

Welcome to the ID Works Basic Online Reference Library

This library contains information about Datacard® ID Works® Basic identification software version 5.0 or higher. Some information included here may not apply to your environment.

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[ID Works Operator's Guide](#)

[ID Works Administrator's Guide](#)

[Smart Driver and ImageCard® Printer and
Magnetic Stripe Plug-ins](#)

[Datacard® 150i and 275/280P/295 Card Systems:
Guide for Use with ID Works Software](#)

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Notices

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Conventions Used in this Library

- ✓ Tips remind or inform you of a feature or method that could save you time and energy.
 - ❗ Notes remind or inform you of something you should know before proceeding.
- Names of menus, dialog box options, and buttons appear in **bold** type.
- File names also appear in bold type, and the variable part of the file name is in bold italics (for example, ***project name.iwx*** indicates that you supply the ***project name*** while ***iwx*** remains constant).
- Names of keyboard keys appear in large and small capital letters (for example, ENTER).
- Information you enter appears in regular italic type (for example, you may be instructed to type *Admin* to log in to an ID Works application).
- Parts of dialog box names that change depending on a name you supplied appear in brackets [].
- Blue text indicates a jump (link) to the referenced topic for online reading. See the document *Using the Online Reference Library* for tips on reading documents online.

Comments? Suggestions?

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Operator's Guide for ID Works Basic Version 5

October 2004

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About the Operator's Guide

This document is one of three sources of information about Datacard® ID Works® Basic identification software.

- The CD insert tells how to install ID Works software.
- The online help system tells you **how** to perform ID Works tasks. You can access the online help system from the **Help** menu in each ID Works application or by pressing the F1 key.
- This *Operator's Guide*, part of the Online Reference Library, gives additional background information about using the various features available in the ID Works applications. It also suggests the order in which tasks should be performed.

System Overview



Datacard® ID Works® Basic identification software includes four applications:

ID Works Designer lets a System Administrator create projects that meet your organization's specific needs for card designs, report designs, data entry, and database access.

In some organizations, one person performs all the Designer functions. In others, a graphic artist may be responsible for card designs while a programmer, database administrator, and/or manager develop the Production Forms, reports, and connections.

ID Works Production lets you use the projects you create in the Designer application to gather information, access your database, and print identification cards.

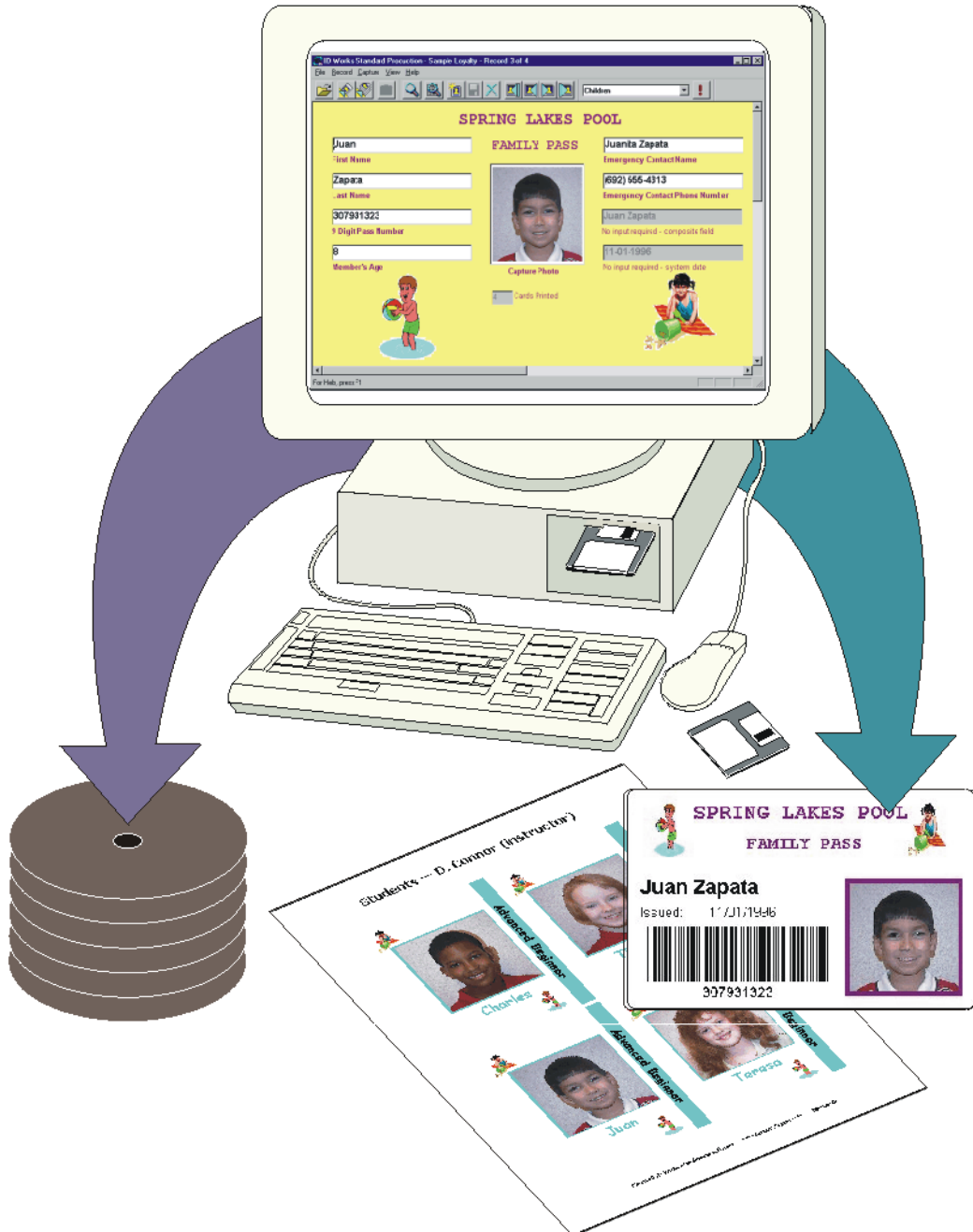
ID Works Reporting lets you generate and print image-rich reports from your database.

ID Works Administrator contains tools to manage user accounts, monitor security, and configure your ID Works software.

Introducing the ID Works “Project”

An ID Works project is similar to a folder or directory on a computer: it is the container that holds information about an identification implementation.

A project usually contains a Production Form and a card design (although a card design is not required). Optionally, your project can contain one or more report designs and one or more stored searches. By using field connections, information entered in a Production Form can be saved in a database, printed on a card, used in a report, or all of the above. The Production Form can also be used to query an existing database so that you can add or change information in the database or print cards and reports using information in the database.

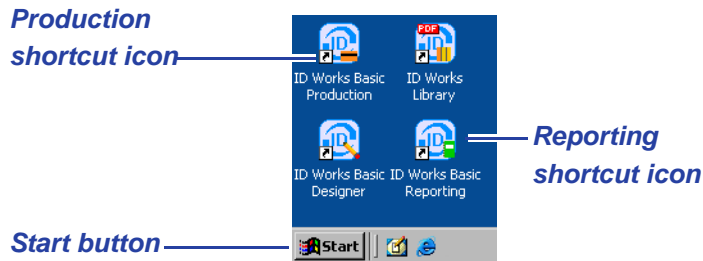


Getting Started

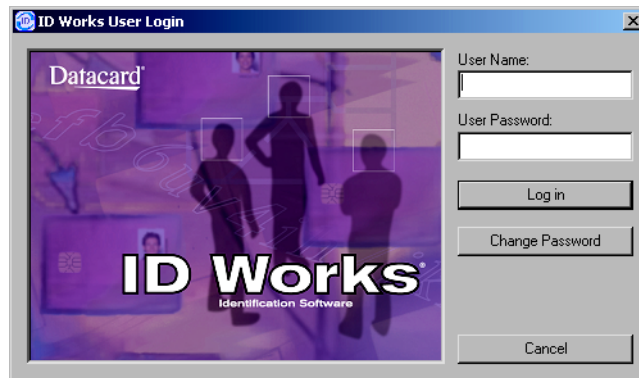
The rest of this chapter explains the steps you take to begin using your ID Works identification software.

Log In to an ID Works Application

To begin using ID Works software, double-click the ID Works Basic Production or Reporting shortcut icon on your desktop, or from the Windows **Start** button select **Programs, Datacard, ID Works**, and then **ID Works Basic Designer**.



In the User Login dialog box, type the User Name and User Password given to you by your System Administrator, and then click the **Log in** button.



When you are logged in to an ID Works application, you do not need to supply your user name and password again to start another ID Works application.

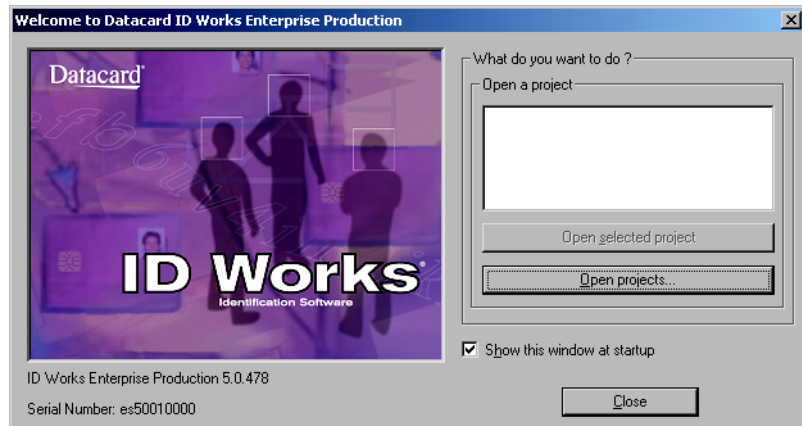
Changing Your User Password

Each time you log in to an ID Works application you have the opportunity to change your user password. To change your password, click the **Change Password** button any time before completing the login. The Login and Change Password dialog box opens, where you must supply your user name, current password, and a new password. You will also need to type the new password a second time for verification. Then click the **Log in** button to complete the change and log in to the ID Works application.

- i** Passwords can be 1 to 10 characters long and can include any character you can type from the keyboard. Passwords are not case sensitive. That is, ADMIN, admin, and AdmiN are all treated as the same.

Using the Welcome Dialog Box

After you have changed your password or entered it and clicked **Log in**, the Welcome dialog box appears.



From this dialog box you can open an existing project—either a sample project or one that was designed specifically for your organization. If the project you want to open is not listed, click **Open projects** or **More projects** to display the Open Project dialog box, which lists all ID Works projects available to you.

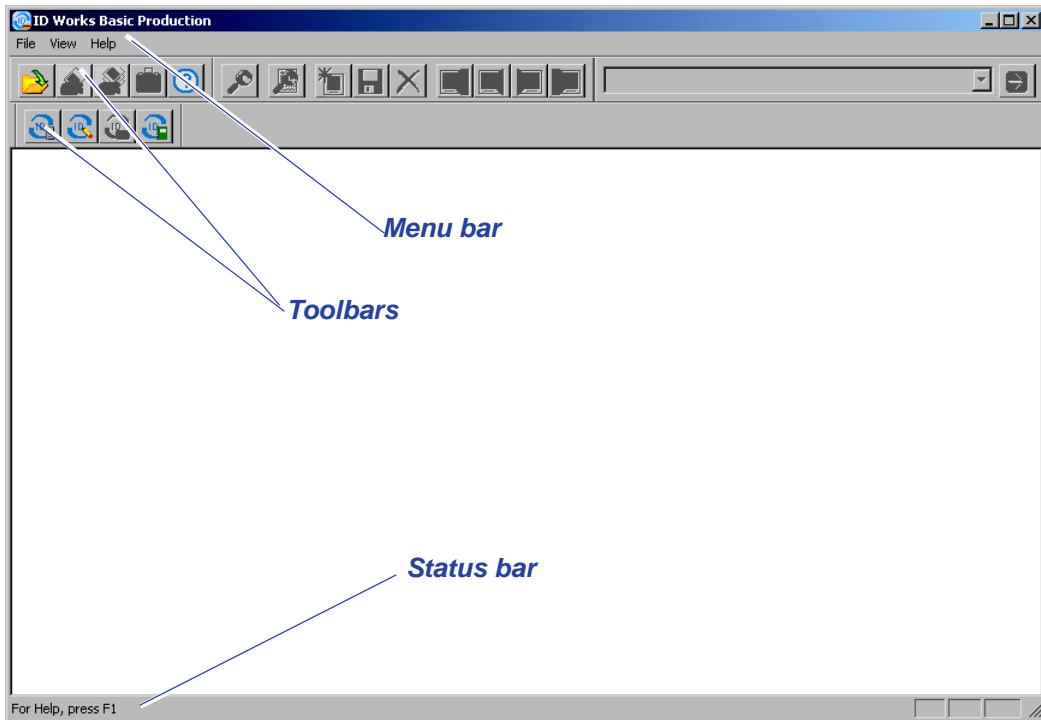
You can also choose not to have the Welcome dialog box display by clearing the check mark next to **Show this window at startup**. If you hide the Welcome dialog box and later want to show it again, from the menu bar, select **View** and then **Show Welcome on startup**. The selection you make applies only to the Windows user name you used to log in and only to the application you logged into. Other ID Works applications have separate settings for showing the Welcome window.

Using ID Works Applications

If you are familiar with your Microsoft® Windows® operating system and typical office applications, such as word processing and presentation software, ID Works software will feel familiar to you. ID Works applications let you perform most actions several ways: by selecting menu commands with the mouse, or with the keyboard, or by clicking a toolbar button, or by clicking the right mouse button and selecting from the pop-up menu. Key commands or shortcuts for actions common to many applications—such as cut, paste, and save—follow Microsoft Office conventions; you do not have to relearn your favorite shortcuts.

Most ID Works applications have several toolbars, and you can display or hide toolbars on a case-by-case basis. When you rest the mouse pointer on a toolbar button, the name and function of the button appears.

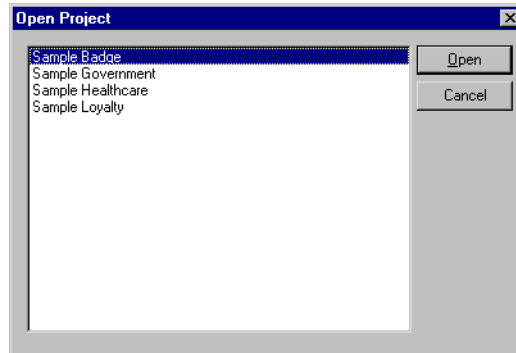
A status bar at the bottom of the window provides additional information about the application. As with toolbars, you can choose to view or hide the status bar.



Opening a Project

To open a project, from the menu bar select **File** and then **Open Project** (either with the mouse or with the keyboard).

The Open Project dialog box opens. Select a project from the list of projects that are available to you and then click the **Open** button.



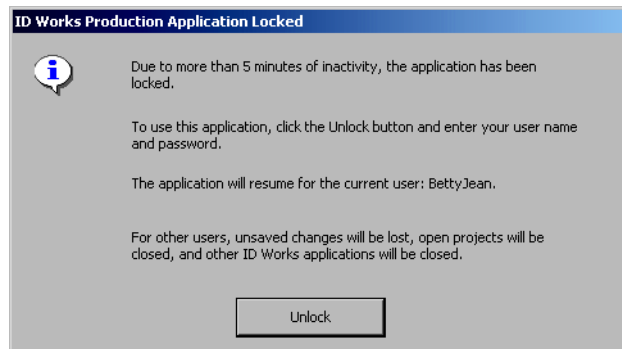
When you open an ID Works project, it appears the way the last project did when it was closed. For example, if the last project was closed with the Card Preview showing, the project you select will open with the Card Preview showing.

Using the ID Works Production Application

2

This chapter uses the sample projects that came with your ID Works software to explain your tasks. The projects you will use will be created to meet your specific needs, but they will probably follow the same general principles.

- ❶ Your System Administrator may have configured your computer to require logging in again if you have not used the Production application after a certain period of time. If that happens, you will see a dialog box similar to the following.



Using an ID Works Project

How your project opens depends on what privileges you have. If you are allowed to enter new records, the pointer will be in the field that the designer of the project designated as the starting field. (This is usually the field in the upper left corner of the window.) If your project is connected to a database, the **New** button on the toolbar will be “pushed in” and there will be a check mark next to the **New** command on the **Record** menu.

You can start entering information immediately. Most fields will have a prompt that indicates the kind of information you are to enter in the field. As mentioned, you can move between fields by tabbing or by clicking with the mouse.

The following sections discuss how to enter information into each type of field you may find in your project.

- i** If you need to start over with the record and your project is connected to a database, from the menu bar select **Record** and then **Refresh**. All fields will return to the way they were when you selected the record from the database.

If you need to start over with the record and your project is not connected to a database, from the menu bar select **Field** and then **Clear All**. All fields will return to the way they were when you opened the project.

Entering Information in Text Fields

The screenshot shows a software window titled "ID Works Basic Production - Sample Loyalty - New Record". The window contains a form for a "SPRING LAKES POOL FAMILY PASS". The form has a yellow background and includes the following fields and elements:

- First Name**: A text input field.
- Last Name**: A text input field.
- 9 Digit Pass Number**: A text input field.
- Member Age**: A text input field.
- Emergency Contact Name**: A text input field.
- Emergency Contact Phone Number**: A text input field with a pre-filled value of "() _ _" and "06/24/200".
- Capture Photo**: A button with a photo icon.
- Cards Printed**: A counter field.

Two vertical blue lines are drawn over the form, and the text "Text fields" is written at the bottom of the window.

Most fields will be text fields. You can enter in a text field any character on your keyboard: uppercase letters, lowercase letters, numbers, punctuation marks, special characters, or spaces. There will, however, be a maximum number of characters you can enter in a text field. If a text field stops accepting characters, it may be that you have reached the maximum field length. If your project connects to a database, the maximum field length of text fields is often set to match the maximum number of characters allowed in the corresponding database column.

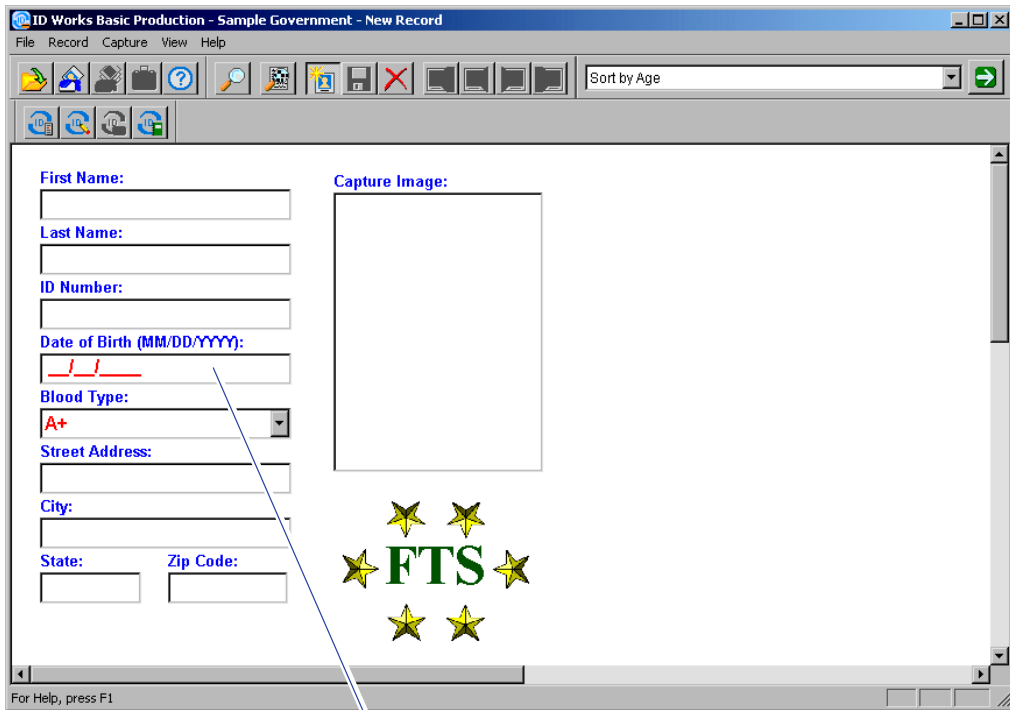
If you enter more characters than the text field entry box can display, the text might scroll. You can see all the text using the HOME, END, left arrow, and right arrow keys. You can also ask the project designer to make the text field wide enough to display all the text.

Some text fields may appear with characters already entered for you. For example, an identification number might appear with hyphens separating groups of digits. These fields have a “mask” applied to them to make your job easier. As you type data into these fields, the pointer will skip over the characters that are already there. Some other ways masked text fields might behave are:

- Converting characters. For example, lowercase characters you type might automatically be changed into uppercase characters.
- Requiring that you enter something in a field. If you try to print a card or save a record without entering a value in such a text field, you will see the message, “Mandatory character not present.” When you click **OK** to clear the message, the pointer will appear in the field you need to complete.
- Requiring a certain kind of character. If you type a letter into a phone number field that is masked to accept only numeric characters, the letter will not be accepted and the computer bell will sound.

Other text fields may be completely filled in for you. If a completed field has gray text, you cannot change the contents. If the text is any other color, it was supplied as a convenience to you but you can change it.

Entering Information in Date Fields



The screenshot shows a software window titled "ID Works Basic Production - Sample Government - New Record". The window contains a form with the following fields and controls:

- File Record Capture View Help (Menu)
- Sort by Age (Dropdown menu)
- First Name: [Text box]
- Last Name: [Text box]
- ID Number: [Text box]
- Date of Birth (MM/DD/YYYY): [Text box with red slashes indicating format]
- Blood Type: [Dropdown menu showing "A+"]
- Street Address: [Text box]
- City: [Text box]
- State: [Text box]
- Zip Code: [Text box]
- Capture Image: [Image icon]

A blue arrow points from the "Date of Birth" field to the text "Date field" located below the screenshot.

Date fields have separator characters (often slashes or hyphens) in them. You must enter numbers for the day, month, and year in the order that was specified when your project was created. If the prompt for the date field does not tell you whether to enter the month first or second and you enter it in the wrong position, an error message will appear when you try to print a card or save the record. You can easily change the order.

Some date fields also require that you enter a time. The time part of the date field will appear to the right of the date. You must enter numbers for the hour, minute, and second part of the time. If your project uses the 12-hour time format, you will also need to enter AM or PM.

- i** If you make a mistake while entering a date, move the pointer to the right of the incorrect character, press the BACKSPACE key, and then type the correct number.

Selecting Information in List Fields

The screenshot shows a window titled "ID Works Basic Production - Sample Government - New Record". The menu bar includes "File", "Record", "Capture", "View", and "Help". The toolbar contains icons for file operations and a "Sort by Age" dropdown. The main form area contains the following fields:

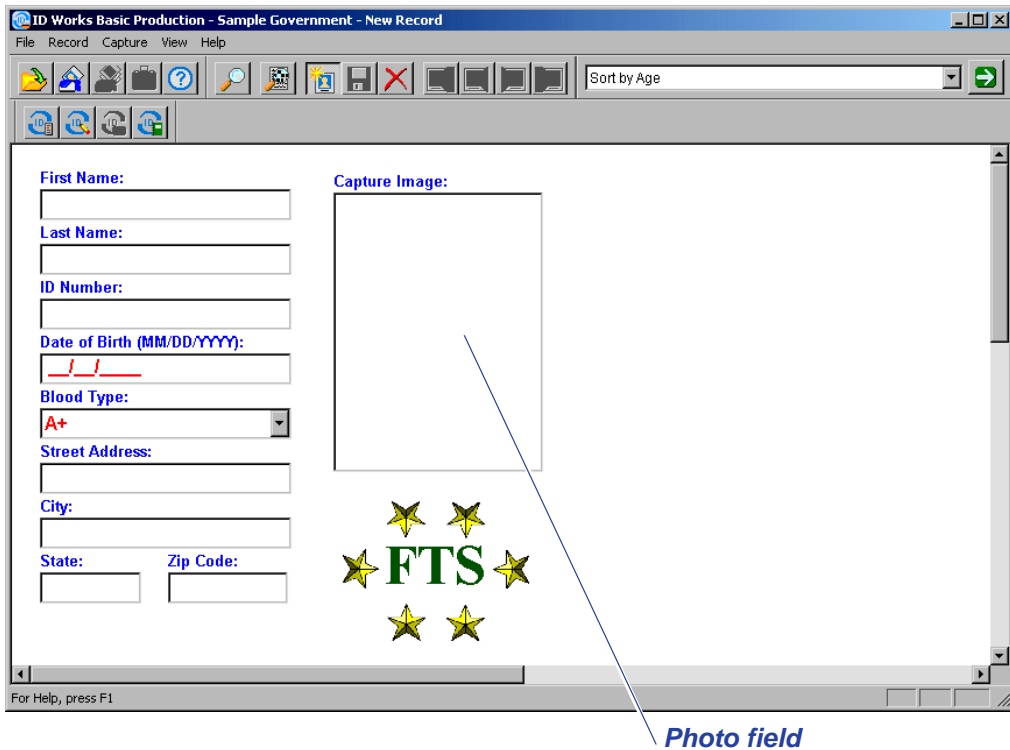
- First Name:** [Text input]
- Last Name:** [Text input]
- ID Number:** [Text input]
- Date of Birth (MM/DD/YYYY):** [Text input with red slashes]
- Blood Type:** [List field with dropdown arrow and "A+" selected]
- Street Address:** [Text input]
- City:** [Text input]
- State:** [Text input]
- Zip Code:** [Text input]
- Capture Image:** [Image input area]

A blue arrow points from the text "List field" below to the dropdown arrow of the "Blood Type" field.

List field

List fields have an arrow at the right side of the field. Instead of typing information in them, you make a selection from the items in the list. To see all the choices, click and hold on the arrow. Move the mouse until the choice you want is highlighted, then release the mouse button. If you prefer to use the keyboard, the up and down arrow keys scroll through the list choices. See the online help topic "Select an item in a list field" for additional ways to use the keyboard to make list field selections. List fields save you typing and ensure that information stored in a database is consistent.

Using Photo Fields



- ✓ If you need to select a source, check with your System Administrator. They may have forgotten to assign a source.

What happens when you enter a photo field depends on how your project was set up, whether your system has a camera, and, if so, what kind of camera it is. The most common behavior is for a photo capture to begin as soon as you enter the photo field. If no dialog box opens, you must start the capture operation. From the menu bar, select **Capture** and then **Capture**.

The dialog box for the default photo source opens. If an “Unable to capture photo . . .” message appears, you must select a source for the photo. From the menu bar, select **Capture** and then **Select Capture Source** or click the right mouse button and select **Select Capture Source** from the menu. See the online help topic “Select a photo source” for step-by-step instructions.

The following paragraphs show the dialog boxes that open for the photo sources that are available on all ID Works computers.

Photo from File

If the photo source selected is **Photo from File**, the Open dialog box opens. You use standard Windows navigation techniques to find the drive, folder, and file that contains the photograph that should be used. Your supervisor or ID Works System Administrator will supply you with the file location and file naming scheme to use. The Open dialog box “remembers” the last directory you used. If most of your photo files are in the same directory, you do not have to do much navigating. When you select a file, a “thumbnail” of the file displays so you can verify that you have the correct file.



ID Works software supports the following file types:

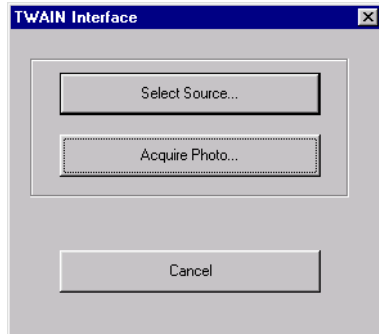
- BMP Windows Bitmap
- EPS Encapsulated PostScript
- JPG Joint Photographic Experts Group File Interchange Format (single image per file)
- J2K JPEG 2000 File Format
- PCT Macintosh PICT Drawing
- PCX PC Paintbrush

- PNG Portable Network Graphics
- PSD Adobe Photoshop® (3.0)
- TGA TARGA® Image File Format
- TIF Tagged Image File Format (single image per file, uncompressed only)
- WMF Windows Metafile

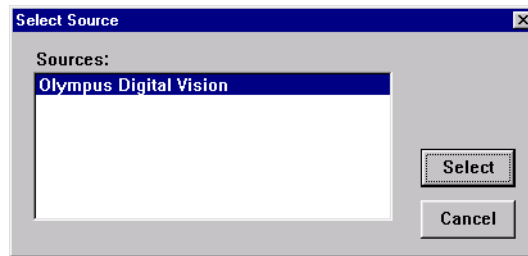
When you have found the file you want, click **Open**. The Photo Crop and Adjust dialog box opens, where you can center the subject or crop out (eliminate) unnecessary background. See [“Cropping and Adjusting Photos”](#) on page 21.

TWAIN

If the photo source selected is **TWAIN**, the TWAIN Interface dialog box opens. (The TWAIN standard specifies how an application, such as ID Works Production, can activate a scanner, digital camera, or other image-capturing device.)



When you click the **Select Source** button, the Select Source dialog box opens. It lists all the TWAIN devices installed on your computer.



Select the device you want to use and click the **Select** button. The Select Source dialog box closes. In the TWAIN Interface dialog box, click the **Acquire Photo** button. The software application that is associated with the device you selected opens.

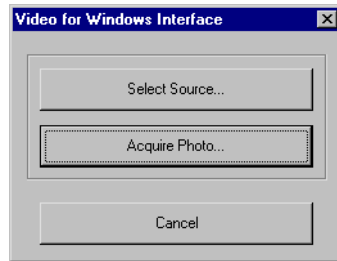
Because there are many different TWAIN devices made by many different manufacturers, this document cannot supply explicit instructions for using your TWAIN device. See the documentation that came with your device, or ask your supervisor or ID Works System Administrator for step-by-step instructions.

TWAIN (Fast)

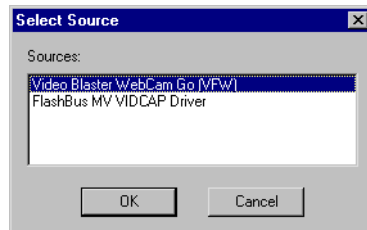
If the photo source selected is **TWAIN (Fast)**, the software application that is associated with the last TWAIN device used in an ID Works project (or the only TWAIN device installed on your computer) starts. Because there are many different TWAIN devices made by many different manufacturers, this document cannot supply explicit instructions for using your TWAIN device. See the documentation that came with your device or ask your supervisor or ID Works System Administrator for step-by-step instructions.

Video for Windows

If the photo source selected is **Video for Windows**, the Video for Windows Interface dialog box opens. (Video for Windows is a Microsoft standard interface for storing and playback of video and audio information. It also lets you capture a single frame to a bitmap or JPEG file. Single-frame capture is the capability of Video for Windows that ID Works software uses.)



When you click the **Select Source** button, the Select Source dialog box opens. It lists all the Video for Windows devices installed on your computer.



Select the device you want to use and click the **OK** button. The Select Source dialog box closes.

- ❶ If the Source list shows a Video for Windows source (possibly designated VFW) and a Windows Driver Model (WDM) source for your camera, selecting the Windows Driver Model entry usually gives better results.

In the Video for Windows Interface dialog box, click the **Acquire Photo** button. The Video for Windows Camera dialog box opens.



When your subject is ready, click Take Photo. The camera captures the image and the label on the button changes to Retry. If the photo is unacceptable (for example, if the subject's eyes are closed), click Retry. If the photo is acceptable, click OK. The Photo Crop and Adjust dialog box opens. See [“Cropping and Adjusting Photos”](#) on page 21.

Video for Windows (Fast)

If the photo source selected is **Video for Windows (Fast)**, the Video for Windows Camera dialog box opens immediately. You do not have to select a source.

Optional Cameras

In addition to the photo sources already described, your ID Works system may include an optional capture device, such as the Datacard Tru photo solution. These optional devices have special software that makes them especially easy to use with your ID Works system. Optional cameras are explained in their own online documents, which you access through the Windows **Start** menu.

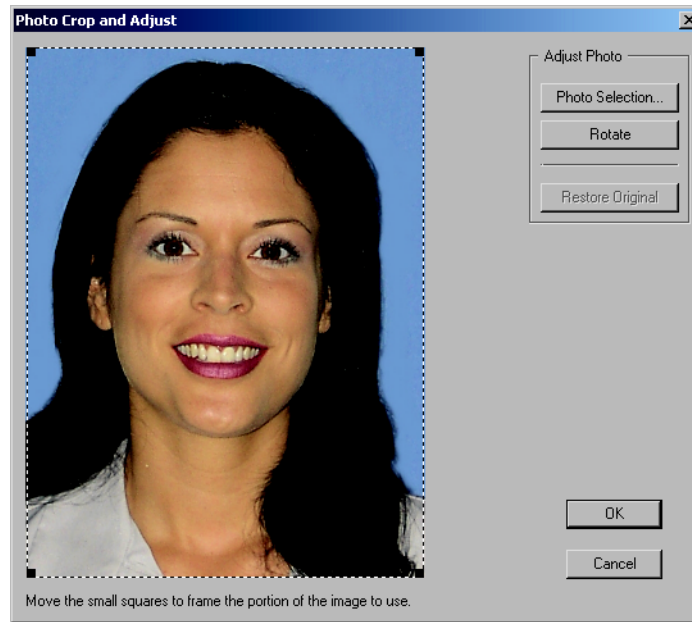
Selecting a Different Photo Source

If you have the necessary privilege, you can use a photo source other than the one specified when your project was created. For example, if the project is set to automatically start the software for a TWAIN device, you can close the dialog box that opens automatically. Then, with the photo field still selected (there will be a border around the photo field), select a different source for the photo. From the menu bar, select **Capture** and then **Select Capture Source** or click the right mouse button and select **Select Capture Source** from the pop-up menu. See the online help topic “Select a photo source” for step-by-step instructions.



Cropping and Adjusting Photos

If your ID Works project allows you to crop photos, the Photo Crop and Adjust dialog box will open as soon as you have selected your photo. Your photo will appear in the image area with four squares, called sizing handles, around the outside.



To zoom in on the subject (eliminate unnecessary background), click and drag any sizing handle, then release the mouse button. The crop box proportions, set by the project designer, remain constant.

After you have zoomed in, your subject may no longer be centered in the crop box. To adjust the position of the crop box, move the mouse until the pointer is inside the crop box. The pointer changes to a four-way arrow. Click and drag the crop box to the position you want, then release the mouse button.

When the photo is as you want it, click the **OK** button. The Photo Crop and Adjust dialog box closes, and the photo appears in the photo field.

Most of the time, cropping and adjusting is all you need to do to a photo. But the Photo Crop and Adjust dialog box also offers the following advanced capabilities.

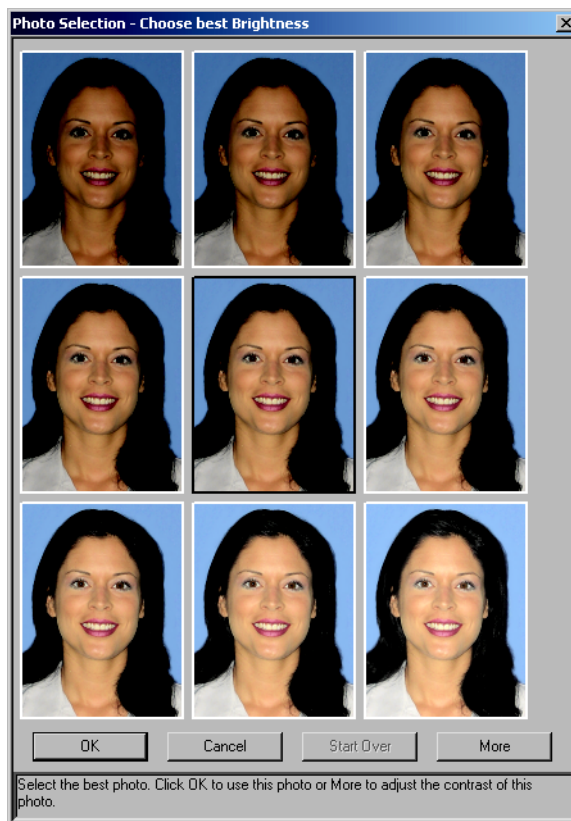
Rotating Photos

Some previously taken photos may have an orientation different from the one you need. You can compensate for this by rotating the photo as necessary. Each time you click the **Rotate** button, the photo rotates one-quarter turn clockwise.

- ❗ Any cropping or adjusting you did is lost when you rotate a photo. If you need to rotate the photo, do that first, then crop and adjust.

Selecting an Exposure

If the subject of the photo has a very light or very dark complexion, you can improve the quality of the photo to some degree by clicking the **Photo Selection** button.



An array of nine different brightnesses appears, with the original exposure in the center. Select a photo by clicking it with the mouse or by using the arrow keys to move the selection box. To adjust the contrast of the photo, select the **More** button. You can also select from nine choices for saturation. At any time you can start over or select **OK** or press ENTER to accept the currently-selected photo. Your selection appears in the image area of the Photo Crop and Adjust dialog box.

