IDENTIFIER FOR WINDOWS → REPAIR IDENTIFIER FOR WINDOWS APP and REPAIR IDENTIFIER FOR WINDOWS DAT.

Data in your database may become corrupted from time to time for a variety of reasons:

- power outage
- hardware problems
- corrupted system files
- other factors

In addition, repeatedly editing a database (such as changing personnel information or creating new records) causes the database to save or write these changes to disk inefficiently. Periodically, it is useful to “compact” the database by reclaiming unused disk space. Identifier for Windows includes Repair and Compact utilities in to address these issues.

The REPAIR IDENTIFIER FOR WINDOWS APP program repairs and compresses the non-variable application data; the REPAIR IDENTIFIER FOR WINDOWS DAT program repairs and compresses the variable data.



**Repair the application:** Select REPAIR IDENTIFIER FOR WINDOWS APP. Identifier for Windows immediately begins repairing the application. A “progress bar” at the bottom of the window shows that “repairs” are being performed. After a few seconds, a window appears informing

---

you that the application has been successfully repaired. Click OK in that information window to proceed. Another “progress bar” appears showing you that the application is being compacted. When completed, you are returned to the Windows desktop.

**Repair the data:** Select REPAIR IDENTIFIER FOR WINDOWS DAT. IDentifier for Windows immediately begins repairing the database. A “progress bar” at the bottom of the window shows that “repairs” are being performed. After a few seconds, a window appears informing you that the database has been successfully repaired. Click OK in that information window to proceed. Another “progress bar” appears showing you that the database is being compacted. When completed, you are returned to the Windows desktop.

Microsoft Access runs an internal “integrity” check each time you open a database. In rare instances, if your database is damaged, an alert window appears when you first try to launch IDentifier for Windows. The alert informs you that damage has been detected and that a repair will be attempted. Click YES in that alert window to initiate the repair. When the damage is repaired, the IDentifier for Windows database is opened.



# History

You arrive at the History window by clicking **TOOLS** → **DATA HISTORY**.

Identifier for Windows provides the ability to track changes made to specific records by clicking a **HISTORY** button in the Personal Data window. This shows “badge history” and “record events.” Identifier for Windows also creates a log of “application events” such as logons and logouts, and which tools a user has accessed, etc. To view the “application events” history, click **HISTORY** in the Tools window. A History window appears.



Level I  
EDU I  
Level II

Date	Workstation	Operator	Operation	Description
9/22/00 1:28:12 PM	cubby	user	TOOLS	Configuration Management
9/22/00 1:27:34 PM	cubby	user	LOGIN	user
9/22/00 11:12:51 AM	cubby	scott	LOGOUT	scott
9/22/00 11:01:21 AM	cubby	scott	PERMISSIONS	Delete david
9/22/00 11:01:19 AM	cubby	scott	PERMISSIONS	Delete scott
9/22/00 10:59:21 AM	cubby	scott	TOOLS	View User Permissions
9/22/00 10:59:16 AM	cubby	scott	TOOLS	Configuration Management
9/22/00 10:59:11 AM	cubby	scott	LOGIN	scott
9/22/00 10:59:06 AM	cubby	scott	LOGOUT	scott
9/22/00 10:58:49 AM	cubby	scott	TOOLS	View User Permissions
9/22/00 10:55:50 AM	cubby	scott	TOOLS	Configuration Management
9/22/00 10:55:47 AM	cubby	scott	PERMISSIONS	Edit scott
9/22/00 10:55:38 AM	cubby	scott	TOOLS	View User Permissions
9/22/00 10:55:34 AM	cubby	scott	TOOLS	Configuration Management
9/22/00 10:55:21 AM	cubby	scott	PERMISSIONS	Edit scott

---

There are two categories of buttons at the top of the History window: *Activity* buttons and *Column* heading buttons.

### Activity buttons:



The BACK button returns you to the Tools window.

BACK

---



RECORD

The SYSTEM/RECORD buttons toggle between viewing “record events” and “system events.” The buttons are distinguished by a “show ID” and “don’t show ID” symbol. The “ID” refers to the ID number of individual database records. Clicking RECORD displays a history of every change made to every database record. Clicking SYSTEM displays a history of just the application events.



SYSTEM

---



DELETE OLD HISTORY

The DELETE OLD HISTORY button allows you to delete a range of “history” records older than a record you specify. NOTE: this operation deletes BOTH “record event” history and “system event” history.

---



PRINT HISTORY

The PRINT HISTORY button captures a screen shot of the entire history window and immediately prints it to your default sheet printer.

### Column heading buttons:

Clicking the column heading buttons sorts the records below in ascending and descending order. To view the history records sorted by date, click the DATE button; to view the records sorted by workstation, click the WORKSTATION button. Clicking a button a second time reverses the sort order.

---



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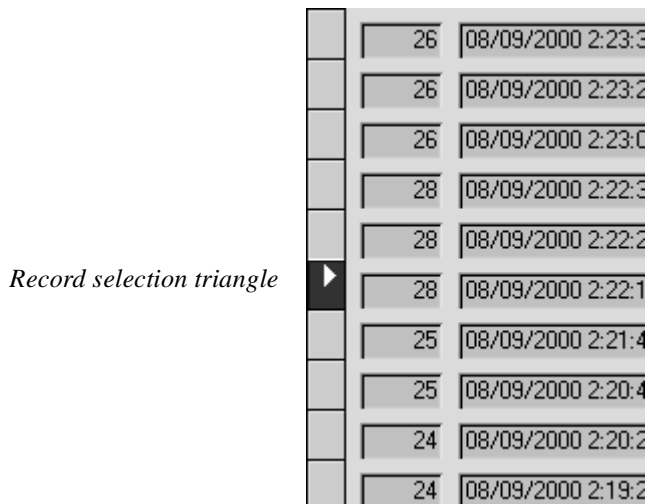
<b>ID</b>	The ID column only appears if you clicked the RECORD button. The ID number corresponds to the Identifier number in the Persons Found window, located immediately below the orange heading “Record History.”
ID	
<b>Date</b>	The Date column records the date and time an event occurred.
DATE	
<b>Workstation</b>	The Workstation column records the name of the workstation at which an event occurred.
WORKSTATION	
<b>Operator</b>	The Operator column records the logon name of the user who performed an action.
OPERATOR	
<b>Operation</b>	The Operation column records the area of the program accessed or the action performed in a record.
OPERATION	
<b>Description</b>	The Description column records a more detailed description of the event or action if applicable.
DESCRIPTION	

### Deleting History Records:

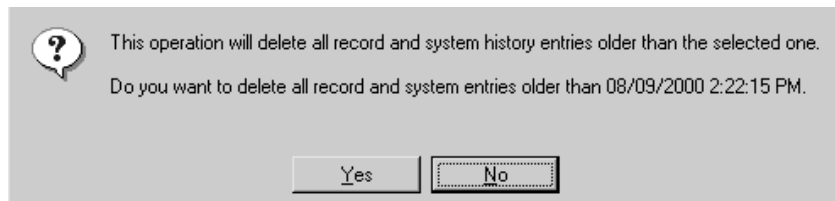
If your history “log” has grown old and long, you may wish to delete unneeded records. The deletion of records is based upon records’ dates older than a record you select. To delete records, first select a record whose date comes before those you wish to delete. (Select a record by clicking once in the left margin; a “record selector”—triangle—

---

appears in the margin.) Click DELETE OLD RECORDS. A dialog appears asking you to con-



firm the deletion. Click YES. All records older than the one you selected will be deleted.



### Printing History:

You may wish to print your history for a variety of reasons. Simply click the PRINT HISTORY button. Screen shots of your History window will immediately print through your default printer.



## Changing Languages

---

IDentifier for Windows implements languages through the use of simple ASCII text files. Two separate ASCII files are created for each language. Each file contains all the English words and sentences used in IDentifier for Windows's forms, alert messages and user prompts, *plus* their foreign language equivalent. Each language file is named with the name of its language, plus the file extension “.lxm” and “.lxc.” Thus, the Spanish language file is named “Spanish.lxm and Spanish.lxc,” and the German language file is named “German.lxm and German.lxc,” etc.



You select a language by clicking the GLOBE button in the initial Logon window. The GLOBE button opens a Select Language window in which any file with an “.lxm” file extension is displayed. (To make a language file appear in this Select Language window, simply copy it to the Server data path directory. The file must have an “.lxm” file extension.)

There are two parts of the IDentifier for Windows application where languages must be configured:

- the application's Forms (its windows, buttons and alert messages), and
- the names of the Database Fields.

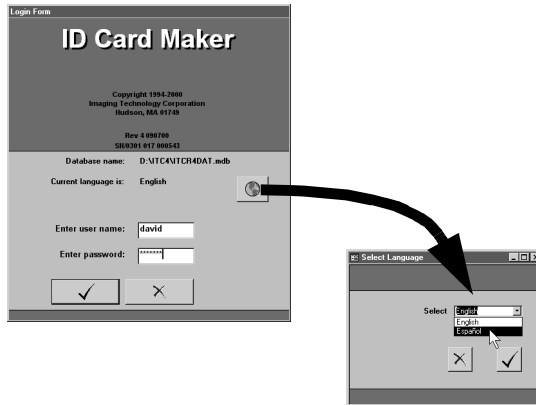
*Note: If you have already begun creating records, export these to a text file before you proceed. You will need to rebuild your User Field table to reflect the new database field names in the new language; the User Field table must be emptied (i.e. its records deleted) before it can be rebuilt.*

If you wish to convert IDentifier for Windows to another language, follow the instructions below.

---

## Converting to an Alternate Language

At the logon window when you first launch IDentifier for Windows, click on the GLOBE button. You are taken to a “Select Language” window in which you may select any language that appears there. Click the ✓ button. You will immediately see “progress bar”



activity at the bottom of the window as IDentifier for Windows rewrites all its forms, buttons and alert messages. You are returned to the opening logon window where you may now enter your user name and password.

You will notice, however, that though much of IDentifier for Windows’s “interface” is now, indeed, in the new language, the names of many of the database fields are still in the original language. To convert these to the alternate language, go to TOOLS➤CONFIGURATION➤DATABASE MANAGEMENT➤FIELD DEFINITIONS➤RESTORE button. Clicking RESTORE brings up a standard Windows “open dialog” box. Select the file corresponding to your alternate language (this file will end with an “\*.fdf” extension) and click OK. You are prompted to confirm your selection. Next, return to the Database Management window and click the MODIFY THE CURRENT DATABASE ACCORDING TO THE CURRENT FIELD DEFINITIONS button. After the User Field table is rebuilt, all of IDentifier for Windows is now in the alternate language. (Remember, the Field Definition file contains all the information about the fields in the User Field table. It will, therefore, contain the field names in their appropriate language.)


*Note: If the corresponding Field Definition file for the language you desire does not already exist, simply create one by going to the Edit Field Definitions window and rename the database fields in the desired language. When done, save the Field Definitions file by clicking the ARCHIVE button and provide an appropriate corresponding language-name. If the User Field table is empty, you may immediately rebuild the User Field table by*

*clicking* MODIFY THE CURRENT DATABASE ACCORDING TO THE CURRENT FIELD DEFINITIONS in the Database Management window.

---

### *Editing or Adding Another Language*



If the desired language does not appear in the Select Language window when you click the LANGUAGE button at the Logon window, or you want to customize Identifier for Windows's existing language for local idioms or regional spelling, you may create new language files for your needs. Go to TOOLS  CONFIGURATION and click the EXPORT LANGUAGE button. This exports Identifier for Windows's English and current alternate language form labels, user prompts and alert messages to two ASCII text files: an \*.lxm and \*.lxc file. You will edit these files to achieve the desired language or translation.

When you click EXPORT LANGUAGE, a Select Language window appears displaying all currently installed languages. Select the language you want to edit from this list, and click OK. (If you wish to create a brand new language file, it does not matter which file you select from within this window.) Identifier for Windows immediately exports the text for its forms and user prompts to two ASCII text files: an \*.lxm and \*.lxc file. (The \*.lxc file contains the text for all the forms' *captions*; the \*.lxm file contains all the text for the applications *messages*.) The files are named with the name of the current language with the word "NEW" appended to the end. Thus, if the current language was Spanish, the newly created language files would be named "SpanishNEW.lxm" and "Spanish-NEW.lxc." They are saved to the directory specified as the Server data path.

You may open the newly created ASCII text files in Windows NotePad or in a commercial database application. (The ASCII text files are comma-delimited. That is, the text in the files are logically arranged in three columns, with a comma separating the "columns" from each other. The first column, "ITC Message," provides the name of the form label, message or user prompt in question. The second column, "English Message," provides the English version of the label or message. The third column, "Alternate Message," provides the alternate language equivalent of the English.) Edit the text for Identifier for Windows's form labels, user prompts and alert messages as desired. Use the English version of the labels and messages ("ITC Message") as the "source" for your translation. *Only edit the text in the third column ("Alternate Message")!* When you rebuild the Personal Data and Search forms, the text in the Alternate Message column will be used for display in Identifier for Windows. After editing the ASCII text files, save your changes and rename the files with an appropriate name reflecting the editing you have done.





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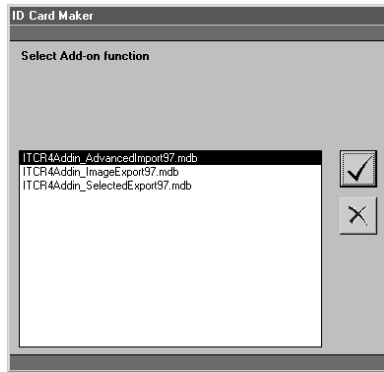
You arrive at the “Add-ins” components by clicking Tools ➤ Add-ins.



Add-ins are automatically included in the higher-level products, and may be purchased separately in some lower version products. As new Add-ins become available, they may be purchased separately, as well.

---

When you click the Add-ins button, a Select Add-in window opens.



Two Add-ins are available:

- Image Export
- Select Export

Selecting an Add-in and clicking the ✓ button launches the Add-in.

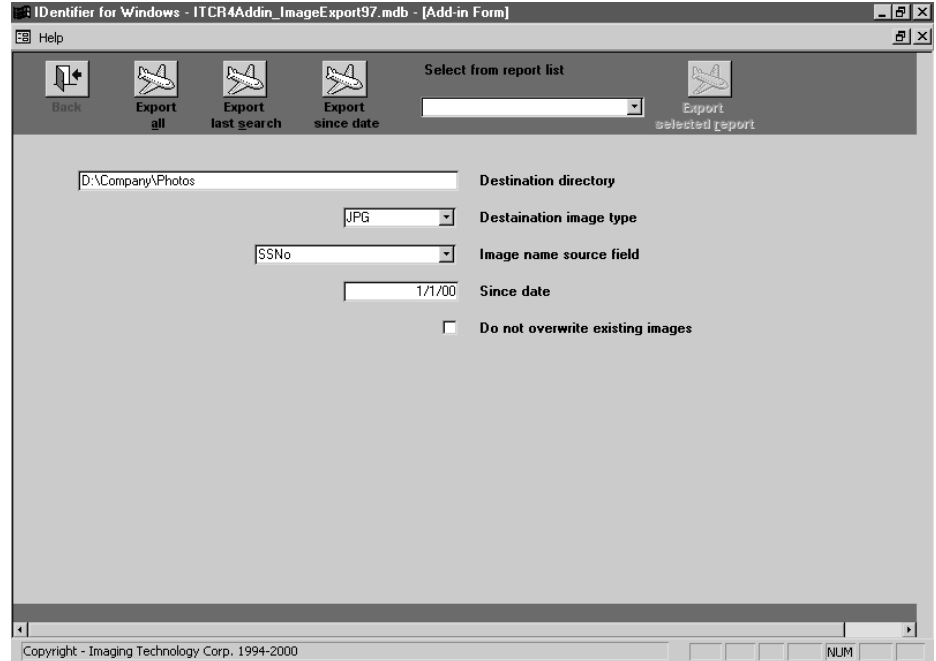
---

## Image Export

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### *Image Export*

When you select Image Export in the Add-in dialog, the Image Export window opens.



Export all

The Export all button will export all images that have been captured.



Export last search

The Export last search button “remembers” the last query you performed and will export the images for that “found set” of records.



Export  
since date

The Export since date button will export the images for all records that have been modified (data edits, image capture, badge print, etc.) since the the date you specify in the “Since date” text field.



Export  
selected  
report

The Export selected report button will export the images for records that are “found” using the Report query. Select the Report from the SELECT from report pick list. (This button is disabled until a Report is selected.)

Below the buttons are additional options:

Destination Directory

Enter the path to the directory where you want the exported images to be saved. The path and folder must already exist; IDentifier for Windows will not create the folder for you.

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Destination image type

Select from the pick list the image file format you want the images saved as.

---

Image name source field

Select the database field which stores the name of each individual’s image. IDentifier for Windows uses the ImageID field to record each image’s “name.”

---

Since date

Enter a date in this field. All images whose records were modified on or after this date are exported.

---

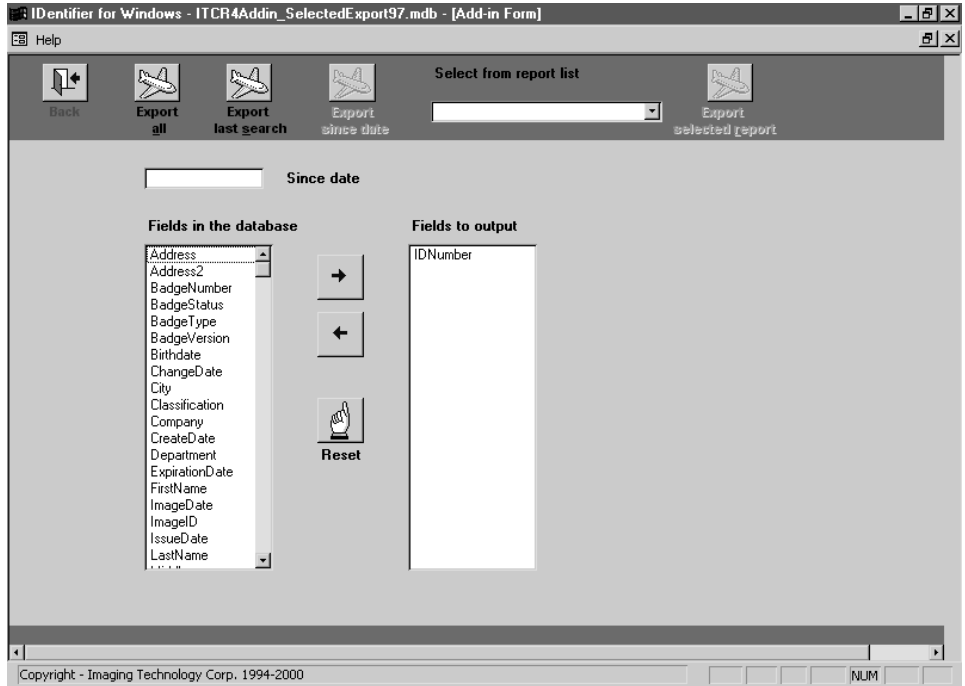
Do not overwrite existing  
images

Check this box if you do not want IDentifier for Windows to over-write images if they already exist in the destination directory.

## Selected Export

### *Selected Export*

When you choose Select Export from the Add-ins window, the Selected Export window opens. In contrast to the Export button in the Tools window which exports ALL the data



in the database, the Selected Export Add-in allows you to export the data from select database fields for a group of records.



Export all

The Export all button will export data from all records in the database.



Export last search

The Export last search button “remembers” the last query you performed and will export data for that “found set” of records.



Export since date

The Export since date button will export data for all records that have been modified (data edits, image capture, badge print, etc.) since the date you specify in the “Since date” text field.




Export selected report


The Export selected report button will export data for records that are “found” using the Report query. Select the Report from the Select from report pick list. (This button is disabled until a Report is selected.)

Below the buttons are additional options.

A Since date field allows you to enter a date. Only data in records that have been modified on or after the date you enter here will be exported.

Two scrolling lists display Fields in the database and Fields to output. The Fields in the database shows every field in the database. Double-clicking a field name (or

single-clicking and pressing the right arrow button ) moves it to the Fields to output list. Only data from the fields listed in the Fields to output list will be exported.

Clicking the Reset button () clears all fields in the Fields to output list.

## *The Search Form* *(“home”)*

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When you first launch IDentifier for Windows, IDentifier for Windows’s “home page” appears. Most of IDentifier for Windows’s commands and functions are “button driven.” That is, the most commonly used functions such as printing, searching, capturing images, etc. are initiated by clicking an easily identifiable button. The “home page” offers the following buttons

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## The Search Form (“home”)

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Copyright - Imaging Technology Corp. 1994-2000

*Identifier for Windows's “home”*



EXIT

The EXIT button is used to exit Identifier for Windows. Always use EXIT to quit Identifier for Windows rather than the standard Windows “close” boxes at the corner of the windows; failure to do so may leave temporary files open, wasting disk space and RAM.



SEARCH

The SEARCH button initiates a query of the database based on the search criteria you enter in the text fields below. If you do not enter any search criteria and click SEARCH, *all* records will be found.



CLEAR

The CLEAR button erases all the search criteria previously entered so you may quickly begin a new query.



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## Searching for Records

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CREATE

The CREATE button immediately presents an empty database record so you may enter new personnel data.



PASSWORD

The PASSWORD button allows the Identifier for Windows user to change his or her logon password. The PASSWORD button does not appear until at least one user account with System administration privileges has been created. (For security purposes, frequent changes in user passwords is highly recommended.)



Level I  
EDU I  
Level II



LIST SELECT

The LIST SELECT button allows you to immediately call up records for groups of people whose names (or other identifying information) are already listed in a text document.



TOOLS

The TOOLS button takes you to an area where Identifier for Windows's "tools" are located, e.g., setting application preferences, designing ID badges, importing and exporting data, etc.

In the main body of the "home page" are "Search fields." When you first install Identifier for Windows, the "Search fields" are pre-defined. You may add or delete fields from this Search window by adding or deleting your database fields' Index property. (See "Attaching to Another Database" on page 78.)

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## *Searching for Records*

You may search for an individual's record or groups of records from this Search window. Identifier for Windows offers five methods for performing searches:

- Searching with a Roster List
- Searching with Indexed fields
- Searching with the "Alternate" field
- Searching with SQL
- Searching with Report Queries

The indexed search fields appear in the top left of the Search window and are named "SS No," "Last Name," "First Name," "Status," "Company," and "Department." (The fields in this window may be different if you deleted or changed the Index property of fields in the Database Management portion of Identifier for Windows.) The "Alternate" field is a pick

list box that lists every field in the database. The SQL search and sort fields appear at the bottom of the window only if SQL has been enabled in IDentifier for Windows’s Configuration window.

### Searching with a Roster List

If your organization’s third-party software for recording personnel information can also generate comma-delimited ASCII text files, these text files may be used as a query tool. For example, if someone uses third party software to export the student ID’s of all the students on the Junior Varsity football team, and gives it to you as a text file on a floppy disk, you may easily find those records by clicking LIST SELECT, and selecting that file within Windows “open dialog.” A query for those students is immediately performed and displays those students in IDentifier for Windows’s Personal Data window.