Remember, the final quality of the image is also affected by the printer you are using to print your ID cards. Changing lighting and camera settings should always be the first steps you take to improve the photo. This selection option will not make up for poor data.

Starting Over

You can undo all your changes (cropping, exposure selection, rotation) by clicking the **Restore Original** button.

Cropping and Adjusting Existing Photos

If you have the necessary privilege, you can crop or adjust photos that have been captured previously. First, locate the database record that contains the photo you need to change. See [chapter 4, Searching the Database](#), or go to the online help topic “Find a record with Quick Search” or “Find a record with Advanced Search”. Select the photo field and, if necessary, cancel the dialog box that automatically opens. From the menu bar, select **Capture** and then **Crop and Adjust Photo**. The Photo Crop and Adjust dialog box opens.

Exporting Images

You can save photos you see in the Production window for use in other applications. For example, the editor of your organization's newsletter might want to use photos you take. The **Capture** menu command, **Export**, lets you save an image in any of the following formats:

BMP	Windows Bitmap
EPS	Encapsulated PostScript
JPG	Joint Photographic Experts Group File Interchange Format (single image per file)
J2K	JPEG 2000 File Format
PCT	Macintosh PICT Drawing
PCX	PC Paintbrush
PNG	Portable Network Graphics
PSD	Adobe Photoshop® (3.0)
TGA	TARGA® Image File Format
TIF	Tagged Image File Format (single image per file, uncompressed only)
WMF	Windows Metafile

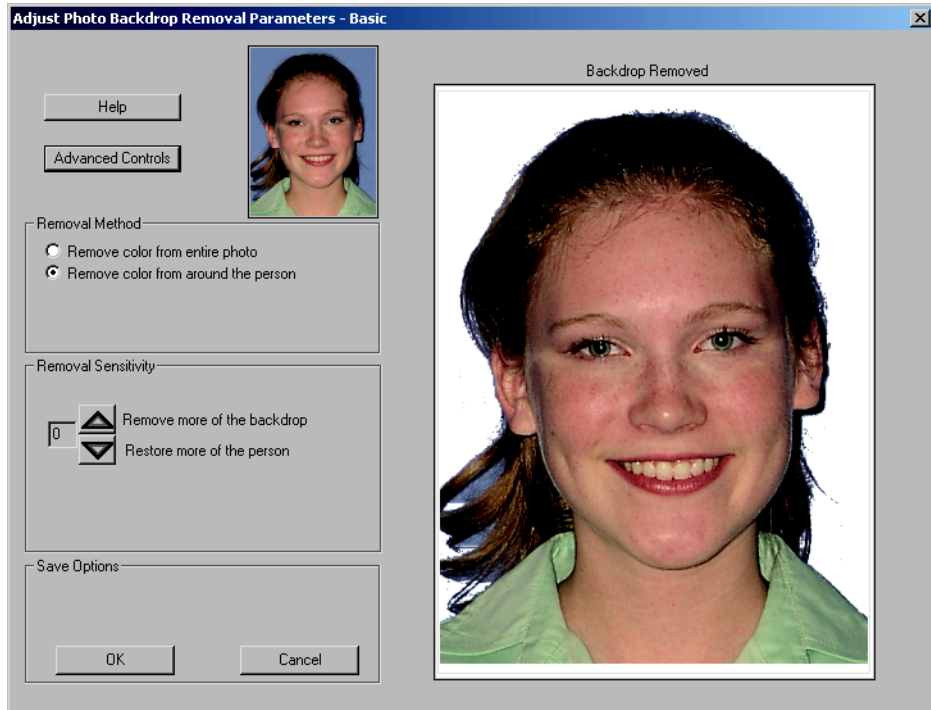
See the online help topic "Export a photo to a file" for step-by-step instructions.

Adjusting Photo Backdrop Removal Parameters

Your ID Works project may be set to remove the background from photos of cardholders. This is often done so the card background shows all around the person. The background is removed as a card is printed. Photos are stored with the background in place, and the success of the background removal depends on how evenly-colored the background is on the photo.

If your project uses background removal, you must use the Card Preview to verify that all the background has been removed. (See ["Previewing Cards" on page 29.](#)) If some of the background remains

and if you have the necessary privilege, you can use the **Capture** menu command, **Adjust Backdrop Removal Parameters**, to improve the image on the card.

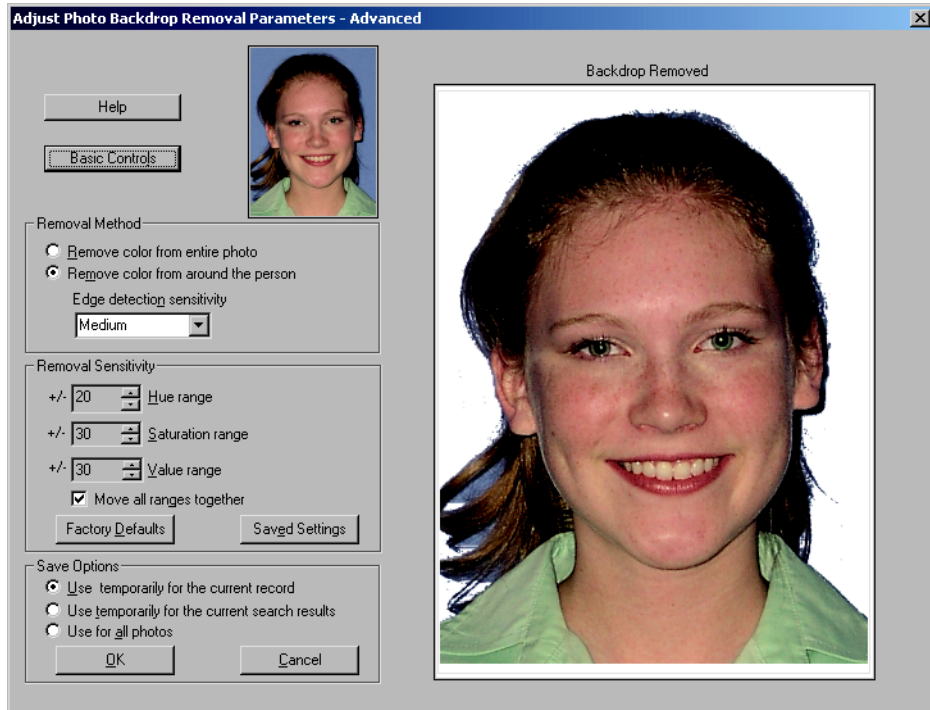


In the Removal Method area, select **Remove color from entire photo** if backdrop color is surrounded by another color (for example, if you can see through the subject's hair style, as in this photo). Be aware, however, that if any part of the subject's face or clothing is the same color as the backdrop, that feature will also be removed. For example, if the subject is wearing a shirt that has checks the same color as the background, the checks in the shirt will be removed.

In the Removal Sensitivity area, select ▲ if some of the backdrop is visible in the Card Preview. Select ▼ if some of the subject has been removed.

After you have made changes to the settings, the results appear in the large Backdrop Removed area. The original image is shown in the smaller area next to the Help button.

If you are satisfied with the adjusted image, click **OK**. The Adjust Photo Backdrop Removal Parameters - Basic dialog box closes and the results of your adjustment are shown in the Card Preview. The adjusted settings are used until you move off the current record. If you click **Cancel**, the dialog box closes and your adjustments are discarded. For additional capabilities, click **Advanced Controls**.



In the Removal Method area, if you select **Remove color from around the person**, you can select from **Low**, **Medium**, or **High** edge detection sensitivity.

In the Removal Sensitivity area, you increase or decrease the spectrum of colors that are considered to be backdrop. Three attributes determine what we think of as a color.

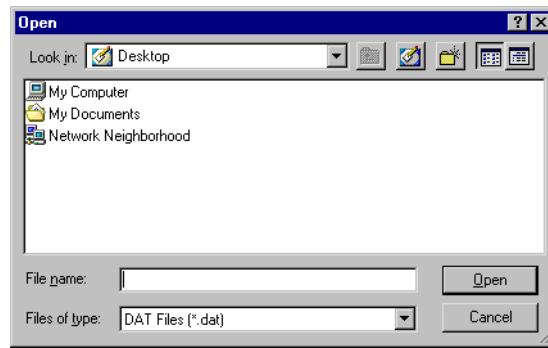
- Hue is described with the words we normally think of as describing a color (red, yellow, etc.).
- Saturation might be described with words like vivid or pale. It talks about the dominance of the hue.

- Value deals with lightness or darkness--how much black is in the color.

You increase or decrease the range for the attribute by clicking the up or down arrow or by using the up or down arrow keys on your keyboard. When you increase the range, more of the background color is removed.

You can control the ranges individually or you can select **Move all ranges together** to control them as a group. You can also return to the factory default settings or to the settings you last saved by clicking the appropriate button.

When adjustments are complete, you can choose to use the current settings for the current image only, for all images in the current database search results, or for all photos from now on. If you select **Use for all photos**, these settings become the ones you would return to if you clicked the **Saved Settings** button at some future time.



Mandatory Fields

There may be some fields on your Production Form that require you to supply information. Project designers often indicate which fields are mandatory with bold prompts, differently-colored prompts, or an asterisk or other symbol in the prompt. If you try to print a card or save the record without completing a mandatory field, a message box appears. When you click **OK** to clear the message, the pointer appears in the mandatory field so you can complete it.

Read-only Fields

There may be some fields on your Production Form that contain information you cannot change, such as a person's birth date or the number of times a card has been printed for that person. Those fields are there for your information only. The pointer will not move to them when you tab through the form and you cannot click in them to place the pointer there. Read-only fields will, however, appear in Quick Search windows if the ID Works project designer specified that they should. See [chapter 4, Searching the Database](#).

Previewing Cards

If your ID Works project includes a card design (and almost all of them do) you can see how the card will look as you are entering information in the Production window.

To see a preview of the card that will be printed, from the menu bar select **View** and then **Card preview – front** or **Card preview – back**. A Card Preview opens. (You can see previews of both sides of the card by selecting each card preview menu command in turn.)



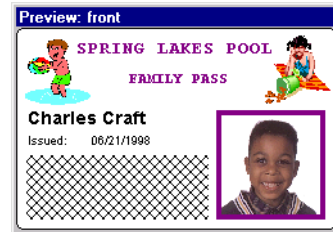
You can move the Card Preview to a different location by clicking on its title bar and dragging it to the new location. You can change the size of the Card Preview by moving the mouse to an edge of the Card Preview until the pointer turns into a two-way arrow, then clicking and dragging the edge of the Card Preview until it is the size you want. The Card Preview will maintain the proper height-to-width ratio. The computer "remembers" the size of the Card Preview you set from day to day and from project to project. The next time you select Card Preview, the Card Preview opens the size you last set.

If your card design includes a barcode and if you enter too much data, the barcode in the Preview will change to diagonal lines. If you enter

the wrong kind of data in the Production Form field associated with the barcode (for example, a letter if the barcode type only accepts numbers), the barcode in the Preview will change to a crosshatch pattern.



Too much barcode data



Unsupported barcode data

If your card design includes a field that is printed with the topcoat panel of the printing ribbon, that field will be displayed as white text or shape. If the field is a graphic or photo, as in the following illustration, it will appear as a black-and-white image.



Printing Cards

You may be able to print cards, print multiple copies of a card, reprint cards, or some combination. Your ID Works administrator determines your card printing privileges.

If your ID Works project is not connected to a database, you must print each card as you gather the information.

If your project is connected to a database, you can print each card as you gather the information or you can collect information on a group of cardholders (saving it in a database) and then print the cards in a

batch. Working with databases is explained in the next section of this chapter.

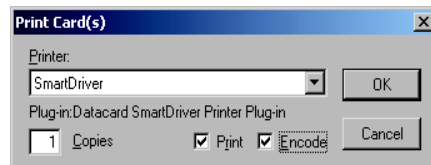
You can print cards from either the Production Form view or the Table view. (See the online help topics “Select Production Form View” and “Select Table View”.) In table view, you can select a subset of records returned from a search and print cards for only the selected records. See [chapter 4, Searching the Database](#), starting on [page 43](#), for more information.

Card printing works the same whether you print cards singly or in batches:

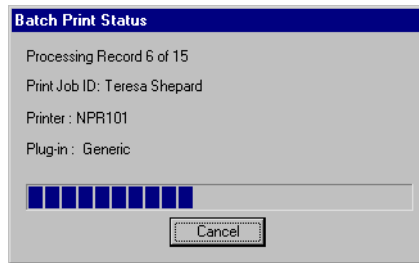
- 1 Gather the cardholder information or select the record(s) to print.
- 2 To print a single card, from the menu bar select **File** and then **Print Card** or click the **Print** button on the toolbar.

To print cards for all the records you selected, from the menu bar select **File** and then **Print All** or click the **Print all** button on the toolbar.

The Print Card(s) dialog box opens.



- 3 If necessary, select your card printer from the list.
- 4 If you want to print more than one copy of the card(s), enter the number of copies you want.
- 5 If your printer has a magnetic stripe or smart card encoder, you can choose to print the card, encode the card, or both by selecting the appropriate check boxes.
- 6 Click **OK**. If you chose to print cards for multiple records, the Batch Print Status dialog box opens.



Clicking the **Cancel** button stops processing cards. However, cards that have already been processed will still be sent to the printer and cards that have been sent cannot be retrieved.

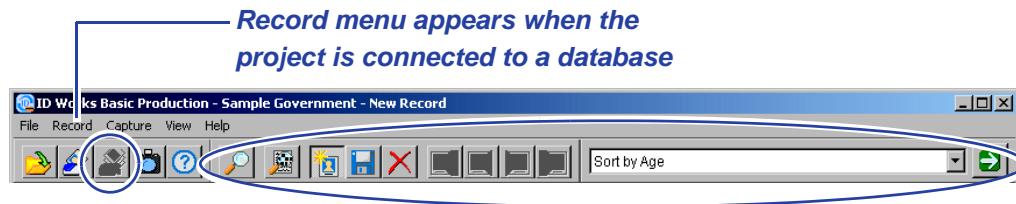
If you print cards in batches and if your ID Works project was set up to allow it, you can track the progress of your print request after it has been sent to the printer:

- 1 From the Windows **Start** button, select **Settings** and then **Printers** or **Printers and Faxes**. The appropriate dialog box opens.
 - 2 Double-click on your card printer. A window with the name of your printer opens. For each card in the print queue, the Document Name column shows the contents of the field that was designated for print tracking (for example, the Name field).
 - 3 To update the list, from the menu bar of the printer window, select **View** and then **Refresh**.
- i** You can use a Windows printer capability to cancel a print job that is in the printer's queue. See Windows help for printers for more information.

Using a Project that is Connected to a Database

Many ID Works projects are connected to a database. That is, the information you gather is saved for future use not only by you but also by other departments in your organization. In other cases, much of the information was entered into the database by someone else, and you retrieve it, add to it (perhaps the photograph), and save changes to the database record.

If your ID Works project is connected to a database, your menu bar will have a **Record** menu and your toolbar will include up to eleven additional buttons and a list box.

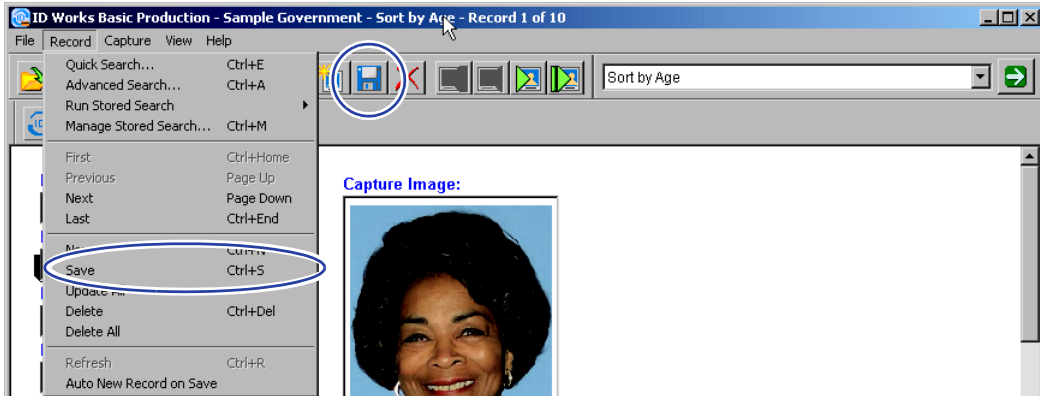


Additional buttons and list box appear when the project is connected to a database

Databases store information in tables. Each row of the table is called a record, and that is why the new menu on the menu bar is named **Record**—it deals with database records. Each column of the table is known as a field. A column contains a category of information, such as a name, a telephone number, or a photograph of the person described in the record. The information you enter in fields in the ID Works Production window can be stored in and retrieved from columns in a database table. Searching the database to retrieve information is explained in [chapter 4, Searching the Database](#).

Changing Information in a Database

If you have permission to make changes to information in the database, a **Save** button will appear on your toolbar and the **Record** menu will have a **Save** command.



To change information in a database:

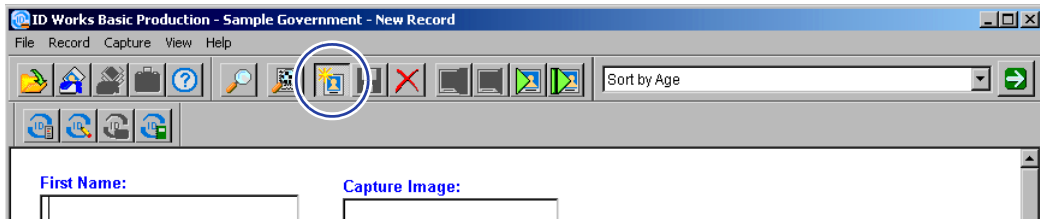
- 1 Locate the record you need to change. See [chapter 4, Searching the Database](#), or go to the online help topic “Find a record with Quick Search” or “Find a record with Advanced Search”.
- 2 Click in or tab to the field that needs to be changed and correct the information.
- 3 If you need to reverse all the changes you made to the record, from the menu bar, select **Record** and then **Refresh**. The information returns to the way the record is stored in the database.
- 4 When all changes have been made, from the menu bar, select **Record** and then **Save** (or click the button on the toolbar that looks like a diskette). The changed information is saved in the database.

To make the same change to multiple database records:

- 1 Create a search request that finds all the records you want to change (and only the records you want to change). See [chapter 4, Searching the Database](#), or go to the online help topic “Find a record” for more information.
 - 2 Change one or more fields in the first record.
 - 3 From the menu bar, select **Record** and **Update All**. A confirmation message appears.
 - 4 Click **Yes** to change all records in the current group of records.
- i** If you change a photo field, a message will appear saying that the photo field will be changed on the current record but not any other records in the group. You will have the opportunity to cancel the update operation or proceed.

Entering a New Database Record

If you have permission to create records in the database, a **New** button will appear on your toolbar and the **Record** menu will have a **New** command.



To add a new record to a database:

✓ Save time and effort when entering many new records. From the **Record** menu, select **Auto New Record on Save**. A new record will be started as soon as you save the current new record.

- 1 From the menu bar, select **Record** and then **New** (or click the button on the toolbar that has a yellow starburst). All fields are cleared or set to their default value.
- 2 Enter data into the fields. See the online help topics “Enter data into a text field” and related topics, as well as “Take a photo” for step-by-step instructions.
- 3 If you need to start over with the record, from the menu bar, select **Record** and then **Refresh**. All fields will return to the way they were in step 1, above.
- 4 When all information has been entered, from the menu bar, select **Record** and then **Save** (or click the button on the toolbar that looks like a diskette). The new record is saved in the database.

i An ID Works project can be set up so that a record is automatically saved to the database each time a card is printed. Ask your ID Works System Administrator if your project has been set up this way. If so, you do not have to remember to save each record.

Deleting a Database Record

If you have permission to delete database records, a **Delete** button will appear on your toolbar and the **Record** menu will have a **Delete** command.



To delete a record from a database:

- 1 Locate the record you need to delete (see [chapter 4, Searching the Database](#), or go to the online help topic “Find a record”).
- 2 From the menu bar, select **Record** and then **Delete** (or click the button on the toolbar that has an X). A confirmation message appears.
- 3 Click **Yes** to delete the record. The record is deleted from the database.

To delete multiple records, repeat the procedure above or use Microsoft Access directly. Another way to delete multiple records is to create a search request that finds all the records you want to delete (and only the records you want to delete). See [chapter 4, Searching the Database](#), or go to the online help topic “Find a record” for more information. Then, from the menu bar, select **Record** and **Delete All** (if **Delete All** is available).

Using the ID Works Reporting Application

3

This chapter uses the sample projects that came with your ID Works software to explain tasks you will perform in the ID Works Reporting application. The projects you use will be created to meet your specific needs, but they will probably follow the same general principles.

This chapter gives you background information about using the ID Works Reporting application. While you are using the software you can get step-by-step instructions on the task you are doing by pressing the F1 key or by selecting **Help Topics** from the **Help** menu.

Reporting Procedure Overview

There are four steps for using the ID Works Reporting application:

- 1 Open a project. (See [“Opening a Project”](#) on page 6.)
- 2 Select a report.
- 3 Select information to fill the report.
- 4 View or print the report.

Selecting a Report

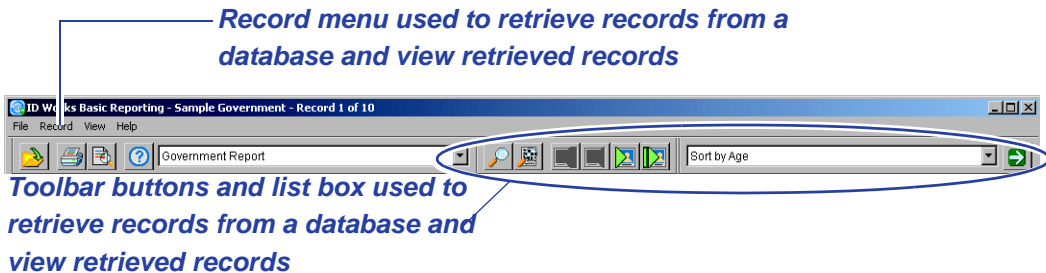
Reports for ID Works projects are created in the Designer application. You select a report to view or print from the menu bar or from the toolbar. See the online help topic “Select a report” for step-by-step instructions.



Selecting Records

Most ID Works projects are connected to a database. That is, the information gathered with the Production application is saved for future use not only by you but also by other departments in your organization.

To use ID Works Reporting, your project **must** be connected to a database. If the project you select is **not** connected to a database, ID Works Reporting presents a message and closes the project. If the project you select is connected to a database, your menu bar will have a **Record** menu and your toolbar will include seven additional buttons and a list box.

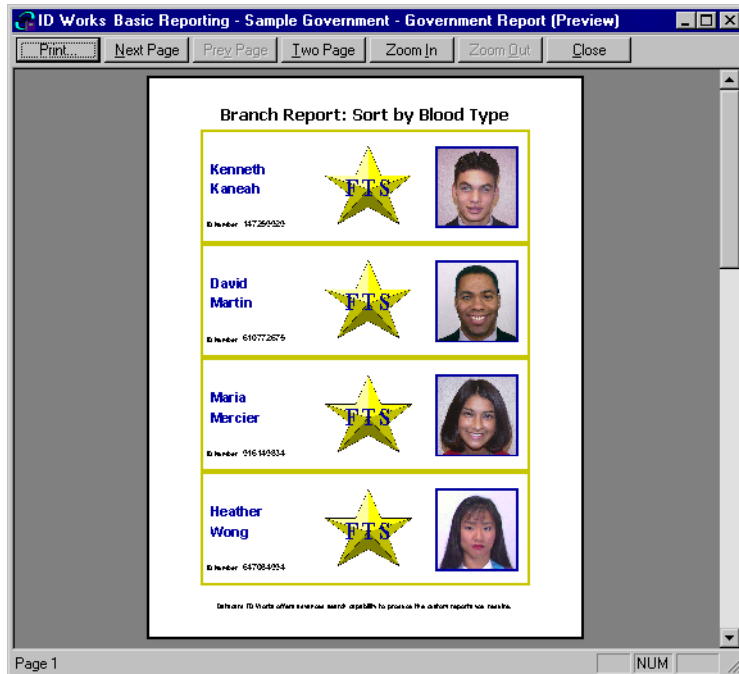


Databases store information in tables. Each row of the table is called a record, and that is why the new menu on the menu bar is named **Record**—it deals with database records. Each column of the table is known as a field. A column contains a category of information, such as a name, a telephone number, or a photo image of the person described in the record. The Reporting application lets you retrieve information stored in a database table and view or print it on a report. Searching the database to retrieve information is explained in [Chapter 4, Searching the Database](#).

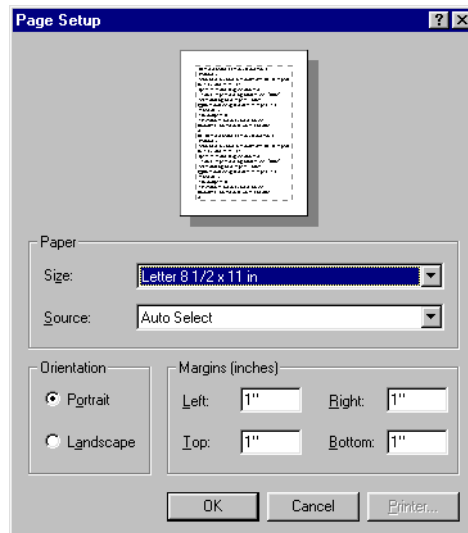
Printing Reports

You can print paper copies of your reports from the Production Form view or from the Table view. See the online help topic “Print a report” for step-by-step instructions. Report printing uses standard Windows Print dialogs.

You can also see a preview of your printed report (see the online help topic “Preview a report printout”). While in the print preview window you can page through the pages of a multi-page report, view two pages side by side, enlarge the report content (**Zoom In**) or reduce it (**Zoom Out**), print the report, or close the print preview. Printing the report or closing the print preview returns you to the view you were using previously.



You can change the Page Setup for a report. Page Setup includes settings for paper size, orientation, and margins (top, bottom, left, and right). See the online help topic “Change the page setup for a report” for step-by-step instructions.



If you change Page Setup properties, the Reporting application will ask if you want the new properties applied to all reports in the project. Any changes you make to Page Setup properties are used until you make other changes or until you close the project. When the project is opened again, the default page setup (specified by the person who designed the project) is used.

When you print a report, the ID Works Reporting application puts as many records on a page as possible. If you change the paper size or margins significantly, fewer (or more) records may fit on a page. If you change the Page Setup properties so much that no report blocks will fit on a page, the Reporting application warns you.

Searching the Database

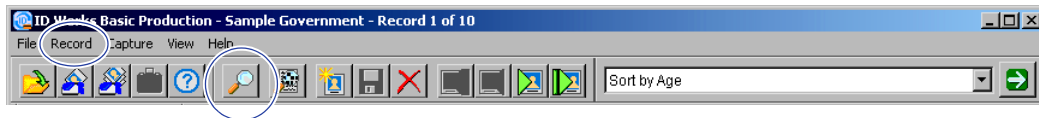
4

Most ID Works projects are connected to a database.

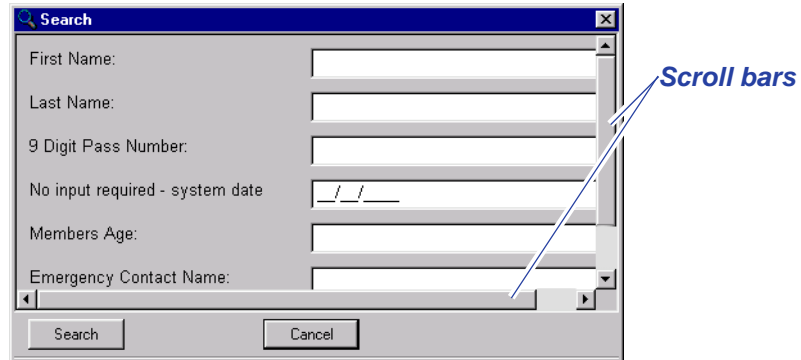
You get information out of a database by searching it. There are two methods for searching the database: Quick Search, for simple or one-time searches, and Advanced Search, for more complicated searches. You (or the ID Works project designer) can use Advanced Search to store search criteria for searches you will perform repeatedly.

Performing a Quick Search

To perform a simple or one-time search of the database, click the button on the toolbar that has a magnifying glass on it (the **Quick Search** button), or from the menu bar, select **Record** and then **Quick Search**. The Quick Search dialog box opens.



- i** If the **Quick Search** button and menu command do not appear on your ID Works window, you do not have permission to search the database or you are restricted to running stored searches. Contact your ID Works administrator to gain permission to search the database.



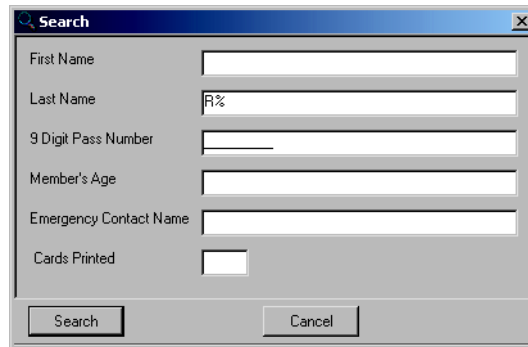
The Quick Search dialog box contains a field for each searchable field in your Production Form. For example, you may see fields for First Name and Last Name. You search on these fields by entering a full or partial name. If necessary, use the scroll bars to see all of the searchable fields. You can also change the size of the dialog box by dragging one of the lower corners.

- ❗ You will never see a photo field in a Quick Search dialog box because you cannot enter search criteria for photos. In addition, the project designer may have excluded some Production Form fields from the Quick Search dialog box to keep it simple.

The kind and amount of information you enter in the Quick Search dialog box determines how many records the database system finds for you. If you click the **Quick Search** button without entering anything in any of the fields, the database system shows you all the records in the database. For example, if a database for a project has 15 records, clicking the **Quick Search** button without making any entries in the dialog box results in 15 records.

Refining the Quick Search

Selecting all the records in the database is fine to demonstrate how a search works on a small sample database. But it is not practical when your database contains hundreds or thousands of records. You can reduce the number of records displayed by entering more specific information in one or more search fields and by using wildcard characters. For example, in the project Sample Loyalty, the following Quick Search dialog box returns 2 records—all the records of people in the database whose last names start with R.

A screenshot of a 'Search' dialog box. The dialog has a title bar with a magnifying glass icon and a close button. It contains six input fields: 'First Name', 'Last Name', '9 Digit Pass Number', 'Member's Age', 'Emergency Contact Name', and 'Cards Printed'. The 'Last Name' field contains the text 'R%'. At the bottom of the dialog are two buttons: 'Search' and 'Cancel'.

This search uses the % (percent) wildcard character. It stands for any number of characters after the R. You can also use the _ (underscore) wildcard character to substitute for a single character. For example, entering Jo_n would find John and Joan but not Johann.

- i** Wildcard characters do not work in date fields or in fields attached to number fields in the database. You must enter exact values in these types of fields.
- i** If you enter data into more than one search field, the database system looks for records that match all fields.

Viewing Search Results

You can view the results of your database searches in two ways. Production Form view presents the information one record at a time in a graphical presentation. While in Production Form view you navigate the search results as described in [“Navigating Search Results” on page 48](#).

ID Works Basic Reporting - Sample Government - Record 3 of 10

File Record View Help

Government Report

Sort by Age

First Name: Mark

Last Name: Romano

ID Number: 147259929

Date of Birth (MM/DD/YYYY): 12/28/1964

Blood Type: A+

Street Address: 471 Waukon Lane

City: Los Angeles

State: CA **Zip Code:** 85001

Capture Image:

FTS

For Help, press F1

Table view presents a screenload of records at a time in the form of a table or chart. Table view may be useful if your search results in more than one or two records. (See the online help topic “Select Table View”.)

To change the width of a column, place the pointer between columns, then click and drag the column boundary.

ID Works Basic Reporting - Sample Government - Record 1 of 10

File Record View Help

Government Report

Sort by Age

First Name:	Last Name:	ID Number:	Date of Birth (M...	Blood Type:	Street Address:	City:	State:	Zip Code:
Julie	Doran	107550849	06/25/1962	B-	234 Peachtree ...	Atlanta	GA	74581
Carmen	Lopez	851830983	02/16/1963	O+	104 N 22nd Av...	Chicago	IL	66601
Mark	Romano	147259929	12/28/1964	A+	471 Waukon Lane	Los Angeles	CA	85001
Maria	Roland	929958859	03/24/1969	B+	32 Catherwood...	Queens	NY	11747
Michelle	Park	211925524	07/15/1970	O-	87 Arapahoe Court	Denver	CO	78541
Patricia	Valdes	916149834	04/04/1975	A+	11111 Bren Ro...	Minnetonka	MN	55343
Michael	Levi	120066726	09/02/1975	AB+	832 East Street	Miami	FL	33301
Judith	Ueno	647084994	07/07/1977	AB-	4567 Mayfair L...	Jacksonville	FL	75481

For Help, press F1

Use scroll bars to see additional information.

While in Table view you navigate the search results using the same techniques you use navigating Windows Explorer. You can also

select records in Table view the way you select files in Windows Explorer. If you select a single record and then switch to Production Form view (see the online help topic “Select Production Form view”), the record you selected appears in the Production Form view. If you select more than one record and then switch to Production Form view, the last record you selected appears in the Production Form view.

In the Production application, if you select only some records while in the Table view and then from the **File** menu choose **Print Selected Cards**, only the records you selected are printed.

In the Reporting application, if you select only some records while in the Table view and then choose the **Selection** option in the Print dialog box, only the records you selected are printed on your report.

Navigating Search Results



When a database search finds multiple records, the title bar of the ID Works application window changes to describe which record is currently visible and the total number of records that met the specifications of the search. Also, the **Next** and **Last** buttons on the toolbar become available for use (as well as the **Next** and **Last** commands on the **Record** menu). If you click the **Next** button, the title bar changes to "Record 2 of ..." and the **First** and **Previous** buttons on the toolbar (as well as the **First** and **Previous** commands on the **Record** menu) also become available for use. You can also use the PAGE DOWN and PAGE UP keys to move through records.

Running a Stored Advanced Search

Stored searches are useful if you perform the same search repeatedly. Instead of typing the search information in the Quick

Search dialog box every time, you simply select the name of the stored search from a list. Because stored searches are created using the Advanced Search feature, you can search for additional kinds of records, such as records that still need a photo. See “[Creating a Stored Search](#)”.



To run a stored search:

- 1 Select **Record** and then **Run Stored Search**. A menu listing the available stored searches appears to the right of the **Record** menu.
- 2 Select the stored search to run. The search results appear in the project window, and the name of the stored search appears in the title bar of the window.

To repeat a stored search, simply click the **Run Stored Search** button on the toolbar.

Creating a Stored Search



To create a stored search, click the button on the toolbar that has a magnifying glass over a form (the **Advanced Search** button) or, from the menu bar, select **Record** and then **Advanced Search**. The Advanced Search dialog box opens. It has three tabbed pages and a common area at the bottom that contains a display of the SQL search string in its current state, a **Search** button for executing the search, and **Close** and **Cancel** buttons.

- i Pressing ENTER on your keyboard while in the Advanced Search dialog box is the same as clicking the **Search** button: the dialog box closes and the search results appear in the application window. If you reenter the Advanced Search dialog box, it appears as it was when

you executed the search. The ID Works software continues to “remember” your last search until you close the project.

Filter Tab

The screenshot shows the 'Advanced Search [New Search]' dialog box with the 'Filter' tab selected. The 'Production form field name' dropdown is set to 'Age', and the 'Production form prompt' text box contains 'Members Age'. The 'Field Constraint' dropdown is set to '<', and the 'Constraint rule' dropdown is also set to '<'. There are three checkboxes: 'Include NULL values' (unchecked), 'Match text case-insensitive' (unchecked), and 'Exclude constraint detail' (unchecked). Below these are the 'Constraint Detail' section with 'Constraint value' and 'Ending constraint value' text boxes, and a 'Multi-value Constraint List' with 'Insert...', 'Edit...', and 'Delete' buttons. At the bottom of the dialog are 'Add Constraint', 'Clear Constraint', and 'Clear All Constraints' buttons. A 'Select records where...' section is at the bottom with a scrollable area and 'Search', 'Close', and 'Cancel' buttons.

On the **Filter** tab, **Production Form field name** lists all fields on the current project’s Production Form that are directly connected to a database table column. Composite fields are not listed. When you select a field from the list in **Production Form field name**, the prompt for that field appears in **Production Form prompt** and possible selections become available in **Constraint rule**. When you select a constraint rule, appropriate Field Constraint and Constraint Detail selections become available for the current rule. Constraint rules available for each Production Form field type, constraint values required for those rules, and other details are given in [“Search Rules” on page 56](#).

Definitions of potential selections in the Field Constraint area are:

Include NULL values — If selected, records with null values in the field (no information in the database column) will be included in the search results.


Match text case-insensitive — Access always selects text case-insensitive. You can ignore this option.

Exclude constraint detail — If selected, all records that *do not* match the **Constraint value** will be included in the search results. Use this option when it is easier to define records that should not be included.

In the Constraint Detail area, you may be required to enter information in **Constraint value** only, in **Constraint value** and **Ending constraint value**, or in the Multi-value Constraint List area. If the Production Form field you selected is connected to a date type database column, the **Constraint value** and **Ending constraint value** have an arrow at the right side of the field. You can click the arrow to select a date from a calendar or type a date in the field.

Using the Multi-value Constraint List

To select records that match any of a number of criteria (for example, to select records for employees living in New York, London, or Amsterdam), select the IN constraint rule. The **Insert** button in the Multi-value Constraint List area becomes available. When you click **Insert**, the Constraint List dialog box opens. Here you enter constraint criteria (for example, Amsterdam to select employees living in Amsterdam). When you click **OK**, the Constraint List dialog box closes and the constraint you entered appears in the list of constraints. You can insert as many constraints as necessary. You can change or delete constraints in the list by selecting them and then clicking **Edit** or **Delete**.

-  Access does not support wildcard characters for entries in the Multi-value Constraint List.

Adding and Clearing Constraints

When you have entered the required constraint detail for the Production Form field and constraint rule you selected, the **Add Constraint** button becomes available. When you click **Add**

Constraint, the constraint is added to the search string displayed at the bottom of the dialog box, becoming part of your search when executed.

Clear Constraint and **Clear All Constraints** are always available. **Clear Constraint** removes from the search string the constraint information for the Production Form field currently selected; **Clear All Constraints** removes all constraint information from the search string.

Modifying a Constraint

If you need to change a constraint, select the field you want to change. The Constraint rule and Constraint values display the current settings for that field. After making your changes, click **Add Constraint**. The constraint is updated in the search string displayed at the bottom of the dialog box.

Sort Order Tab

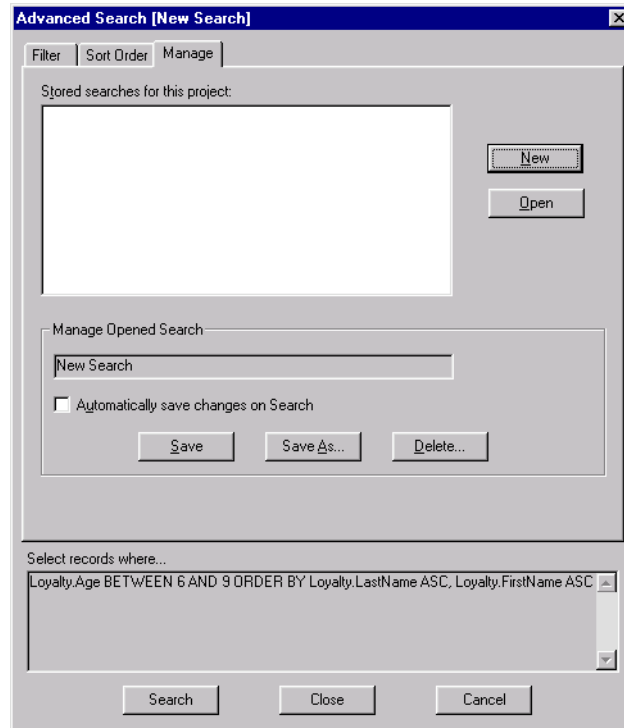
The screenshot shows the 'Advanced Search [New Search]' dialog box with the 'Sort Order' tab selected. The 'Primary Sort' section has 'Production Form field name' set to a dropdown menu and 'Production Form prompt' set to an empty text box. The 'Ascending order' radio button is selected. The 'Secondary Sort' section is also visible with similar controls. The 'Apply Sorting' and 'Clear Sorting' buttons are located below the sorting sections. The 'Select records where...' text box contains the query 'Loyalty.IssueDate < #2000-05-27 00:00:00#'. The 'Search', 'Close', and 'Cancel' buttons are at the bottom of the dialog.

The **Sort Order** tab lets you control the order in which records are presented. For example, you might want records shown in alphabetical order by last name. The **Sort Order** tab allows for a two-level sort, as shown in the example above. Specifying a sort order is optional. If you do not select a sort order, search results will be presented in an order determined by the database system.

In the Primary Sort area on the **Sort Order** tab, **Production Form field name** lists all the text, list, date, auto sequence, and print count fields on the current project's Production Form. When you select a field, the prompt for that field appears in **Production Form prompt** and the buttons for selecting ascending or descending order become available. The Secondary Sort area also becomes available, with the remaining Production Form fields eligible for sorting listed in **Production Form field name**.

When you have selected a field name in the Primary Sort area, the **Add Sorting** button becomes available. When you click **Add Sorting**, the sort order you specified is added to the search string displayed at the bottom of the dialog box. Clicking **Clear Sorting** removes all sort order information from the search string.

Manage Tab



The **Manage** tab lets you save your searches by name. It also lists any existing stored searches for the current project and gives you a way to change them.

If you entered search criteria on the other tabs of the dialog box before clicking the **Manage** tab, “New Search” appears in the Manage Opened Search area, as in the previous example. When you click **Save** or **Save As**, the Store Advanced Search dialog box opens, where you type the name you want to use for the stored search. After

an advanced search is named, clicking **Save** saves any changes you made under that name.

- i** Stored search names can be up to 25 characters long. They can include spaces but they cannot contain any of the following characters: \ / : * ? " < > |
- i** Stored search names are case-insensitive and must be unique within the project. That is, if your project has a search named Needs Photo, you cannot name a new search NEEDS PHOTO.

The current search criteria will remain active until you open another search or close the project. To prevent accidentally losing your changes, you can choose to have your search permanently saved in its current form each time you select **Search** by selecting **Automatically save changes on Search**.

If you click **New**, any search criteria you entered is cleared and you can start over with a new search.

Changing a Stored Search

To change a stored search, select the search from **Stored searches for this project** and then click **Open**. The name of the search you selected appears in the Manage Opened Search area. Make the necessary changes on the **Filter** and **Sort Order** tabs and then return to the **Manage** tab of the dialog box. Click **Save** to save your changes permanently or click **Save As** to choose a different name and keep the original search.

Deleting a Stored Search

To delete a stored search, select the search from the **Stored searches for this project** list and then click **Open**. The name of the search you selected appears in the Manage Opened Search area. Click **Delete** and then click **Yes** to permanently delete the search.

Search Rules

The rest of this chapter lists the constraint rules available for each type of Production Form field, gives the required Constraint Detail for each field type-constraint rule combination, and explains how the Field Constraint options affect the constraint. Use this information for reference if your searches do not return the results you expect.

Text Fields

Possible constraints for Production Form text fields or list fields connected to a text database column are:

Constraint Rule	Required Detail	Supported Options		
		Exclude	Case Insensitive	NULL
=	A value	Yes	N/A	Yes
IN	Multi-value Constraint List	Yes*	N/A	Yes
IS NULL	None	No	N/A	No
IS NOT NULL	None	No	N/A	No

* Excludes entire list.

= Constraint Rule

Use the = rule to create a single-value text match. It supports using the SQL wildcard characters % and _. If you do not choose any of the options described below, the = rule is equivalent to the support offered in the Quick Search dialog box. If you use a wildcard character, the actual query will contain a LIKE operator. Example: where EMPLOYEE.LASTNAME LIKE 'Jon%'

If you do not use a wildcard character, the query will contain an = operator. Example: where EMPLOYEE.LASTNAME = 'Jones'

Exclude Option

If you select **Exclude constraint detail**, the search will return all the values that do not match the constraint detail. Example:
where EMPLOYEE.LASTNAME <> 'Jones'

Case Insensitive Option

This option has no effect because Access databases provide this option natively.

NULL Option

The **Include NULL values** option provides a way to include records when the field has no entry in addition to the other values you are searching for. Example: where ((EMPLOYEE.LASTNAME = 'Jones') OR (EMPLOYEE.LASTNAME IS NULL))

You can use the **Include NULL values** option with either or both of the other options.

IN Constraint Rule

Use the IN rule when you need to match several distinct values. Example: where EMPLOYEE.LASTNAME IN (Jones, Li, Garcia)

Exclude Option

If you select **Exclude constraint detail**, the search will return all the values that do not appear anywhere on the list. It applies an SQL NOT to the constraint. Example: where EMPLOYEE.DEPARTMENT NOT IN ('Engineering', 'Marketing', 'Sales')

Case Insensitive Option

This option has no effect because Access databases provide this option natively.

NULL Option

The **Include NULL values** option provides a way to include records when the field has no entry in addition to the other values you are searching for. Example: where (EMPLOYEE.DEPARTMENT IN

('Engineering', 'Marketing', 'Sales')) OR (EMPLOYEE.DEPARTMENT IS NULL)

You can use the **Include NULL values** option with either or both of the other options.

IS NULL Constraint Rule

Use the IS NULL rule to find records when the field has no entry.
Example: where EMPLOYEE.LASTNAME IS NULL

No options are available with the IS NULL constraint rule.

IS NOT NULL Constraint Rule

Use the IS NOT NULL rule to match everything but NULL values for this field. Example: where EMPLOYEE.LASTNAME IS NOT NULL

No options are available with the IS NOT NULL constraint rule.

Numeric Fields

Possible constraints for Production Form auto sequence fields, print count fields, list fields, and text fields connected to a numeric database column are:

Constraint Rule	Required Detail	Supported Options		
		Exclude	Case Insensitive	NULL
=	A value	Yes	No	Yes
>	A value	Yes	No	Yes
<	A value	Yes	No	Yes
BETWEEN	Two values	Yes	No	Yes
IN	Multi-value Constraint List	Yes*	No	Yes
IS NULL	None	No	No	No
IS NOT NULL	None	No	No	No

* Excludes entire list.

= Constraint Rule

Use the = rule to match an exact value. Example:
where EMPLOYEE.DNMBR = 716

Exclude Option

If you select **Exclude constraint detail**, the search will return all records with values that do not match the value you entered.
Example: where EMPLOYEE.DNMBR <> 716

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain the value you entered. Example: where ((CARD.PRINTCOUNT = 0) OR (CARD.PRINTCOUNT IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

> Constraint Rule

Use the > rule to find records with values greater than the value entered (that is, more positive). Example: where EMPLOYEE.AGE > 65

Exclude Option

If you select **Exclude constraint detail**, the search will return all records with values less than or equal to the value you entered.
Example: where EMPLOYEE.AGE <= 65

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain values greater than the value you entered. Example: where ((EMPLOYEE.AGE > 65) OR (EMPLOYEE.AGE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

< Constraint Rule

Use the < rule to find records with values less than the value entered (less positive). Example: where EMPLOYEE.AGE < 18

Exclude Option

If you select **Exclude constraint detail**, the search will return all records with values greater than or equal to the value you entered. Example: where EMPLOYEE.AGE >= 18

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain values less than the value you entered. Example: where ((EMPLOYEE.AGE < 18) OR (EMPLOYEE.AGE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

BETWEEN Constraint Rule

Use the BETWEEN rule to find records with values between two bounding values (and including the bounding values). Example: where EMPLOYEE.AGE BETWEEN 18 AND 65

Exclude Option

If you select **Exclude constraint detail**, the search will return all records with values outside the bounding values you entered. It applies an SQL NOT to the constraint. Example: where EMPLOYEE.AGE NOT BETWEEN 18 AND 65

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain values between the values you entered. Example: where ((EMPLOYEE.AGE BETWEEN 18 AND 65) OR (EMPLOYEE.AGE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

IN Constraint Rule

Use the IN rule to match multiple values. Example:
where EMPLOYEE.DNMBR IN (716, 729, 766)

Exclude Option

If you select **Exclude constraint detail**, the search will return all the records with values that do not appear anywhere on the list. It applies an SQL NOT to the constraint. Example: where EMPLOYEE.DNMBR NOT IN (716, 729, 766)

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain values you entered. Example: where ((EMPLOYEE.DNMBR IN (716, 729, 766)) OR (EMPLOYEE.DNMBR IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

IS NULL Constraint Rule

Use the IS NULL rule to find records when the field has no entry.
Example: where CARD.PRINTCOUNT IS NULL

No options are available with the IS NULL constraint rule.

IS NOT NULL Constraint Rule

Use the IS NOT NULL rule to match everything but NULL values for this field. Example: where CARD.PRINTCOUNT IS NOT NULL

No options are available with the IS NOT NULL constraint rule.

Date Fields

The display and entry format for stored search dates is controlled by the **Short date style** setting in the Regional Settings Properties dialog box of the Control Panel. Setting the **Short date style** to use a two-digit year may result in a year with a century that is not what the user expected. To avoid this possibility, select a **Short date style** setting that uses a four-digit year.

Possible constraints for Production Form date fields are:

Constraint Rule	Required Detail	Supported Options		
		Exclude	Case Insensitive	NULL
EXACT DATE	A date	Yes	No	Yes
SINCE	A date	Yes	No	Yes
BEFORE	A date	Yes	No	Yes
BETWEEN	Two dates	Yes	No	Yes
PREVIOUS _ DAYS	An integer (1 - 31)	No	No	No
PREVIOUS _ MONTHS	An integer (1 - 12)	No	No	No
IS NULL	None	No	No	No
IS NOT NULL	None	No	No	No

EXACT DATE Constraint Rule

Use the EXACT DATE rule to match an exact date value. Because time may not be specified for the field but may be stored in the database, this constraint is turned into a BETWEEN constraint for the entered date between 00:00:00 and 23:59:59. Example:
where EMPLOYEE.HIREDATE BETWEEN 2000-11-16 00:00:00
AND 2000-11-16 23:59:59

Exclude Option

If you select **Exclude constraint detail**, the search will match any date other than the one you entered. It applies an SQL NOT to the constraint. Example: where EMPLOYEE.HIREDATE NOT BETWEEN 2000-11-16 00:00:00 AND 2000-11-16 23:59:59

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain the date you entered. Example: where ((EMPLOYEE.HIREDATE BETWEEN 2000-11-16 00:00:00 AND 2000-11-16 23:59:59) OR (EMPLOYEE.HIREDATE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

SINCE Constraint Rule

Use the SINCE rule to match any date greater than the entered date (that is, going forward in time). Because time may not be specified for the field but may be stored in the database, the time 23:59:59 is added to the date. Example:
where EMPLOYEE.HIREDATE > 2000-11-16 23:59:59

Exclude Option

If you select **Exclude constraint detail**, the search will match any date less than or equal to the one you entered. Example:
where EMPLOYEE.HIREDATE <= 2000-11-16 23:59:59

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain dates greater than the date you entered. Example:
where ((EMPLOYEE.HIREDATE > 2000-11-16 23:59:59) OR (EMPLOYEE.HIREDATE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

BEFORE Constraint Rule

Use the BEFORE rule to match any date less than the entered date (that is, going backward in time). Because time may not be specified for the field but may be stored in the database, the time 00:00:00 is added to the date. Example:
where EMPLOYEE.HIREDATE < 2000-11-16 00:00:00

Exclude Option

If you select **Exclude constraint detail**, the search will match any date greater than or equal to the one you entered. Example:
where EMPLOYEE.HIREDATE >= 2000-11-16 00:00:00

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain dates less than the date you entered. Example: where ((EMPLOYEE.HIREDATE < 2000-11-16 00:00:00) OR (EMPLOYEE.HIREDATE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

BETWEEN Constraint Rule

Use the BETWEEN rule to find records with dates between two bounding dates (and including the bounding dates). The **Constraint value** must have a date earlier than **Ending constraint value**. To search for dates in the future, set the **Ending constraint value** first and then the **Constraint value**. Because time may not be specified for the field but may be stored in the database, the time 00:00:00 is added to the date you enter in **Constraint value** and 23:59:59 is added to the date you enter in **Ending constraint value**. Example:
where EMPLOYEE.HIREDATE BETWEEN 1995-11-11 00:00:00 AND 1995-12-31 23:59:59

Exclude Option

If you select **Exclude constraint detail**, the search will return all records with dates outside the bounding dates you entered. It applies an SQL NOT to the constraint. Example:

where EMPLOYEE.HIREDATE NOT BETWEEN 1995-11-11 00:00:00 AND 1995-12-31 23:59:59

NULL Option

If you select **Include NULL values**, the search will return all records with NULL values in addition to records that contain dates between the dates you entered. Example: where ((EMPLOYEE.HIREDATE BETWEEN 1995-11-11 00:00:00 AND 1995-12-31 23:59:59) OR (EMPLOYEE.HIREDATE IS NULL))

You can use the **Include NULL values** option with the **Exclude constraint detail** option.

PREVIOUS _ DAYS Constraint Rule

This constraint offers a relative date. When you open the search, the starting date is calculated as *Current Date - x Days* where *x* is the **Constraint value** you entered (from 1 to 31). Because time may not be specified for the field but may be stored in the database, this rule expands to use a > clause with time set to 00:00:00. Example: (query opened on March 17, 2000, with **Constraint value** set to 1) where CARD.ISSUEDATE > 2000-03-16 00:00:00

No options are available with the PREVIOUS _ DAYS constraint rule.

PREVIOUS _ MONTHS Constraint Rule

This constraint offers a relative date. When you open the search, the starting date is calculated as *the same day x months ago* where *x* is the **Constraint value** you entered (from 1 to 12). If the current day does not exist in the starting month, the highest valid date for the month is used. Because time may not be specified for the field but may be stored in the database, this rule expands to use a > clause with time set to 00:00:00. Example: (query opened on March 31, 2000, with **Constraint value** set to 1) where CARD.ISSUEDATE > 2000-02-29 00:00:00

i This behavior matches the operation of the Windows Explorer Find File function.

No options are available with the PREVIOUS _ MONTHS constraint rule.

IS NULL Constraint Rule

Use the IS NULL rule to find records when the field has no entry.

Example: where EMPLOYEE.HIREDATE IS NULL

No options are available with the IS NULL constraint rule.

IS NOT NULL Constraint Rule

Use the IS NOT NULL rule to match every record without NULL values for this field. Example:

where MEMBER.TERMDATE IS NOT NULL

No options are available with the IS NOT NULL constraint rule.

Image Fields

Image field constraints are more complicated than other field types because you can specify how an image field is treated as part of a collection of image fields.

Possible constraints for Production Form photo fields are:

Constraint Rule	Required Detail	Supported Options		
		Exclude	Case Insensitive	NULL
All selected fields have data	None	No	No	No
At least one selected field has data	None	No	No	No
At least one selected field is empty	None	No	No	No
All selected fields are empty	None	No	No	No

If there is only one image field in your project—or if you need to query only one of the image fields in your project—selecting either **All selected fields have data** or **At least one selected field has data** gives the same result. Similarly, selecting either **At least one selected field is empty** or **All selected fields are empty** gives the same result.

If your project has more than one image field and you need to examine more than one of them for a search, the image fields that share the same rule are grouped.

- i** If images are stored as files, the existence constraint rules check for a path in the database, not the actual file. If a file is moved, renamed, or deleted, the Production user will receive a “file not found” message when the operator attempts to view the record.

No options are available with any of the image field constraint rules.

All selected fields have data Constraint Rule

Use this rule to find records where an image exists for all image fields that share this rule. Example: where (EMPLOYEE.FRONT IS NOT NULL AND EMPLOYEE.RIGHT IS NOT NULL)

At least one selected field has data Constraint Rule

Use this rule to find records where at least one of the specified images does not exist. Example: where (EMPLOYEE.FRONT IS NULL OR EMPLOYEE.RIGHT IS NULL)

At least one selected field is empty Constraint Rule

Use this rule to find records where at least one of the specified images exists. Example: where (EMPLOYEE.FRONT IS NOT NULL OR EMPLOYEE.RIGHT IS NOT NULL)

All selected fields are empty Constraint Rule

Use this rule to find records where none of the specified images exists. Example: where (EMPLOYEE.FRONT IS NULL AND EMPLOYEE.RIGHT IS NULL)

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About the Administrator's Guide

This document is one of three sources of information about Datacard® ID Works® Basic identification software.

- The CD insert tells how to install ID Works software.
- The online help system tells you **how** to perform ID Works tasks. You can access the online help system from the **Help** menu in each ID Works application or by pressing the F1 key.
- This *Administrator's Guide*, part of the Online Reference Library, explains **why** you might want to use the various features available in the ID Works applications. It also suggests the order in which tasks should be performed. The Online Reference Library also contains documents about printer plug-ins available for use with ID Works Basic.

System Overview



Datacard® ID Works® Basic identification software includes four applications:

ID Works Designer lets you create projects that meet your organization's specific needs for card designs, report designs, data entry, and database access.

In some organizations, one person performs all the Designer functions. In others, a graphic artist may be responsible for card designs while a programmer, database administrator, and/or manager develop the Production Forms, reports, and connections.

ID Works Production lets a Production operator use the projects you create in the Designer application to gather information, access your database, and print identification cards.

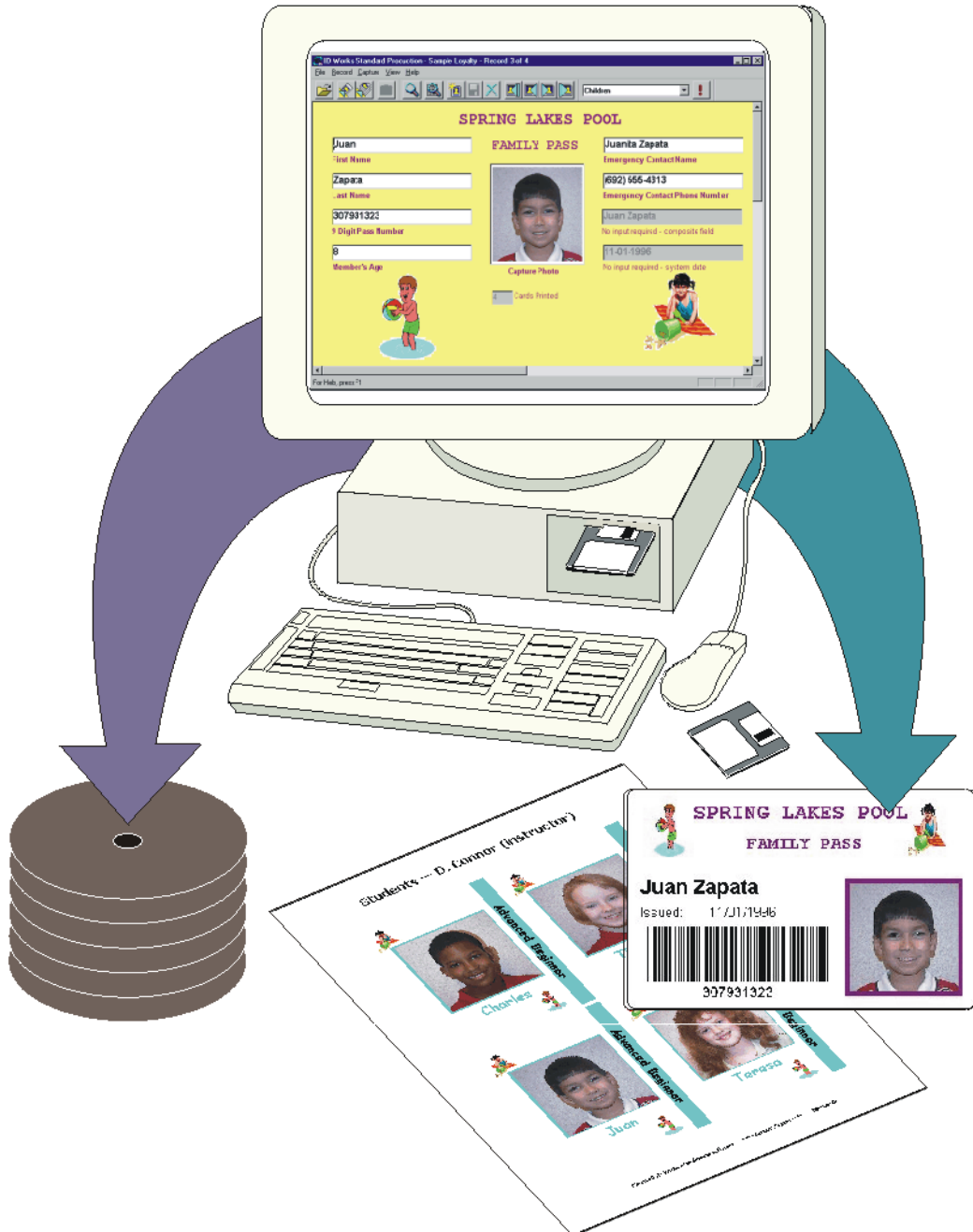
ID Works Reporting lets a Production operator generate and print image-rich reports from your database.

ID Works Administrator contains tools to manage user accounts, monitor security, and configure your ID Works software.

Introducing the ID Works “Project”

An ID Works project is similar to a folder or directory on a computer: it is the container that holds information about an identification implementation. In fact, when you create an ID Works project, the software creates a folder on your hard drive with the name you give the project. And, just as you can have many folders on your computer, you can have many ID Works projects. The only limitation is your disk capacity.

A project usually contains a Production Form and a card design (although a card design is not required). Optionally, your project can contain one or more report designs and one or more stored searches. By using field connections, information entered in a Production Form can be saved in a database, printed on a card, used in a report, or all of the above. The Production Form can also be used to query an existing database so that you can add or change information in the database or print cards and reports using information in the database.



Security

An identification program is not secure if the computer system that gathers information and produces the ID cards is not secure. ID Works Basic identification software gives you a number of ways to ensure the security of your identification program.

Using the ID Works Administrator application, you authenticate users with individual, password-protected accounts. User account privileges can be tailored to allow access to specific applications, activities, and projects. Significant user actions, such as logging in, opening projects, and printing cards, create entries in an audit log. You can review and print the audit log using the ID Works Administrator application.

You can track changes ID Works users make to your database. In ID Works Designer you specify whether changing a Production Form field is to be recorded in the audit log.

See [“System Security” on page 119](#) for complete information.

Getting Started

The rest of this chapter explains the steps you take to begin using your ID Works identification software.

Logging In to an ID Works Application

To begin using ID Works software, double-click the ID Works Designer shortcut icon on your desktop.

In the User Login dialog box, type your User Name and User Password, and then click the **Log in** button.

- i** The default User Name and User Password are Admin and Admin. If you have not already done so, change the password for the default user account and create a user account with System Administrator privileges for yourself. See [“Changing the Admin User Name Password” on page 120](#) for more information.

When you are logged in to an ID Works application, you do not need to supply your user name and password again to start another ID Works application.

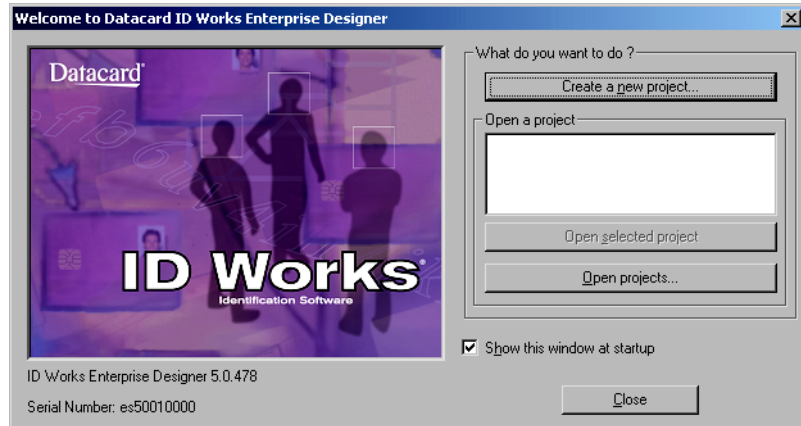
Changing Your User Password

Each time you log in to an ID Works application you have the opportunity to change your user password. To change your password, click the **Change Password** button any time before completing the login. The Login and Change Password dialog box opens, where you must supply your user name, current password, and a new password. You will also need to type the new password a second time for verification. Then click the **Log in** button to complete the change and log in to the ID Works application.

- i** Passwords can be 1 to 10 characters long and can include any character you can type from the keyboard. Passwords are not case sensitive. That is, ADMIN, admin, and AdmiN are all treated as the same.

Using the Welcome Dialog Box

After you have changed your password or entered it and clicked **Log in**, the Welcome dialog box appears.



From this dialog box you can start a new project (see [“Create the ID Works Project” on page 11](#)) or open an existing project. If the project you want to open is not listed, click **Open projects** or **More projects** to display the Open Project dialog box, which lists all ID Works projects loaded on your computer.

You can also choose not to have the Welcome dialog box display by clearing the check mark next to **Show this window at startup**. If you

hide the Welcome dialog box and later want to show it again, from the Designer menu bar, select **View** and then **Show Welcome on startup**. The selection you make applies only to the Windows user name you used to log in and only to the Designer application. Other ID Works applications have separate settings for showing the Welcome window.

Using ID Works Applications

If you are familiar with your Microsoft® Windows® operating system and typical office applications, such as word processing and presentation software, ID Works software will feel familiar to you. ID Works applications let you perform most actions several ways: by selecting menu commands with the mouse, or with the keyboard, or by clicking a toolbar button, or by clicking the right mouse button and selecting from the pop-up menu. Key commands or shortcuts for actions common to many applications—such as cut, paste, and save—follow Microsoft Office conventions; you do not have to relearn your favorite shortcuts.

Most ID Works applications have several toolbars, and you can display or hide toolbars on a case-by-case basis. When you rest the mouse pointer on a toolbar button, the name and function of the button appears.

A status bar at the bottom of the window provides additional information about the application. As with toolbars, you can choose to view or hide the status bar.

The screenshot shows the ID Works Basic Designer interface. The main window is titled 'Production Form' and displays a yellow background with the text 'SPRING LAKES POOL FAMILY PASS'. The form contains the following fields:

- First Name:
- Last Name:
- 9 Digit Pass Nu:
- Member's Age:
- Emergency Contact Name:
- Emergency Contact Phone Number:
- Emergency Contact Address:
- Emergency Contact Date:

A preview window titled 'Family Pass Card' shows the final design of the pass card, which includes a photo of Maria Mercier, the text 'SPRING LAKES POOL FAMILY PASS', 'Maria Mercier', 'Issued: 01/31/1995', a barcode, and the number '916149834'. Below the preview, there is a 'Cards Printed' counter showing '0'.

The status bar at the bottom left of the window contains the text 'For Help, press F1'.

Status bar

These fields show sample data.

Working with Fields

Every element on a Production Form, card design, or report block is considered a field. Every field has a name. The Designer application names fields as you insert them, but you can change the system-supplied name (Text Field 1, for example) to a more descriptive name (such as FirstName). Giving fields descriptive names will help you when you are using the field connector to associate Production Form fields with card or report block fields and database table columns.


Field names can be up to 100 characters long and can contain any character you can type on your keyboard.

If you will connect your ID Works project to an existing database, consider giving your ID Works Production Form fields the same names as the database table columns with which they will be associated.

Using the **View** menu, you can choose to have the fields in your Production Form, card design, and report block show either field names or sample data (which you provide) as you work in the ID Works Designer application.

Inserting Fields

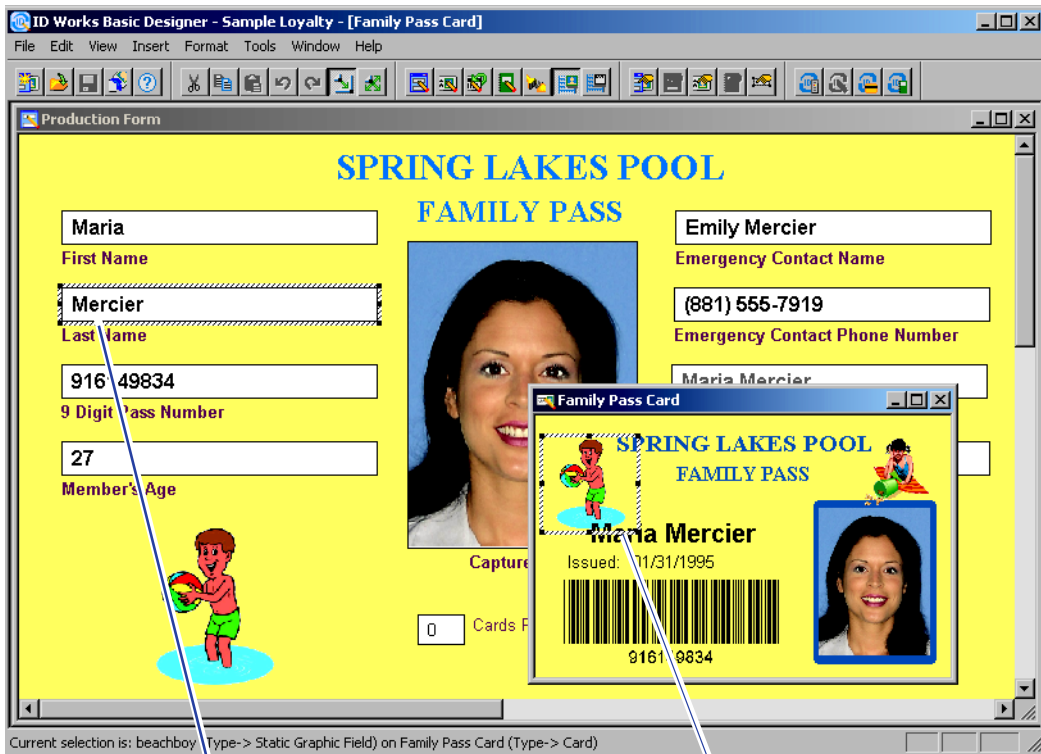
To insert a field, from the menu bar, select **Insert** and then the type of field you want to add to your Production Form, card, or report block.

-  You can copy and paste fields within a project component and between a card and report block. You cannot paste fields between the Production Form and a card or report block. You can, however, create Production Form fields from card fields. See the online help topic “Add fields to a Production Form from a card design”.

The types of fields you can insert depend on whether the Production Form, card design, or report block is active. Some field types, such as list fields, can be inserted only in a Production Form. Others, such as a magnetic stripe field, apply only to a card design.

Selecting Fields

When a field is inserted, it is automatically selected, meaning that you can make changes to it. A field that is selected has a border of diagonal lines and six or eight squares (called sizing handles) around the border, depending on the type of field. In addition, when a single field is selected, the status bar reports the field name, field type, component name, and component type (card, Production Form, etc.).



Text fields have six sizing handles

Graphics fields have eight sizing handles

There are four ways to select a field that was previously inserted, position your mouse pointer over the field you want to change and click.

You can also select two or more fields at a time. Position your mouse pointer over one of the fields you want to select and click. Hold down the SHIFT or CTRL key while clicking on the additional fields.

When multiple fields are selected, you can move them as a group, align them, or make them the same size.

Sizing Fields

With a few exceptions, you can change both the width and height of any field in an ID Works project. The easiest way to change the width of a field is to drag a sizing handle until the field is the size you want. You can also change the height of graphic-oriented fields by dragging a sizing handle. Graphic-oriented fields include photos, graphics, and shapes. See the ID Works Designer online help topic “Size a field proportionately” for information on avoiding distortion of graphics.

To change the height of a Text field or Static Text field, change the size of the Font. See [“Changing Field Properties” on page 10](#).

Arranging Fields

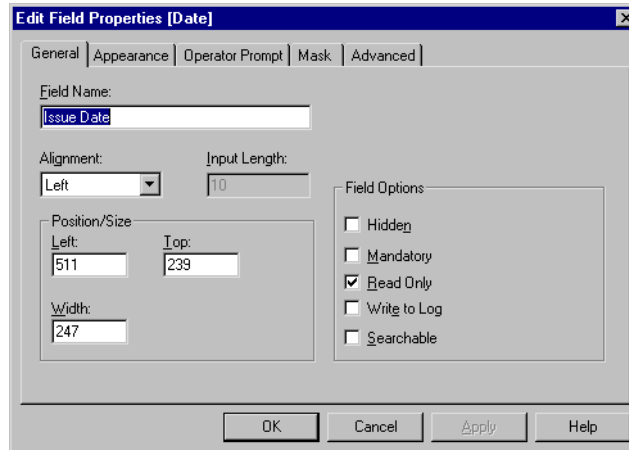
When you insert a field, the Designer application places it near the upper left corner of the Production Form, card design, or report block. To move a selected field, place the mouse pointer over the field. The pointer changes to a four-way arrow. Hold down the left mouse button while you move the field to its new location and then release the mouse button.

As mentioned, you can select multiple fields and then move or align them. For example, to make your Production Form look consistent, select all the fields in the first row and then (using the **Format** or right mouse click menu) align the fields using the **Bottom** selection. Repeat with each row. Then select the left-most field in each row, and align them using the **Left** selection. See the ID Works Designer online help topic “Align fields” for additional options.