In order to use an external file as a roster list:

1. The third party application must save the data to an ASCII text file (a file with a “.txt” for its file extension). The file may contain data extracted from any field in the third party software as long as there is an equivalent field in IDentifier for Windows’s database. The file may contain data from more than one field used by the application. (It is easiest to export a single field representing a value unique to each record, such as a student or personal ID number.)
2. If the application exports data from more than one field, the values must be separated by a comma. For example, if the application generated first, middle, and last names, the data must look like: “David, Cameron, Scott” for every student in the list.
3. The text file must be edited so that a new first line is added. The first line must name the database field(s) containing the information in the list below (e.g., firstname, middlename, lastname). Each database field name must be separated by a comma. If more than one field is used, the database field names must be in the same order as the exported values (i.e. if the list shows all the students’ last names first, the first line of the text file must also show the lastname first).
4. The field name typed in the first line of the text file must exactly match the equivalent field in the IDentifier for Windows database. (For example, if the third party application exports data from the “student\_number” field, but IDentifier for Windows uses the field “IDnumber” as the equivalent, edit the text file so “student\_number” is renamed “IDnumber.” If the word is mis-typed, the query will fail.)
5. If the first line of the external text file contains multiple fields (e.g., firstname, middle-name, lastname), only student names in the list which contain all three names will be “found.” That is, if a student is entered in the list as “David, Scott”, he will not be displayed in the resulting Personal Data window; only if his name appears as “David,

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## Searching for Records

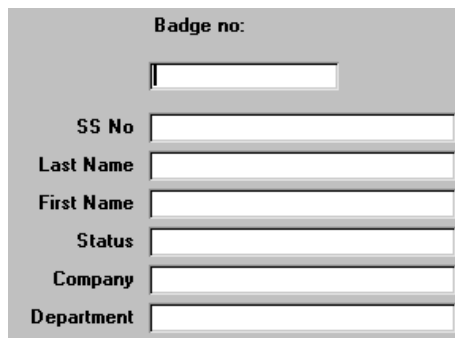
Cameron, Scott” will he be “found.” Names must “match” the criteria of the first line in this text file in order to succeed.

Alternately, you may easily create your own Roster Lists from the Batch window.

1. In the Search window, enter search criteria to find the desired set of records and click SEARCH.
2. In the Personal Data window, click BATCH.
3. In the Batch window, click CREATE FROM SELECTED RECORDS. IDentifier for Windows prompts you to name and save the found set of records as a roster list. (In the future, you may add or remove individuals from this roster list. See “Batch” on page 177.)
4. From now on, you may use this and other “Batch created” rosters lists from the Search window to quickly find a group of records.

## Searching with Indexed Fields

The text fields displaying in the top left of the Search window are indexed for faster searches. When a field is “indexed,” Microsoft Access creates a hidden list of the contents of this field for every record in the database. It can find data faster by looking first in this “index” rather than “physically” searching each record for the data. You may index any field in the database. (See “Attaching to Another Database” on page78.) All indexed fields appear in the Search window.



A screenshot of a search form with the following fields:

<b>Badge no:</b>	<input type="text"/>
<b>SS No</b>	<input type="text"/>
<b>Last Name</b>	<input type="text"/>
<b>First Name</b>	<input type="text"/>
<b>Status</b>	<input type="text"/>
<b>Company</b>	<input type="text"/>
<b>Department</b>	<input type="text"/>

Enter a “value” (text, date or number) that is unique to the individual for whom you are searching in the corresponding search field. (For example, type the person’s social security number in the “SS No” field.) After entering this unique value in the search field, click SEARCH. The individual’s record appears in the resulting Personal Data window. If you know a unique value for an individual, your search will always be successful. If you do not know these unique values, you will need to use other fields to perform your search. In



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## The Search Form (“home”)

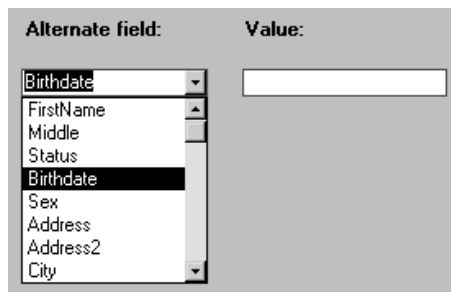
a small database you might successfully find the person named “Ernesto” by typing “Er” in the First Name field. In a large database, however, typing “Er” might also find all the “Ernie’s,” “Ernest’s,” and “Ernestine’s,” etc. Therefore, to find only “Ernesto,” you might need to enter his entire first name, last name, and possibly date of birth as well, in the corresponding fields. If you do not know an individual’s unique value, enter as much information in appropriate fields as you can. The more data you enter, the more likely the search will yield the individual for whom you are looking. Searches in these fields use Microsoft Access’ “like” operator (which finds records containing data “like” that which is entered), so it is not necessary to enter the complete word. But entering partial information in the Value field may find more records than you intended.

If more than one record matched the search criteria, the “record status bar” at the bottom of the window indicates how many records were found. Click the left or right arrows to advance forward and backward through the found set of individuals (or use the Page Up and Page Down keys on the keyboard) until you find the one for whom you are looking.



## Searching with “Alternate field”

You may perform a search of any field in the database using the ALTERNATE FIELD pick list to the right of the indexed search fields. The ALTERNATE fields are not indexed so the search may take a little longer depending on the size of your database. Select a field from

A screenshot of a search form interface. On the left, under the heading "Alternate field:", there is a vertical list box containing the following items: Birthdate, FirstName, Middle, Status, Birthdate (highlighted), Sex, Address, Address2, and City. To the right of this list is a text input field labeled "Value:". The entire interface has a light gray background.

this list and type the search criteria in the VALUE field to the right. Searches in this field use Microsoft Access’ “like” operator (that is, it finds records which contain data “like” that which is entered), so it is not necessary to enter the complete word. But entering partial information in the VALUE field may find more records than you intended.

You may also enter SQL expressions in an ALTERNATE FIELD (see “Searching with SQL” immediately below). SQL “arguments” in the ALTERNATE FIELD must begin with an equal

---

## Searching for Records

sign (=). Once the equal sign is entered, the search is no longer based upon Microsoft's "like" function; a search for "wil" will not find "Wilson."

If more than one record matched the search criteria, the "record status bar" at the bottom of the window indicates how many records were found. Click the left or right arrows to advance forward and backward through the found set of individuals (or use the Page Up and Page Down keys on the keyboard) until you find the one for whom you are looking.

## Searching with SQL



Level 1  
EDU 1

If you checked the option "Enable SQL" in Identifier for Windows's Configuration window, two separate fields display at the bottom of the Search window. The first field, "SQL WHERE clause," allows you to use a variety of "SQL" (Structured Query Language) search functions. (Appendix B shows examples of common Microsoft Access SQL expressions.) The second field, "SQL ORDER BY clause," instructs Identifier for Windows to sort the search results by the field(s) entered in this text box.

SQL WHERE clause:	<input type="text"/>	Set SQL from report list
SQL ORDER BY clause:	<input type="text"/>	Add field to ORDER BY clause

*Note: There may be occasions when you inadvertently enter an invalid SQL search string. Microsoft Access may present an error message stating it cannot perform the search you requested. If you find yourself in a "loop" of error messages, simply press the Escape key on your keyboard. This will "clear" the query from memory and allow you to start over.*

- Literal text must be enclosed within quotation marks ("")
- Dates must be enclosed within pound signs (#)
- Arguments containing AND or OR must be enclosed within parentheses
- A WHERE clause can contain up to 40 expressions linked by logical operators, such as And and Or

Follow the examples below when entering SQL expressions:

[fieldname] [Boolean operator] [value]

lastname = "Scott"

lastname BETWEEN "a" And "m"

---

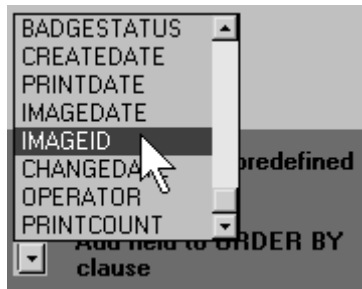
## The Search Form ("home")

EmployID BETWEEN 1 And 200

salary > 21000

### Sorting with SQL SORT BY

If your search is designed to find a group of records, you may sort the results alphabetically or by date (depending upon which field type you use for the sort). Type a field name in the SQL ORDER BY clause field, or select the sort field using the pop-up ADD FIELD TO ORDER BY pick list. Identifier for Windows defaults to sorting the search results in ascending order. If you wish to sort the results in descending order, type a space after the field name, followed by "desc" without the quotes (e.g., LastName desc).



### Searching with Report Queries

In addition, you may easily perform searches based upon the queries you created in the Reports window. Click the SET SQL FROM PREDEFINED REPORT button to pop-up a list of your Reports. The search and sort criteria used in the selected report will be inserted into the "SQL Where clause" and "SQL ORDER BY clause" fields.



<b>SQL WHERE clause:</b> [CreateDate between #01-01-1999 00:00:00# and #09-13-2000 00:00:00#] AND (LastName > "a")	Set SQL from report list
<b>SQL ORDER BY clause:</b> .LastName,FirstName	Add field to ORDER BY clause

After entering the search criteria, press Enter on your keyboard or click SEARCH.

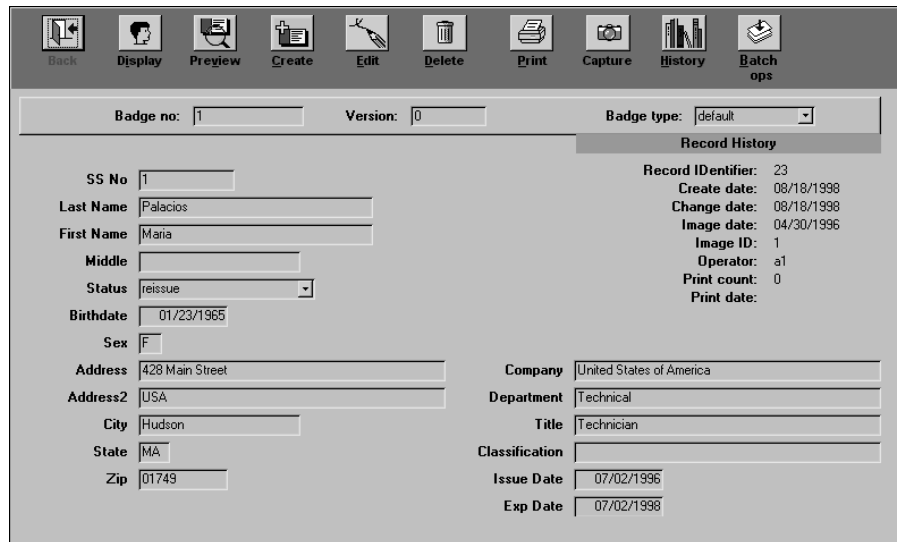


To clear all the data in the search fields, click ERASE ALL.



# The Personal Data Form

After performing a search for one or more records, IDentifier for Windows brings you to a Personal Data window. This window displays the result of your search. At the top of this window are easily identifiable buttons:



Record History	
Record Identifier:	23
Create date:	08/18/1998
Change date:	08/18/1998
Image date:	04/30/1996
Image ID:	1
Operator:	a1
Print count:	0
Print date:	



The BACK button returns you to the previous window, the Search or “home page.”

BACK

---



DISPLAY

The DISPLAY button displays captured images for the individual. *Note: If you captured portraits, fingerprints and signatures, but later deselected fingerprint and/or signature in IDServer Setup, the deselected images will not display. Also, if you specified more than one “Instance” of portrait, fingerprint or signature capture in IDServer Setup, but canceled any of the image captures, some display windows may appear blank with a red “X” in them—denoting that an image was not captured. You may close image windows with a single click by clicking an empty area above or between the buttons at the top of this window.*

---



PREVIEW

The PREVIEW button displays a preview of the individual’s ID badge. Close the badge preview window by double-clicking inside the badge or clicking the “close box” at its top-right corner.