If fields overlap, you may need to arrange them by using the stacking order. To understand the stacking order, imagine that each field you place on the Production Form, card design, or report block is on a separate sheet of clear plastic. The first field you place is on a plastic sheet next to the object’s background; the second field is on a sheet in front of the first sheet, and so on. When you select a field, you can bring that field all the way to the front of the stacking order, bring it one position toward the front, send it all the way to the back of the stacking order, or send it one position toward the back. Commands to change the stacking order of fields are available on the **Format** menu of the menu bar.

Changing Field Properties

In addition to changing a field's size and location, you can change other properties of the field in the Edit Field Properties dialog box. To access the Edit Field Properties dialog box, with the field selected, from the menu bar select **Edit** and then **Field Properties**.



The Edit Field Properties dialog box changes depending on the type of field you have selected. The illustration above shows the Edit Field Properties dialog box for a date field on a Production Form. Chapters 2 (for card design fields), 3 (for Production Form fields), and 4 (for report block fields) describe the properties of each field in detail.

You can format the text properties of multiple text-based fields at one time. See the online help topic, “Format text properties for multiple fields” for step-by-step instructions.

Cutting, Copying, and Pasting Fields

You can use standard Windows operations to delete a selected field from your Production Form, card design, or report block, copy a selected field to a clipboard, and paste a copy of a field that is on the clipboard into your Production Form, card design, or report block.

- i** You cannot copy and paste fields between the Production Form and a card or report block.

- ❶ When you cut a field, it is placed on the clipboard. It stays on the clipboard until it is replaced by a different field or you close the project.

Developing a Project

An ID Works project typically involves a Production Form, a card design, connections between the Production Form and card design, and, optionally, reports and connections to your database. It does not matter which part of the project you start with. This document describes card designs first because many people find it easiest to think about a card—something you can hold in your hand. If your main interest is in how your identification system uses your existing database, you might want to start your design with database considerations.

Furthermore, ID Works applications support an iterative design process. You can start with a card design, move to the Production Form, use the field connector to associate Production Form fields with card fields and database table columns, and then go back and refine your card design or make changes to the Production Form.

Create the ID Works Project

You create a new project in the ID Works Designer application. You can either create a project from scratch or start with one of the sample projects provided with the ID Works software. And after you have completed your first ID Works project, you can use it as a starting point for subsequent projects.

To create a new project from scratch, either select **Create a new project** on the Welcome dialog box when you log in or select **File** and then **New Project** from the Designer menu bar. See the online help topic “Create a new project” for step-by-step instructions.

If you use one of the sample projects that includes a database as a starting point, follow the step-by-step instructions in the online help topic “Modifying a sample project” to ensure that your database will not be overwritten if you need to reinstall your ID Works software.

Each project has a set of properties that applies to the project as a whole. You can set which database (if any) your project will connect to and whether your project will use fonts installed in the printer in

addition to fonts available with Windows. Using databases with ID Works projects is explained in the *Operator's Guide*. See the ID Works Designer online help topic "Use printer fonts" for more information on that subject.

Create the Card Design

See [Chapter 2, Plan and Create the Card Design](#) for complete information.

Create the Production Form


See [Chapter 3, Plan and Create the Production Form](#) for complete information.

Create the Report Design

See [Chapter 4, Plan and Create the Report Design](#) for complete information.

Specify a Database

[Chapter 5, Using Databases with ID Works Projects](#) explains database considerations.

-  If you do not have a database of cardholder information, you can create one using the ID Works Designer application. See "[Creating a Database from ID Works Designer](#)" on page 93.

Tie It All Together

[Chapter 6, Connecting Fields](#) explains what you need to do to retrieve information from your database, save information to your database, and print information on cards and reports.

Try It Out

Run the project in the Production and Reporting applications to make sure it behaves as expected and produces error-free results:

- Are text fields wide enough for all the characters that need to be entered in them?
- Are any composite fields on the Production Form configured correctly, and coordinated with the corresponding card or report block field?
- Can you save records to the database—and retrieve them?

Also consider having your Production operators test the project and make suggestions for improvement.

Implement Production

If you work in an organization with a single office, you can begin using your ID Works project as soon as you have completed the design and testing.

If you are designing a project that will be used in a number of facilities or on a number of computers in a single location, you will need to plan for the following aspects:

Physical Components

Your overall system will work most consistently if all the ID Works stations in it have the same image capture devices and printers. Having identical components will allow you to set default values that save your Production operators time and effort. For example, assume all your ID Works systems have the Datacard Tru photo solution as the image capture device. When you add a photo field to the Production Form for your project, you can specify the Tru photo camera as the Default Photo Source on the **Source** tab of the Edit Field Properties [Photo] dialog box and you can specify that the camera initiate capture as soon as the Production operator enters the field (by selecting **Automatically When Field Selected** on the **Advanced** tab of the dialog box). When used by the ID Works Production application, a project with the settings described above will save the Production operator two steps (selecting the photo source and starting the capture process).

Individual computers in your system can have different processing capabilities without significantly affecting how projects are used, but different monitor capabilities may affect how the Production window appears. If you develop and test your project on a large format, high resolution monitor but the Production operators will be using smaller monitors with lower screen resolution, there may be a difference in what the operators see. Consider developing and testing your projects with a display that matches the lowest common denominator display in your overall system.

You must make some configuration settings, such as the one for converting graphics to grayscale for printing with one-color ribbons, on each computer in your system.

Software Components

If possible, update all computers in your system with new ID Works Basic software at the same time. Projects are usable going forward but are not usable going backward. After an ID Works Basic project is saved with a new version of ID Works Basic Designer, older versions of ID Works applications will not be able to open the project. If you must change your ID Works project while some of the computers in your system are using an older version of ID Works Basic, make the changes on a computer that still uses the older version of ID Works Basic Designer.

Database Considerations

Will your Production users be accessing a central database on the network? If so, it is recommended that you use the universal naming convention full path name (starting with \\), not a mapped drive, to specify the database connection on the **Data Source** tab of the Project Properties dialog box. Using the full path name means you do not have to ensure that all the computers in your system map drives the same way. See [Chapter 5, Using Databases with ID Works Projects](#) for more information.

If your Production users will work with a copy of the database on a local hard drive, the database must be located in exactly the same path on all computers in the system.

Consider developing stored database searches for queries that your Production operators will perform repeatedly. Stored searches are

created using the Advanced Search editor in the ID Works Production application and exported with projects.

Distributing ID Works Projects

The final steps in using ID Works projects on multiple systems involve exporting the ID Works project from the computer on which it was designed and importing it on the other computers. You use the ID Works Administrator application for both of these steps.

When you export an ID Works project, you make a Project Export File containing all the information necessary for the project. See the Administrator online help topic “Export a project” for step-by-step instructions.

While it is possible to use diskettes as the export medium, it is recommended that you export large or multi-card projects to a network drive or high-capacity removable medium, such as a USB flash drive.

When you import an ID Works project that was previously exported, you return the files to a form that can be used by ID Works Basic applications. The import utility creates a directory and places the restored files in the location specified for project files. See the ID Works Administrator online help topic “Import a project” for step-by-step instructions.

Distributing Configurations

Magnetic stripe configurations are not stored with ID Works projects. Therefore, the Export utility in ID Works Administrator does not include the magnetic stripe configuration you may have created if your card design includes a magnetic stripe field. See the Online Reference Library document for your printer for information about the location of configuration files and methods for distributing those files to other computers in your system.

Configurations for a camera cannot be exported and must be configured separately for each computer.

Plan and Create the Card Design

2

What Is a Card Design?

A card design defines how a plastic identification card or other printed output will look when printed: what information will be the same on each card (such as a logo or enterprise name) and what information will vary from card to card (the cardholder's name or photo). The card design also specifies whether information will appear on one or both sides of the card and whether the card will have a magnetic stripe or other non-printable area, such as a signature panel.

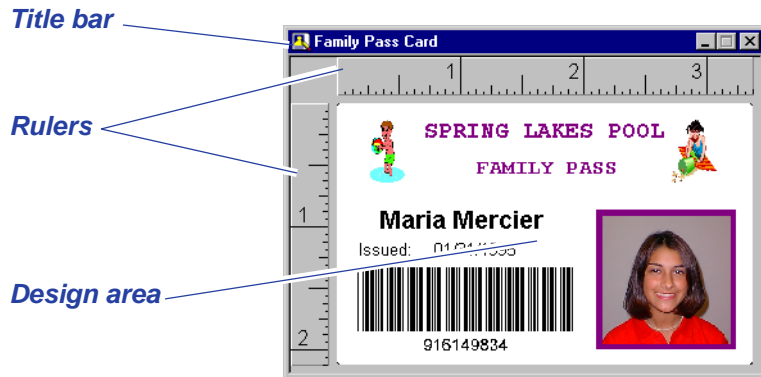
- i** In this chapter, the term “card” is used to mean any printed output, including prescription labels, wrist bands, and other kinds of output in addition to plastic cards. Each card is considered a new document. You cannot print multiple cards to a page; use the ID Works Reporting application for this purpose.

An ID Works Basic project can contain only one card design (but a card design is not required). You can use a variable graphic field to make minor changes to a card design, but if you require significantly different cards, you must create additional ID Works projects. See [“Variable Graphic Field” on page 29](#).

You can create card designs from start to finish or modify one of the sample card designs provided with your ID Works software.

Card Window

You use the Card window in ID Works Designer to create the design for your cards. It contains the following parts.



Title bar—The title bar shows the name of the card you are editing (Family Pass Card in the example above). If you are viewing the back side of the card, that is noted in the title bar. The title bar changes color when that card side is active.

Rulers—The rulers help you locate and size card fields. You turn the rulers on and off by using the **View** menu. You specify the unit of measure to display in the computer's Control Panel, Regional Settings property sheet, **Number** tab, **Measurement system** setting.

i Close your project before changing the unit of measure to display.

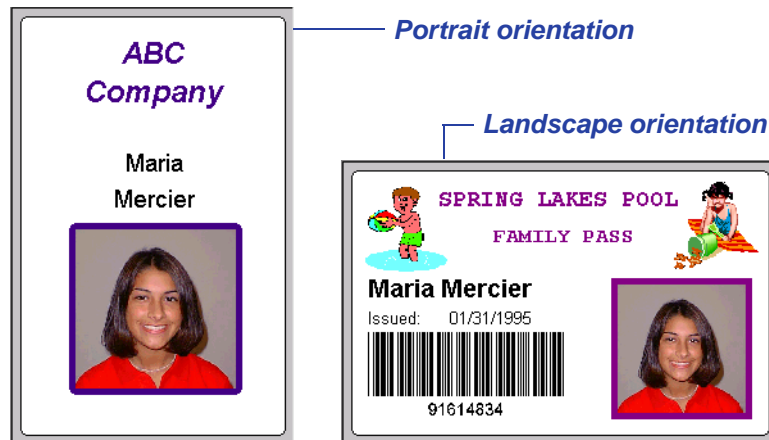
Design area—This area represents the card and shows how the card will look when printed. You place all card fields in this area.

Scroll bars appear if the size of the Card window is smaller than the size of the card. Use the **Maximize** button (on the title bar) to make the Card window as large as possible.

You can create a two-sided card design by simply viewing the back of the card and placing fields on it. See the online help topic “Create a two-sided card” for step-by-step instructions.

Orientation

When you start an ID Works project, you have the opportunity to decide whether you want your card to be in portrait or landscape orientation. You can change the card orientation during the design process, but if you do, you will probably have to move some fields to keep them visible on the card.



The front of the card can have a different orientation from the back.

If the cards you will use have a magnetic stripe, it is typical to designate the side with the magnetic stripe as the back of the card and select landscape orientation for it. Printers differ in how cards must be placed in the input hopper for the magnetic stripe to be encoded. They also differ in how information is printed on the back of the card, compared to the front. If a test card does not print the way you want, you can rotate the print orientation 180 degrees without changing how the card displays in the Card window. See the online help topic “Set card printing options” for step-by-step instructions.

Size

When you start a new project, the card design is the industry-standard CR80 card size. You can change the card size to CR50 (another industry-standard size) or you can define a custom card size. You can change the card size during the design process, but if you do, you will probably have to move some fields to keep them visible on the card. See the online help topic “Change card size” for step-by-step instructions.

- i** Because of the system resources needed to print large cards, Datacard recommends using the Report designer for sizes larger than 4 x 6 inches (10 x 15 centimeters).

Background

You can specify that your card background be printed with a color, with a graphic, or with both. You can use graphics in any of the following formats

BMP	Windows Bitmap
EPS	Encapsulated PostScript
JPG	Joint Photographic Experts Group File Interchange Format (single image per file)
PCT	Macintosh PICT Drawing
PCX	PC Paintbrush
PNG	Portable Network Graphics
PSD	Adobe Photoshop® (3.0)
TGA	TARGA® Image File Format
TIF	Tagged Image File Format (single image per file, uncompressed only)
WMF	Windows Metafile

See the online help topic “Add a graphic or color to a card background” for step-by-step instructions.

You can specify that your background graphic be converted to grayscale and, optionally, printed with the K-panel of the printer ribbon. See “[Printing Graphics with the Card Printer’s K-panel](#)” on [page 114](#) for complete information.

If your printer supports edge-to-edge printing and you want your background to print to all edges of the card, you must select that option on the **Printing** tab of the Edit Card Design Properties dialog box. See the online help topic “Set card printing options” for step-by-step instructions.

- i** Because of the method used to print on plastic cards, dark solid colors may darken at the trailing end of the card. You can compensate for this by using a graphics software package that allows

you to create a solid-colored bitmap that gradually lightens at the trailing end and using that bitmap as the card background.

Topcoat

A topcoat is a layer of material applied to the top of a card that protects the image beneath from chemicals and abrasion and adds a level of protection against card tampering.

If your printer supports topcoat, you can specify that the entire surface of the card have a topcoat or that only the rectangles for certain fields have a topcoat applied. The following table describes how these two levels of topcoat interact.

Field Topcoat	Full Card Topcoat	
	ON	OFF
ON	Topcoat over this field and parts of card without fields	Topcoat applied only to this field area
OFF	Topcoat over parts of the card without fields but no topcoat on this field	No topcoat

Alternatively, you can specify that the content of a field be printed using the topcoat print panel. For example, you could place a static text field on the back of the card and set the display text for the field to the name of your organization. On the Appearance tab of the field's properties dialog box, set the Foreground Color to white and specify that the topcoat panel be used. When the card is printed, your organization's name will be printed using the topcoat panel. If the topcoat panel uses ultraviolet material, the text will be visible only under ultraviolet light.

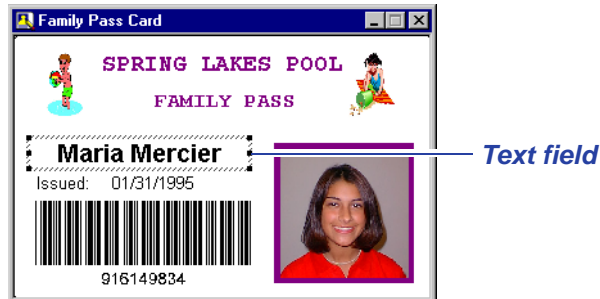
A topcoat would interfere with the operation of some fields, such as magnetic stripe field. For this reason, you cannot specify a topcoat for certain fields.

Types of Card Fields

Card fields are the building blocks of all card designs. You must create a card field for each item you want to print or encode on the card. You define each card field by type. The type specifies the field's contents.

ID Works Basic Designer includes twelve types of card fields: text, photo, date, barcode, magnetic stripe, variable graphic, static text, static graphic, non-printable area, line, rectangle, and ellipse.

Text Field



Text fields print information that changes from one card to the next, such as cardholder data. The data originates in the database or directly from the Production Form, where the operator captures it. You can specify the font and color attributes of a text field, as well as rotate it. See [“Fonts” on page 35](#).

You can also specify that the size of the text will automatically shrink if necessary to fit a large amount of text in the field. The font size shrinks to a minimum of 6 points. If at 6-point type the text still does not fit, characters are dropped from the end.

See the online help topic [“Add a text field to a card”](#) for step-by-step instructions.

Photo Field

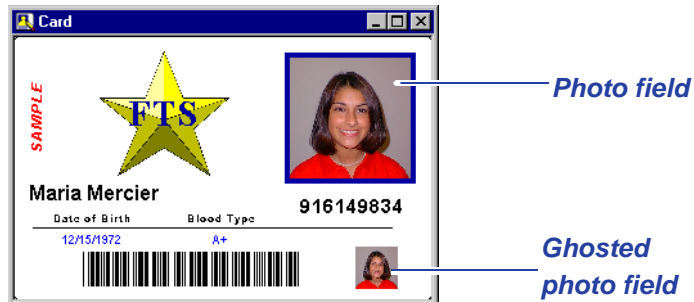


Photo fields contain the cardholder's captured image. You can move and size photo fields, as well as rotate and add a border to them. You can specify that the backdrop be removed from the image at Production time. For complete information, see ["Adjusting Photo Backdrop Removal Parameters"](#) in the *Operator's Guide*.

You can also specify that a photo field appear "ghosted" or semi-transparent. If you apply the ghosting option, you can specify the degree of opacity for the photo.

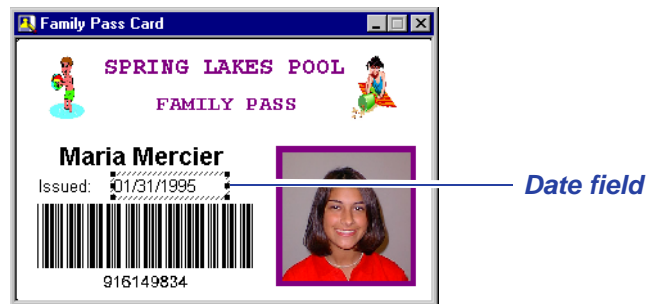
- i** Ghosted photos, photos with borders, and photos that use background removal will not print correctly if they are on a card side configured to print using only the K-panel.

Alternatively, you can specify that the photo be converted to grayscale and, optionally, printed with the K-panel of the printer ribbon. See ["Printing Graphics with the Card Printer's K-panel"](#) on [page 114](#) for complete information.

See the online help topic "Add a photo field to a card" for step-by-step instructions.

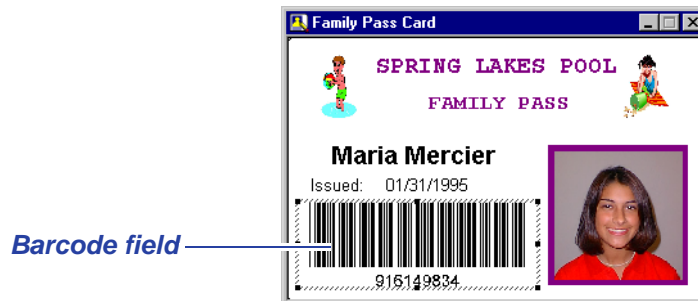
- i** Some photo field options are not compatible with others. If you select an option that is not compatible with an option you previously selected, ID Works Designer will present a message alerting you to the conflict.

Date Field



Date fields contain a date and, optionally, time, in the format you specify on the Production Form. You can specify the font and color attributes of a date field, as well as rotate it. See “[Fonts](#)” on page 35. See the online help topic “[Add a date field to a card](#)” for step-by-step instructions.

Barcode Field



You create barcode fields to print barcodes on your cards. With some types of barcodes, you can specify density, error checking, and whether the barcode field uses a checksum algorithm. The kind of barcode you use in your card design is determined by the barcode reading equipment you use. See the documentation for your barcode reader to determine what barcode type to select. That documentation will also explain the rules for determining valid information for the barcode type you will use.

You select the barcode type on the **Advanced** tab of the Edit Field Properties [Barcode] dialog box. The following table lists the barcode

types ID Works software supports, as well as the options available with each barcode type.

Barcode Type	Options Available
Codabar	Checksum: none, Mod 16, Mod 10, Mod10Lib, Mod10Lun Density: High, Medium, Low
Code 128 Auto	Density: High, Medium, Low
Code 128 A	Density: High, Medium, Low
Code 128 B	Density: High, Medium, Low
Code 128 C	Density: High, Medium, Low
Code 39	Checksum: none, Mod 43, Mod10Lib, Mod10Lun Density: High, Medium, Low
Code 39 Extended	Checksum: none, Mod 43 Density: High, Medium, Low
Code 93	Checksum: none, 2 Mod 47s Density: High, Medium, Low
Code 93 Extended	Checksum: none, 2 Mod 47s Density: High, Medium, Low
EAN/JAN-13	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
EAN/JAN-8	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
HIBC	Checksum: none, Mod 43 Density: High, Medium, Low
Interleaved 2 of 5	Checksum: none, Mod 10, Mod10Lib, Mod10Lun Density: High, Medium, Low

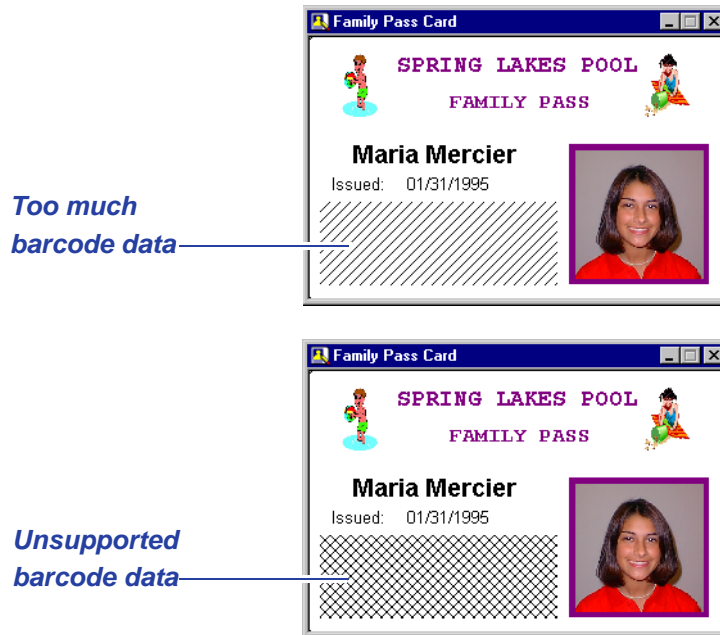
Barcode Type	Options Available
MSI Plessey	Checksum: none, Mod 10, Mod 11 Density: High, Medium, Low
PDF417 (text only; binary data not supported)	Error Correction: none, Level 1 through Level 8 (maximum) Density: High, Medium, Low
Postnet Zip + 4	(no options available)
UCC128	Checksum: none, Mod 10 Density: High, Medium, Low
UPCA	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
UPCE – 0 System 6 Digit	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
UPCE – 1 System 6 Digit	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
UPCE 11 digit	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low

The Background Color Options area of the **Advanced** tab lets you choose a background color for the barcode field. The default background color is white. If you have specified a color for the card background, the **Use Card Background Color** setting becomes available.

- i** If you use a color other than white for the barcode background, print a sample card and test it in your barcode reading equipment to make sure the colors and size you chose can be read reliably.

The Interpretation Text Options area of the **Advanced** tab lets you choose to have the contents of the barcode displayed in regular text. When Interpretation Text On is selected you can also specify the font characteristics of the text and the location of the text relative to the barcode.

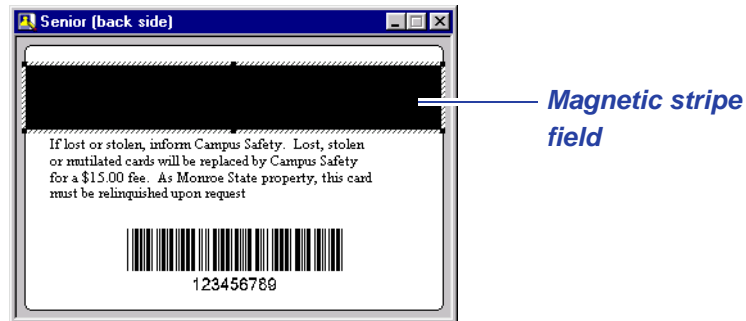
You must provide sample barcode data to display and print on the sample card. You do this on the **General** tab of the Edit Field Properties [Barcode] dialog box. If you enter too much sample data, the field is filled with diagonal lines. If the barcode type does not support the data you entered, the field is filled with a crosshatch pattern.



- i** You must inform your Production operators about the amount and kind of data that can be entered in barcode fields. Or, use a text field mask or a composite field on the Production Form to ensure that acceptable data is entered. See [“Text Field Masks” on page 44](#) or [“Composite Field” on page 55](#) for additional information.

See the online help topic “Add a barcode field to a card” for step-by-step instructions.

Magnetic Stripe Field

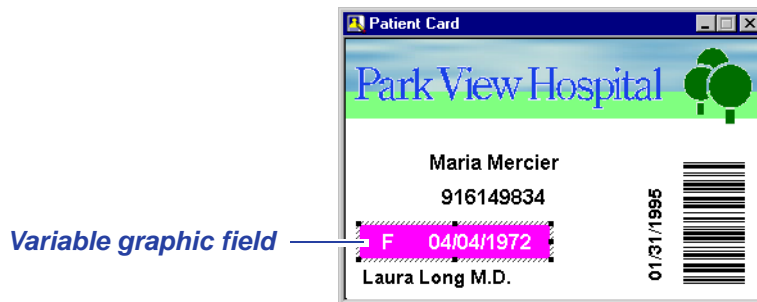


You create magnetic stripe fields to encode information in the magnetic stripe area of your cards. The ID Works Designer application places the magnetic stripe field in the correct location for a three-track magnetic stripe on the most common card stock. If you are using cards with a different number of tracks, you can change the height of the field. You can also move the field up or down on the landscape-oriented card. You cannot change the width of the magnetic stripe field or move it left or right.

You must specify the encoding device, as well as the configuration of the device, to be used for the magnetic stripe. You do this on the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box. You can also change an existing configuration or create a new configuration on this tab by clicking the **Edit Configurations** button. See the documentation for your specific magnetic stripe encoder for information on editing a configuration.

See the online help topic "Add a magnetic stripe field to a card" for step-by-step instructions.

Variable Graphic Field



A variable graphic field lets you specify which graphic is printed on a card based on the value of an associated Production Form field (usually a list field). You can also specify that no graphic be printed.

For example, an employer might want to identify what department employees work in. The card design for that employer's identification badges could have a variable graphic field that prints a money bag for Accounting department employees, a T-square for Design department employees, and a drill for Manufacturing department employees.

You can use graphics in any of the formats listed in ["Background" on page 20](#).

- i** Because about eight percent of men and four-tenths of a percent of women have some "color blindness", it is unwise to rely on color coding alone to differentiate among variations in a card design.

You can select one color in the graphic to be rendered as transparent, allowing a card background color to show through. Note, however, that transparency will not print correctly if it is on a card side configured to print using only the K-panel.

You can specify that the graphic appear "ghosted" or semi-transparent. If you apply the ghosting option, you can specify the degree of opacity for the graphic. A ghosted graphic will not print correctly if it is on a card side configured to print using only the K-panel.

Alternatively, you can specify that the graphic be converted to grayscale and, optionally, printed with the K-panel of the printer

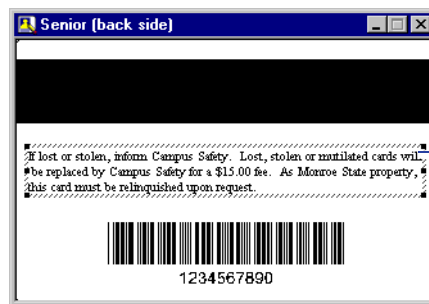
ribbon. See “Printing Graphics with the Card Printer’s K-panel” on page 114 for complete information.

See the online help topic “Add a variable graphic field to a card” for step-by-step instructions.

More complex differences in card design, such as changing between portrait and landscape orientation, require separate ID Works projects.

- i** Some variable graphic field options are not compatible with others. If you select an option that is not compatible with an option you previously selected, ID Works Designer will present a message alerting you to the conflict.

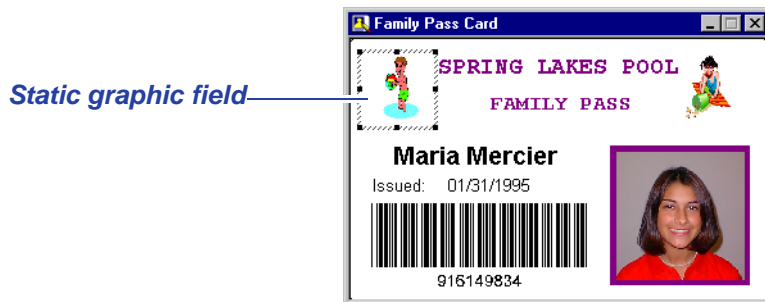
Static Text Field



*Static text field—
Word Wrap selected*

A static text field prints the same text on each card. You must specify the text to appear in the static text field and you can specify the font and color attributes of a static text field. All text in a static text field displays with the same font and color attributes. You can rotate a static text field. The static text field supports multiple lines of text. The height of the field increases as necessary if you select the **Word Wrap** check box on the Edit Field Properties [Static Text] dialog box and if you type enough text in the Edit Display Text dialog box to require a second line. You can force a new line by pressing CTRL + ENTER in the Edit Field Properties [Static Text] dialog box. See the online help topic “Add a static text field to a card” for step-by-step instructions.

Static Graphic Field



You define a static graphic field to print a graphic, such as your organization's logo, on each card. For a list of graphic formats you can use, see ["Background" on page 20](#).

You can size and rotate static graphic fields. You can also specify that the graphic appear "ghosted" or semi-transparent. If you apply the ghosting option, you can specify the degree of opacity for the graphic.

You can select one color in the graphic to be rendered as transparent, allowing a card background color to show through.

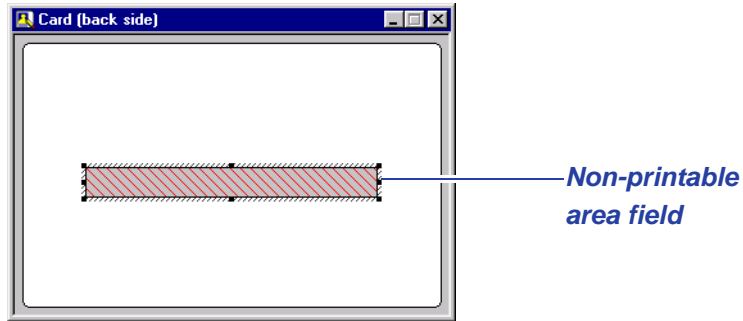
- i** Static graphics that use ghosting or transparency will not print correctly if they are on a card side configured to print using only the K-panel.

Alternatively, you can specify that the graphic be converted to grayscale and, optionally, printed with the K-panel of the printer ribbon. See ["Printing Graphics with the Card Printer's K-panel" on page 114](#) for complete information.

See the online help topic "Add a static graphic field to a card" for step-by-step instructions.

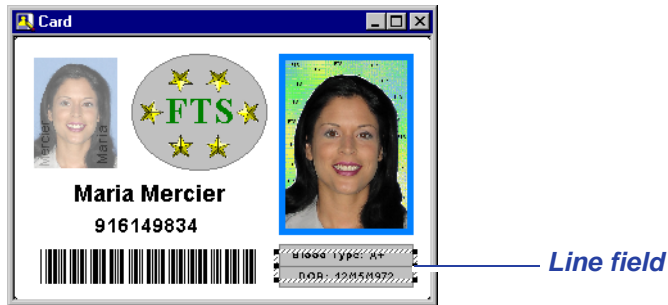
- i** Some static graphic field options are not compatible with others. If you select an option that is not compatible with an option you previously selected, ID Works Designer will present a message alerting you to the conflict.

Non-Printable Area



You create a non-printable area to ensure that an area of a card is not printed over, topcoated, or used for another purpose. When you insert a non-printable area, ID Works Designer sizes and positions it in the correct location for the signature panel of the most common card stock. Because there are many variations in the size and placement of signature panels on cards, you can define the size and position of the non-printable area. You can also use the non-printable area field for other purposes. See the online help topic “Add a non-printable area to a card” for step-by-step instructions.

Line



You can add horizontal and vertical lines to your card design. You can choose from 10 line weights with square or rounded ends. You can size and rotate the line in 90-degree increments. You can also select any color available on your computer for your lines.

See the online help topic, “Add a line to a card” for step-by-step instructions.

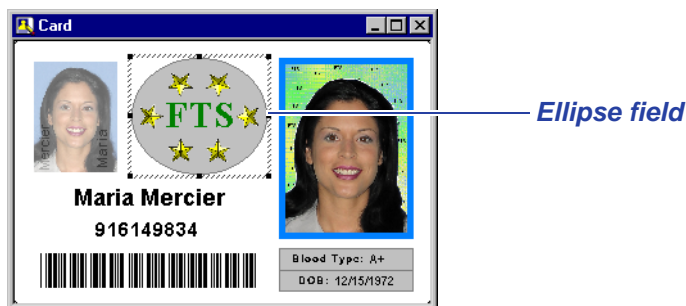
Rectangle



You can add rectangles to your card design. You can choose from 10 line weights for the outside line of the rectangle, and you can choose to have round or square corners. You can specify that the rectangle be filled or empty, and you can specify the color of fill and of the outside line of the rectangle.

See the online help topic, "Add a rectangle to a card" for step-by-step instructions.

Ellipse



You can add ellipses to your card design. You can choose from 10 line weights for the outside line of the ellipse and whether the ellipse is filled or empty. You can specify the color of fill and of the outside line.

See the online help topic, "Add an ellipse to a card" for step-by-step instructions.

Common Card Field Characteristics

Many field types have common characteristics, or properties. You can change a field's properties in the field properties dialog box. To access the field properties dialog box, select the field and, from the menu bar, select **Edit** and then **Field Properties** (or double-click on the field). Most card fields have the following properties.

Names

All card fields, regardless of their type, are given a default name when they are created. Named fields are necessary to connect card fields with Production Form fields and to select fields using only the computer keyboard. You can change the field name at any time, replacing the default name (for example, Text Field 1) with a meaningful, easy-to-remember name (such as FirstName).

Field names can be up to 100 characters long and can contain any character you can type on your keyboard.

Alignment

Most fields have an alignment property. The choices available depend on whether the field contains characters or graphical information.

Sample Data

Variable fields that can contain characters let you supply sample data for use when viewing the card design in Sample Data view and when printing sample cards. You type information that might appear in the field. Variable fields that can contain an image use a sample image that is appropriate for the field type.

Position/Size

All fields have position and size properties. You can change these properties by typing new values in a dialog box or by using the mouse. For some complicated card designs that have mandated sizes and positions for fields, you can prevent inadvertent changes to fields by selecting **Disable direct field movement or sizing for this card design** on the Edit Card Design Properties dialog box. See the online help topics “Prevent changing a card field with the mouse”, “Move a field”, and “Change a field’s size” for step-by-step instructions.

Fonts

You can select from many fonts for the text, static text, and date fields on your cards. ID Works Designer uses Arial, an OpenType font that is supplied with Windows, as the default font. OpenType fonts are preceded by an “O” in fonts lists.

- i** Because the OpenType format is an extension of TrueType, characteristics of TrueType fonts also apply to OpenType fonts.

Because TrueType fonts always produce the same results no matter what printer the card is printed on, it is strongly recommended that you use only these fonts in your card designs. The results of using non-TrueType fonts with more than one card printer are unpredictable. In addition, TrueType fonts can always be rotated.

- i** Fonts are often installed by applications. Before using a font, make sure it is available on each ID Works computer in your organization.

If the printer you will use to print cards has printer fonts installed and you want to use them, you must select **Display Printer Fonts** and a printer for the project on the **Printer Fonts** tab of the Edit Project Properties dialog box. See the online help topic “Use printer fonts” for step-by-step instructions. Printer fonts appear in the fonts list for card fields preceded by a printer icon. They never appear in the fonts list for Production Form fields.

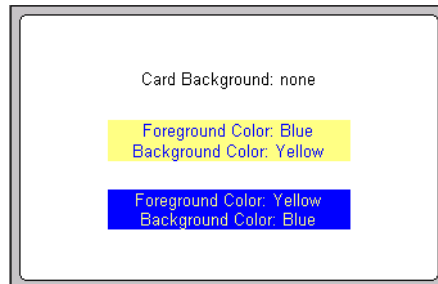
You can use Type 1 fonts if you also have Adobe® Type Manager™ software installed on each computer in your system.

Variable fields that always contain characters let you specify that the font size should automatically shrink to accommodate a large amount

of text. The font size shrinks to a minimum of 6 points. If at 6-point type the text still does not fit, characters are dropped from the end.

Text Field Colors

You can select both a foreground and background color for your text fields. The foreground color refers to the color of the text in the field.



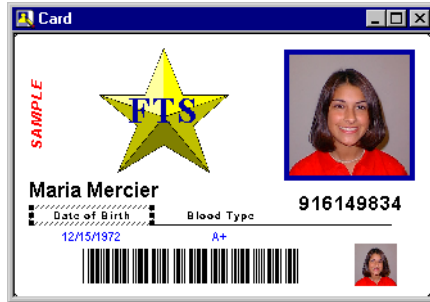
If you specify black for the foreground color of a text, static text, or date field, you can choose to have the text printed using the black panel (K-panel) of the printer ribbon if the card printer is using a ribbon with a black panel. The black panel produces a truer black and sharper characters than printing using a combination of the cyan, magenta, and yellow panels. You can either specify that the background be transparent (the default) or that it be a solid color.