---



CREATE

The CREATE button creates a blank record in which you may immediately enter new data. When you click CREATE, the CREATE button turns into a SAVE button. Clicking SAVE saves the record.

---



EDIT

The EDIT button enables editing a record’s data. Until you click EDIT, the database fields are “grayed out”—un-editable. If you click EDIT, the EDIT button turns into an UNDO button. Clicking UNDO removes the last action taken in a database field.

---



DELETE

The DELETE button deletes the current record. You are given a warning to confirm the deletion before the record is actually deleted.

---



PRINT

The PRINT button sends the current record’s badge to the printer. Depending on which option you selected in the Printer Options dialog of IDServer Setup, the badge may be printed immediately or sent to a print queue.

---



CAPTURE

The CAPTURE button initiates image capture. You will be presented with as many “capture windows” as you specified in IDServer Setup (e.g., 2 portraits, 10 fingerprints, 1 signature, etc.)





HISTORY

If you enabled “Data history” or “Badge history” in Identifier for Windows’s Configuration window, a HISTORY button presents a history of badges issued and/or all actions performed on the current record. (Identifier for Windows will not start logging “events” until after the Badge History or Data History options are enabled.)



BATCH

The BATCH button allows you to perform edits, prints and deletes on more than one record at a time. It also allows you to create and edit roster lists.

Note: if you enabled DISPLAY PERSONAL DATA FORM AS A LIST in the Configuration window, the following window appears after clicking SEARCH:



Record ID:	LastName	Badge layout:	Badge number:	Image ID:	Version:	Create date:	Change date:	Image date:
1	Goldham	default		1	0	1/2/99	9/4/00	10/8/98
2	Wombadden	default		2	0	10/30/98	6/22/99	11/8/98
3	Wombadden	default		3	0	10/27/98	12/22/98	6/7/00
4	Stevenstein	example		4	0	8/18/99	12/7/99	9/23/99
5	Kipplestem	default		5	0	4/21/99	12/17/98	2/22/99
6	Killbloom	default		6	0	5/13/99	12/28/99	10/31/98
7	Stevensides	default		7	0	7/10/00	7/14/99	7/7/99
8	Wormson	default		8	0	11/17/99	1/11/99	12/23/98
9	Walbadden	default		9	0	6/12/99	12/17/98	11/2/99
10	Bernstein	example		10	0	5/25/00	5/11/00	2/13/99
11	Walton	default		11	0	10/16/98	12/2/99	12/29/98
12	Kipplesides	default		12	0	6/28/00	5/10/00	4/18/99
13	Walsmith	example		13	0	2/23/00	8/10/00	5/28/99
14	Hammerton	default		14	0	1/28/99	4/21/99	8/19/99
15	Montton	example		15	0	1/9/99	9/15/99	2/20/00
16	Jamesstein	default		16	0	5/9/99	5/30/00	5/13/99
17	Stevenbloom	example		17	0	8/29/99	4/18/99	11/9/99
18	Macstem	default		18	0	12/7/99	12/23/98	10/17/99
19	Montberg	example		19	0	3/18/00	12/14/99	10/14/99
20	Killham	default		20	0	10/6/99	2/20/99	5/8/99
21	Macstem	default		21	0	9/7/99	10/7/99	10/9/98
22	Stevenstem	default		22	0	2/14/99	2/1/99	7/2/00

Personal Data form viewed as a list

Records in the database are viewed in columns and rows. Each column represents a database field; each row represents a database record. Clicking on any record selector (triangle

in the left margin of the window) takes you immediately to that record in the original Personal Data form. Once in the original Personal Data form, double-clicking in the empty, gray area below the text fields returns you to the “list view.” You may re-arrange the order of the columns in “list view” by clicking one on the column heading to select it, then clicking and dragging the column left or right to a new position.

---

### *Create and Edit Records*

Click EDIT to change data in an existing record, or click CREATE to create a blank record to enter data for a new individual. Use the “Tab” or “Enter” keys to move the cursor from one field to another. (Use “Shift-Tab” to move the cursor backwards through the fields.) Alternately, you may mouse-click in the field in which you wish to enter information. When your cursor is in a pick list field—a field whose arrow on the right side indicates that a pick list is available for additional options—you may click on the down arrow or press “Alt-↓” to make the list of choices available. Begin entering the individual’s information.

When you have finished entering information, click SAVE. If you change your mind and do not want to create or save the record you are editing, click UNDO at the top of the window. An alert message asks if it is OK to undo the changes you made. If you do not want to save the data you entered, click YES to return to IDentifier for Windows’s “home page.”

If, after saving a record you discover you must add, delete, or change data, click EDIT again. The text fields are now editable. When done, click SAVE to save your changes.

If you want to delete a record, click DELETE. A warning appears on-screen asking you to confirm your choice, and offers the option to delete the record’s images as well.

---

### *Badge Printing*

Depending on whether or not you chose USE BATCH PRINTING in the Printer Options dialog of IDServer Setup and which option you selected for BATCH QUEUE MODE, the following occurs when you click PRINT:

1. *If you did not select batch printing:* the individual’s badge prints immediately.



---

## Badge Printing

- If you selected batch printing-Always Ask:* a dialog box pops up offering two choices: PRINT NOW and QUEUE. If you click QUEUE, the badge you just commanded to print is



If printing to a card printer



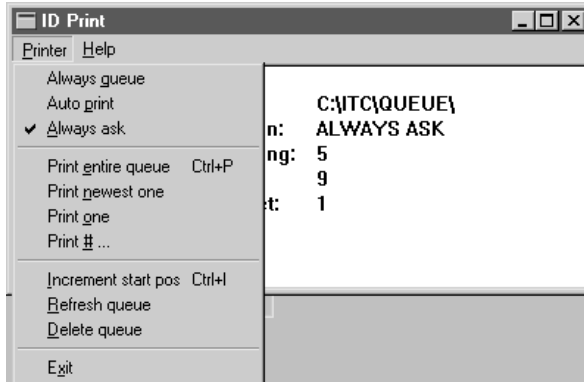
If printing to a sheet printer

sent to the queue awaiting later print instructions. If you want to PRINT NOW, you can choose to print only the one badge for which you just clicked PRINT, or print all the badges currently held in the queue. Select either PRINT ENTIRE QUEUE or PRINT MOST RECENT, then click PRINT NOW. (You might have a batch of badges held in the queue for later printing, but your boss walks in and wants his or her ID badge printed NOW! When you call up that record and click PRINT, this dialog allows you to print the most recent—the boss’—without waiting for all the other badges to print). If USE SHEET FORMATTING is enabled, this dialog will also allow you to specify where on the sheet layout the queued badges will begin to print. (This allows you to re-use a pre-printed badge form if several panels on the form have already been used.) Click the “+” button to advance the starting position on the sheet.

- If you selected batch printing-Auto Print:* one of two things may happen. If SHEET PRINTING is not enabled, the badge prints immediately. If SHEET PRINTING is enabled, the card is queued until the page is filled with cards. (Use the Sheet Layout dialog in IDServer Setup to determine how many cards are printed on a single sheet of paper—when that number of cards is reached in the queue, the page automatically prints.)
- If you selected batch printing-Always Queue:* the badge is always sent to the queue awaiting later instruction to print the contents of the queue.

## ID Print

When you click PRINT (or ADD TO QUEUE from the Batch window), Identifier for Windows's "ID Print" program launches in the background; its program icon appears on Windows' Task Bar. Selecting ID Print brings the application window to the front. In the ID Print window, you may pull down the PRINTER menu to select a variety of print options.



ALWAYS QUEUE	This is the same option you set in the Printer Options dialog of IDServer Setup. With this option selected, badges will always be sent directly to the print queue to await later printing.
AUTO PRINT	This is the same option you set in the Printer Options dialog of IDServer Setup. If SHEET PRINTING is not enabled, the badge prints immediately. If SHEET PRINTING is enabled, the card is queued until the page is filled with cards.
ALWAYS ASK	This is the same option you set in the Printer Options dialog of IDServer Setup. With this option selected, a dialog box prompts you to print the badge now or queue it.
PRINT ENTIRE QUEUE	Selecting this will immediately print the contents of the queue.
PRINT NEWEST ONE	Selecting this option prints the most recent print request. This allows you to print one badge while leaving the remaining badges in the print queue for later printing.

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## Capture Images

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PRINT ONE	Selecting this option prints the first badge in the print queue. (If badges “1,” “2,” “3,” “4,” and “5” were queued for printing, the first time you select PRINT ONE, badge “1” is printed. The next time you select PRINT ONE, badge “2” will be printed, and so on.)
PRINT # ...	Selecting this option allows you to print a specified number of badges currently held in the print queue. Selecting it brings up a dialog in which you enter the number of badges to print. If you selected USE SHEET FORMATTING in the Printer Options Dialog of IDServer Setup, note that the “number” refers to the number of pages to print, not individual badges.
INCREMENT START POSITION	This option is only enabled if you selected USE SHEET FORMATTING in the Printer Options dialog of IDServer Setup, and allows you to specify where on the sheet layout the queued badges will begin to print. (This allows you to “re-use” a pre-printed badge form if several panels on the form have already been used.) Note: the number must match the numbering scheme you set in the Sheet Layout dialog: the numbers run either top to bottom or left to right.
REFRESH QUEUE	This option refreshes the queue to reflect changes due to the completion of printed badges.
DELETE QUEUE	Selecting this option will delete the contents of the print queue.
EXIT	Selecting EXIT quits the ID Print program. It will automatically restart the next time you send a badge to the print queue or instruct IDentifier for Windows to print a badge. NOTE: The queue must be empty before changing from sheet printing to card printing.

---

## Capture Images



Click CAPTURE to take portrait, signature and fingerprint images. The CAPTURE button remembers your settings from IDServer Setup in which you specified which hardware “capture” devices you are using, and how many images of each type you wish to capture. If you only checked the “Portrait” option in IDServer Setup, CAPTURE prompts you to take

a portrait. If you checked the fingerprint and/or signature options in IDServer Setup, you will be prompted, in turn, to take each of those images.

(If you are using a Video for Windows or TWAIN device and configured Identifier for Windows for that device in IDServer Setup, the moment you click CAPTURE your TWAIN or Video for Windows software is launched. Your image capture options are then executed outside of the Identifier for Windows environment. Only after you click “save” or “transfer” from your TWAIN or Video for Windows software are you returned to the Identifier for Windows application.)

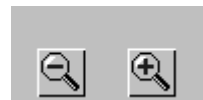
### Portraits

Click CAPTURE in the Persons Found window. If using Imaging Technology Corporation’s AutoLite, the portrait light automatically turns ON and a live video window appears.



To the left of the live video image are two buttons: a green ✓ and a red ✕. The ✓ button is used to “freeze” the live video as a still picture. The ✕ button is used to “unfreeze” the image and return to live video. At the bottom of the video image are several additional buttons: ZOOM OUT, ZOOM IN, BACK LIGHT, and VIDEO CONTROL.

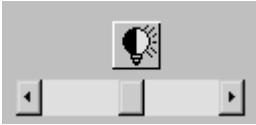
**Zoom** Two small icons of magnifying glasses control the zoom features. The “-” and “+” buttons control zooming-out and zooming-in. Clicking either button begins the zoom. Clicking the button a second time stops the zoom and holds the picture at that new level of magnification. (If “Number Lock” on your keyboard is OFF, the “+” and “-” keys on the numeric keypad also control the same functions.) Once you set the zoom (how much of the person’s face fills the frame), you may manually center the image by clicking and dragging anywhere within the video field, repositioning the image. Typing “5” on the



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## Capture Images




numeric keypad returns the image to its original position. Make any adjustments desired to center the person's image within the video field.



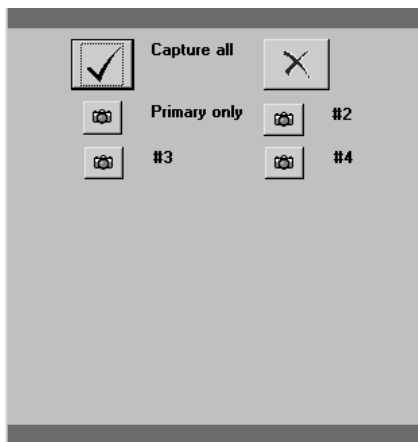
**Back light** The back light compensation is manipulated using the left- and right-arrows of the BACK LIGHT compensation slide. Clicking the left arrow decreases back lighting. Clicking the right arrow increases back lighting. Adjust until you are satisfied with the video image. (Do not use back lighting adjustments with a flash lighting setup.)



**Video Control Panel** The VIDEO CONTROL PANEL button brings up the FlashPoint setup window allowing you to adjust various capture settings. (See “Graphics Definition dialog” on page 43.)

With the individual's image centered in the video field, and the color and brightness satisfactorily set, click ✓ freezing the video image. The ✓ button turns into a  icon. This indicates that clicking it will save the image to your disk. If the image is acceptable, click . If you enabled the BRIGHTNESS/CONTRAST option (in the Capture Options portion of the Graphics Definitions dialog of IDServer Setup), a second video window appears enabling you to adjust the image's brightness and contrast. Drag the Brightness and Contrast slide bars to achieve the desired effect. (Reset the Brightness and Contrast levels to the original setting by clicking the miniature icons to the left of each slide bar.) Click  in the Brightness/Contrast window to save the portrait to disk. If you are not satisfied, click ✕ to cancel the image capture and return to live video. Repeat the steps above until you capture a good image. The image is saved to the Portrait Folder within the ITC directory unless you specified a different location on your hard drive or network.

If you enabled multiple image captures in the Graphics Definition dialog of IDServer Setup, a “Multiple Image Capture” window similar to the following will display:

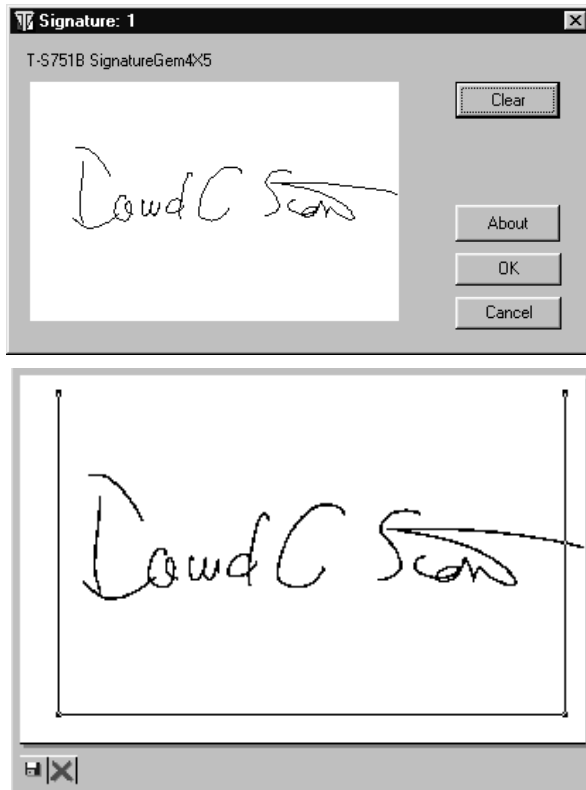


A “capture button” for each of the “instances” you specified will be present. You may either click the large CAPTURE ALL button to capture all the specified images, or capture a single image. Ordinarily, the PRIMARY ONLY button refers to the individual whose name is in the database record. The additional images may be used for parents, guardians, school teachers, or other individuals. In this way you may easily retake a guardian’s or teacher’s portrait without having to re-take everyone else’s.

## Signatures

After saving the portrait(s), the signature capture screen appears. Have the individual sign his or her name firmly on the signature pad using the special stylus. The signature appears in the on-screen signature window. If the signature is satisfactory, click OK. If it is unacceptable, click the CLEAR button. Immediately after saving the signature image, a cropping window appears. Drag a corner of the cropping rectangle so it encloses the person’s signature. Move the cropping rectangle by clicking and dragging it. (Hint: for best results, crop as closely to the actual signature as possible. Leaving extra “white space” around the signature degrades the image quality of the final signature.) Remember, you can adjust the thickness of the “pen” by returning to the TOOLS ➤ CONFIGURATION ➤ IDSERVER SETUP ➤ MORE beside the Signature option and click DEVICE SETUP where you may reset the thickness of the “pen.”) *Note: If you reset the pen’s thickness, the change will not be visible during the “live” signature capture. Only when you are in the cropping window which immediately follows will you see the difference.*





*Re-size and drag the cropping window so it encloses the signature.*

If you enabled multiple signature captures in the Signature Graphics Definition dialog of IDServer Setup, the “Multiple Image Capture” window will appear.

### **Fingerprint**



Level 1  
EDU 1

After the signature has been saved, the fingerprint capture window appears. Follow the steps above to capture and save the fingerprint.



*Fingerprint Capture window*

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## *History*

If you enabled either Badge History or Data History in the Configuration window, a HISTORY button appears in the Personal Data window. Depending on what you enabled, clicking HISTORY presents a History window displaying one or two kinds of history: *history of badge issues* and *history of specific actions taken on a record* (such as text edits, dates of image capture or badge printing).

If Badge History is enabled and a record's badge has been printed at least once, clicking HISTORY takes you to the Badge History window. (Otherwise, if Badge History is enabled but the badge has not yet been printed, you are taken to the Data History window. Badge



Level I  
EDU I  
Level II

## History

history and Data history buttons toggle between the two views.) A “record count” indica-

Click here to review a “history” of changes from badge print to badge print.

*Badge History form*

tor at the bottom-left corner of the window indicates the number of times a badge has been

Record: 1 of 5

printed. The first record (indicated by a number one in the record indicator) refers to the most recently printed badge. Scrolling back through the records is like looking back in time; each record is a “snapshot” of the data in that record the moment the previous badge was issued. As you scroll through the records, fields whose data is different from the record *as it is now* are highlighted in orange. A PREVIEW button allows you to view each version of the individual’s badge; “old” data is displayed in the preview window exactly as it was originally printed.

---

## The Personal Data Form

To view the history of actions performed on a record, click the DATA HISTORY button at the top of the window. Each row in the scrolling window reflects an event or change in a data-

Date	Workstation	Operator	Operation	Description
8/7/00 1:17:53 PM	pentium75	user	EDIT	Field=Notes, -> Up and comer...in line for big promotions
8/7/00 1:17:53 PM	pentium75	user	EDIT	Field=Title, Dir. Training -> Vice President, Operations
8/7/00 1:16:38 PM	pentium75	user	EDIT	Field=Telephone, -> 770-555-1212
8/7/00 1:16:38 PM	pentium75	user	EDIT	Field=Address1, -> 4524 Westwood Way
8/7/00 1:15:49 PM	pentium75	user	PRINT	Badge Type=rtm, BadgeNumber/Version=/0
8/7/00 1:15:24 PM	pentium75	user	CAPTURE	ImageID=18
8/7/00 1:14:06 PM	pentium75	user	CAPTURE	ImageID=
8/7/00 1:13:29 PM	pentium75	user	EDIT	Field=Company, Imaging Technology Corporation -> Im
8/7/00 1:13:19 PM	pentium75	user	CREATE	.

Record: 1 of 9

Copyright - Imaging Technology Corp. 1994-1999

NUM

*Data History form*

base field (such as image capture, or badge print). Note: data changes recorded here will not be displayed in the Badge History window if a badge has not yet been printed since that change was made. That is, if the record's last name was changed from "Smith" to "Jones," but the badge had not yet been printed with the new name "Jones," the change would be reflected in the Data History window but not the Badge History window.

---

## Batch

The following information is recorded in the record's history:

DATE	This is the date the action was performed. To sort the history by date, click the DATE button. Click DATE again to sort by date in reverse order.
WORKSTATION	This is the name of the workstation where the action was performed. In a networked environment, each workstation has a unique name. To sort the history by workstation name, click the WORKSTATION button. Click WORKSTATION again to reverse the sort order.
OPERATOR	This is the user name of the operator who performed the action. (The user name is the name entered at logon.) To sort the history by user name, click the OPERATOR button. Click OPERATOR again to reverse the sort order.
OPERATION	This identifies the action that was performed in the record. Click the OPERATION button to sort the history by operation. Click OPERATION again to reverse the sort order.
DESCRIPTION	This offers a more detailed description, when applicable, of the operation that was performed. Click the DESCRIPTION button to sort the history by description. Click DESCRIPTION again to reverse the sort order.

---

## *Batch*



Level I  
EDU I

Clicking BATCH brings up a Batch window for performing actions on a group of records. The following “batch operations” are available: UPDATE, DELETE, ADD TO PRINT QUEUE, PRINT THE QUEUE, CREATE (ROSTER) FROM SELECTED RECORDS, ADD CURRENT RECORD (TO ROSTER), REMOVE CURRENT RECORD (FROM ROSTER), and ADD SELECTED RECORDS (TO ROSTER). These “batch operations” only effect the “found set” of records. That is, you

must first perform a “query” or search for the group of records you want to do something with. Only the records that “have been found” as a result of the query will be acted upon.

The screenshot shows a window titled "Batch Form" with a "Back" button at the top left. Below the button are several action buttons, each with an icon and a label:

- Update selected records**: Icon of a document with a pencil.
- Delete selected records**: Icon of a trash can.
- Add to print queue**: Icon of a document with a plus sign.
- Print the queue**: Icon of a printer.
- Roster Lists:** A group of four buttons:
  - Create from selected records**: Icon of a document with a plus sign.
  - Add current record**: Icon of a document with a plus sign and a magnifying glass.
  - Remove current record**: Icon of a document with a minus sign and a magnifying glass.
  - Add selected records**: Icon of a document with a plus sign and a magnifying glass.

At the top right, there are two input fields: "Field:" with a dropdown menu showing "Department" and "Value:" with a text box containing "Technical". Below these is another dropdown menu showing "university" and the text "Alternate badge layout".

## Update

“Update” is a powerful feature, allowing you to change a value for a group of records in one step. There are two ways to update records:

1. If a record already contains the correct information that you want updated across the “found set” of records, click once in the field containing the correct information. Then click BATCH in the Personal Data window. (The field name and field contents are displayed in the Batch window.) Click UPDATE SELECTED RECORDS in the Batch window. Identifier for Windows presents an alert message asking you to confirm the changes.
2. Click BATCH in the Personal Data window. In the Batch window, click the down arrow of the FIELD pick list and select the database field to update. Type the “value” you want updated in that field for the “found set” of records. Then click the UPDATE SELECTED RECORDS button. Identifier for Windows presents an alert message asking you to confirm the changes. (The UPDATE SELECTED RECORDS button is disabled until you select a field for updating.)

### **Delete**

Click **DELETE SELECTED RECORDS** to delete the “found set” of records plus their associated images. An alert message appears asking you to confirm the deletion. Use extra caution! Once the records are deleted, they cannot be restored except from a backup source.

### **Add to print queue**

Click **ADD TO PRINT QUEUE** to send badges of the found set of records to the print queue. The badges will remain in the print queue until you click **PRINT THE QUEUE**.

Next to the **ADD TO PRINT QUEUE** button is an **ALTERNATE BADGE LAYOUT** pick list. You may use this to print a badge other than what has been assigned the individual(s) in the Personal Data window. For example:

If you want to issue a temporary badge to a select group of individuals, select that “temporary” badge from the list. When you add the selected records to the print queue and print the badges, the specified badge will print, rather than the one previously assigned to them.