The printer does not print white. If you define the field to print in white text, the printer will “knock out” the characters, allowing the surface of the card (usually white) to show through. The **Use topcoat panel** check box also becomes available when white is the selected color. See [“Topcoat” on page 21](#) for more information.

Arranging Fields on the Card

Each time you insert a field on the card, ID Works Designer places it, with default values for properties, in the upper left corner of the card. You need to change its properties to suit your needs and move it to the correct location on the card. Use the alignment commands on the **Format** menu to make sure fields are perfectly lined up either horizontally or vertically.

- i** Before fine-tuning the card layout, print a sample card. This allows the software to determine printer characteristics and size fields more accurately.



Save time by copying and pasting formatted fields rather than always inserting a new, default field. For example, in the sample card above the “Date of Birth” field was created and formatted. Then it was copied and pasted for the “Blood Type” field (see the online help topic “Cut, copy and paste fields” for step-by-step instructions) and the Field Name and Display Text were changed on the **General** tab of the Edit Field Properties [Static Text] dialog box. The designer did not have to change the font characteristics for the copied field.

Alternatively, you can format the text properties of multiple text-based fields at one time. See the online help topic, “Format text properties for multiple fields” for step-by-step instructions.

Printing Sample Cards

While you are designing your card, you can print sample cards by selecting **Print Sample Card** from the **File** menu on the menu bar or from the right mouse button menu or by clicking the **Print Sample Card** button on the toolbar. For best results, use the same card stock and printing supplies your Production operators will use.

- i** Sample cards are always printed with the sample data you supplied for the card fields.
- i** Sample cards are not encoded. To check that magnetic stripes are encoded correctly, start ID Works Production and print a card.

Printing Cards in the Production Application

You can set up your ID Works project to help Production operators track the progress of print requests. On the **Printing** tab of the Card Design Properties dialog box, select a field to identify print jobs. See “Printing Cards” in the *Operator’s Guide* for information on using this feature in the Production application.

Card Design Considerations

As you are designing your card, keep in mind what you want the card to do. Will it be used primarily for access control? To record time and attendance? As name tags? Will cards be examined closely or is it important for them to be readable from a distance? A single card can accomplish two or more objectives, but crowding too much information on a card can impair its usability.

Because approximately eight percent of men and four-tenths of a percent of women have some “color blindness”, it is not a good idea to rely entirely on color coding to distinguish between related card designs.

Plan and Create the Production Form

3

What Is a Production Form?

The Production Form is the graphical display the Production operator uses to gather cardholder information and print cards and reports. Through the Production Form you can also allow the operator to search a database, add records to the database, add or update information in the database, or delete database records. The operator can gather and save text (such as the cardholder's name) or images (such as a photograph of the cardholder).

An ID Works project contains one Production Form. You can create a Production Form from start to finish, modify the form in one of the sample projects provided with the ID Works software, or use the **Create Production Form from Card** command on the **Tools** menu to create the Production Form.

Production Form Window

You use the Production Form window to design the form for your project. It contains the following parts:

Title bar — *Design area*

The screenshot shows a window titled "Production Form" with a yellow background. At the top, the text "SPRING LAKES POOL" is displayed in purple. Below this, the form is titled "FAMILY PASS" in purple. The form contains several input fields and labels:

- First Name:** A text box containing "Maria".
- Last Name:** A text box containing "Mercier".
- 9 Digit Pass Number:** A text box containing "916149834".
- Member's Age:** A text box containing "27".
- Emergency Contact Name:** A text box containing "Emily Mercier".
- Emergency Contact Phone Number:** A text box containing "(881) 555-7919".
- Emergency Contact Address:** A text box containing "Maria Mercier".
- Emergency Contact Date:** A text box containing "03-09-2001".

In the center of the form is a photo of a woman with the label "Capture Photo". Below the photo is a small box containing "0" and the text "Cards Printed". At the bottom of the form, there are two cartoon illustrations: a boy playing with a beach ball and a girl sitting on a beach towel.

Title bar—The title bar changes color when the Production Form window is active.

Design area—This area represents the window the Production operator will use. You place all form fields in this area.

Background

You can specify that the background of your Production Form has a color, a graphic, or both. You can use graphics in any of the following formats:

BMP	Windows Bitmap
EPS	Encapsulated PostScript
JPG	Joint Photographic Experts Group File Interchange Format (single image per file)
PCT	Macintosh PICT Drawing
PCX	PC Paintbrush
PNG	Portable Network Graphics
PSD	Adobe Photoshop® (3.0)
TGA	TARGA® Image File Format
TIF	Tagged Image File Format (single image per file, uncompressed only)
WMF	Windows Metafile

All fields are placed on top of the background. If you do not specify a background, the form background will be the color specified for a Window on the **Appearance** tab of the Control Panel Display Properties dialog box.

See the online help topic “Add a background color or graphic to a Production Form” for step-by-step instructions.

Size

You can specify that your Production Form be limited to one of five fixed sizes or that its size adjust automatically to accommodate the fields you add. Adjusting automatically is the default for a new Production Form.

Specifying a fixed size may be important if you want to make sure Production operators with small monitors will be able to enter data in all fields without scrolling.

If you specify a fixed size for your Production Form, ID Works Designer checks each current field and reports any that lie outside the right or bottom boundary of the Production Form. In addition, the software prevents you from dragging fields off the Production Form.

See the online help topic “Set Production Form size” for step-by-step instructions.

Types of Production Form Fields

Fields are the building blocks of your Production Form. You must create a field for each item you want to appear on the form, each piece of variable data you want to appear on your cards or reports, and each field you want to connect to a database.

ID Works Basic Designer includes nine types of Production Form fields: text, photo, date, list, composite, print count, auto-sequence, static text, and static graphic.

Text Field

Text fields allow the Production operator to gather alphanumeric data. The data can then be printed on a card or report, saved in a database, or both. You can specify a prompt that reminds the Production operator what data to enter in the field. You can also specify the font and color attributes of the operator prompt and the text the Production operator will enter.

If the data will be saved to a database, you may want to specify the number of characters that will be accepted in the text field, so the field length is correct for the associated database field. You can also let the ID Works program set the field length for you when you use the field connector. If the text field uses a mask, you should specify a number of characters large enough to display any literal mask characters as well as the data value. See [“Text Field Masks”](#) for more information.

You can also specify that a text field be filled with the ID Works user name of the Production operator when a record is created, when a

changed record is explicitly saved, or both. Alternatively, you can specify that the sample data you supply be used as the default value for Production operators.

See the online help topic “Add a text field to a Production Form” for step-by-step instructions.

Text Field Masks

You can use a mask on a text field to format data and provide some control over what values can be entered. With a text field mask you can place literal characters (such as spaces, dashes, and parentheses) in the display of the entered data, convert characters to a set format (such as uppercase text), or restrict entered characters (for example, to numeric characters). Text field masks are helpful when storing numeric data (for example, telephone numbers) in text database columns. When stored as a text string, numeric values can be searched using wildcard characters.

You establish a mask on the **Mask** tab of the Edit Field Properties [Text] dialog box. (See the online help topic “Add a mask to a Production Form text field” for step-by-step instructions.) The **Mask** tab displays a preview of what the field will look like to the Production operator as well as the minimum field length required to enter data using the mask in Production. You must set the Input Length on the **General** tab to a value equal to or larger than the field length required. Note that the minimum field length required to display the mask is not the size of the database column required to hold the entered data. The required database column size may be smaller because literals are not stored in the database.

Masked fields are limited to 100 characters.

Available mask characters and their behavior in the Production application are described in the following tables.

Numeric Mask Characters:

Character	Description
0	Placeholder for one digit (0 through 9) Entry is required and the Mandatory field property is selected automatically.
9	Placeholder for one digit (0 through 9), plus sign, minus sign, or space Entry not required. Unentered data become spaces when the data is saved, displayed in the card or report preview, or printed on a card.
#	Placeholder for one digit (0 through 9), plus sign, minus sign, or space Entry not required. Unentered data is removed when the data is saved or displayed in the card or report preview. Spaces are removed when the data is saved, displayed in the card or report preview, or printed on a card or report.

- i** Use the # mask character when the value entered might be a number or a minus sign. Do not use more than one # mask character in a field. Use the 0 or 9 mask character when you store a number as text in the database (for example, when storing a telephone number).

Alphabetic Mask Characters:

Character	Description
L	Placeholder for one alphabetic character (A through Z or a through z) Entry is required and the Mandatory field property is selected automatically.
?	Placeholder for one alphabetic character (A through Z or a through z), hyphen, single quote, period, or space Entry not required. Unentered data become spaces when the data is saved, displayed in the card or report preview, or printed on a card or report.
B	Placeholder for one uppercase alphabetic character (A through Z) Entry is required and the Mandatory field property is selected automatically. Lowercase characters are converted to uppercase upon entry.
>	Placeholder for one uppercase alphabetic character (A through Z), hyphen, single quote, period, or space Entry not required. Unentered data become spaces when the data is saved, displayed in the card or report preview, or printed on a card or report. Lowercase characters are converted to uppercase upon entry.
e	Placeholder for one lowercase alphabetic character (a through z) Entry is required and the Mandatory field property is selected automatically. Uppercase characters are converted to lowercase upon entry.

Character	Description
<	Placeholder for one lowercase alphabetic character (a through z), hyphen, single quote, period, or space Entry not required. Unentered data become spaces when the data is saved, displayed in the card or report preview, or printed on a card or report. Uppercase characters are converted to lowercase upon entry.

Alphanumeric Mask Characters:

Character	Description
A	Placeholder for one alphabetic character (A through Z or a through z) or digit (0 through 9) Entry is required and the Mandatory field property is selected automatically. Equivalent to 0 mask + L mask characters.
a	Placeholder for one alphabetic character (A through Z or a through z), digit (0 through 9), hyphen, single quote, period, or space Entry not required. Unentered data become spaces when the data is saved, displayed in the card or report preview, or printed on a card or report. Equivalent to 9 mask + ? mask characters.

General Mask Characters:

Character	Description
&	Placeholder for any one character except underscore and space Entry is required and the Mandatory field property is selected automatically.
C	Placeholder for any one character except underscore Entry not required. Unentered data become spaces when the data is saved, displayed in the card preview, or printed on a card.

Literals (Note that the Production operator is not allowed to enter a value into a position occupied by a literal.):

Character	Description
. (period)	Decimal symbol “smart” literal The actual character displayed in Production is the character specified for the decimal symbol in the Number page of the Control Panel Regional Settings Properties dialog box. If the decimal symbol specified is multiple characters, the left-most character is used. Unlike other literals, the decimal symbol is saved with the data value.
, (comma)	Digit-grouping symbol “smart” literal The actual character displayed in Production is the character specified for the digit-grouping symbol in the Number page of the Control Panel Regional Settings Properties dialog box. If the digit-grouping symbol specified is multiple characters, the left-most character is used. The digit-grouping symbol is not saved with the data value but is reapplied when data is retrieved.

Character	Description
\$	Currency symbol “smart” literal The actual character displayed in Production is the character specified for the currency symbol in the Number page of the Control Panel Regional Settings Properties dialog box. If the currency symbol specified is multiple characters, the left-most character is used. The currency symbol is not saved with the data value but is reapplied when data is retrieved.
Any other character	Any character not listed in the Mask Character column of this table appears as is in the text entry field. The character is not saved with the data value but is reapplied when data is retrieved.
\	Escape character for a mask character. Precede the mask character with a backslash to have it appear as a literal. For example, to display an A in the text field, enter \A in the Mask box. The character is not saved with the data value but is reapplied when data is retrieved.

Text field masks are fully functional in the Quick Search dialog box in Production. That is, literal characters appear in the field and search characters entered are restricted to ones that satisfy the mask (plus the % and _ wildcard characters). For example, if the text field mask requires a number, the Production operator must enter nothing, a number, or a partial number plus wildcard characters in the Quick Search dialog box.

If the text data saved contains leading spaces, the search string must be left empty or use a % character as the first character of the string.

Consider using a mask character that requires input as the first character in the field, so Production operators do not have to start searches with a % character. Also consider giving Production operators information about how best to search in masked text fields or create stored searches for them so they can easily retrieve the correct information.

The Advanced Search dialog box does not use the mask.

Some sample text field masks are:

- US/Canadian telephone number with optional area code: (999)000-0000
- Gender: B
- Last Name (up to 20 characters): L????????????????????? examples: ten Sythoff, Smith-Jones, Van Buren

Photo Field

Production Form

SPRING LAKES POOL

FAMILY PASS

First Name
 Last Name
 9 Digit Pass Number
 Member's Age

Emergency Contact Name
 Emergency Contact Phone Number
 No input required - composite field
 No input required - system date

Capture Photo

Cards Printed

Photo field

Photo fields provide a way to capture the cardholder's image or access a previously-captured image stored in a database or in a separate file. You can specify how large the photo field appears on the Production Form, whether there is a prompt for the operator, and the font and color attributes of the prompt. You can also specify the image capture method (taking a photo with a specific camera, using an image in an existing file, etc.) and the image manipulation options the operator will have.

Consider making the photo field on the Production Form the same proportions as the photo field on the card. For example, if the photo area on the card is square, make the photo field on the Production Form square by entering the same number for Height as for Width on the **General** tab of the Edit Field Properties [Photo] dialog box. On the **Advanced** tab of the dialog box, select **Crop Box With Shape of This Field**. This determines the shape of the black crop box with sizing handles that appears when a photo file is opened.

Also consider selecting **Automatically When Field Selected** in the Capture Initiation area of the **Advanced** tab. If this option is selected, the image capture method you specified will automatically launch when the Production operator enters the photo field. If this option is not selected, the Production operator must make a menu selection or double-click after entering the field.

You can specify where to store a photo, in the database or as a file outside of the database, on the **Storage** tab of the Edit Field Properties [Photo] dialog box. See [“File Name Considerations” on page 91](#). You can also specify the format in which the photo is stored. Formats available are:

Format	File Extension
Adobe Photoshop 3.0	psd
JPEG File Interchange Format	jpg
JPEG 2000 File Format	j2k
Portable Network Graphics	png
Tagged Image File Format	tif
TARGA® Image File Format	tga
Windows Bitmap	bmp

If you choose JPEG File Interchange Format or JPEG 2000 File Format, you can also specify a compression factor or that the file be compressed to a target file size.

When you select to use a compression factor, a slider appears, letting you select the compression factor to use. Minimum compression results in the highest quality but largest file size; maximum

compression results in the lowest quality but smallest file size. There are many settings between the minimum and maximum compressions.

When you specify to use a target file size, a box appears that lets you select a target file size.

 Notes:

- Compressing each photo to a set file size will result in photos that vary in quality.
- If the uncompressed file size is smaller than the target file size, nothing will be done to increase the file size. Such files could be substantially smaller than the target size.

See the online help topic “Add a photo field to a Production Form” for step-by-step instructions. Also see [chapter 7, Working with Capture Options](#), for more information.

Date Field

Patient Information Form

Park View Hospital

Maria	Patient's First Name
Mercier	Patient's Last Name
F	Patient's Sex (M or F)
916149834	Patient's ID Number
03-09-2001	Date of Birth (MM/DD/YYYY)
Laura Long M.D.	Doctor's Name
03-09-2001	No Entry Required - Issued Date
Maria Mercier	No Entry Required - composite field

Date field

Date fields allow you to collect and save date and time information in database date-type format using the mask, or pattern, you specify. Date masks available are MM/DD/YYYY, DD/MM/YYYY, and YYYY/MM/DD. Time masks are None - Date Only, 12 hour format, and 24 hour format.

The date can be entered by the Production operator or automatically captured using the system date. You can specify that the system date and time be captured and saved to the database when a new record is created, when a changed record is explicitly saved, or both. If the date will be entered by the operator, you can specify a prompt for the field. Consider including the date mask you selected in the prompt, as in the example.

You can also specify the font and color attributes of the operator prompt and the text the Production operator will enter. See the online help topic "Add a date field to a Production Form" for step-by-step instructions.

List Field

The screenshot shows a 'Production Form' window with the following fields and values:

- First Name: Maria
- Last Name: Mercier
- ID Number: 916149834
- Date of Birth (MM/DD/YYYY): 04-06-2001
- Blood Type: A+ (highlighted as a list field)
- Street Address: 11111 Bren Road West
- City: Minnetonka
- State: MN
- Zip Code: 55343

Additional features include a 'Capture Image' section with a photo of a woman and a yellow star logo with 'FTS' written on it.

When used in the ID Works Production application, a list field produces a list box rather than a text box. The values you specify appear in the list. You can have as many list fields as necessary on a Production Form. The variable graphic card field is best used with a list field.

List fields help reduce data input errors and variations. For example, assume you need to capture the work site for your employees, that your organization has six sites, and that sometimes site names are abbreviated and other times they are spelled out. To complicate matters, assume one of the sites has a name that is often misspelled. You can establish a list field that contains the official abbreviations for your sites. Your Production operators simply select the appropriate site from the list, saving time and reducing spelling errors.

You can specify a prompt for the field and how the field will look on the form—the font and color attributes of the operator prompt and the values in the list. You can enter list field values in the Designer application or import them from a file that you know is correct. You can change the order of items in the list after you have entered them.

You can also specify the default value for the list field, that is, the value that will be displayed if the Production operator clears the form or starts a new record. The default value is usually the value that is selected most often. For example, if the list contains office locations, the office with the most employees would be designated the default selection. If you do not specify a default value, the software uses the first value you entered as the default. To force the Production operator to make a selection, you can add a blank entry. A blank entry is always the default value for a list field.

See the online help topic “Add a list field to a Production Form” for step-by-step instructions.

Composite Field

Composite field

You create a composite field to print two or more fields of cardholder data in a single card field. Composite fields are also used to create data for magnetic stripe encoding and to ensure that the right amount and kind of data is rendered in barcodes. You must create a Production Form field for each item of data that you want to combine

in the composite field. These subfields can be text, date, list, or print count fields.

You define the composite field on the **Advanced** tab of the Edit Field Properties [Composite] dialog box. You select each subfield that is to print within the card field from a list of fields on the Production Form. For each subfield you can specify that trailing spaces or other characters (such as hyphens in an identification number) be removed. Or you can specify that the subfield be filled with a character you choose, and you specify whether the fill characters appear before or after the significant characters. You also specify any spaces or other constant characters you want to appear between the subfields. To specify a non-printing constant character, use the `\b` escape sequence followed by three numeric digits representing the decimal value for the ASCII character. For example, to insert a carriage return and line feed in a constant field, type `\b013\b010`. The ASCII null character is not allowed.

After you have added subfields to the composite, you can move them left or right with buttons on the dialog box or by pressing CTRL + left arrow or CTRL + right arrow. You can also delete a subfield from the composite.

For example, you may have captured and saved the cardholder's first name and last name separately (to store them in separate database fields) but want to print them in a single card field. You would create a composite field that specifies the cardholder's first name as the first subfield, adds a space in a constant string, and specifies the cardholder's last name as the last subfield.

Because Production operators do not enter data directly into a composite field, you do not need to supply a prompt. Also, you can specify that the composite field be hidden from the Production operator, to keep the Production Form easy to use. See [“Field Options” on page 63](#).

You cannot connect the composite production field to a database field (instead, you connect the Production Form fields you used to build the composite field), but you do connect the composite field to one or more card or report fields.

See the online help topic “Add a composite field to a Production Form” for step-by-step instructions.

Print Count Field

Production Form

SPRING LAKES POOL

FAMILY PASS
 First Name Emergency Contact Name

Last Name Emergency Contact Phone Number

9 Digit Pass Number No input required - composite field

Member's Age No input required - system date

Capture Photo

Cards Printed

Print count field

If your ID Works project is connected to a database, you can use a print count field to indicate how many times a card has been printed for a user record. You may want to use a print count field if you have a policy to charge for replacement cards.

i An ID Works Production Form can have only one print count field.

You can specify the input length of the print count field. If the input length is 1, the maximum print count value is 9; if the input length is 2, the maximum print count value is 99. When the maximum value is exceeded, the value rolls over to 0.

Print count fields are always Read Only. The Production operator does not have to enter a value for the field; indeed, the Production operator cannot change the value stored in the database. Instead, the Production application increments the value in the print count field as necessary. If a Production operator enters information for a new record and saves the record to the database but does not print a card, the print count field has a value of 0. If a Production operator retrieves

a record and prints a card, regardless whether the operator changes any other cardholder information, the print count field is incremented by one. The print count field also increments if a card is encoded without printing.

If the Production operator prints multiple copies of a card in one print job, the print count value is incremented by the number of copies printed. In this situation, if the print count field is connected to a text field on the card design, each copy of the card will have the same value printed on it—the number of the last card printed. The same holds true if the print count field is connected to an encodable field, such as a magnetic stripe field.

The Production application increments the print count field value when a print job is submitted. If the card fails to print or encode, the field value cannot be decremented through ID Works applications. You can, however, use your database application to correct the record.

When you add a print count field to your Production Form, the Designer application selects the **Save On Print** option on the **Database** tab of the Edit Production Form Properties dialog box. If you delete the print count field from a Production Form, Designer asks whether you want **Save On Print** enabled after the print count field is removed.

Production operators can use the print count field to determine which database records still need to have cards printed for them by searching for records with a 0 in the print count field. Records entered into the database outside of ID Works that have a null value in the database table column associated with the print count field will not be included in the search results. To see records with print count of 0 or null, use the Advanced Search feature with the NULL option, described in the *Operator's Guide*.

See the online help topic “Add a print count field to a Production Form” for step-by-step instructions.

Auto Sequence Field

If your ID Works project is connected to a database, you can use an auto sequence field to create a unique database value when a record is inserted in the database. You can specify the length of the field, the minimum value that will be used for the sequence, a prompt for the field, and how the field will look on the form—the font and color attributes of the operator prompt and the value. You can also specify that the database value be modified when the record is updated.

Auto sequence fields are always Read Only.

i A Production Form can have only one auto sequence field.

When a Production operator saves a record from a Production Form that has an auto sequence field, the ID Works software queries the database to determine the current maximum value for that database table column. If the current maximum value is larger than the minimum value specified in the field properties, the value used for the record is 1 greater than the current maximum value. If the current maximum value is smaller than the minimum value specified, the value used for the record is the minimum value. The same process is used when a database record is updated if you have specified that the database table column associated with the auto sequence field be modified when the record is updated.

Because the auto sequence field requires a database query before each record is inserted, inserting records will be slower. In addition, if multiple users attempt to insert records simultaneously to a shared database, there is a chance that a duplicate value will be used and will result in a “duplicate key” error for all but the first user. To avoid this possibility, use the Access AutoNumber data type with a Production Form text field instead of an auto sequence field.

Conversely, you should use the Production Form auto sequence field if you want to use the value for naming an image file, either by itself or as part of a composite field. An Access AutoNumber cannot be used because the number is not available when the file name is created.

See the online help topic “Add an auto sequence field to a Production Form” for step-by-step instructions.

Static Text Field

Production Form

SPRING LAKES POOL

Maria
First Name

Mercier
Last Name

916149834
9 Digit Pass Number

27
Member's Age

Emily Mercier
Emergency Contact Name

(881) 555-7919
Emergency Contact Phone Number

Maria Mercier
No input required - composite field

03-09-2001
No input required - system date

Capture Photo

0 Cards Printed

Static text field

You can use a static text field to add instructions to the Production operator or to divide the Production Form into categories of information. You can specify the font and color attributes of a static text field and you can rotate the field. See the online help topic "Add a static text field to a Production Form" for step-by-step instructions.

Static Graphic Field

Production Form

SPRING LAKES POOL

Maria
First Name

Mercier
Last Name

916149834
9 Digit Pass Number

27
Member's Age

FAMILY PASS

Capture Photo

0 Cards Printed

Emily Mercier
Emergency Contact Name

(881) 555-7919
Emergency Contact Phone Number

Maria Mercier
No input required - composite field

03-09-2001
No input required - system date

Static graphic field

A static graphic field displays a graphic, such as your organization's logo, on the Production Form. You can use graphics in any of the formats listed in ["Background" on page 41](#).

You can select one color in the graphic to be rendered as transparent. For example, the static graphics in the example above have white selected to be rendered as transparent, allowing the yellow background of the Production Form to show through. You can also size and rotate static graphic fields. See the online help topic ["Add a static graphic field to a Production Form"](#) for step-by-step instructions.

Common Production Form Field Characteristics

Many field types have common characteristics, or properties. You can change a field's properties in the field properties dialog box. To access the field properties dialog box, select the field and, from the menu bar, select **Edit** and then **Field Properties** (or double-click on the field). The properties that appear in the dialog box vary depending on the field type.

Names

All Production Form fields, regardless of their type, are given a default name when they are created. Named fields are necessary to connect Production Form fields with card and database fields and to select fields using only the computer keyboard. You can change the field name at any time, replacing the default name (for example, Text Field 1) with a descriptive name (such as FirstName).

Field names can be up to 100 characters long and can contain any character you can type on your keyboard.

Alignment

Most fields have an alignment property. The choices available depend on whether the field contains characters or graphical information.

Sample Data

Variable fields that can contain characters let you supply sample data for use when viewing the Production Form in Sample Data view. You type information that might appear in the field. Variable fields that can contain an image use a sample image that is appropriate for the field type.

Position/Size

All fields have position and size properties. You can change these properties by typing new values in a dialog box or by using the mouse. See the online help topics "Move a field" and "Change a field's size" for step-by-step instructions.

Fonts

You can select from many different fonts for character-based fields and prompts on your Production Form. ID Works Designer uses Arial, an OpenType font supplied with Windows, as the default font. See [“Fonts” on page 35](#) for more information.

Text Field Colors

You can select both a foreground and background color for your character-based fields. The foreground color refers to the color of the text in the field. You can specify either that the background be transparent (the default) or that it be a solid color.

Field Options

You can specify optional properties for Production Form fields. The options available depend on the type of field. Production Form field options are:

- **Hidden**

If selected, the field is not visible to the Production operator and does not appear on the Quick Search window but is available for advanced searches. For example, you may need to retrieve sensitive information from a database to encode on a magnetic stripe. Composite fields are often hidden to avoid operator confusion.
- **Mandatory**

If selected, the Production operator will not be allowed to save the database record or print the card until this field is completed. Consider indicating which fields are mandatory by using bold type for the operator prompt or including an asterisk in the prompt. Creating a text field mask that requires entry automatically selects this option.
- **Read Only**

If selected, the Production operator can see the information in this field but cannot change it in the database or on the form. The field is dimmed when viewed in the Production application.

- **Write to Log**

If selected, an entry will be made to the audit log when the operator saves records to the database or deletes records from the database in the Production application.

- **Searchable**

If selected, the field will appear in the Quick Search dialog box in the Production application. This option has no effect on the Advanced Search dialog box; all fields connected to a database column table are searchable with Advanced Search.

Arranging Fields on the Production Form

Each time you insert a field on the Production Form, ID Works Designer places it, with default values for properties, in the upper left corner of the form. You need to change its properties to suit your needs and move it to the correct location on the form.

✓ Use the arrow keys on the keyboard for fine adjustments.

Use the alignment function to arrange fields in straight rows and columns. First align each row, adjusting the spacing between rows while the entire row is selected as a group. Then align each column, again adjusting the spacing between columns while the entire column is selected as a group. See the online help topic “Align fields” for step-by-step instructions.

Save time by copying and pasting formatted fields rather than always inserting a new, default field. Insert your first text field and format it as needed (see the online help topic “Add a text field to a Production Form” for step-by-step instructions). For any additional text fields you need on your Production Form, copy the first text field, then paste it (see the online help topic “Cut, copy and paste fields” for step-by-step instructions) and change the other properties, such as field name and prompt text.

Alternatively, you can format the text properties of multiple text-based fields or the prompt properties of multiple fields at one time. See the online help topics, “Format text properties for multiple fields” and “Format prompt properties for multiple fields” for step-by-step instructions.

Changing the Tab Order of Fields

By default, the Production Form will open with the pointer in the first field you created. When the Production operator presses the TAB key, the pointer will move to the second field you created and so on through the form. If the first field you entered ends up at the bottom of the form, the second field in the upper right corner, the third in the middle, and the fourth in the upper left corner, tabbing between fields will send the pointer bouncing all over the form, and that can be confusing to the operator.

The screenshot shows a 'Production Form' window titled 'SPRING LAKES POOL FAMILY PASS'. The form has a yellow background and contains several input fields with tab order numbers 1 through 7. Field 1: 'First Name' with 'Maria'. Field 2: 'Last Name' with 'Mercier'. Field 3: '9 Digit Pass Number' with '149834'. Field 4: 'Member's Age' (empty). Field 5: 'Emergency Contact Name' with 'Emily Mercier'. Field 6: 'Emergency Contact Phone Number' with '(504) 555-7919'. Field 7: 'Capture Photo' with a photo of a woman. Below the photo is a 'Cards Printed' field with '0'. There are also two read-only fields: 'Maria Mercier' (No input required - composite field) and '6/04/2004' (No input required - system date). Illustrations of a boy with a beach ball and a girl with a beach umbrella are at the bottom.

You can determine the tab order of the fields so the fields are entered in a logical progression, without regard to the order in which you created them. Hidden and read-only fields, such as the composite field in the illustration above, are not part of the tab order. See the online help topic "Change the field tab order" for step-by-step instructions.

Creating a Production Form from a Card Design

If your ID Works project does not have a Production Form, you can use **Create Production Form from Card** on the Designer **Tools** menu to create a basic Production Form. See the online help topic “Create a Production Form from a card design” for step-by-step instructions. (If **Create Production Form from Card** is not available, the Production Form already exists. Use the Add Fields to Production Form command instead. See “Adding Fields to a Production Form Created from a Card Design” on page 67.)

You can change the Production Form name. **Create Production Form from Card** presents a list of card fields that can be placed on the Production Form. You select which fields to add to the Production Form.

- i** Magnetic stripe, static text, and static graphic fields are omitted from the list. (See “About the Created Production Form” on page 67 for a list of card field types and the Production Form field types created from them.)

When you have made selections in each field, the **OK** button becomes available. When you click **OK**, **Create Production Form from Card** creates a Production Form with the fields you selected. If your project is not connected to a database, you are asked if you want to create a database from the Production Form. Selecting **Yes** is

the same as selecting **Create Database from Production Form** from the **Tools** menu. See [“Creating a Database from ID Works Designer” on page 93](#).

After the Production Form is created, you can add static text, static graphics, or a background color or graphic; rearrange the fields; edit fields; or add new fields. In other words, you can change the Production Form as though you created it “from scratch”.

Adding Fields to a Production Form Created from a Card Design

Developing an ID Works project often involves several iterations. You may decide to add a field to the card design after you create the Production Form. If your project includes multiple card designs, you may have additional fields, on additional card designs, that you want to include on your Production Form. The **Add Fields to Production Form** command on the **Tools** menu lets you add card fields to an existing Production Form quickly and easily. See the online help topic [“Add fields to a Production Form from a card design”](#) for step-by-step instructions.

- i** Deleting a field on the card does not delete the corresponding Production Form field.

About the Created Production Form

Create Production Form from Card and **Add Fields to Production Form** create field types as follows:

Card Field Type	Production Form Field Type
Text	Text
Photo	Photo
Date	Date
Barcode	Text
Variable Graphic	List

The field name assigned to each Production Form field matches the card field name used to create it. The operator prompt for each field is the field name. If **Create Production Form from Card** created a list field on the Production Form because you selected a variable graphic field in a card design, it also inserted list values for the list field. In other words, values you specified on the **Advanced** tab of the Edit Field Properties [Variable Graphic] dialog box are copied into the list field on the Production Form. See the online help topic “Define list field contents” for step-by-step instructions. Matching Production Form and card fields are automatically connected. (See [“Connecting Fields”](#) on page 99.)

Plan and Create the Report Design

4

What Is a Report Design?

A report design defines how a paper report will look when printed: what information will be the same for each record in the report (such as a logo or enterprise name), what information will vary from record to record (the subject's name or photo), how the elements will be arranged within each report block, and what information will appear at the top and bottom of each page of the report.

Information for reports comes from the database the ID Works project is connected to. You cannot use ID Works reports without a database.

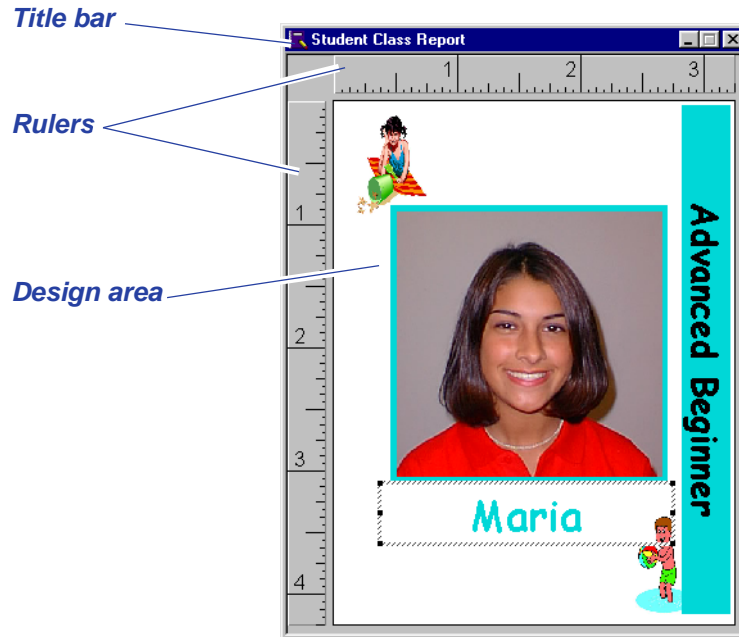
ID Works projects can contain zero, one, or more report designs. Those designs can be similar or completely different.

You can create report designs from start to finish or modify one of the sample report designs provided with your ID Works software.

The report block is the basis of the report design. You define the size of the report block, what fields it contains, whether it has a border, and what the border looks like. Depending on how you specify the report block, a printed report might have a single report block per printed page, or it could have many report blocks per page as in the Student Class Report in the Sample Loyalty project.

Report Window

You use the Report window in ID Works Designer to create the report block. It contains the following parts.



Title bar—The title bar shows the name of the report you are editing (Student Class Report in the example above). The title bar changes color when the window is active.

Rulers—The rulers help you locate and size report fields. You turn the rulers on and off by using the **View** menu. You specify the unit of measure to display in the computer's Control Panel Regional Settings Properties dialog box, **Number** tab, **Measurement system** setting.

i Close your project before changing the unit of measure to display.

Design area—This area represents the report block and shows how a single record will look when printed. You place all report fields in this area.

Scroll bars appear if the size of the Report window is smaller than the size of the report. Use the **Maximize** button (on the title bar) to make the Report window as large as possible.

You can work in the report window in Field Names view or in Sample Data view. The illustration above uses Sample Data view.

- i** If you are working in Field Names view and rotate a report block field, the field name does not rotate with the field. Field names are always displayed horizontally and are contained in a box with a white background.

To open a report window, either create a new report or open a report that already exists in your project. See the online help topics “Create a report design” and “Open an existing report design”.

Report Properties

You use the Edit Report Design Properties dialog to name your report, specify the layout of the report block, and define the header and footer for the report. See the online help topic “Access the Edit Report Design Properties dialog box”.

Report Block Layout

When you insert a new report, the report block measures 6.5 inches wide by 2.25 inches high (16.5 cm wide by 5.7 cm high). You can change the size of the report block on the **Block Layout** tab of the Edit Report Design Properties dialog. You can also specify whether the report block has a border, how thick the border is, and what color it is. See the online help topic “Change the block layout for a report design” for step-by-step instructions. When you print a report, the ID Works Reporting application will place as many report blocks as possible on the page.

Header and Footer

You can specify a header to print at the top of each page of your report, a footer to print at the bottom of each page, or both. Headers and footers can contain one line of text, one graphic, or both. Text can be information that you type as well as information the system determines: page number, the total number of pages in the report, the date and time the report was printed, the name of the stored search used to create the report, and the ID Works user name of the person who printed the report. You can also specify the alignment for the header or footer information and the type font, style, size, and color

used. The graphic can be above or below the line of text and aligned as you specify.

Specifications for the header are completely independent from specifications for the footer. See the online help topic “Format the header or footer” for step-by-step instructions.

Page Setup

ID Works reports have page setup specifications, as many programs that print to paper printers do. Using the Page Setup dialog box you can specify the size of paper the report will be printed on, the source of the paper, the orientation of the report (portrait or landscape), and the margins on all four sides of the paper.