If you created a “badge” design for use as a “roster,” you may select this badge layout and print the selected records as a roster.

### **Print the queue**

Click **PRINT THE QUEUE** to print the contents of the print queue. (Note: you may print the contents of the print queue both here and from within the Tools window.)

### **Roster lists**

Roster lists are a powerful way to simply repeat complex queries.





### CREATE FROM SELECTED RECORDS

After you have performed a query that you are likely to repeat again, click the CREATE FROM SELECTED RECORDS button in the Batch window. IDentifier for Windows will extract each of the found records' IDNumber and write it to a simple text file. You are prompted to name and save the file. Use any name meaningful to you. In the future, when you wish to repeat this query, use the LIST SELECT button in the Search window rather than recreating the query properties.



### ADD CURRENT RECORD

You may add the currently opened record to any list. Once you click ADD CURRENT RECORD, a Windows Open dialog asks you to select the roster list to which you wish to add this record.



### REMOVE CURRENT RECORD

You may remove an individual from any roster list. With the record you wish to remove open in the Personal Data window, click BATCH. Then click REMOVE CURRENT RECORD. A Windows Open dialog opens. Select the roster list from which you wish this record to be removed.



### ADD SELECTED RECORDS

In addition to adding individuals to a roster list, you may add a *group* of records. Perform the query to find the group you wish to add, then click ADD SELECTED RECORDS. A Windows Open dialog opens. Select the roster list to which you wish to add the “found set” of records.



---

## Record History

---

### *Record History*

In the top right of the Persons Found window are non-editable fields displaying history information for each record.

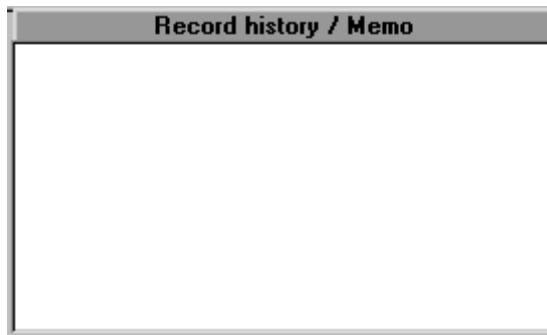
Record History	
<b>Record Identifier:</b>	23
<b>Create date:</b>	08/18/1998
<b>Change date:</b>	07/13/2000
<b>Image date:</b>	04/30/1996
<b>Image ID:</b>	1
<b>Operator:</b>	user
<b>Print count:</b>	2
<b>Print date:</b>	07/13/2000

Record ID	This is a unique number assigned to each record as it is created.
Create Date	This is the date the record was created.
Change Date	This is the date of the last modification to the record.
Image Date	This is the date of the most recent image capture.
Image ID	This is the "name" of the image file(s). Identifier for Windows saves all images with a "number" name. To find a person's image in Windows Explorer, search for this number in the Portrait, Signature and Fingerprint directories.
Operator	This is the Identifier for Windows operator who most recently modified the record.
Print Count	This is a serial counter of the number of times a badge has been printed.
Print Date	This is the date a badge was last printed for an individual.

### *Memo field*

---

Click the orange Record History label above the record history. The history disappears and a memo field appears in its place. Click the EDIT button to enter or edit a memo. You may enter up to 65,000 characters.



## *Navigating IDentifier for Windows*

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IDentifier for Windows, based on Microsoft Access, uses “Forms” as a way to view data and perform functions. IDentifier for Windows logically organizes the many functions related to database management, badge printing, image capture, reporting—EVERYTHING in the application! But because it is so powerful, it is possible for new users to become “lost.” Therefore the graphics on the next several pages provide a “road map” of IDentifier for Windows.

Start here with logon

**Identifier for Windows**

Copyright 1994-2000  
Imaging Technology Corporation  
Burlington, MA 01702  
Rev 4.01b 031500  
SMB301 917 809543

Database name: C:\MFCNT\ceduca.MDB

Current language is: English

No login required.  
No System admin user has been created.

Enter your user name:

Enter your password:

to Tools

Search

**Change Password**

User name: user

Enter original password:

Enter new password:

Enter new password again:

SS No  
Last Name  
First Name  
Status  
Company  
Department

SQL WHERE clause:

SQL ORDER BY clause:

Persons Found

**Batch Operations**

Update selected records

Delete all selected records

Add to print queue

Print the queue

Field name:

Value:

Company:

Title:

Classification:

Issue Date:

Exp Date:

SS No  
Last Name  
First Name  
Middle  
Status  
Birthdate  
Sex  
Address  
Address2  
City  
State  
Zip

Badge History

Badge no:

Version:

Badge type:

Record Identifier: 397

Personal No: 22456789

Last Name: user

First Name: user

Title: vice president, Operator

Company: Imaging Technology Corporation

Address: 4524 Wakewood Way

City: Wakefield

State: MA

Zip: 01899

Telephone: 781-955-1212

Create date: 07/00

Change date: 07/00

Image date: 07/00

Image ID: 18

Operator: user

Print count: 4

Print date: 07/00

Notes: slip and connect in line to big promotional

Issue Date:

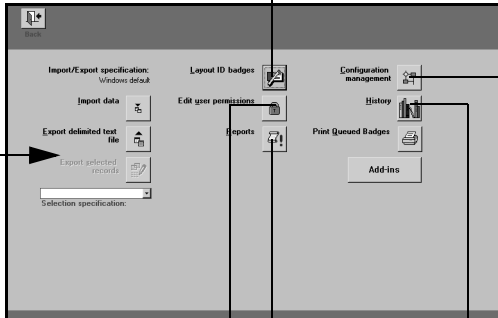
Exp Date:

Record History

Date	Workstation	Operator	Operation	Description
07/00 11:53 PM	pentan75	user	EDIT	[Field-Notes: -> slip and connect in line to big promotional]
07/00 11:53 PM	pentan75	user	EDIT	[Field-Title: 01 - Imaging -> vice president, Operator ->]
07/00 11:38 PM	pentan75	user	EDIT	[Field-Address: -> 7939951392]
07/00 11:38 PM	pentan75	user	EDIT	[Field-Address: -> 4524 Wakewood Way]
07/00 11:49 PM	pentan75	user	PRINT	[Field-Name: BadgeNumber, BadgeNumber/Version/0]
07/00 11:52 PM	pentan75	user	CAPTURE	[Image0=18]
07/00 11:08 PM	pentan75	user	CAPTURE	[Image0=...]
07/00 11:32 PM	pentan75	user	EDIT	[Field-Company: Imaging Technology Corporation -> Im...]
07/00 11:31 PM	pentan75	user	CREATE	

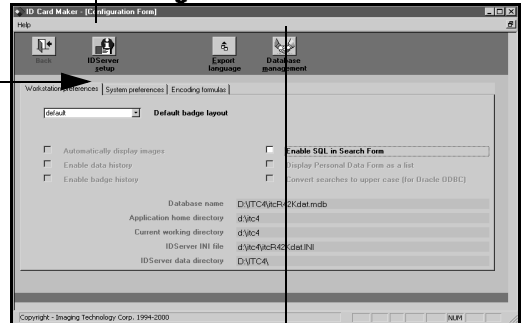
## IDLayout

### Tools

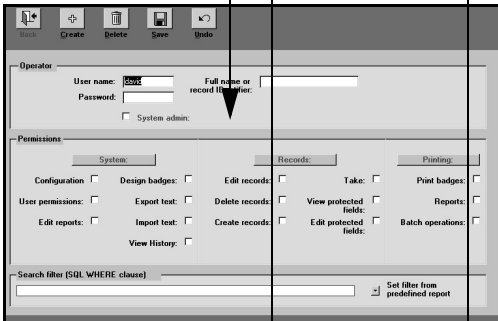


## IDServer Setup

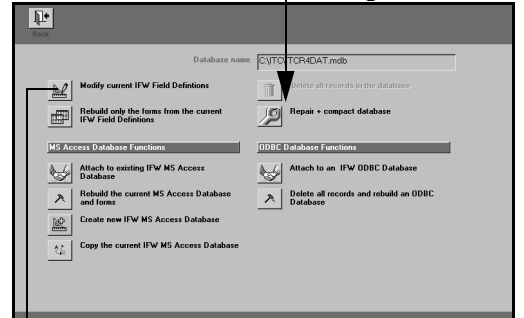
### Configuration



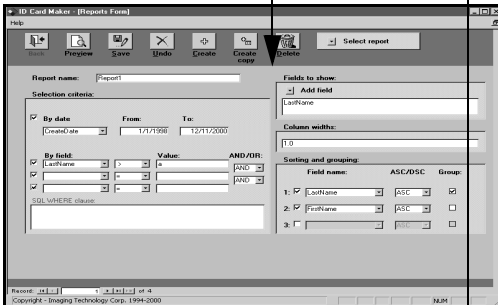
## User Accounts



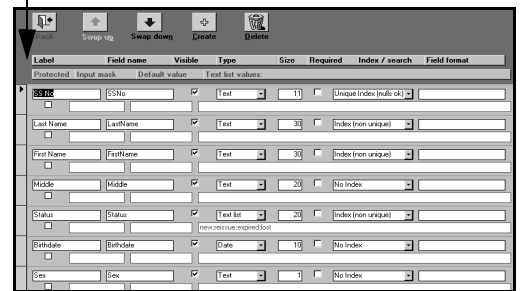
## Database Management



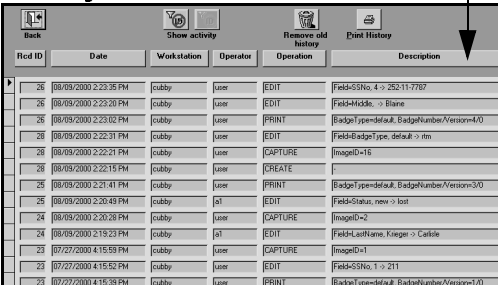
## Reports



## Edit Field Definitions



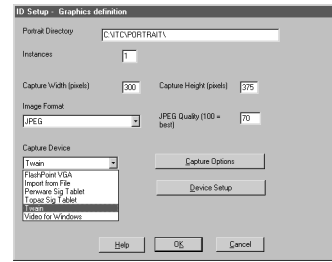
## History



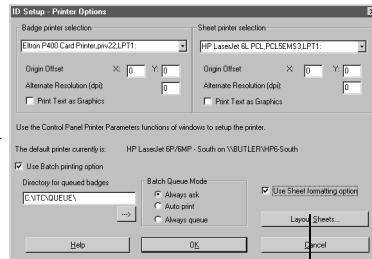
**IDLayout**



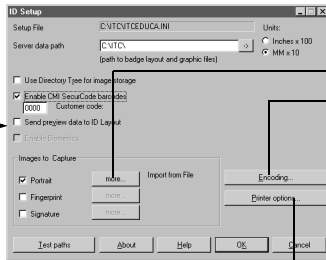
**Camera Setup**



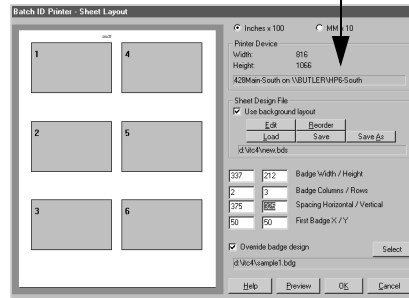
**Printer Setup**



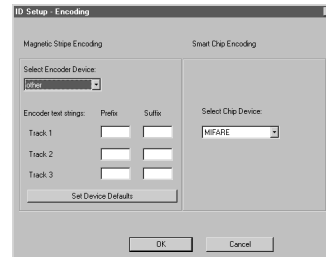
**IDServer Setup**



**Sheet Layout Setup**



**Encoding Setup**



# *Graphic File Formats*

---

In the following table, a portrait image was captured at 300 by 375 pixels (1 by 1.25 inches). The “File Size” column shows the size of each image saved in various file formats. IDentifier for Windows accepts graphic images in any of the following formats.