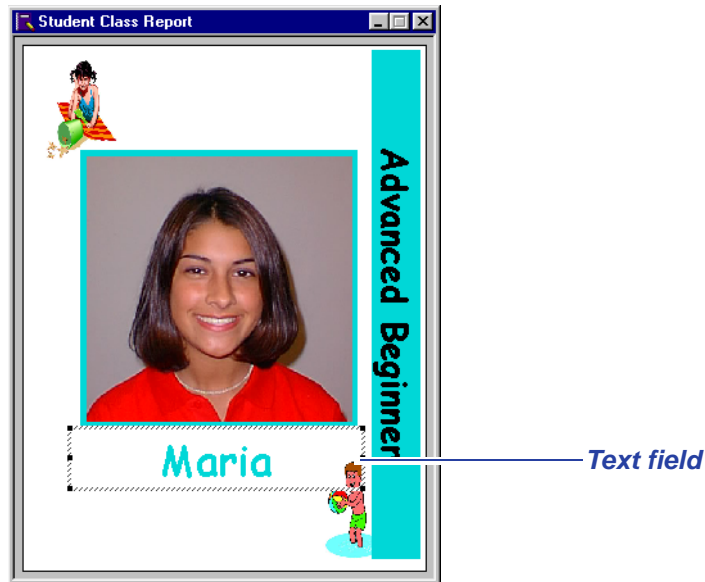
- i** Your computer must be attached to a paper printer to change Page Setup specifications.

Types of Report Fields

Report fields are the building blocks of report blocks. You must create a report field for each item of information you want to print in the report block. Each report field has a type that specifies the field's contents.

ID Works Basic Designer includes seven types of report fields: text, photo, date, barcode, variable graphic, static text, and static graphic.

Text Field



Text fields print information that changes from one record to the next, such as a person's name. You can specify the font and color attributes of a text field as well as rotate it. See [“Fonts” on page 81](#).

You can also specify that the size of the text will automatically shrink if necessary to fit a large amount of text in the field. The font size shrinks to a minimum of 6 points. If at 6-point type the text still does not fit, characters are dropped from the end.

See the online help topic “Add a text field to a report” for step-by-step instructions.

Photo Field

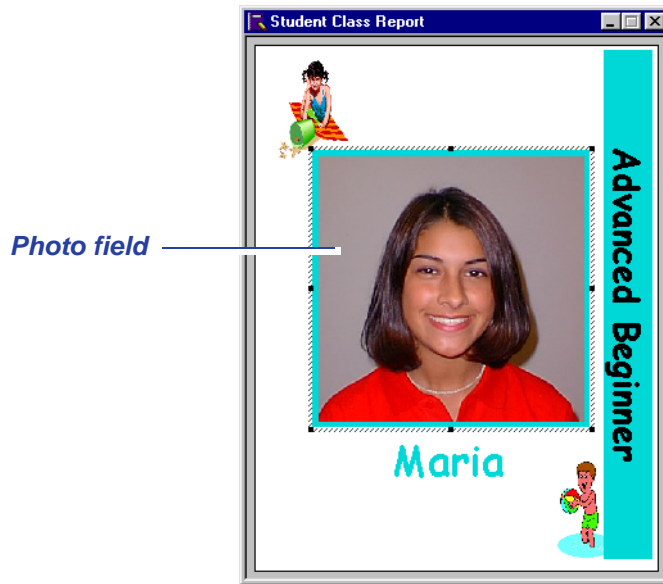


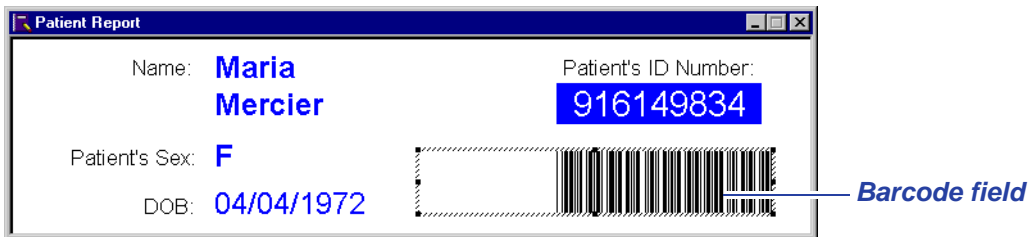
Photo fields contain a captured image of the subject of the database record. You can move, size, and rotate photo fields, as well as add a border to them. See the online help topic “Add a photo field to a report” for step-by-step instructions.

Date Field



Date fields contain a date and, optionally, time, in the format you specify on the Production Form. You can specify the font and color attributes of a date field, as well as rotate it. See [“Fonts” on page 81](#). See the online help topic [“Add a date field to a report”](#) for step-by-step instructions.

Barcode Field



Barcode fields are necessary on reports when you want to duplicate a card design in a report block. With some types of barcodes, you can specify density, error checking, and whether the barcode field uses a checksum algorithm. The kind of barcode you use in your report block is determined by the barcode reading equipment you use. See the documentation for your barcode reader to determine what barcode type to select. That documentation will also explain the rules for determining valid information for the barcode type you will use.

You select the barcode type on the **Advanced** tab of the Edit Field Properties [Barcode] dialog box. The following table lists the barcode

types ID Works software supports, as well as the options available with each barcode type.

Barcode Type	Options Available
Codabar	Checksum: none, Mod 16, Mod 10, Mod10Lib, Mod10Lun Density: High, Medium, Low
Code 128 Auto	Density: High, Medium, Low
Code 128 A	Density: High, Medium, Low
Code 128 B	Density: High, Medium, Low
Code 128 C	Density: High, Medium, Low
Code 39	Checksum: none, Mod 43, Mod10Lib, Mod10Lun Density: High, Medium, Low
Code 39 Extended	Checksum: none, Mod 43 Density: High, Medium, Low
Code 93	Checksum: none, 2 Mod 47s Density: High, Medium, Low
Code 93 Extended	Checksum: none, 2 Mod 47s Density: High, Medium, Low
EAN/JAN-13	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
EAN/JAN-8	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
HIBC	Checksum: none, Mod 43 Density: High, Medium, Low
Interleaved 2 of 5	Checksum: none, Mod 10, Mod10Lib, Mod10Lun Density: High, Medium, Low

Barcode Type	Options Available
MSI Plessey	Checksum: none, Mod 10, Mod 11 Density: High, Medium, Low
PDF417 (text only; binary data not supported)	Error Correction: none, Level 1 through Level 8 (maximum) Density: High, Medium, Low
Postnet Zip + 4	(no options available)
UCC128	Checksum: none, Mod 10 Density: High, Medium, Low
UPCA	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
UPCE – 0 System 6 Digit	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
UPCE – 1 System 6 Digit	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low
UPCE 11 digit	Supplemental Digits: 0, 2, 5 Density: High, Medium, Low

The Interpretation Text Options area of the **Advanced** tab lets you choose to have the contents of the barcode displayed in regular text. When Interpretation Text **On** is selected, you can also specify the font characteristics of the text and the location of the text relative to the barcode.

You must provide sample barcode data to display on the report block and print on the sample report. You do this on the **General** tab of the Edit Field Properties [Barcode] dialog box. If you enter too much sample data, the field is filled with diagonal lines. If the barcode type does not support the data you entered, the field is filled with a crosshatch pattern.



See the online help topic “Add a barcode field to a report” for step-by-step instructions.

Variable Graphic Field

A variable graphic field lets you specify which graphic is printed in a report block based on the value of an associated Production Form field (usually a list field). You can also specify that no graphic be printed. You can use graphics in any of the following formats:

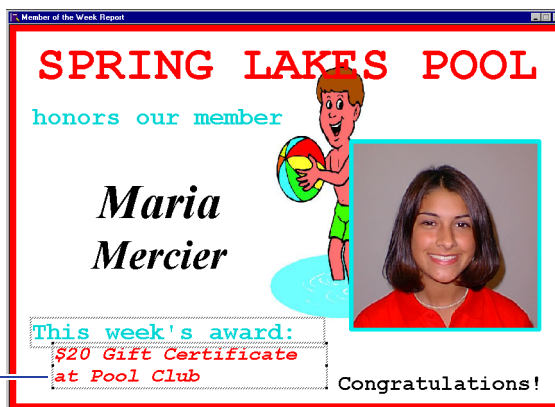
- BMP Windows Bitmap
- EPS Encapsulated PostScript
- JPG Joint Photographic Experts Group File Interchange Format (single image per file)
- PCT Macintosh PICT Drawing
- PCX PC Paintbrush
- PNG Portable Network Graphics
- PSD Adobe Photoshop® (3.0)
- TGA TARGA® Image File Format
- TIF Tagged Image File Format (single image per file, uncompressed only)
- WMF Windows Metafile

For example, an employer might want to identify what department employees work in. The report block for that employer’s new hire report could have a variable graphic field that prints a money bag for Accounting department employees, a computer for IT department employees, and a drill for Manufacturing department employees. See

the online help topic “Add a variable graphic field to a report block” for step-by-step instructions.

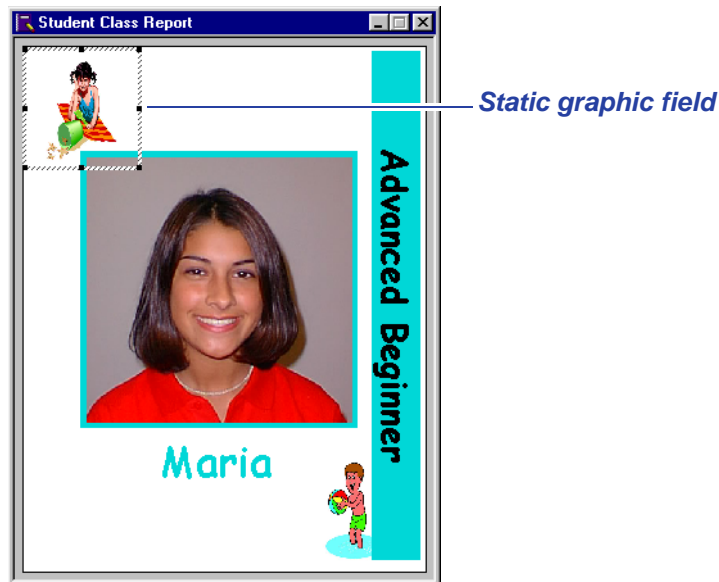
Static Text Field

*Static text fields—
one for each
combination of
font and color
attributes.
Word Wrap
selected.*



A static text field prints the same text in each report block. You must specify the text to appear in the static text field and you can specify the font and color attributes of a static text field. All text in a static text field displays with the same font and color attributes. You can rotate a static text field. The static text field supports multiple lines of text. The height of the field increases as necessary if you select the **Word Wrap** check box on the Edit Field Properties [Static Text] dialog box and if you type enough text in the Edit Display Text dialog box to require a second line. You can force a new line by pressing CTRL + ENTER in the Edit Display Text dialog box. See the online help topic “Add a static text field to a report” for step-by-step instructions.

Static Graphic Field



You define a static graphic field to print a graphic, such as your organization's logo, in each report block. You can use graphics in any of the formats listed in ["Variable Graphic Field"](#) on page 78.

You can size and rotate static graphic fields. See the online help topic ["Add a static graphic field to a report"](#) for step-by-step instructions.

Common Report Field Characteristics

Many field types have common characteristics, or properties. You can change a field's properties in the field properties dialog box. To access the field properties dialog box, select the field and, from the menu bar, select **Edit** and then **Field Properties** (or double-click on the field). The properties that appear in the dialog box vary depending on the field type.

Names

All report fields, regardless of their type, are given a default name when they are created. Named fields are necessary to connect report fields with Production Form fields and to select fields using only the computer keyboard. You can change the field name at any time, replacing the default name (for example, Text Field 1) with a meaningful, easy-to-remember name (such as FirstName).

Field names can be up to 100 characters long and can contain any character you can type on your keyboard.

Alignment

Variable fields have an alignment property. The choices available depend on whether the field contains characters or graphical information.

Sample Data

Variable fields that can contain characters let you supply sample data for use when viewing the report block in Sample Data view and when printing sample reports. You type information that might appear in the field. Variable fields that can contain an image use a default image as sample data.

Position/Size

All fields have position and size properties. You can change these properties by typing new values in a dialog box or by using the mouse. See the online help topics “Move a field” and “Change a field’s size” for step-by-step instructions.

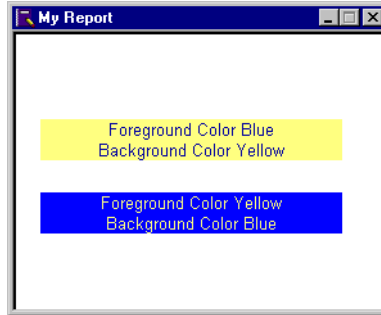
Fonts

You can select from many fonts for the text, static text, and date fields on your reports. ID Works Designer uses Arial, an OpenType font that is supplied with Windows, as the default font. See [“Fonts” on page 35](#) for more information.

Variable fields that always contain characters let you specify that the font size should automatically shrink to accommodate a large amount of text. The font size shrinks to a minimum of 6 points. If at 6-point type the text still does not fit, characters are dropped from the end.

Text Field Colors

You can select both a foreground and background color for your text fields. The foreground color refers to the color of the text in the field. You can specify either that the background be transparent (the default) or that it be a solid color.



The printer does not print white. If you define the field to print in white text, the printer will “knock out” the characters, allowing the surface of the paper (usually white) to show through.

Arranging Fields on the Report Block

Each time you insert a field on the report block, ID Works Designer places it, with default values for properties, in the upper left corner of the block. You need to change its properties to suit your needs and move it to the correct location in the report block.

Save time by copying and pasting formatted fields rather than always inserting a new, default field. Insert your first text field and select the font family and size you want to use (see the online help topic “Add a text field to a report block” for step-by-step instructions). For the additional fields, copy the first text field, and then paste it (see the online help topic “Cut, copy and paste fields” for step-by-step instructions) and change the Field Name and the text in the Sample Data box on the **General** tab of the Edit Field Properties [Text] dialog box. You will not have to change the font characteristics again.

Alternatively, you can format the text properties of multiple text-based fields at one time. See the online help topic, “Format text properties for multiple fields” for step-by-step instructions.

Previewing and Printing Sample Reports

While you are designing your report, you can see an on-screen preview of the report or print sample a sample report. See the online help topics “Preview a sample report” and “Print a sample report” for step-by-step instructions.

- i** Your computer must have a paper printer installed to preview or print sample reports.
- i** Sample reports are always printed with the sample data you supplied for the report fields.

Using Databases with ID Works Projects

5

If you want to save information entered in the Production Form for future use or if you want to use existing information to print cards or reports, you will do it by connecting fields in your Production Form to columns in a database.

This chapter assumes you have an understanding of database concepts in general as well as your database system in particular. You do not need to be the database administrator to use this chapter, but you may need to consult with that person as you make decisions.

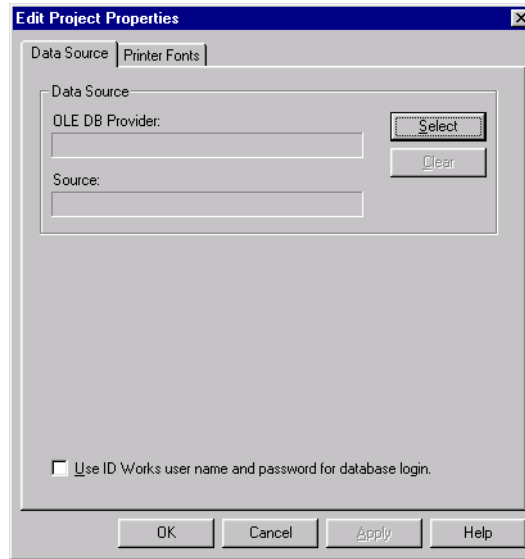
If you do not currently have a database, see [“Creating a Database from ID Works Designer” on page 93](#).

Supported Database

Datacard® ID Works® Basic identification software uses the Microsoft Jet 4.0 OLE DB Provider to connect with your Microsoft Access database.

- i** Database table and column names cannot contain spaces or any of the characters listed in the table on [page 95](#).

You select the data source for your project by clicking the **Select** button on the **Data Source** tab of the Project Properties dialog box. (To access the Project Properties dialog box, from the menu bar select **File** and then **Project Properties**.) Clicking the **Select** button launches the Microsoft Data Link application, a wizard-like program that changes depending on the choices you make. Online help is available for the Data Link application.



Connecting to Multiple Tables in a Database

ID Works Basic supports multiple related tables. Multiple tables have some advantages over a view, the most important being that updates are less restrictive. The ID Works software derives relationships between tables by using foreign keys if they are available or by matching column names if there are no foreign keys. A project can be connected to up to ten tables.

Always connect Production Form fields to the database parent table columns first. Connect child table columns after all the parent table columns are connected. Child table key columns used to relate records to the parent table do not require a connection. They will be automatically kept in sync with the parent table by the ID Works application.

Table rows must be related in a one-to-one relationship if inserts or deletes are allowed for the project. Updating will work with a one-to-many relationship if updates are restricted to data in the child tables. Selection supports a one-to-many relationship.

The **Delete All** command is not selectable in the Production application if the project is connected to multiple database tables.

Database Login

You access the database when you use the Field Connections window in ID Works Designer. In ID Works Production, Reporting, and View, you access the database when you open a project that has connections to a database.

If the database you will connect to requires a user name and password for access, the Project Properties dialog box, **Data Source** tab, Database Login area gives you have three choices for setting up your project:

Use database login settings—ID Works users must supply a separate database user name and password to access the database. If you enter a user name and password in the Connection tab of the Data Link Properties dialog box, the user name may be displayed as a default name in the database login prompt.

Use ID Works user name and password—The ID Works application passes your ID Works user name and password to the database server whenever you access the database. If you choose this option, you must assign the same user names and passwords for ID Works access that the database administrator assigns for database access. In addition, you should warn ID Works users not to change their ID Works passwords. If an ID Works password were changed and then passed to the database server, the database security software would detect a wrong password. Depending on the database used, the user might be asked to reenter the database password or the user might be denied access. If you choose the **Use ID Works user name and password** option, do not enter any user name or password information in the **Connection** tab of the Data Link Properties dialog box.

Use this user name and password—The ID Works application passes the user name and password you supply for the project to the database engine whenever you access the database. Because the user name and password are not displayed, users cannot use them to gain access to the database outside of an ID Works application. This offers a higher level of security.

Data Types

ID Works Basic applications support the following data types:

Production Form Field	Access Database Column Type
Text	Text(255)*, Number(Integer)†, Number(Long Integer)†, AutoNumber(Long Integer)†, Number(Single)†, Number(Double)†
Photo	OLE Object, Text‡
Date	Date/Time**
List	Text, Number(Integer), Number(Long Integer), Number(Single), Number(Double)
Print Count	Number(Integer), Number(Long Integer)
Auto Sequence	Number(Integer), Number(Long Integer)
Static Text	not applicable
Static Graphic	not applicable
Composite	not applicable

* Maximum length.

† Production operators will not be able to use wildcard characters in the Quick Search dialog box for fields connected to a database column of this type. The Advanced Search dialog box can be used to search for a range of numeric values.

‡ Use a Text field if you chose **File** on the **Storage** tab of the Edit Field Properties dialog box for the photo field.

** Access assigns a default time value (00:00:00) to each inserted date value. When searching using a date, ID Works software searches for times between 00:00:00 and 23:59:59 on that date.


To prevent duplicate values, the column connected to the auto sequence field should be restricted to unique values using an index or constraint.

Controlling Database Activities

There are two levels of database access control in an ID Works project. The database administrator is the only person who can grant privileges, and granting privileges happens outside of the ID Works program.

The best place to restrict Production operators' database access is on the **Database** tab of the Edit Production Form Properties dialog box. There you can prevent operators from creating new database records, saving changes to records, deleting records, or searching the database. Note that when you use the **Database** tab of the Edit Production Form Properties dialog box to restrict database access, those restrictions are applied to all ID Works users of the project, regardless of the user privileges individual user accounts were granted when the accounts were set up. The print count field overrides settings on the **Database** tab of the Edit Production Form Properties dialog. That is, if **Save** is cleared on the **Database** tab of the Edit Production Form Properties dialog and a Production operator prints a card, the database record will still be updated to increment the database table column associated with the print count field.

You can restrict individual users' database access through the Manage User Accounts utility in the ID Works Administrator application. Each user's privilege to search, add or change records, and delete records can be enabled or disabled. See "[User Privileges](#)" on page 121.

-  Any privilege restrictions set outside of the ID Works application (such as database security) cannot be bypassed.



You can also use the Edit Production Form Properties dialog box to ensure that database records are updated by selecting the **Save On Print** option in the Automatic Actions area. Using this feature also eliminates the need for an explicit “save” operation for each card printed.

Database Design Considerations

Because ID Works applications are often only a part of an organization’s overall security and identification system, it is not possible to cover in this document all the ways ID Works software might interact with your organization’s database.

Understanding Database Errors

If database errors occur when using the Production application, the error messages will come directly from the database program. ID Works software does not filter or change the messages in any way. You may want to provide your Production operators with user documentation for your Access database product or develop your own error recovery document.

BLOB-related Considerations

Binary large object (BLOB) is a generic name for Access OLE Objects. The maximum size of all BLOB fields on a record cannot exceed 1 megabyte. The maximum size of an individual BLOB field is determined by dividing 1 megabyte by the number of BLOB fields in the record. For example, if the record has four BLOB fields, each will have a maximum of 250 kilobytes. An average head-and-shoulders photo saved by the ID Works Production application using the default JPEG storage settings is about 20 kilobytes. If you decide to use another file format to store photos, be sure to test the project using actual images.

If a BLOB exceeds the maximum size, the Production operator will receive a warning message, the BLOB will be truncated to the maximum length allowed, and the record will be saved with the truncated BLOB.

File Name Considerations

Photo images can be stored in the database, or they can be stored as files outside of the database. If they are stored as files, two storage options are available:

- **Use ID Works Path** — Only the file name is saved in the database. The current setting for the photo path is used as the path to store the file when the record is inserted into the database and as the path to find the file when the record is read from the database. This option is useful when you want to move the files to different locations over time. You can use the ID Works Administrator application to specify where photo files should be stored. See the Administrator help topic “Set the system paths” for step-by-step instructions.
- **Select Path** — The entire path is saved in the database. If your ID Works project will be used on more than one computer and you select the path for image files, you can use universal naming (starting with \\) for the path specification. Using universal naming means you do not have to ensure that all computers in your system map drives the same way.

- ❗ Use caution when changing between **Use ID Works Path** and **Select Path** or using the **System Paths** utility in ID Works Administrator to change the ID Works path after you have begun capturing images. Changing any of these settings may cause the software to not find previously-captured images.

You can also specify a Production Form field to use as the file name. Specifying a Production Form field may help you find files when using another application. For example, if you specify that the Employee Number field be used as the file name for a photo, the image for the person whose employee number is 12345 would have the file name 12345.jpg. If you have multiple photo fields on the Production Form, you can use a composite field to differentiate the photos. For example, you could create a composite field that combines the employee number field with the constant string "left" and specify that composite field as the **Field to Use as File Name** for the left profile photo. See ["Composite Field" on page 55](#) and the online help topic "Add a composite field to a Production Form" for more information.

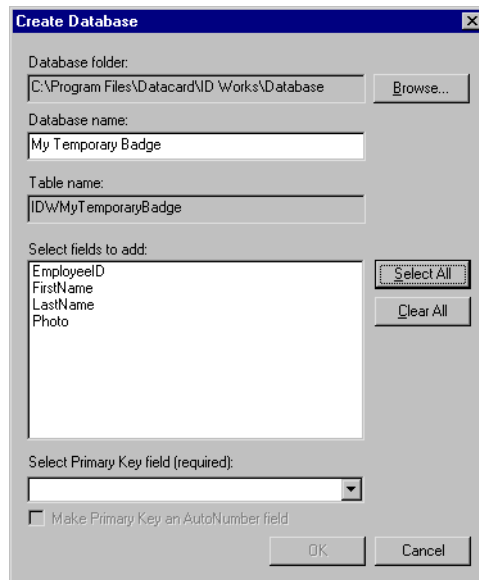
If you do not specify a Production Form field to use as the file name or if you specify a field that does not yield a unique file name, the software will construct a unique file name.

- ❗ If the field used to name the file is empty, the file name will be created as if no field name was selected. To prevent this, mark fields used to name photos as **Mandatory** and do not use fields connected to AutoNumber database columns. See ["Field Options" on page 63](#) and the online help topic "Set field options" for more information. To use a unique number for the file name, consider using the ID Works auto sequence field instead of a database-generated value. See ["Auto Sequence Field" on page 59](#).

Creating a Database from ID Works Designer

If you do not currently maintain a database for cardholder information, you can use the ID Works Designer application to create a Microsoft Access 2000 database for your ID Works project. The **Create Database from Production Form** command on the **Tools** menu is available if the current project is not attached to a database. See the online help topic “Create a database” for step-by-step instructions.

Create Database from Production Form lets you select the location and name of the database. The name of the database table will be the same as your project name except that any spaces or special characters in the project name will be removed. See [“About the Created Database”](#) on page 95.



The screenshot shows the 'Create Database' dialog box with the following fields and options:

- Database folder:** C:\Program Files\Datacard\ID Works\Database (with a 'Browse...' button)
- Database name:** My Temporary Badge
- Table name:** IDWMyTemporaryBadge
- Select fields to add:** A list box containing EmployeeID, FirstName, LastName, and Photo. To the right are 'Select All' and 'Clear All' buttons.
- Select Primary Key field (required):** A dropdown menu currently empty.
- Make Primary Key an AutoNumber field**
- OK** and **Cancel** buttons at the bottom.

Create Database from Production Form presents a list of Production Form fields that can be included in the database table. You select which fields to add to the table.

- ❗ Only simple variable Production Form fields are available to add to the database table. Static text, static graphic, and composite fields are omitted from the list.

You must also select a Primary Key field from the set of text fields you specified to be included in the database table. The Primary Key field must contain information that is unique to a given record, such as an employee number.

You can specify that the Primary Key field you selected should be automatically incremented for each record added to the database. If you select **Make Primary Key an AutoNumber field**, the Production Form field you selected as the Primary Key field will be Read Only. The first record saved to the database will have a value of 1 for this field; the second record saved will have a value of 2, and so on.

- ❗ If you select an auto sequence field as the primary key, **Make Primary Key an AutoNumber Field** will be unavailable.

When you have made selections in each field, the **OK** button becomes available. When you click **OK**, a Summary dialog box opens that allows you to review your selections and either back up to change them or finish the database creation task.

When you choose **Finish, Create Database from Production Form** creates the database and the table, adds the specified fields to the table, adds the database to the project properties, opens a connection to the new table, and connects each Production Form field to its corresponding database field. If you selected **Make Primary Key an AutoNumber field** and if the Production Form field designated as the Primary Key field was not designated as **Read Only, Create Database from Production Form** selects the **Read Only** option for that field.

Adding Fields to a Database Created from ID Works Designer

Developing an ID Works project often involves several iterations. You may decide to add a field to the Production Form or to add information to the database that you first thought you did not need to save. The **Add Production Form Fields to Database** command on the **Tools** menu becomes available after you have created a database for your project using the **Create Database from**

Production Form menu command. **Add Production Form Fields to Database** is available only when you are working in the project that created the database. See the online help topic “Add fields to a database” for step-by-step instructions.

- i** You must close the ID Works project in the Production or Reporting application before adding fields to the database.
- i** Deleting a field on the Production Form does not delete the corresponding database field. ID Works Designer does not provide a way to delete database fields.

About the Created Database

ID Works project and field names can contain characters that are not allowed in database table and field names. Database names must start with a letter and cannot contain any of the following:

space (leading, trailing, and embedded)	control characters (ASCII values 0 through 31)
. period	, comma
! exclamation point	; semi-colon
‘ accent grave	: colon
[] brackets	= equal sign
“ quotation marks	> greater than
/ slash mark	< less than
\ backslash	? question mark
- hyphen	@ at sign
% percent	^ accent circumflex (caret)
& ampersand	~ tilde
() parentheses	{ } braces
* asterisk	vertical bar

+ plus

number sign (hash)

When **Create Database from Production Form** creates a database table, it names the database the same as the ID Works project except that it removes the characters listed above. For example, if your ID Works project is named *My Project*, **Create Database from Production Form** would create a database table named *MyProject* (without the space).

When creating database field names, **Create Database from Production Form** and **Add Production Form Fields to Database** start with the Production Form field name, remove any characters that are not allowed, and add "IDW" to the start of the name. Adding this prefix prevents the inadvertent creation of a database field name that is a reserved word. If removing characters from Production Form field names results in duplicate database field names, the software tells you to change a Production Form field name. For example, Production Form fields named "First Name" and "FirstName" would both result in the database field name "IDWFirstName" and you would receive an error message.

Database field names are limited to 64 characters. If the field name is longer than 64 characters after the characters mentioned above are removed, only the first 64 characters are used.

The Access field types created are:

Production Form Field Type	Database Field Type
Text or List	Text
Date	Date/Time
Photo	BLOB: OLE Object File: Text
Print Count	Number(LongInteger)
Auto Sequence	Number(LongInteger)

Database text fields created for ID Works text or list fields are set to 255 characters, which is the maximum length for ID Works text fields. This ensures that all data entered in a Production Form text field will

be saved in the database. Database text fields created for ID Works photo fields stored as files are set to 255 characters.

Importing Data from a Text File to an Access Database

You can use a utility in the ID Works Administrator application to create a Microsoft Access 2000 database that contains information from your text file, to add records to an existing Access database, or to replace the existing database records with information from your text file. The **Import Data from Text File** command on the **Tools** menu starts a four-step wizard that requests the information necessary to complete the import operation. Online help is available for each step by selecting the **Help** button on each page of the wizard.

Information you will need includes:

- The name and location of the text file, the character that is used as the field separator, the character (if any) that starts and ends text fields, and whether the first row of the file contains field names. Valid field separator characters are comma (,), tab, semicolon (;), and space. Text field delimiter character choices are double quote (") and none.
- The name and location of the database to create or the existing database to use and the names of the database table and columns that are to be created or changed.
- The text file field you want to be the primary key field. Alternatively, you can have an AutoNumber column created in the database table. If you select to have an AutoNumber column created, duplicate records in your text file will result in duplicate database records. If you specify one of the text file fields to be used as the primary key, any duplicate records will be identified and the second occurrence will not be placed in the database.

Exporting Data from an Access Database to a Text File

You can use a utility in the ID Works Administrator application to create a text file that contains information from a Microsoft Access 2000 database. The **Export Data to Text File** command on the **Tools** menu starts a four-step wizard that requests the information necessary to complete the export operation. Online help is available for each step by selecting the **Help** button on each page of the wizard.

Information you will need includes:

- The name and location of the database, the table name if the database contains more than one table, and the columns to export.
- The name and location of the text file, the character to use to separate fields, the character to use to delimit text fields, whether to export column names as the first line of the file, and whether to overwrite the file if it already exists. Valid field separator characters are comma (,), tab, semicolon (;), and space. Text field delimiter character choices are double quote (") and none.

Connecting Fields

6

Chapters 2 and 4 described the types of fields you can place on card designs and reports, chapter 3 explained the types of fields available on a Production Form, and chapter 5 described the types of database fields ID Works software supports. This chapter explains how to make connections between the following:

- Production Form fields and database table fields, so the Production operator can retrieve, update, create, and delete database records
- Production Form fields and card fields, so information on the form can be printed or encoded on the card
- Production Form fields and report fields, so information on the form can be viewed or printed on a report

What Is the Field Connector?

The ID Works field connector lets you establish connections between and among fields on the various parts of your ID Works project. You can connect a Production Form field in three ways:

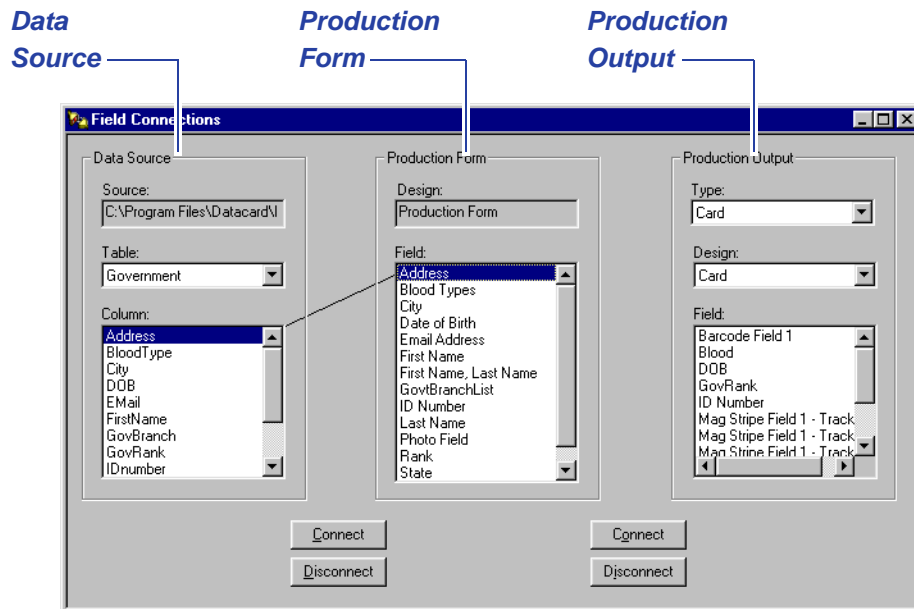
- Connect to both the database and the card or report design. In this case, data entered in the Production Form is printed on the card or report and saved in the database. If data is already in the database, the Production Form is the conduit for printing that information on the card or report.
- Connect to the card design only. You may want to print something on the card that does not need to be saved to the database. For example, you might give cardholders the option of having a shortened form of their name on their cards, but it is not likely that you will need to store that information in your database.
- Connect to the database only. If you use the ID Works Production Form as a data entry vehicle, you can collect and store information in your database without using it on a card or report. A home address is an example of information you might collect and save in the database but not print on a card or report.

When making connections, select the Production Form field first and then the database table column field or card or report design field.

Field Connections Window

You use the Field Connections window to establish connections between fields. From the menu bar, select **View** and then **Field Connector**. The Field Connections window contains three areas: Data Source, Production Form, and Production Output.

When you open the Field Connections window, the Production Form, card design, and report block windows change to viewing field names (if you had been viewing sample data). This helps you associate field names in the Field Connections window with fields on your Production Form and output designs.



Data Source Area

The data source you specified in the **Data Source** tab of the Edit Project Properties dialog box appears in the Source field. The Table field shows the name of the database table or, if the data source you specified has more than one table, it lists the names of the available tables in alphabetical order. You use this list to select the table you want to connect to.

In the Column field you will see the names of the columns in the table specified in the Table field. The column names appear in alphabetical order. If you click on a column name that is connected to a Production Form field, a line appears showing the connection.

When you connect to multiple tables, make connections to the parent table first. When you connect a Production Form field to a column in a child table, ID Works Designer adds that table's primary key columns and any columns related to the parent table via foreign keys or common column names. ID Works Production will insert or update information in these related columns automatically when a record is saved. See ["Connecting to Multiple Tables in a Database" on page 86](#).

Production Form Area

The name of your Production Form, specified in the **General** tab of the Edit Production Form Properties dialog box, appears in the Design field. Below that, the names of the data input fields in your Production Form are listed in alphabetical order.

Production Output Area

Choices for the Type field are **Card** and **Report**. If you select **Card**, the Design field shows the name of the card design for your ID Works Basic project. Because ID Works Basic is limited to one card design per project, the card list will never have more than one entry. In the Field area, the names of card fields that will change from card to card appear in alphabetical order. If you click on a card field that is connected to a Production Form field, a line appears showing the connection.

If you select **Report** for the Type field, the Design list contains the names of the report designs created for the project, in alphabetical

order. You use this list to select the report design to which you want to connect a Production Form field. The Field area lists the report fields that will change from record to record. If you click on a report field that is connected to a Production Form field, a line appears showing the connection.

- ❗ Static text, static graphic, and non-printable area fields on a card or report block are not listed because they cannot be connected to a field on the Production Form.

Connect and Disconnect Buttons

Two sets of buttons let you connect and disconnect fields. The buttons between the Data Source area and the Production Form area are for connections between fields in those two parts of the ID Works project, and the buttons between the Production Form area and the Production Output area are for connections between fields in those two parts of the project.

Restrictions on Connections to Database Columns

A Production Form field can be connected to one and only one database table column, and a database table column can be connected to one and only one Production Form field. The ID Works software enforces these restrictions in two ways. First, if you select a Production Form field that is already connected to a database table column, the Table and Column fields in the Data Source area change (if necessary) to show you the connected table and column name. You can remove that connection by clicking the **Disconnect** button. Secondly, if you still try to make a multiple connection, you will see an error message telling you to remove the original connection.

You can connect Production Form fields only to compatible database table columns. For example, if you try to connect a text field on your Production Form to a database table column with a type of date, the ID Works software will display an error message. See [“Data Types” on page 88](#) for compatible field and database types.

Composite fields cannot be connected to a database column. Instead, connect the fields from which the composite is made.