**TABLE 1. Graphic File Formats**

---

<b>Image Format</b>	<b>Color Depth</b>	<b>File Size</b>	<b>Description</b>
JPEG	24 bit	12k	“This format provides the best compression, but image information is lost during compression. JPEG is an acronym for “Joint Photographic Experts Group.” Writes a “.JPG” file extension”
TIFF Compressed	24 bit	11k	“This format gives the best compression without losing image information. TIFF is an acronym for “Tagged Image File Format.” Writes a “.TIF” file extension.”
TIFF Huffman	1 bit	12k	This format uses 1 bit per pixel. For black and white images only; not greyscale.

**TABLE 1. Graphic File Formats**

---

<b>Image Format</b>	<b>Color Depth</b>	<b>File Size</b>	<b>Description</b>
TIFF	24 bit	331k	“No compression. Writes a “.TIFF” file extension.”
PCX		221k	“Format compatible with ZSoft Corporation’s Paint Brush program. Writes a “.PCX” file extension.”
TGA (24 bpp) Uncompressed	24 bit	330k	“TrueVision’s Uncompressed TARGA format. Writes a “.TGA” file extension.”
BMP	24 bit	330k	“Windows uncompressed bitmap. Writes a “.BMP” file extension.”
BMP Com- pressed	8 bit	90k	“Windows compressed bitmap. Writes a “.BMP” file extension.”
WMF	24 bit	330k	“Windows MetaFile. Writes a “.WMF” file extension.”
PICT	24 bit	222k	“Apple Computer’s format for the Macintosh. Writes a “.PIC” file extension.”



---

Though your options for cameras, printers, lighting, etc. are nearly endless, we will describe the “typical” installation issues and procedures for some common components.

---

## *Video Card*

Some video and digital cameras are able to connect directly to your PC through the serial or Universal Serial Bus (USB) port on the back of your computer. Others, however, may require a separate Video Card capable of high-end video functionality.

A typical Video Card installation follows a procedure similar to the steps below:

1. Locate the “port” on the back of your computer where the monitor cable is currently plugged in. That port is part of the existing Video Card inside the computer. Because you will soon remove the existing Video Card, make a note as to its location. (Note: in some cases, the “motherboard” performs all video functions without the use of a separate Video Card. In this case, the monitor is plugged directly into the “motherboard.” You will simply detach your monitor cable and reattach it to the Video Card you will install in a moment.)

2. Unplug the power, monitor, mouse, keyboard and any other peripheral cables that may be attached to your computer. Turn your computer around so the back is facing you. Most PC's secure the computer case to the internal "chassis" using several Phillips head screws. Remove these and carefully lift the cover off the computer. (Though yours may differ, most computer covers slide back a few inches and then are lifted straight up.)
3. Locate the Video Card to which your monitor was connected. One screw secures it to the back of the computer chassis. Remove that screw and set it carefully aside so it will not become lost. Taking electrostatic precautions (use a grounding wrist strap or firmly (and periodically) touch the metal chassis of the computer with your hand to discharge any static electricity resident on your body), carefully lift the Video Card out of its socket.
4. Before removing the Video Card from its antistatic bag, again touch the metal chassis to discharge your static electricity. Hold the Video Card at the outside edges with your finger tips, being careful not to touch the gold-colored "fingers" that will slide back into the expansion slot. If you purchased Imaging Technology Corporation's "AutoLite" AND you purchased the Video Card from someone other than ITC, you must change a "jumper" setting on the Video Card. (ITC sets this jumper for you if purchased directly from ITC.) Locate "JP5" on the surface of the Video Card. A small, black "jumper" is attached to pin 1. Lift the jumper off pin 1 and replace it so it covers pins 1 and 2 as shown in the diagram below. If you are using a Flash attachment, leave the JP5 jumper set to pin 1.
5. Carefully seat the Video Card into the slot from which you removed your old Video Card. Push down gently, but firmly, until the card is fully seated. Using the retaining screw you removed a moment ago, secure the card to the back of the computer chassis.
6. Using the screws you removed at the beginning, replace the computer case. Reattach the power, monitor, mouse, keyboard and any other peripheral cables to the back of the computer. Note that the monitor cable will be reattached to the 15-pin female connector of the Video Card you just installed. Restart your computer and launch Windows.
7. Windows 95/98 users: When Windows 98 restarts, its "Plug and Play" technology will automatically recognize that new hardware was been added, but will install the wrong video driver. After Windows has finished booting, click Start → Settings → Control Panel → Display to open the Display control panel. Click the SETTINGS tab and click the ADVANCED SETTINGS button. On the ADAPTER tab, click the CHANGE button. Insert the FlashPoint Drivers floppy disk that came with the Video Card and click HAVE DISK in the "Select Device" window. Follow the prompts. Windows NT users: "Plug and Play" technology

will not recognize your new Video Card. After Windows has finished booting, click Start ➤ Settings ➤ Control Panel ➤ Display to open the Display control panel. Click the SETTINGS tab and click the ADVANCED SETTINGS button. On the ADAPTER tab, click the CHANGE button. Insert the FlashPoint Drivers floppy disk that came with the Video Card and click HAVE DISK in the “Select Device” window. Follow the prompts.

8. After Windows has started and you are at your “desktop,” click the START button and choose Settings ➤ Control Panel.
9. In the Control Panel window, double-click the Display icon.
10. In the Display Properties window, click the SETTINGS tab. In the Settings property sheet, look at the Color Palette field. The Color Palette needs to be set to “High Color (16 bit)” or “True Color (24 bit).” If neither of these are displayed in the Color Palette field, click on the down-arrow to the right of this field to select the proper setting. (Some applications installed on your computer “may not like” the True Color (24 bit) setting; when you run these applications, they may display a message requesting you to reset the color palette to “High Color (16 bit).” Doing so will not effect IDentifier for Windows.)
11. Click OK to close the Display Settings window, and close the Control Panel window.

---

## *AutoLite*

AutoLite is box providing connectivity between various “capture devices” and a computer. It is used specifically in conjunction with the FlashBus, FlashPoint 3D, and FlashPoint 128 Video Cards. One side of the box provides a cable-connection to the Video Card in the computer. The other side of the box provides cable-connections to video cameras, fingerprint cameras, and Imaging Technology Corporation’s Portrait Light.

The front of the AutoLite box contains two LED lights indicating “power is on to the box” and “power is on to the portrait light.” The front of the AutoLite box also contains one 5-pin “power-in” connection and one 25-pin port connecting the box to the FlashPoint 128, FlashPoint 3D, or Flashbus card in the PC.

The back of the AutoLite box contains four ports for peripheral devices (from left to right):

1. 25-pin connector for video camera cable,

2. 5-pin connector for SVideo (Source 1) camcorder cable,
3. BNC connector for Composite (Source 1) fingerprint camera cable, and
4. 4-pin connector for portrait light cable.

*Step 1:*

Connect the 10-foot 25-pin SVideo (Source 2) cable between the FlashPoint 128, FlashPoint 3D, or Flashbus card in the PC and the 25-pin connector on the front of the AutoLite box.

*Step 2:*

Connect the power cable to the 5-pin “power-in” connector on the front of the AutoLite box. (One LED light will glow when power is supplied to the box.)

*Step 3:*

Attach your cameras and/or portrait light to the back of the AutoLite box.

---

## *Camera Stand*

The camera stand is shipped disassembled. It consists of a metal base plate, and a telescoping pole that screws into the base and on which the camera assembly is attached. Follow these steps:

1. The black, metal post is threaded on both ends. The threads on one end are larger than the other. Screw the larger of the two ends into either of the two holes in the base plate and tighten. (The second hole supports an optional “umbrella lighting stand.”)
2. The “pan-tilt head assembly” screws onto the top of the metal post.

---

## *Signature Tablet*

### **Penware**

The following instructions apply to the Penware 1100 Signature Pad. If you purchased the Penware 1500 Signature Pad (this has a built-in LCD signature display), power must be supplied from the supplied AC power adapter.

1. The Signature Pad has one wire coming out its back. The end of this wire has a 9-pin female connector that must be plugged into the 9-pin “Com 1” port on the back of your computer. (Most PC’s have two “Com ports” identified as “Com 1” and “Com 2.” Use Com port 1.)
2. A separate PS/2 power cable draws power for the signature pad from the PS/2 mouse port on the computer. The 12 Volt DC end of the PS/2 power cable plugs into the back of the 9-pin signature pad connector (connected to the Com 1 port).
3. The male end of the PS/2 power cable plugs into the PS/2 mouse port on your computer; reattach your mouse to the female end of the PS/2 power cable.
4. Optionally, you may “power” the signature pad using the supplied AC power adapter. Attach the 12 Volt DC end of the power adapter into the back of the 9-pin connector attached to the COM 1 port.

### **SigGem**

The SigGem 4x5 and 1x5 signature tablets have one wire which attaches to an available serial port on the back of your PC.

---

## *Fingerprint Camera*

Attach the 10 foot fingerprint camera cable to the Composite (Source 1) BNC connector on the back of the AutoLite box.

---

### *Portrait Light*

1. The Portrait lighting unit easily attaches to the top of the CCD 1000 video camera with the mounting screw. Adjust the angle of the light so it points forward.
2. Attach the 4-pin cable from the portrait light to the 4-pin connector on the back of the Auto Light box.

---

### *TruFlash*

The TruFlash is used only in conjunction with the FlashPoint 128, Flashbus, or FlashPoint 3D video card, and Imaging Technology Corporation's CCD 1000 video camera. It is mounted directly to the video camera using the built-in set-screw. A six-inch cable attaches the TruFlash to the video camera.

1. The 9-pin connector attaches to the back of the TruFlash light.
2. The male end of the 25-pin connector attaches to the back of the CCD 1000 video camera.
3. The female end of the 25-pin connector attaches to the 10 foot cable connected to the AutoLite box's 25-pin video camera port.

The white plastic Diffuser covers the TruFlash's strobe light. With the Diffuser on, the effective distance between light and subject is 3-12 feet. The Diffuser reduces strobe glare by half. With the Diffuser removed, the effective distance between light and subject is 20 feet.

# *SQL and Boolean Operators*

---

<b>Operator</b>	<b>Description</b>	<b>Example</b>	<b>Explanation</b>
<	This means, “is less than.” This operator can be used with text, numbers or dates.	LastName < “S”	Returns all last names between A and R
		BirthDate < #1/1/55#	Returns everyone who was born before 1/1/55
		PrintCount < “3”	Returns everyone whose badge was printed less than three times
>	“This means “is greater than.” This operator can be used with text, numbers or dates. “	LastName > “S”	Returns all last names between T and Z
		BirthDate > #1/1/55#	Returns everyone who was born after 1/1/55
		PrintCount > “3”	Returns everyone whose badge was printed more than three times

<b>Operator</b>	<b>Description</b>	<b>Example</b>	<b>Explanation</b>
<= and >=	This means “less than or equal to” and “greater than or equal to.”		
=	This means, “equals to” or “same as.” This operator can be used with text, numbers, or dates.	LastName = “Hutchinson”	Returns all records where the last name is Hutchinson
<>	This means, “does not equal.” This operator can be used with text, numbers, or dates.	BadgeType <> “Active”	Returns all records whose badges are not currently assigned an “active” status
AND	When searching for more than one variable, use “AND” to separate two or more “tests. The search will yield a result if both conditions have been met.	BadgeType = “Level 3” AND Department = “Engineering”	Will find all individuals who were issued a “Level 3” badge and belong to the Engineering department
BETWEEN	This allows you to search for a range of values; this operator can be used with text, numbers or dates	BirthDate BETWEEN #1/1/55# and #12/31/55#	“Will find all individuals who were born between January 1, 1955 and December 31, 1955. (Dates must be enclosed with ““pound”” signs.)”
NOT	Use the Not operator to evaluate the opposite condition (that is, whether expression lies outside the range)	Birthdate NOT BETWEEN #1/1/55# and #12/31/55#	Will find all individuals born before 1/1/55 and after 12/31/55.