To ensure that all the data you collect using the Production Form is saved in the database and, conversely, to ensure that all the data in the database can be displayed on your Production Form, the length of text fields on your Production Form should match the length of the database table column to which they will be connected. If you connect text fields of unequal length, the ID Works software will offer to change the length of the Production Form text field to match the length of the database table column.

If you change the data type, length, or name of a database column after you have connected it to a Production Form field or if you change the Production Form field length after you have connected it to a database column, you must disconnect and reconnect the fields or errors may occur when the project is used.

Restrictions on Connections to Card Design Fields

You can connect a Production form field to as many card design fields as necessary, provided the field types are compatible. For example, if a card design includes a photo and ghosted photo, a single photo field on the Production Form can be connected to both card design photo fields. The following table lists compatible field types.

Production Form Field	Compatible Card Design Fields
Text	Barcode, Magnetic Stripe, Variable Graphic, Text
Photo	Photo
Date	Date
List	Barcode, Magnetic Stripe, Variable Graphic, Text
Composite	Barcode, Magnetic Stripe, Text
Print Count	Barcode, Magnetic Stripe, Text
Auto Sequence	Barcode, Magnetic Stripe, Text

Each card design field can have only one connection. To combine information from two or more Production Form fields in a card design field, create a composite field on the Production Form and then connect the composite field to the card design. Note that photo fields cannot be used as a subfield in a composite field.

Restrictions on Connections to Report Design Fields

You can connect a Production form field to as many report block fields (on as many report designs) as necessary, provided the field types are compatible. The following table lists compatible field types.

Production Form Field	Compatible Report Block Fields
Text	Barcode, Variable Graphic, Text
Photo	Photo
Date	Date
List	Barcode, Variable Graphic, Text
Composite	Barcode, Text
Print Count	Barcode, Text
Auto Sequence	Barcode, Text

Each report block field can have only one connection. To combine information from two or more Production Form fields in a report block field, create a composite field on the Production Form and then connect the composite field to the report design.

Working with Capture Options

7

In addition to using a computer keyboard to gather character-based information, ID Works identification software lets you capture photo images, which are stored as binary data.

The ID Works Production application includes three ways of capturing photo images:

- Using images stored as files on your system or network.
- Using any capture device (camera, scanner) that complies with the TWAIN interface standard.
- Using any camera that complies with the Microsoft Video for Windows or Windows Image Acquisition (WIA) standard interface.

In addition, your system may include an optional capture device, such as the Datacard Tru™ photo solution.

You select the default capture device on the **Source** tab of the Edit Field Properties [Photo] dialog box. The Default Photo Source list has the following choices:

- **No Capture**
Use if images are already stored in your database and the Production operator usually will not take new photos. The operator will be able to select a capture device in exception cases.
- **Photo from File**
Use if previously-captured images are stored on your system or network as files. See [“Photo from File” on page 106](#).
- **TWAIN**
Lets the Production operator select the TWAIN device to use to take the photo. See [“TWAIN Interface” on page 108](#).

- **TWAIN (Fast)**
Use if only one TWAIN device is loaded on the computer or if one TWAIN device will be used most often. Selects the last TWAIN device used. See [“TWAIN Interface” on page 108](#).
- **Video for Windows**
Lets the Production operator select the Video for Windows device to use to take the photo.
- **Video for Windows (Fast)**
Use if only one Video for Windows device is loaded on the computer or if one Video for Windows device will be used most often. Selects the last Video for Windows device used.

In addition, the Default Photo Source list includes any optional capture devices present on your computer.

- **i** Production operators should be given the privilege to select a capture device if they will need to change the photo source.

Photo from File

If you specify **Photo from File** on the **Source** tab of the Edit Field Properties [Photo] dialog box (and if you selected **Automatically When Field Selected** in the Capture Initiation area of the **Advanced** tab), Production operators will see the Open dialog box when they enter the photo field on the Production Form. The operator can navigate to the proper file using standard Windows navigation techniques.

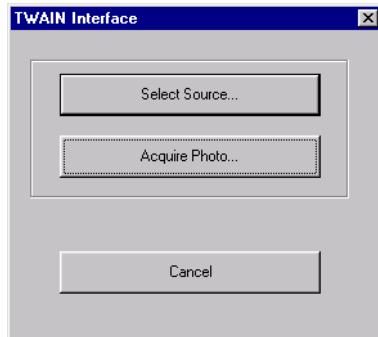


ID Works software supports the following graphics formats:

- BMP Windows Bitmap
- EPS Encapsulated PostScript
- JPG Joint Photographic Experts Group File Interchange Format
(single image per file)
- J2K JPEG 2000 File Format
- PCT Macintosh PICT Drawing
- PCX PC Paintbrush
- PNG Portable Network Graphics
- PSD Adobe Photoshop® (3.0)
- TGA TARGA® Image File Format
- TIF Tagged Image File Format (single image per file,
uncompressed only)
- WMF Windows Metafile

TWAIN Interface

If you specify **TWAIN** on the **Source** tab of the Edit Field Properties [Photo] dialog box, Production operators will see the TWAIN Interface dialog box when they enter the photo field on the Production Form.



The operator must select a device (by clicking the **Select Source** button and selecting from available sources listed in the Select Source dialog box) and then activate the device by clicking the **Acquire Photo** button. When the operator clicks the **Acquire Photo** button, ID Works Production launches the software application provided by the manufacturer of the TWAIN device.

If the operator clicks the **Cancel** button on the TWAIN Interface dialog box, the dialog box closes. The operator is then able to select another photo source from the **Capture** menu.

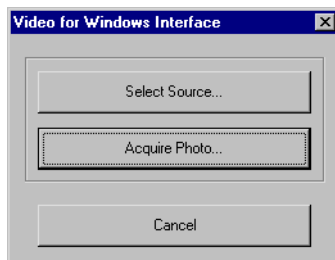
If you specify **TWAIN (Fast)** on the **Source** tab of the Edit Field Properties [Photo] dialog box, the ID Works Production application launches the software application provided by the manufacturer of the TWAIN device that was used most recently (or for the only TWAIN device on the computer). If more than one TWAIN device is loaded on the computer but none of them have been used yet, the Production application launches the software for the device that would appear first on the Select Source dialog box. Specifying **TWAIN (Fast)** can save your Production operators up to four mouse clicks for each photo they take.

Because you can use any TWAIN-compliant device from any manufacturer, ID Works documentation cannot provide step-by-step

procedures for Production operators to follow. You must develop those procedures for your operators.

Video for Windows Interface

If you specify **Video for Windows** on the **Source** tab of the Edit Field Properties [Photo] dialog box, Production operators will see the Video for Windows Interface dialog box when they enter the photo field on the Production Form.



The operator must select a device (by clicking the **Select Source** button and selecting from available sources listed in the Select Source dialog box) and then activate the device by clicking the **Acquire Photo** button. When the operator clicks the **Acquire Photo** button, the Video for Windows Camera dialog box opens.



If the operator clicks the **Cancel** button on the Video for Windows Interface dialog box, the dialog box closes. The operator is then able to select another photo source from the **Capture** menu.

If you specify **Video for Windows (Fast)** on the **Source** tab of the Edit Field Properties [Photo] dialog box, the ID Works Production application launches the software application provided by the manufacturer of the Video for Windows device that was used most recently (or for the only Video for Windows device on the computer). If more than one Video for Windows device is loaded on the computer but none of them have been used yet, the Production application launches the software for the device that would appear first on the Select Source dialog box. Specifying **Video for Windows (Fast)** can save your Production operators up to four mouse clicks for each photo they take.

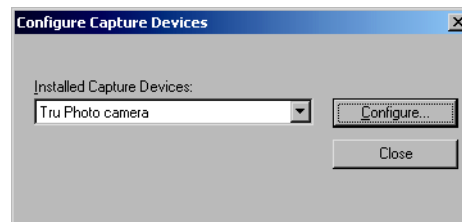
Optional Capture Devices

We offer a number of optional capture devices for use with ID Works Basic systems. These capture devices are explained in separate online documents that are loaded on your system with the capture device software.

Configuring Optional Capture Devices

Some optional capture devices allow you to create a configuration—a group of settings tailored to the way you use the device. You use the ID Works Administrator application to specify a configuration. Follow these steps:

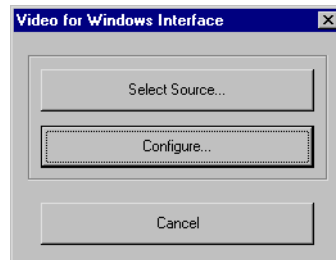
- 1 Log in to the Administrator application by clicking the Windows **Start** button and selecting **Programs, Datacard, ID Works**, and then **ID Works Basic Administrator**.
- 2 From the menu bar select **Capture** and then **Configure Capture Devices**. The Configure Capture Devices dialog box opens.



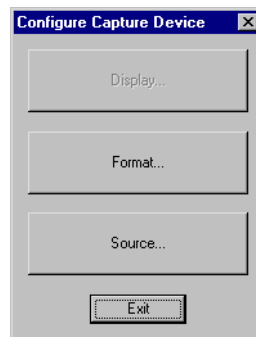
- 3 From the list, select the capture device you want to configure and click **Configure**. The configuration dialog box for the device you selected opens.

i If no device names appear in the list, none of the capture devices installed on your system can be configured.

If you selected Video for Windows as the device to configure, the Video for Windows Interface dialog box opens.



- a If you have more than one Video for Windows device loaded on the computer, click **Select Source** and choose the camera you want to configure from the Select Source dialog box.
- b Click **Configure**. The Configure Capture Device dialog box opens.



- c Click the button for the configuration option you want to change. The device's configuration dialog box opens.

i If a button is unavailable, that option cannot be configured for your device.

- 4 See documentation for the capture device for information about making selections and saving the configuration. When you close the configuration dialog box, you return to the Configure Capture Devices dialog box.
- 5 Click **Close**.

Working with Printer Options

8

ID Works applications work with two kinds of printers. You print reports using the same kind of paper printer you would use to print a word processing document or spreadsheet. The ID Works Reporting application uses standard Windows Print dialogs; no additional software is necessary to print ID Works reports.

Printing ID cards is more complex because card printers offer features, such as topcoating and encoding, that are not available on paper printers. In addition, each card printer has a different set of available features.

Introducing Printer Plug-ins

ID Works applications rely on software modules called plug-ins to provide the interfaces between the main ID Works applications and the various card printers and encoders for magnetic stripes. This design allows support of a wide variety of printers without changing the ID Works software.

The printer plug-in simply “plugs in” to the ID Works application.



Similarly, a magnetic stripe encoder plug-in plugs in to the printer plug-in, extending the capability of the printer.

Specifying Plug-ins

If the driver for your card printer is installed on your computer when you install the ID Works software, the ID Works installation program automatically associates the correct printer plug-in with your card printer. If you add a card printer to your system after installing ID Works software, you must specify the association by using the **Assign Printer Plug-ins** utility in the ID Works Administrator

application. See the ID Works Administrator online help topic “Assign printer plug-ins” for step-by-step instructions. Printer plug-ins must be assigned on each computer that prints cards with your ID Works project.

You specify the magnetic stripe encoder plug-in to use by selecting a device on the **Encoding** tab of the magnetic stripe field properties dialog. See “[Magnetic Stripe Field](#)” on page 28.

Printing Multiple Copies of Cards

When a Production operator specifies that two or more copies of a card be printed, the exact method of fulfilling the request depends on the printer plug-in specified.

If the generic printer plug-in is selected, the plug-in will send the number of copies specified to the printer driver and will create a single print job.

The behavior of other printer plug-ins is described in Online Reference Library documents. To access the Online Reference Library, from the Windows **Start** button select **Programs, Datacard, ID Works, User Documentation**, and then **Online Reference Library**.

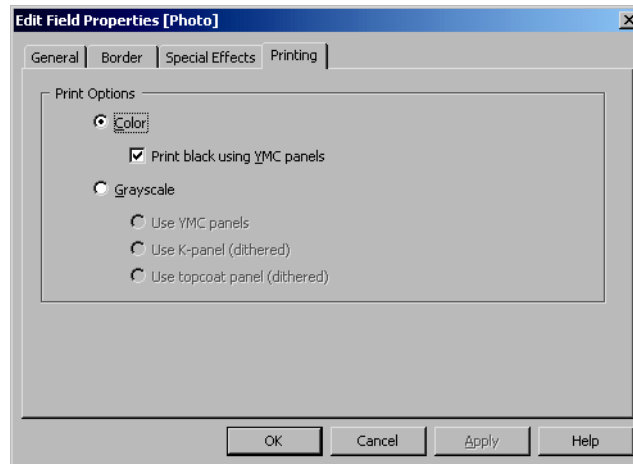
Printing Graphics with the Card Printer’s K-panel

You have two ways of controlling whether and how the black panel of the printer ribbon (the K-panel) is used to print graphics. You can specify K-panel printing on a field-by-field basis with the field property sheet or you can specify that all graphics on a card side be printed with the K-panel using a utility in the ID Works Administrator application.

Field Properties Print Options

Text, static text, date, line, rectangle, and ellipse fields let you select the K-panel whenever you select black as the color.

Card photo, static graphic, and variable graphic fields and the graphics used for card backgrounds all have Print Options that let you control use of the printer's K-panel.



If you select **Color**, the image will be printed with the yellow, magenta, cyan, and black printer ribbon panels (if the printer ribbon being used has a black panel). If you also select **Print black using YMC panels**, black pixels in the image will be printed by using all three of the other panels. This gives a more natural appearance to the image.

Your card printer's driver may automatically print black using the YMC panels for photos and graphics. In that case there is no need to use this option. Check your printer documentation to determine your printer driver settings.

If you select **Grayscale**, the ID Works software will convert the colored pixels in your image to shades of gray. You *must* specify grayscale conversion if your card printer uses ribbons that have only one color panel—typically a K-panel—but you *can* use this feature with color ribbons as well. Converting photos to grayscale results in an image similar to a black-and-white photograph printed in a paper

document. The quality of the image depends on whether you also selected **Use K-panel if available**, as shown here:



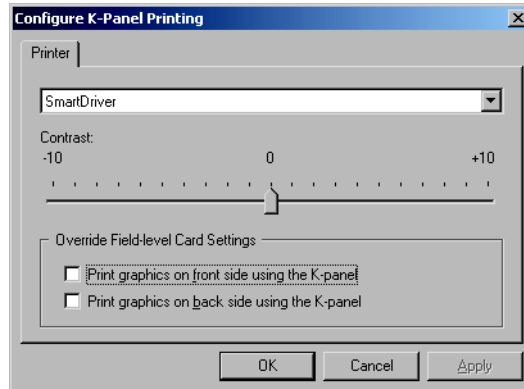
Grayscale selected



Grayscale and Use K-panel if available selected

A photo, static graphic, or variable graphic field that has **Grayscale** and **Use K-panel if available** selected will display on the screen with its background color (usually white for graphics) blocking the fields behind it. When printed, the background will be transparent.

You can use the Configure K-Panel Printing utility in the ID Works Administrator application to adjust the contrast of grayscale images printed with the K-panel. Contrast refers to the degree of difference between the lightest and darkest areas of the graphic.



First select the printer you will use. Then move the slider and click **OK**. Because contrast conversions are done at print time, the Designer card design and Production Card preview windows cannot show the results of changing the contrast setting. Print a test card and adjust your settings if necessary. See the online help topic, “Configure K-panel printing” for step-by-step instructions. You must make this contrast adjustment on each ID Works computer and for each printer used by the computer. The contrast setting will be used for all grayscale images in all projects for the selected printer.

Override Field-level Settings

You can have ID Works software ignore the Print Options settings for photo, static graphic, and variable graphic fields and instead convert them to grayscale for printing with the K-panel (black) of your card printer ribbon. You do this with the Configure K-Panel Printing utility in the ID Works Administrator application. You specify K-panel printing for the front of the card, the back of the card, or both.

Because card side grayscale conversions are done at print time, the Designer card design and Production Card preview windows always display graphics in color. You must print a card to see the results of the settings.

If you uninstall ID Works software and later reinstall it, you must recreate the K-panel configuration settings. Also, you must set up K-panel configurations on each ID Works computer and for each printer used by the computer.

See the Administrator online help topic “Configure K-panel printing” for step-by-step instructions.

Printing Order

Selecting **Grayscale** and **Use K-panel if available** does not change the stacking order of fields in the Designer application but it does have that effect when printing. (See “[Arranging Fields](#)” on page 9 for more information about the stacking order.) For example, assume a card design has a photo field with **Grayscale** and **Use K-panel if available** selected and a text field that specifies blue text in front of the photo field. When the card is printed, the photo field is printed last—on top of the blue text field—because the black panel of the printer ribbon is the last panel in the YMCK sequence.

The ID Works software has no way of knowing whether the printer has a K-panel. If there is no K-panel in the printer ribbon, fields that have **Grayscale** and **Use K-panel if available** selected will print using the yellow, magenta, and cyan panels at the same time as non-black fields print. That is, each card side will use only one set of printer ribbon panels.

Specifying the Print Queue Path

When a Production operator issues a **Print** or **Print All** command, the ID Works software creates a complete image of each card side to be printed and places the image in a print queue on the ID Works computer. If the printer has enough memory to store the image, it is sent to the printer. Because card printing is not as fast as generating the card images, a backlog of images to be printed can develop. And because that backlog can require a large amount of disk space (especially if the card design is complex), you may want to specify a location for the print queue that you are sure will have sufficient room. See the Administrator online help topic “Set the system paths” for step-by-step instructions.

System Security

9

An identification program is not secure if the computer system that gathers the data and produces the ID cards is not secure. This chapter is written for the ID Works System Administrator, the person responsible for ensuring the security of an organization's ID Works systems. It assumes a basic understanding of network security concepts and Administrator privileges on the local network.

ID Works identification software offers two levels of security features: those provided as part of the ID Works software and those available through the Windows operating system.

ID Works Security Features

Security features built into the ID Works software include:

- User name and password required for access to all ID Works applications.
- Production workstations can be configured to log users out after a specified period of inactivity.
- Users can change their passwords quickly and easily, encouraging frequent changes.
- System Administrators have full flexibility in granting or restricting access to ID Works applications and features within applications.
- Audit log tracks activity on each computer on which ID Works software is installed.
- System Administrator/project designer can specify additional actions to track in audit log.
- Project designer can further restrict database access for all users of an ID Works project. (See [“Controlling Database Activities” on page 89.](#))


Managing Users

The ID Works System Administrator should create a separate user account for each person who will use ID Works software. The user account contains a user name (or login name), an optional description (perhaps the user's full name), the user password, and user privileges. There is no limit to the number of user accounts you can have.

A default user account is created when ID Works software is installed. The user name for the default account is Admin, and the password is also Admin.

If you have not already done so, log in to the ID Works Administrator application using the Admin user name and change the password.

Changing the Admin User Name Password

- 1 From the Windows **Start** button select **Programs, Datacard, ID Works**, and then **ID Works Administrator**. The User Login dialog box opens.
- 2 Click the **Change Password** button. The Log in and Change Password dialog box opens.
- 3 Type *Admin* in the User Name and User Password fields. (Press TAB to move through the fields or click in the next field with the mouse.)
-  Passwords can be 1 to 10 characters long and can include any character you can type from the keyboard. Passwords are not case sensitive. That is, ADMIN, admin, and AdmiN are all treated as the same.
- 4 In the New Password and Verify New Password fields, type the password of your choice.
- 5 Click the **Log in** button. A message confirms that the password was changed.

User Privileges

As a System Administrator, you determine what actions a user can perform when you add a new user. You can also change an existing user's privileges. In either case, a wizard enforces dependencies among privileges.

You can base privileges on an existing user. For example, you can create a generic Production operator user, ProdOp, that has the privileges you want all your Production operators to have. Then, when you need to authorize a new Production operator, you can copy privileges from the ProdOp user, adding and deleting privileges as necessary for the new Production operator.

You can restrict users to certain projects. For example, a school might hire temporary workers to help with enrollment at the start of the term. If you restrict those workers to the ID Works project for enrolling students, they will not be able to access other ID Works projects, such as the one for making faculty IDs.

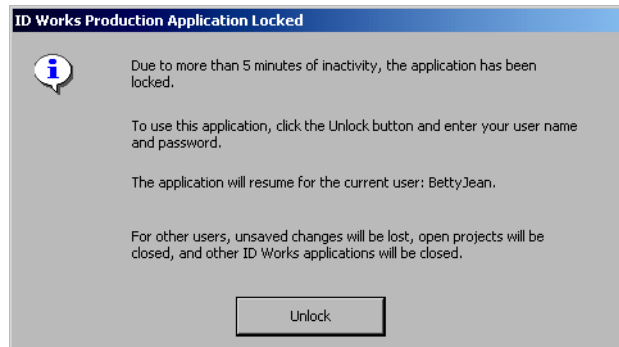
There can be more than one user with System Administrator privileges, and there must be at least one user with System Administrator privileges at all times. To ensure that you do not delete the last System Administrator, you cannot delete your own user account.

Requiring Login after Inactivity

Because the Production application is used to modify a database and print cards, you may want to require that the user log in again after a period of inactivity. This would help prevent unauthorized users from printing cards or starting another ID Works application when a Production operator forgets to log out before leaving the workstation unattended.

You can set the length of the inactivity period from 5 to 30 minutes in 5-minute increments. See the Administrator online help topic, "Configure Automatic Production Log Off" for step-by-step instructions.

When the specified amount of time has elapsed without Production application activity, a dialog box similar to the following appears.



When the user clicks **Unlock**, the User Login dialog box appears for the user to enter a user name and password.

Tracking Activity with the Audit Log

ID Works software maintains a separate record on each computer of the following activities:

Administrator application

- Change the number of audit log entries

Designer application

- Open a project
- Save a project
- Save a project under a different name
- Create a database for a project
- Add columns (fields) to a database
- Delete a card
- Delete the Production Form
- Print a sample card

Import/Export

- Import a project
- Export a project

Production application

- Open a project
- Total cards printed per project
- Save a stored search
- Save a stored search with a different name
- Delete a stored search

- Delete all selected records
- Update all selected records

Reporting application

- Open a project
- Total reports printed per project
- Save a stored search
- Save a stored search with a different name
- Delete a stored search

Security

- Add a user account
- Delete a user account
- Log in to an ID Works application (when no other ID Works application was running)
- Log out of the last ID Works application running
- Unsuccessful login attempt

View Application

- Open a project
- Total reports printed per project
- Save a stored search
- Save a stored search with a different name

In addition to these system activities, the designer of an ID Works project can specify that an entry be written to the audit log every time a Production operator saves changes to the content of a certain field to the database. You do this by selecting the **Write to Log** Field Option on the **General** tab of the Edit Field Properties dialog box. For example, to log that a record was added to the database, select **Write to Log** for the Employee Number field in the Production Form.

If **Write to Log** is selected for any field in the Production Form, printing a card is also recorded in the audit log. Note, however, that if the card fails to print or encode, the audit log entry is not removed.

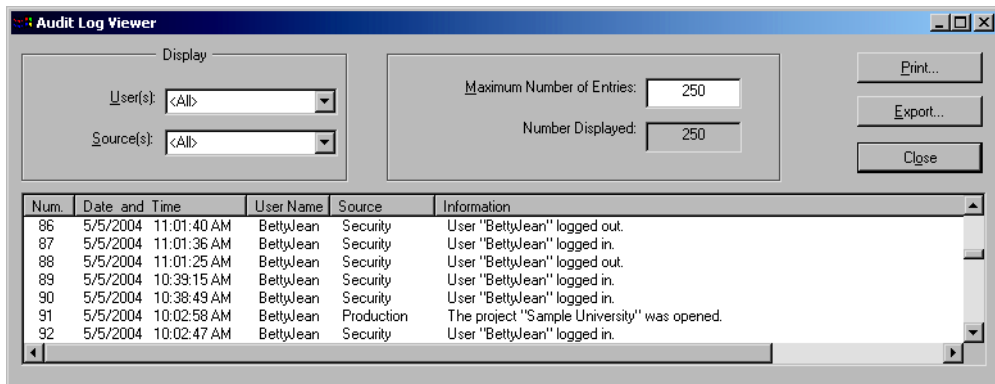
Similarly, if **Write to Log** is selected for any field in the Production Form, deleting a record from the database is recorded in the audit log. If more than one field has **Write to Log** selected, an audit log entry is created for each field having the **Write to Log** property set. If **Delete All** is used to delete records, a summary audit log entry will be written in addition to each field-level entry. The summary entry will appear after the individual log entries.

If **Delete All** is used to delete records or if **Update All** is used to update records but no Production Form field has **Write to Log** selected, a summary audit log entry will be written.

Text fields, date fields, list fields, print count fields, and auto sequence fields can be logged.

Viewing the Audit Log

Because the audit log is an encrypted file, the only way to view it is by using the ID Works Administrator application. If your ID Works user name has audit log viewing privileges, you can examine and print the audit log. From the ID Works Administrator application menu bar select **System** and then **View Audit Log**. The Audit Log Viewer dialog box opens.



You can choose to display audit log entries for all users or for a single user by making a selection from the User(s) list in the Display area of the Audit Log Viewer dialog box. Similarly, you can limit the sources for the entries displayed to a single source by selecting from the Source(s) list. Changing the selection in the User(s) and Source(s) lists does not remove log entries; you can see all entries again by returning the User(s) and Source(s) list selections to **<All>**.

You can select the maximum number of entries in the audit log by entering a number between 24 and 10000 in the Maximum Number of Entries field. The number of entries currently in the audit log appears in the Number Displayed field. When the maximum number of entries has been reached, the oldest entry drops off.

You can sort the entries in the audit log on any column by clicking the column heading. Click the column heading again to reverse the sort order.

To print the audit log, click the **Print** button on the Audit Log Viewer dialog box. The Audit Log Report dialog box lets you specify the information that will appear on each page of the report as well as the appearance of the information on the page.

Exporting the Audit Log

You can export audit log entries for archiving or for detailed analysis in another program, such as Microsoft Excel. When you click the **Export** button, the audit log entries matching the current display filter are saved in a tab-delimited text file. For example, if **Production** is selected for Sources in the Display area of the Audit Log Viewer dialog box, only events from the Production application will be displayed and exported. The Export log to file dialog box lets you select the location and file name for the exported file. See the online help topic “Export the audit log” for step-by-step instructions.

Windows Security Features

ID Works software uses features of the Windows 2000 Professional, or Windows XP operating system to enhance the security of your identification system.

Each user of a Windows 2000 or Windows XP workstation or network must have a Windows user account. You can use the privileges associated with those accounts to restrict users to read-only access to ID Works project files.

Installing and Uninstalling ID Works Software

You must be logged in to the Windows operating system using a user name with System Administrator privileges to install or uninstall ID Works software. This helps prevent accidental deletion of the software.

Locating Project Files

By default, ID Works project files are located in the C:\Program Files\Datacard\ID Works\Projects directory, although you can select a different location for the ID Works directory (and consequently the Projects subdirectory) during installation. You can move project files after installation, perhaps placing them on a server, where they can be accessed by as many ID Works computers as you have in your system. Placing project files on a server simplifies the process of updating projects that are used on multiple computers.

You use the ID Works Administrator application to change the location of project files after installation. See the online help topic “Set the system paths” for step-by-step instructions.

- i** The **Set System Paths** utility only changes the location of projects you create after using the utility; it does not move previously created projects. You can move previously created projects using Windows Explorer or by exporting them to the new location using the Export and Import tools in ID Works Administrator. See the online help topics “Export a project” and “Import a project” for step-by-step instructions.

Protecting Project Files from Modification

Whether you locate your project files on a server or on local hard drives, you can protect them from modification by setting the “Read-only” attribute in the file’s Properties dialog box. You can then allow read-only access to users through their Windows user accounts.

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Datacard Smart Driver and ImageCard Printer and Magnetic Stripe Plug-ins

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Introduction to this Guide

This document explains how to use the Datacard® Smart Driver Printer and Magnetic Stripe Plug-in with ID Works® identification software. It explains two sets of plug-ins:

- The Datacard Smart Driver Printer Plug-in and Datacard Smart Driver Magnetic Stripe Plug-in, recommended for use with any printer that uses the Datacard Smart Driver printer driver
- The DataCard ImageCard® Select/IV Plug-in and Datacard Select/IV Magnetic Stripe Plug-in, for use with SP35, Select™ Class, Magna™ Class, Magna™ Platinum™ Series, Express™ Class, Select™ Class with Advanced Imaging Technology™, Select™ Platinum™ Series, and Magna™ Class with Advanced Imaging Technology™ printers

i The DataCard ImageCard Select/IV plug-ins are provided in this release for the convenience of customers who have existing ID Works identification software projects configured to use them. If you are creating a new ID Works project, you should use the Smart Driver plug-ins.

What is a Plug-in?

A plug-in is a software module that provides an interface between the main ID Works applications and a peripheral device (such as a card printer) or between the peripheral device and a component within the device (such as an encoder for magnetic stripes).



The printer plug-in connects to the ID Works application and the magnetic stripe plug-in connects to the printer plug-in.

You can create and save multiple configurations for the ID Works Basic. A configuration is a group of settings tailored to the way you use the device. For each configuration, you can specify certain options to suit your needs.

Assigning Printer Plug-ins

You specify associations between available printer plug-ins and installed printers by using the Assign Printer Plug-in utility in the ID Works Administrator application. See the online help topic “Assign printer plug-ins” for step-by-step instructions.

If the printer driver was installed on the computer before the ID Works software was installed, the assignment is made automatically. Printer plug-ins must be assigned on each computer that prints cards with your ID Works project.

Printing Multiple Copies of Cards

When a Production operator specifies that two or more copies of a card be printed, the exact method of fulfilling the request depends on the features included on the card.

If the card requires neither smart card encoding nor card completion status (a Software Development Kit feature), the plug-in will send the number of copies specified to the printer driver and will create a single print job.

If the card has a smart card chip, the ID Works software will create one print job for each copy of each card.

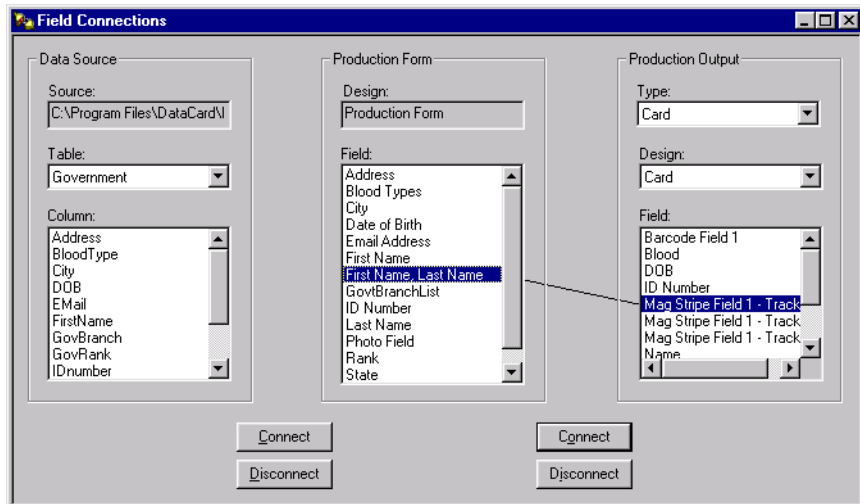
If the request includes card completion status, the plug-in will display an error message and stop the print job. To print multiple copies of a card with card completion status, submit multiple requests, each with a card quantity of 1.

Designing an ID Works Project to Encode Magnetic Stripes

Follow these steps to design an ID Works project that includes magnetic stripe encoding:

- 1 On your Production Form, insert a field for each magnetic stripe track you want to encode. To combine information from two or more fields on a track, create a composite field. See the online help topic “Add a composite field to a Production Form” for step-by-step instructions.

- In your Card design, insert a magnetic stripe field. See the online help topic “Add a magnetic stripe field to a card” for step-by-step instructions.
- Double-click on the magnetic stripe field. The Edit Field Properties [Magnetic Stripe] dialog box opens.
- On the **Encoding** tab, select **Datacard Smart Driver Magnetic Stripe Plug-in** or **Datacard Select/IV Magnetic Stripe Plug-in** in the Device list.
- Also on the **Encoding** tab, select an encoder Configuration. See “Creating a New Encoder Configuration” on page 4 or “Changing an Encoder Configuration” on page 6.
- Click **OK**. The Edit Field Properties [Magnetic Stripe] dialog box closes.
- Using the Field Connector, connect Production Form fields to the appropriate tracks in the Production Output area. See the online help topic “Connect fields” for step-by-step instructions.



- Print a test card for your project using the ID Works Production application.

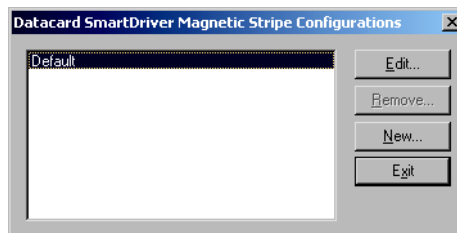
i Test cards printed in the ID Works Designer application are not encoded.

Creating a New Encoder Configuration

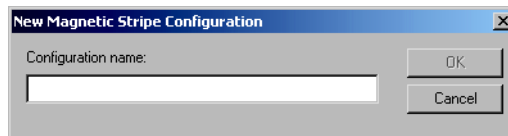
- i** To create a new configuration by copying an existing configuration, see Changing an Encoder Configuration.

Follow these steps to create a new encoder configuration:

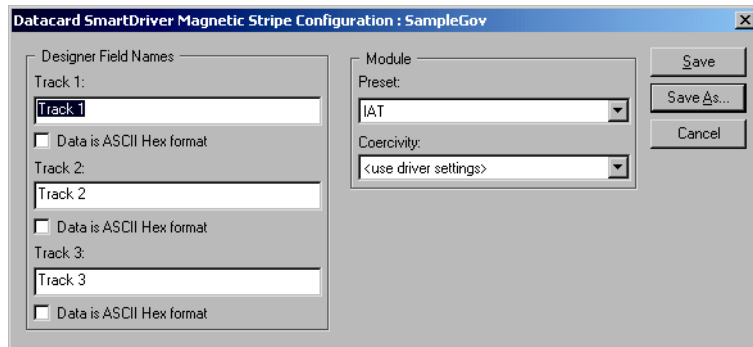
- 1 Open or create an ID Works project that has a Card design with a magnetic stripe field.
- 2 Select the magnetic stripe field and open the Edit Field Properties [Magnetic Stripe] dialog box. See the online help topic “Add a magnetic stripe field to a card” for step-by-step instructions.
- 3 On the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box, select **Datacard Smart Driver Magnetic Stripe Plug-in** or **Datacard Select/IV Magnetic Stripe Plug-in** in the Device list.
- 4 Click the **Edit Configurations** button. The Datacard Smart Driver Magnetic Stripe Configurations dialog box opens (if using the Datacard Select/IV Magnetic Stripe Plug-in, dialog box titles will be different).



- 5 Click the **New** button. The New Magnetic Stripe Configuration dialog box opens.



- 6 Type a name and click **OK**. The Datacard Smart Driver Magnetic Stripe Configuration : [name] dialog box opens.

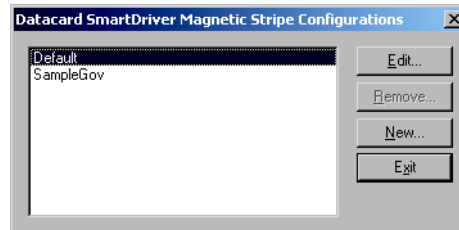


- i** It may be helpful to give the configuration the same name as the ID Works project that will use it.
- 7 (Optional) In the Designer Field Names area, change the track names from the default values (Track 1, Track 2, Track 3) to the names of the Production Form fields that will supply data for the tracks.
- 8 If data for any of the tracks will be received in ASCII hexadecimal format, select the checkbox below that track.
- 9 In the Module area, select the type of encoding required by the equipment that will read the cards.
- 10 If necessary, select the Coercivity setting appropriate for the card stock that will be used.
- i** If you select a specific coercivity, this setting will override the coercivity setting in the printer driver.
- 11 Click **Save**. The Datacard Smart Driver Magnetic Stripe Configuration : [name] dialog box closes. Click **Exit**. The Datacard Smart Driver Magnetic Stripe Configurations dialog box closes.

Changing an Encoder Configuration

Follow these steps to change an encoder configuration:

- 1 Open or create an ID Works project that has a Card design with a magnetic stripe field.
- 2 Select the magnetic stripe field and open the Edit Field Properties [Magnetic Stripe] dialog box. See the online help topic “Add a magnetic stripe field to a card” for step-by-step instructions.
- 3 On the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box, select **Datacard Smart Driver Magnetic Stripe Plug-in** or **Datacard Select/IV Magnetic Stripe Plug-in** in the Device list.
- 4 Click the **Edit Configurations** button. The Datacard Smart Driver Magnetic Stripe Configurations dialog box opens (if using the DataCard Select/IV Magnetic Stripe Plug-in, dialog box titles will be different).