Operator	Description	Example	Explanation
OR	This allows you to search for multiple values. The search will yield a result if either of the conditions you specify have been met	(Company = NULL or BadgeStatus = "Expired")	Returns all records whose Company field is empty and all records whose badge status is "expired." (When using the OR function, the expression must be enclosed within parentheses (.))
LIKE	The "LIKE" operator searches for data strings that contain data like the data you specify. The LIKE function can be used with a variety of special characters:		
	LIKE "a*a"	finds data beginning and ending with the letter "a"	
	LIKE "*ab*"	finds data with the letters "ab" embedded anywhere within it	
	LIKE "ab*"	finds any string beginning with the letters "ab"	
	LIKE "a?a"	finds any strings beginning and ending with "a" and any character (letter, number, character) between them	
	LIKE "a#a"	finds any strings beginning and ending with "a" containing a single number between them	
	LIKE "[a-z]"	finds any string beginning with the letters a through z	
	LIKE "[!a-z]"	finds any string that lies outside the range of a through z, e.g., "0," "&," "%"	
	LIKE "[!0-9]"	finds any string that lies outside the range of 0 through 9, e.g., "a," "&," "~"	



---

The IIF function will operate on information you supply within the parentheses. The commas within the parentheses separate the three parts of the IIF function, which are: (argument, result1, result2). If the IIF function were “spoken in plain English,” it would sound like this: “If such and such a condition is true, then automatically generate this response; otherwise, if the condition is not true, generate this alternate response.” The “such and such condition,” “this response,” and “alternate response” in the plain English sentence above is what gets placed within the parentheses of the IIF statement. How do you know what to enter for the “argument,” “result1,” and “result2”?

After “IIF ( , , )” has been entered in the Expression Builder Edit window, click your mouse between the open parenthesis and the first comma. This is where you will enter the “argument.” Arguments typically compare the data from a specified database field with a value that you supply within this parenthesis. For example:

- [company] = “Delta”
- [PrintCount] > “2”
- [ExpDate] BETWEEN #01/01/1999# AND #12/31/1999#

Note that the first word in these examples is the actual name of a database field; database fields must always be enclosed within square brackets ( [ ] ). The field name is followed by an Boolean operator (=, <, >, And, etc.); the Boolean operator

describes how you want the data in the database field compared to the value you will supply next. The final element of the argument is the actual data (text, dates, or numbers) which you will specify. Therefore, you may create any “argument” or “condition” that you want. Do you want something to be inserted on a badge if the individual’s company equals “Delta”? Do you want something to be printed on the badge if the badge has been printed more than two times? Expression Builder will “test” this argument...it will look at the contents of any database field you specify here, and see if it matches the data you instructed it to compare it to. If the actual database field contents match what you supply in the argument, Expression Builder will insert whatever you supplied for “result1” onto the badge; if there isn’t a match, Expression Builder will print whatever you specified for “result2.”

Let’s create an argument. Let’s say that you’re willing to print your employees’ first three badges at company expense, but that they must pay \$15 for each additional badge if they become lost or damaged. You want to make a visible reminder on the badge so employees will be more careful. So, if the badge has been printed two times or more already, you want the following message to be printed on the badge: “You will have to pay for your next badge!” The argument for this is as follows:

PrintCount >= “2”

PrintCount is the name of an actual database field which keeps a running count of the number of times a badge has been printed. >= (the “greater than” and “equals” signs) means “is greater than or equal to.” You manually type the number 2 and enclose it within quotation marks. (Literal text or values that \*you\* supply must be enclosed within quotation marks.)

In the Expression Builder’s Edit window, after you have inserted the IIF function, click your mouse after the “open parenthesis,” but before the first comma, and type your argument:

[PrintCount] >= “2”

The Edit window should display:

IIF ([PrintCount] >= “2”, , )

Now that the “argument” is created, you must tell Expression Builder what to do if the argument passes or fails. The syntax of the IIF statement, remember, is IIF (argument, result1, result2). “Result1” is the “true” result...what should happen if

---

Expression Builder indeed finds records whose PrintCount is greater than or equal to 2. (In this case, the result you want is text displayed on the badge.) Therefore, click your mouse between the first and second commas embedded within the parentheses and type (with quotation marks): “You will have to pay for your next badge reprint!” (This message will be displayed on every badge that has been printed 2 or more times.)

If the argument fails—that is, if the badge has NOT been printed 2 or more times—you don’t want anything printed on the badge. Therefore, click your mouse in the space after the second comma, and before the closing parenthesis, and type two double-quotes (“”). Two double-quotes, with nothing entered between them, equals “nothing” in Expression Builder.

Your finished IIF statement looks like the following:

```
IIF ([PrintCount] >= “2”, “You will have to pay for your next badge reprint!”, “”)
```

Consider a variation of this: You want to indicate on the badge if the portrait image is older than, say, 12 months. How do you do this? You create an argument that compares the date an image was last captured with an arbitrary test date. If the difference is greater than 12 months, you want the word “**Dated!**” to be displayed on the badge underneath the portrait image. The expression would look like the following:

```
IIF([ImageDate] < #01/01/1999# , “Dated!” , “”)
```

ImageDate is a database field that appears when you click the ADD DATABASE FIELD button. The application automatically records the date whenever an image is captured. We use the “less than” operator, because dates going backward (in the past) are numerically less than today or future dates. We arbitrarily pick a date from 12 months ago—images captured earlier than that will be flagged. Note that dates must be enclosed within pound signs (#). And if you set your “Short date format” in Windows Regional Control Panel to a 4-digit year, you must enter a 4-digit year. If the argument is true, we want the word “**Dated!**” to be displayed underneath the portrait. If the argument doesn’t pass (because the portrait is more recent than 1/1/99), nothing will be printed.

After you close Expression Builder, the text object will display the actual expression within the object boundary. (If Preview has been enabled on the View menu, the data specified for “result1” or “result2” will be displayed.) Double-click on the text object in the Badge Layout window to open the Properties of Text dialog. Edit

the text's font, size, weight, color, etc. Reposition the text object so it appears below the portrait.

# *Input Masks & Field Formatting*

---

## *Input Masks*

An input mask is used in text fields to format data and provide some control over what values can be entered. An input mask consists of literal characters (such as spaces, dots, dashes, and parentheses) that separate blanks to fill in. The Input Mask property setting consists of literal characters along with special characters that determine the kind of value that can be entered into the blank in that position. Input masks are primarily used in Text and Date fields, but can also be used in Number fields. (Note: Expression Builder's use of Format Characters is sometimes inconsistent with Microsoft Access 2000.)

The following table shows some useful input mask definitions and examples of values you can enter into them. Refer to the table at the end of this topic for details on the codes used to create input mask definitions.

<b>Input mask definition</b>	<b>Examples of values</b>
(000) 000-0000	(206) 555-0248
(999) 999-9999!	(206) 555-0248 ( ) 555-0248
(000) AAA-AAAA #999	(206) 555-TELE -20 to 2000
>L???L?000L0	GREENGR339M3 MAY R 452B7
>L0L 0L0 00000-9999	T2F 8M4 98115- 98115-3007
>L<????????????	Maria Pierre
ISBN 0-&&&&&&&&&-0	ISBN 1-55615-507-7 ISBN 0-13-964262-5
>LL00000-0000	DB51392-0493

The input mask definition can contain up to three sections separated by semicolons; for example, (999) 000-0000!;0;" “.

<b>Section</b>	<b>Meaning</b>
First	The input mask itself.
Second	Determines whether to store the literal display characters.  0 = store literal characters with the value entered 1 or leave blank = store only characters entered in blanks
Third	Character that is displayed for blanks in the input mask. You can use any character; type “ ” (double quotation marks, space, double quotation marks) to display a space. If you leave this section blank, the underscore ( _ ) is used.



When you create an input mask, you can use special characters to require that certain data be entered (for example, the area code for a phone number) and that other data be optional (such as a telephone extension). These characters specify the type of data, such as a number or character, that you must enter for each character in the input mask.

You can define an input mask by using the following characters:

<b>Character</b>	<b>Description</b>
0	Digit (0 through 9, entry required; plus [+] and minus [-] signs not allowed).
9	Digit or space (entry not required; plus and minus signs not allowed).
#	Digit or space (entry not required; blank positions converted to spaces, plus and minus signs allowed).
L	Letter (A through Z, entry required).
?	Letter (A through Z, entry optional).
A	Letter or digit (entry required).
a	Letter or digit (entry optional).
&	Any character or a space (entry required).
C	Any character or a space (entry optional).
. , ; - /	Decimal placeholder and thousands, date, and time separators. (The actual character used depends on the regional settings specified by double-clicking Regional Settings in the Windows Control Panel.)
<	Causes all characters that follow to be converted to lowercase.
>	Causes all characters that follow to be converted to uppercase.
!	Causes the input mask to display from right to left, rather than from left to right. Characters typed into the mask always fill it from left to right. You can include the exclamation point anywhere in the input mask.
\	Causes the character that follows to be displayed as a literal character. Used to display any of the characters listed in this table as literal characters (for example, \A is displayed as just A).
Password	Setting the Input Mask property to the word Password creates a password entry text box. Any character typed in the text box is stored as the character but is displayed as an asterisk (*).

When you type data in a field for which you've defined an input mask, the data is always entered in Overtyping mode. If you use the BACKSPACE key to delete a character, the character is replaced by a blank space.

If you move text from a field for which you've defined an input mask onto the Clipboard, the literal display characters are copied, even if you have specified that they not be saved with data.

*Note: Only characters that you type directly in a database field are affected by the input mask. Microsoft Access ignores any input masks when you import data from an external source.*

When you've defined an input mask and set a Format property for the same field, the Format property takes precedence when the data is displayed. This means that even if you've saved an input mask, the input mask is ignored when data is formatted and displayed. The data in the underlying table itself isn't changed; the Format property affects only how the data is displayed.

---

## *Field Formatting*

The Format property affects only how data is displayed. It doesn't affect how data is stored.

You can use the following symbols in custom formats for any data type:

<b>Symbol</b>	<b>Meaning</b>
(space)	Display spaces as literal characters.
"ABC"	Display anything inside quotation marks as literal characters.
!	Force left alignment instead of right alignment.
*	Fill available space with the next character.
\	Display the next character as a literal character. You can also display literal characters by placing quotation marks around them.
[color]	Display the formatted data in the color specified between the brackets. Available colors: Black, Blue, Green, Cyan, Red, Magenta, Yellow, White.
@	Text character (either a character or a space) is required.
&	Text character is not required.
<	Force all characters to lowercase.
>	Force all characters to uppercase.

When you have defined an input mask and set the Format property for the same data, the Format property takes precedence when the data is displayed and the input mask is ignored. For example, if you create a Password input mask and also set the Format property for the same field, the Password input mask is ignored and the data is displayed according to the Format property.

Custom formats for Text fields can have up to two sections. Each section contains the format specification for different data in a field.

<b>Section</b>	<b>Description</b>
First	Format for fields with text.
Second	Format for fields with zero-length strings and Null values.

For example, if you have a text field in which you want the word “None” to appear when there is no string in the field, you could type the custom format @;”None” as the control’s Format property setting. The @ symbol causes the text from the field to be displayed; the second section causes the word “None” to appear when there is a zero-length string or Null value in the field.



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