- 5 Select the Configuration you want to change and click **Edit**. The Datacard Smart Driver Magnetic Stripe Configuration : [name] dialog box opens.
- 6 Make the necessary changes.
- 7 Click **Save** to save your changes with the current configuration name. The Datacard Smart Driver Magnetic Stripe Configuration : [name] dialog box closes.

– or –

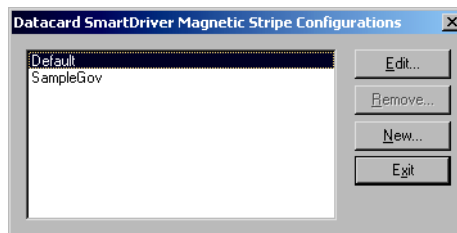
Click **Save As** to save your changes under a new configuration name without changing the original configuration. The Save Configuration as dialog box opens. Type a configuration name and click **OK**.

- 8 Click **Exit** to close the Datacard Smart Driver Magnetic Stripe Configurations dialog box. Click **OK** to close the Edit Field Properties [Magnetic Stripe] dialog box.

Deleting an Encoder Configuration

Follow these steps to delete an encoder configuration:

- 1 Open an ID Works project that has a Card design with a magnetic stripe field.
- 2 Select the magnetic stripe field and open the Edit Field Properties [Magnetic Stripe] dialog box. See the online help topic “Add a magnetic stripe field to a card” for step-by-step instructions.
- 3 On the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box, select **Datacard Smart Driver Magnetic Stripe Plug-in** or **Datacard Select/IV Magnetic Stripe Plug-in** in the Device list.
- 4 Click the **Edit Configurations** button. The Datacard Smart Driver Magnetic Stripe Configurations dialog box opens (if using the DataCard Select/IV Magnetic Stripe Plug-in, dialog box titles will be different).



- 5 Select the Configuration you want to delete and click **Remove**. A confirmation dialog box opens.
- 6 Click **Yes** to remove the configuration. Click **Exit** to close the Datacard Smart Driver Magnetic Stripe Configurations dialog box and then click **OK** to close the Edit Field Properties [Magnetic Stripe] dialog box.

Distributing Encoder Configurations

The magnetic stripe plug-ins store configurations in the ID Works\bin directory in a file named SmartDriverMagStripe.INI or ICEMagStripeCfg.INI. The default location for the ID Works\bin directory is in C:\Program Files\Datacard\ID Works\bin, but the ID Works installation program gave you the option to install the ID Works files to a different location. Search for the file in Windows Explorer if you do not know its location.

Because configurations are not stored with ID Works projects, the Export utility in ID Works Administrator does not include any encoder configurations you may have changed or created for your card designs. If you will distribute your ID Works project to other computers in your system, you must ensure that the encoder configurations are available on those computers. There are two ways to accomplish this:

- Recreate the encoder configurations on each computer in your system (requires a copy of ID Works Designer on each computer).
- Distribute the .INI file by copying it (using Windows Explorer) from the computer on which it was created to the other computers in your system.



**Datacard 150*i* and 275/280P/295
Card Personalization Systems:
Guide for Use with
ID Works Software**

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Introduction to this Guide

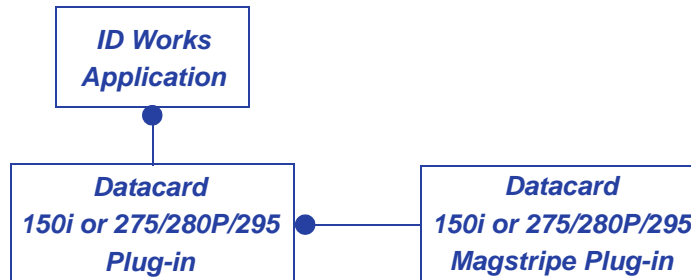
This document explains how to use the Datacard® 150i or 275/280P/295 Card Personalization System with ID Works® identification software. It explains two sets of plug-ins:

- The Datacard 150i Plug-in and the Datacard 150i Magstripe Plug-in, for use with the Datacard 150i Card Personalization System
- The Datacard 275/280P/295 Plug-in and the Datacard 275/280P/295 Magstripe Plug-in for use with the Datacard 2xx Card Personalization Systems

This document gives background information about how ID Works applications use plug-ins to translate card designs into language the Card Personalization System can understand and use. It also explains how ID Works features relate to features in your Card Personalization System, as well as which ID Works features cannot be used with your System. Finally, this document lists the steps you must take to ensure that the ID Works applications produce the correct results on the System.

What is a Plug-in?

A plug-in is a software module that provides an interface between the main ID Works applications and a peripheral device (such as a card printer) or between the peripheral device and a component within the device (such as an encoder for magnetic stripes). The Datacard 150i or 275/280P/295 Plug-in connects to the ID Works application, and the Datacard 150i or 275/280P/295 Magstripe Plug-in connects to the printer plug-in.



You can create and save multiple configurations for the Card Personalization System. A configuration is a group of settings tailored to the way you use the device. For each configuration, you can specify certain options to suit your needs.

In addition to using the 150i or 275/280P/295 plug-ins, you can use the generic printer plug-in with your Card Personalization System. The 150i and 275/280P/295 plug-ins, however, provide the following advantages:

- The ID Works magnetic stripe field is supported; there is no need for magnetic stripe fonts.
- Topping for embossed text can be controlled by the ID Works card design.
- Card completion status is available for Software Development Kit users.
- The ability to do smart card personalization.

Assigning Printer Plug-ins

You specify associations between available printer plug-ins and installed printers by using the Assign Printer Plug-in utility in the ID Works Administrator application. See the online help topic “Assign printer plug-ins” for step-by-step instructions.

If the printer driver was installed on the computer before the ID Works software was installed, the assignment is made automatically. Printer plug-ins must be assigned on each computer that prints cards with your ID Works project.

Printing Multiple Copies of Cards

When a Production operator specifies that two or more copies of a card be printed, the 150i or 275/280P/295 plug-in creates a separate print job for each copy. If the multiple copy request includes using card completion status (a Software Development Kit feature), the plug-in will display an error message and stop the print job. To print multiple copies of a card with card completion status, submit multiple requests, each with a card quantity of 1.

Project Design Considerations

✓ Print sample cards from the Designer application to your 150i or 275/280P/295 System to ensure that your card design will work in ID Works Production.

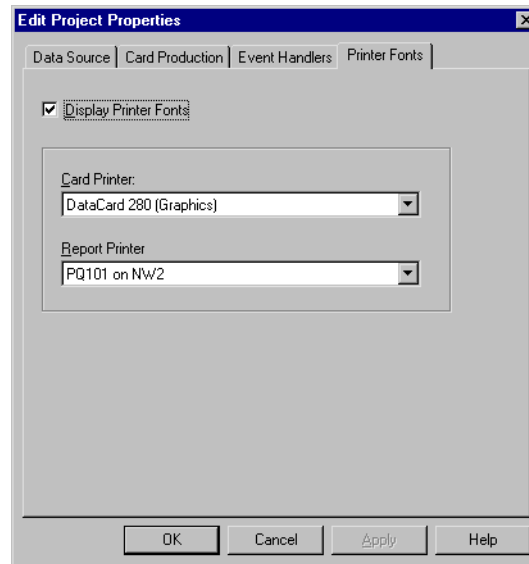
ID Works Designer includes features that cannot be used with the Card Personalization System. The Designer application does not know what kind of output device you will use, so it cannot give feedback at design time to tell you that you are using a feature that your System does not support. Furthermore, the options installed in your Card Personalization System also affect which ID Works features you can use. This section explains which ID Works features you should avoid in your card designs.

Conversely, the Card Personalization System has features that other card printers do not, and those features unique to the Card Personalization System require special procedures in ID Works Designer. This section also explains how to implement special Card Personalization System features in your ID Works projects.

Project Properties

You must specify that you want to use embossing, indent, or magnetic stripe fonts resident in the Card Personalization System. Follow these steps:

- 1 Open the Edit Project Properties dialog box. (See the Designer online help topic, “Access the Edit Project Properties dialog box”.)
- 2 On the Printer Fonts tab, select **Display Printer Fonts** and then select your Card Personalization System as the Card Printer.



- 3 Click **OK**. The Edit Project Properties dialog box closes.

Card Design Properties

You change properties of the overall card design using the Edit Card Design Properties dialog box. (See the Designer online help topic, "Access the Edit Card Design Properties dialog box".)

Card Size

CR80 is the only card size supported by the Datacard 150i and 275/280P/295 Plug-ins.

To use CR50 or custom card sizes with the Datacard 275/280P/295 Card Personalization System, use the generic printer plug-in and printer fonts for magnetic stripe encoding. Smart card encoding is not available when using the generic printer plug-in. (See the Designer online help topic, "Change card size".)

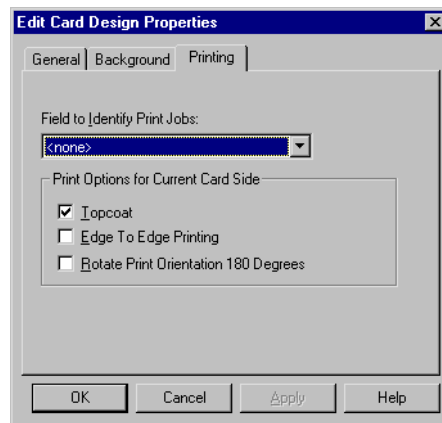
Card Background

Because the 150i System does not support graphics, any background specified in your card design will be ignored.

For the 275/280P/295 System, do not use a colored card background. You can use single-color graphics if the UltraGrafix® module is part of your System.

Field to Identify Print Jobs

Because the Datacard 150i and 275/280P/295 plug-ins bypass the Windows print spooler, any field selected to identify print jobs is ignored.



See “Job Tracking” on page 17 for more information.

Topcoat

When used with a Card Personalization System, the **Topcoat** setting on the **Printing** tab of the Edit Card Design Properties dialog box indicates that all embossed text will have topping foil applied if your System includes the topper module. Topping makes embossed text easier to read.

Because embossed text must be on the front side of the card, the **Topcoat** setting for the back side of the card is ignored.

Edge To Edge Printing

Because the 150i System does not support graphics, **Edge To Edge Printing**, if selected, will be ignored.

Do not attempt to use edge-to-edge printing on a 275/280P/295 System, either by supplying a background graphic that covers the entire card or by placing fields closer than 0.1 inch (2.5 mm) from any edge of the card.

Rotate Print Orientation 180 Degrees

Because the emboss and indent fonts can operate in only one orientation, this selection is not supported. If your 275/280P/295 System includes the UltraGrafix option, you can rotate graphics fields and text fields that use TrueType or OpenType fonts on a field-by-field basis.

Portrait Orientation

Because the emboss and indent fonts can operate only in landscape orientation, this selection is not supported. If your 275/280P/295 System includes the UltraGrafix option, you can rotate graphics fields and text fields that use TrueType or OpenType fonts on a field-by-field basis to achieve a portrait effect.

Back Side of Card

See the Designer online help topic, "Create a two-sided card". The only types of fields that are allowed on the back side of a card are:

- Magnetic Stripe — used with the Datacard 150i or 275/280P/295 Magstripe Plug-in to encode magnetic stripes. The Card Personalization System does not need to have magnetic stripe fonts installed. If your card design includes a magnetic stripe field, it cannot use magnetic stripe fonts.
- Text that specifies an indent font installed in the System.
- **i** For convenience in positioning a text field using an indent font, you can place a Non-Printable Area on the back side of a card and then position the text field on top of the non-printable area.
- Text — up to three fields that specify a magnetic stripe font installed in the System. If your card design includes text fields that specify a magnetic stripe font, it cannot use an ID Works

magnetic stripe field. The ID Works magnetic stripe field is the recommended method for encoding magnetic stripes.

Card Fields

You change properties of the individual fields on the card design using the Edit Field Properties dialog box. (See the Designer online help topic, "Access the Edit Field Properties dialog box".)

Text and Date Fields

If your 275/280P/295 System includes the UltraGrafix option, you can specify TrueType or OpenType fonts for text and date fields. They will behave as described in the ID Works *Administrator's Guide* with the following exceptions:

- The **Topcoat** setting is ignored. See "[Topcoat](#)" on page 5.
- Datacard recommends using the default values for Foreground Color and Background Color.
- The **Use K-Panel if available** setting is ignored.

If your System includes embossing fonts, you can use them for text and date fields with the following limitations:

- Embossing fonts can be used only on the front side of the card.
- On the 150i System, if topping foil is to be applied to the embossed text, the field must be located in the lower half of the card. In addition:
 - The Left position of the field must be 0.238 inch (6 mm) or greater.
 - The sum of the Left and Width values must be 3.137 inches (79 mm) or less.
 - For a 7 cpi font, the Top position must be between 1.188 and 1.859 inches (30 and 47 mm).
 - For a 10 cpi font, the Top position must be between 1.188 and 1.922 inches (30 and 49 mm).
- The **Alignment** setting is ignored. All text is left-justified.
- The **Rotation**, **Topcoat**, **Automatically Adjust Font Size**, and foreground and background color settings are ignored.

If your System includes indent fonts, you can use them for text and date fields with the following limitations:

- On the 275/280P/295 Systems, indent fonts can be used only on the back side of the card.
- The **Alignment** setting is ignored. All text is left-justified.
- The **Rotation**, **Topcoat**, **Automatically Adjust Font Size**, and foreground and background color settings are ignored.

Static Text Fields

If your 275/280P/295 System includes the UltraGrafix option, you can specify TrueType or OpenType fonts for static text fields. They will behave as described in the ID Works *Administrator's Guide* with the following exceptions:

- The **Topcoat** setting is ignored. See "[Topcoat](#)" on page 5.
- Datacard recommends using the default values for Foreground Color and Background Color.
- The **Use K-Panel if available** setting is ignored.

If your System includes embossing fonts, you can use them for static text fields with the following limitations:

- Embossing fonts can be used only on the front side of the card.
- On the 150i System, if topping foil is to be applied to the embossed text, the field must be located in the lower half of the card. In addition:
 - The Left position of the field must be 0.238 inch (6 mm) or greater.
 - The sum of the Left and Width values must be 3.137 inches (79 mm) or less.
 - For a 7 cpi font, the Top position must be between 1.188 and 1.859 inches (30 and 47 mm).
 - For a 10 cpi font, the Top position must be between 1.188 and 1.922 inches (30 and 49 mm).
- The **Alignment** setting is ignored. All text is left-justified.

- **Word Wrap** is ignored. A static text field that uses embossing fonts can be only one line. Use multiple static text fields for multiple lines of text.
- The **Rotation, Topcoat, Automatically Adjust Font Size**, and foreground and background color settings are ignored.

If your System includes indent fonts, you can use them for static text fields with the following limitations:

- On the 275/280P/295 Systems, indent fonts can be used on only the back side of the card.
- The **Alignment** setting is ignored. All text is left-justified.
- **Word Wrap** is ignored. A static text field that uses indent fonts can be only one line. Use multiple static text fields for multiple lines of text.
- The **Rotation, Topcoat, Automatically Adjust Font Size**, and foreground and background color settings are ignored.

Barcode, Static Graphic, and Variable Graphic Fields

Because the 150*i* System does not support graphics, these fields will be ignored.

If your 275/280P/295 System includes the UltraGrafix option, these fields will behave as described in the ID Works *Administrator's Guide* with the following exceptions:

- The field must be on the front side of the card design.
- The **Topcoat** setting is ignored. See "[Topcoat](#)" on page 5.
- Background Color for a barcode field is not supported.
- If you use Interpretation Text options for a barcode field, you must select an OpenType or TrueType font for the text.

Photo Fields

Because the 150i System does not support graphics, photo fields will be ignored.

If your 275/280P/295 System includes the UltraGrafix option, photo fields will behave as described in the ID Works *Administrator's Guide* with the following exceptions:

- The field must be on the front side of the card design.
- The **Topcoat** setting is ignored. See [“Topcoat” on page 5](#).
- Datacard recommends that any border used be black.
- Ghosted photos are not supported.
- Datacard recommends that the Configure K-Panel Printing utility in the ID Works Administrator application not be used with the Card Personalization System. The Datacard 275/280P/295 Plug-in automatically optimizes graphics for printing with a one-color ribbon.

Magnetic Stripe Fields

If your 275/280P/295 System includes a magnetic stripe option (all 150i Systems have magnetic stripe capability), ID Works magnetic stripe fields will behave as described in the ID Works *Administrator's Guide* with the following exception:

- The field should be on the back side of the card design.

See [“Designing an ID Works Project to Encode Magnetic Stripes” on page 11](#) for complete information.

Embossing/Indent Limitation

On the 275/280P/295 Systems, you can use up to 11 fields that, combined, use embossing fonts and indent fonts.

Graphic Size Limitation

When the Datacard 275/280P/295 Plug-in prepares data for a 275/280P/295 System with the UltraGrafix option, it combines all the information that will be printed with the UltraGrafix option into a composite graphics file. This includes background graphics, static

graphics, variable graphics, barcodes, photos, and text and date fields that use TrueType or OpenType fonts.

The 275/280P/295 System can accept a graphics file of 60 KB or less. Graphics files that are too large produce an error at print time. The only way to tell whether the composite graphics file will be under the size limit is to print sample cards from the Designer application. See the Designer online help topic, "Print a sample card".

If your card design contains variable graphics or a photo field, print samples from the Production application using a variety of photos and all possible graphic elements. If any of your sample cards produces an error message, consider simplifying your card design.

Using the Datacard 150i or 275/280P/295 Magstripe Plug-in

This section gives step-by-step instructions for using the Datacard 150i or 275/280P/295 Magstripe Plug-in to encode magnetic stripes on plastic cards.

- ❗ It is possible to encode magnetic stripes without a Datacard Magstripe Plug-in by using magnetic stripe fonts, but Datacard recommends using the plug-in that was developed for your Card Personalization System. If you will encode smart card chips using a smart card plug-in and encode a magnetic stripe on the same card, you *must* use the appropriate Datacard Magstripe Plug-in.

Designing an ID Works Project to Encode Magnetic Stripes

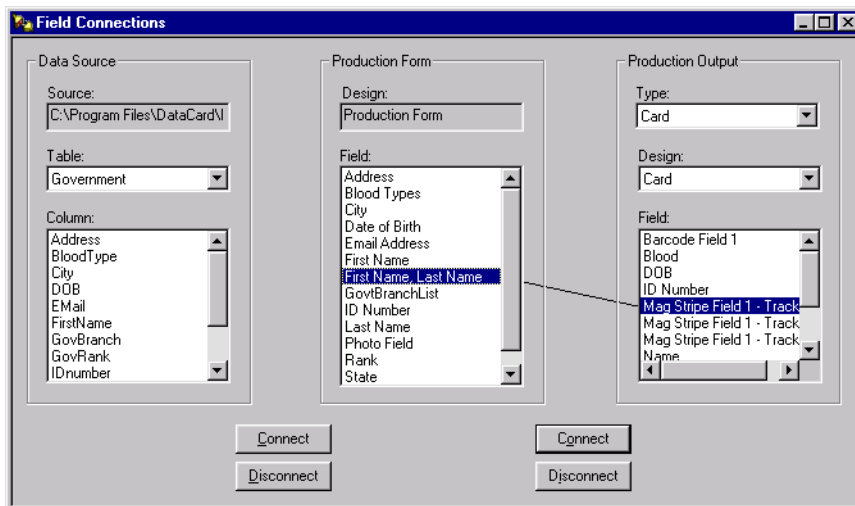
Follow these steps to design an ID Works project that includes magnetic stripe encoding:

- 1 On your Production Form, insert a field for each magnetic stripe track you want to encode. To combine information from two or more fields on a track, create a composite field. See the Designer online help topic "Add a composite field to a Production Form" for step-by-step instructions.

- ❗ The Datacard Magstripe Plug-ins add the necessary start sentinels before sending data to the encoding module.

Consider using masks on the text fields connected to magnetic stripe tracks to ensure that only valid characters will be entered. See “Text Field Masks” in chapter 3 of the ID Works *Administrator’s Guide*.

- 2 In your Card design, insert a magnetic stripe field on the back side of your card. See the Designer online help topic “Add a magnetic stripe field to a card” for step-by-step instructions.
- 3 Double-click on the magnetic stripe field. The Edit Field Properties [Magnetic Stripe] dialog box opens.
- 4 On the **Encoding** tab, select **Datacard 150i Magstripe Plug-in** or **Datacard 275/280P/295 Magstripe Plug-in** in the Device list.
- 5 Also on the **Encoding** tab, select an encoder configuration. See “Creating a New Magnetic Stripe Encoder Configuration” on page 13 or “Changing a Magnetic Stripe Encoder Configuration” on page 15.
- 6 Click **OK**. The Edit Field Properties [Magnetic Stripe] dialog box closes.
- 7 Using the Field Connector, connect Production Form fields to the appropriate tracks in the Production Output area. See the Designer online help topic “Connect fields” for step-by-step instructions.



- 8 Print and encode a test card for your project using the ID Works Production application.
- i** Sample cards printed in the ID Works Designer application are not encoded.
- 9 Verify that the card can be read in a magnetic stripe reader.

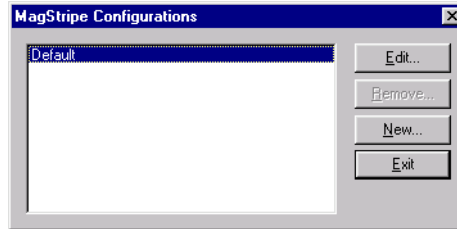
Creating a New Magnetic Stripe Encoder Configuration

- i** To create a new configuration by copying an existing configuration, see [“Changing a Magnetic Stripe Encoder Configuration”](#) on page 15.

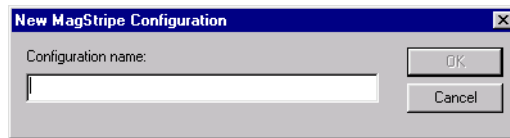
Follow these steps to create a new encoder configuration:

- 1 Open or create an ID Works project that has a Card design with a magnetic stripe field.
- 2 Select the magnetic stripe field and open the Edit Field Properties [Magnetic Stripe] dialog box. See the Designer online help topic [“Add a magnetic stripe field to a card”](#) for step-by-step instructions.

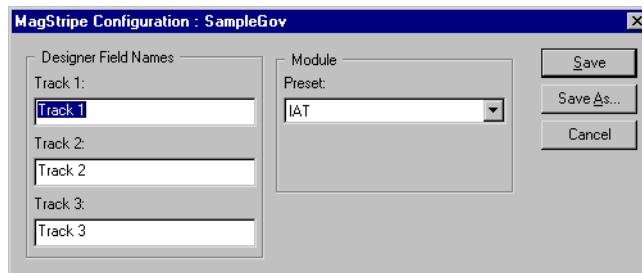
- 3 On the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box, select **Datacard 150i Magstripe Plug-in** or **Datacard 275/280P/295 Magstripe Plug-in** in the Device list.
- 4 Click the **Edit Configurations** button. The MagStripe Configurations dialog box opens.



- 5 Click the **New** button. The New MagStripe Configuration dialog box opens.



- 6 Type a name and click **OK**. The MagStripe Configuration : [name] dialog box opens.



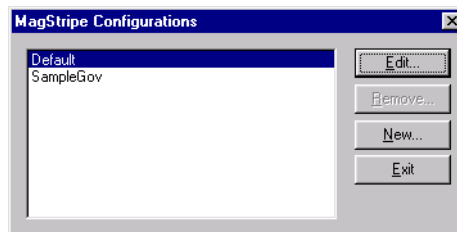
- i** It may be helpful to give the configuration the same name as the ID Works project that will use it.
- 7 (Optional) In the Designer Field Names area, change the track names from the default values (Track 1, Track 2, Track 3) to the names of the Production Form fields that will supply data for the tracks.

- i** In the Module area, the only type of encoding available is IAT.
- 8 Click **Save**. The MagStripe Configuration : [name] dialog box closes. Click **Exit**. The MagStripe Configurations dialog box closes.
- 9 Click **OK** to close the Edit Field Properties [Magnetic Stripe] dialog box.

Changing a Magnetic Stripe Encoder Configuration

Follow these steps to change an encoder configuration:

- 1 Open or create an ID Works project that has a Card design with a magnetic stripe field.
- 2 Select the magnetic stripe field and open the Edit Field Properties [Magnetic Stripe] dialog box. See the Designer online help topic "Add a magnetic stripe field to a card" for step-by-step instructions.
- 3 On the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box, select **Datacard 150i Magstripe Plug-in** or **Datacard 275/280P/295 Magstripe Plug-in** in the Device list.
- 4 Click the **Edit Configurations** button. The MagStripe Configurations dialog box opens.



- 5 Select the configuration you want to change and click **Edit**. The MagStripe Configuration : [name] dialog box opens.
- 6 Make the necessary changes.
- 7 Click **Save** to save your changes with the current configuration name. The MagStripe Configuration : [name] dialog box closes.

– or –

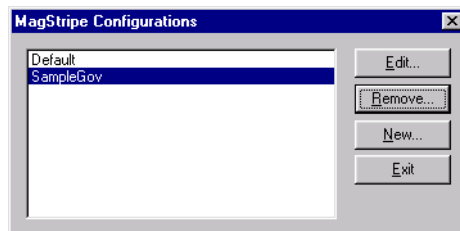
Click **Save As** to save your changes under a new configuration name without changing the original configuration. The Save Configuration as dialog box opens. Type a configuration name and click **OK**.

- 8 Click **Exit** to close the MagStripe Configurations dialog box.
- 9 Click **OK** to close the Edit Field Properties [Magnetic Stripe] dialog box.

Deleting a Magnetic Stripe Encoder Configuration

Follow these steps to delete an encoder configuration:

- 1 Open an ID Works project that has a Card design with a magnetic stripe field.
- 2 Select the magnetic stripe field and open the Edit Field Properties [Magnetic Stripe] dialog box. See the Designer online help topic “Add a magnetic stripe field to a card” for step-by-step instructions.
- 3 On the **Encoding** tab of the Edit Field Properties [Magnetic Stripe] dialog box, select **Datacard 150i Magstripe Plug-in** or **Datacard 275/280P/295 Magstripe Plug-in** in the Device list.
- 4 Click the **Edit Configurations** button. The MagStripe Configurations dialog box opens.



- 5 Select the configuration you want to delete and click **Remove**. A confirmation dialog box opens.
- 6 Click **Yes** to remove the configuration. Click **Exit** to close the MagStripe Configurations dialog box and then click **OK** to close the Edit Field Properties [Magnetic Stripe] dialog box.

Distributing Encoder Configurations

The Datacard 150i and 275/280P/295 Magstripe Plug-ins store configurations in the ID Works\bin directory in a file named DCC295MagStripe.INI or DCC150iMagStripe.INI. The default location for the ID Works\bin directory is in C:\Program Files\Datacard\ID Works\bin, but the ID Works installation program allows you to install the ID Works files to a different location. Search for the file in Windows Explorer if you do not know its location.

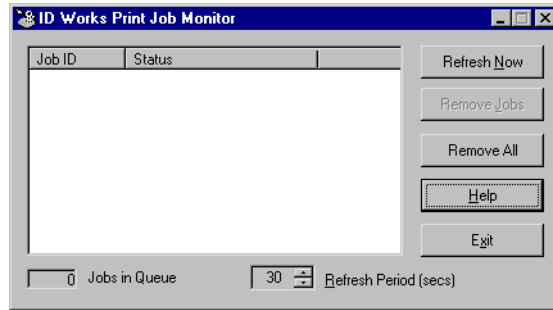
Because configurations are not stored with ID Works projects, the Export utility in ID Works Administrator does not include any encoder configurations you may have changed or created for your card designs. If you will distribute your ID Works project to other computers in your system, you must ensure that the encoder configurations are available on those computers. There are two ways to accomplish this:

- Recreate the encoder configurations on each computer in your system (requires a copy of ID Works Designer on each computer).
- Distribute the .INI file by copying it (using Windows Explorer) from the computer on which it was created to the other computers in your system.

Job Tracking

Because the Datacard 150i and 275/280P/295 Magstripe Plug-ins bypass the Windows print spooler, the method described in the Production help topic, “Track card printing jobs” does not apply. The ID Works Print Job Monitor, automatically loaded with your ID Works software product, provides an alternate way of tracking jobs through the Card Personalization System.

To begin using the ID Works Print Job Monitor, from the Windows **Start** button select **Programs, Datacard, ID Works, Tools**, and then **Print Monitor**.



Click **Help** to see descriptions of the information provided by the Job Monitor and procedures for using it.

Troubleshooting

The interplay among the Windows® operating system, the ID Works software (including the Datacard plug-ins), the 150i or 275/280P/295 driver, and the physical 150i or 275/280P/295 System is complex. An incorrect setting in any component can result in unexpected results. This section lists some common symptoms and the steps you should take to remedy them.

Embossing/Indent/Magnetic Stripe Fonts Do Not Appear in the List of Fonts Available for Text Fields

First make sure you have specified that printer fonts are used in the project. See [“Project Properties” on page 3](#). Note that performing the last step of the procedure (clicking **OK**) is required. Closing the Edit Project Properties dialog box in any other way is not adequate, even if the Printer Fonts tab appears to have the correct settings when you enter it.

If the fonts still are not available, check that the fonts have been selected in the driver. See the *Installation and Technical Reference Manual* for your printer driver for information on selecting fonts in the printer driver.

Users Cannot Print to the 150*i* or 275/280P/295 System

Under the Windows 2000 operating system, a Datacard Card Personalization System cannot switch back and forth between printing from ID Works identification software applications and from non-ID Works applications.

The serial communication port to which the Card Personalization System is attached is locked by the operating system when the printer driver is installed. Only the printer driver has access to the port. Because the ID Works software cannot use the driver, it is prevented from communicating with the System. The printer driver can be redirected from the serial communication port that the Card Personalization System is attached to, allowing the ID Works software to access the serial port and communicate with the System. However, this redirection prevents sending information to the System from any other application. If you need to access the System from the ID Works software and from other applications, you will need to take the following steps before you change applications.

Preliminary Steps:

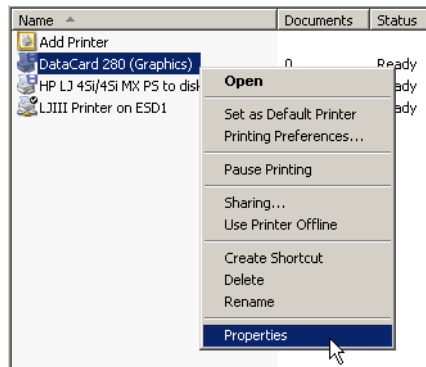
The following steps are needed to support using the Card Personalization System from ID Works applications.

- 1 Install and test the Card Personalization System and printer driver. (The steps needed to accomplish this are documented in the *Printer Driver for the Datacard 150i, 28x, and 450 Series Printers on Windows NT and 2000 Installation and Technical Reference Manual*, which came with your Card Personalization System.)
- 2 Install ID Works software and Datacard plug-ins.
- 3 Assign the appropriate plug-in to the System using the ID Works Administrator Assign Printer Plug-ins utility. See the Administrator online help topic, "Assign printer plug-ins".
- 4 Set the ID Works project properties to use printer fonts from the installed Card Personalization System. See "[Project Properties](#)" on page 3.
- 5 Attach the System to serial communication port 1.

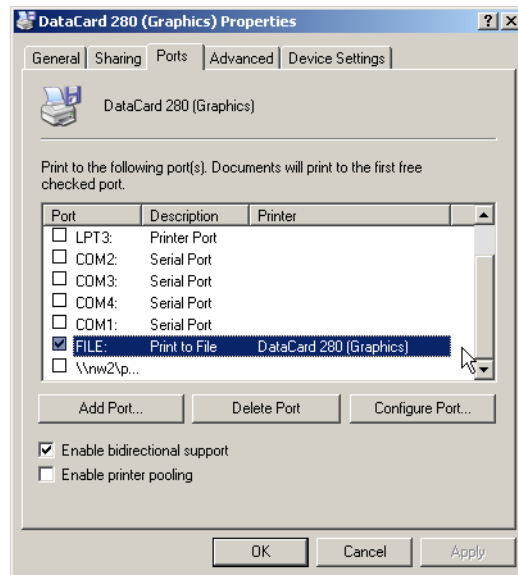
Freeing the Serial Communication Port for ID Works Printing:

The following steps remove the lock from the serial port, allowing ID Works applications to communicate with the System.

- 1 Open the Printers folder by clicking **Start**, then **Settings**, and then **Printers**.
- 2 Right-click the Card Personalization System in the list and select **Properties** from the menu. The screen will look something like the following:



- 3 On the **Ports** tab of the Properties dialog box, select **FILE**. You will see something similar to the following dialog box:



- 4 Click **OK**. The Properties dialog box closes.

- 5 Close the Printers folder.

The serial port is now free for use with ID Works applications.

**Reassigning the Serial Communication Port to the Printer
Driver:**

Before using a non-ID Works application with the Card Personalization System, redirect the printer driver to serial communication port 1. Refer to the instructions above for information on accessing the printer Properties dialog box.

**I Get “Limits Exceeded” Errors Printing Cards in ID
Works Production**

This error indicates that a text or graphics field extends too far to the right. Adjust your card design so that:

- The maximum number of characters in the text field does not extend too far to the right.
- (275/280P/295 System with UltraGrafix option only) All graphics (static graphics, variable graphics, and photos) are at least 0.1 inch (2.5 mm) from the right edge of the card.

Alternatively, ask your Datacard Service Representative to change the configuration of your 275/280P/295 System so that Check Card Limits Error is OFF. If you disable card limits checking, Datacard recommends that you use text field masking to ensure that instances of too much data are caught during input.



Using the ID Works Online Reference Library

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Welcome

Welcome to the Datacard® ID Works® identification software Online Reference Library. This library contains end-user documentation to help you understand, create, and use ID Works projects.

Some information included here may not apply to your environment. For example, if you do not encode magnetic stripes on your cards, you will not need to read the *Smart Driver and ImageCard® Printer and Magnetic Stripe Plug-ins* document.

Conversely, your system may include some equipment, such as a TWAIN-compliant camera, that Datacard does not manufacture or sell. Such equipment is not documented in this library. See the manufacturer's documentation for those products.

Why We Chose PDF

Documents are stored in this library using the Adobe® Acrobat® Portable Document Format, or PDF. Distributing product information as PDF files has several advantages:

- PDF offers you extensive search capabilities. A full-text index is available for every file in the library.
- You can use hypertext jumps to move about in a file you are reading on line.
- You can print the documents for reference or to read when you are away from your computer. If your printer can print on both sides of a piece of paper, the PDF documents you print will look just like a traditional hard copy manual.

Reading the Library Online

Online manuals contain the same information as paper manuals, but you use them a little differently:

- Instead of turning pages by hand, you use the mouse to “jump” to the page you want to read.
- To find a topic, you can browse a list of “bookmarks,” scan the table of contents, or perform a keyword search.
- When you find the information you need, you can either read it on your computer monitor or print it.

Getting Around

In an online manual, you can move from page to page as you would in a book. You can also jump back to whichever page you viewed most recently.

Moving from Page to Page



Click these buttons to “turn the pages” of the document. The inside buttons send you to the previous page and the next page. The outside buttons send you to the first page and last page of the document.

Returning to the Last View

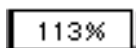


Click the left button to return to the page you viewed most recently and the right button to return to the current page.

Viewing a Page

Magnifying a page can make the text—and especially the graphics—easier to read. However, magnified pages are often too big to fit on screen all at once. To see different parts of a page, you can move the page around inside the window.

Changing the Magnification



To see graphics more clearly, select the number in this control (at the bottom of the screen), type 134 or 192, and then press ENTER.



To return to the original view, click the button on the right. The other buttons in this cluster let you see more of the page.



You can also select a magnification by choosing from those listed in the View menu.

Moving a Page Around



When you click this button, the cursor becomes a hand, which you can use to drag the page around inside the window. (You can also use the scroll bars to scroll a page.)

Finding a Topic

There are two ways to get to the information you need. You can:

- Jump to a topic from the bookmark list on the left side of your window.
- Perform a keyword search for a topic.

Jumping from the Bookmark List

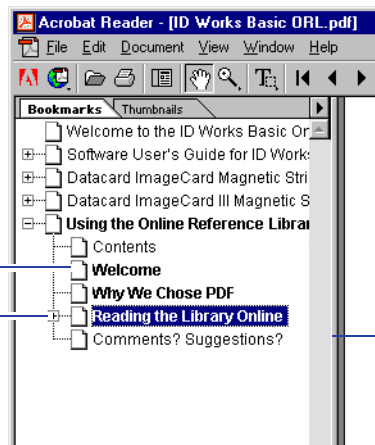
The list of “bookmarks” on the left side of the screen shows the contents of the entire document. The first bookmark in the list returns you to the contents page for the entire Online Reference Library. When the pointer is over a bookmark, it turns into a hand with a pointing finger.



When you click a bookmark icon, that topic appears in the window.

To view a topic or subtopic, click the page icon.

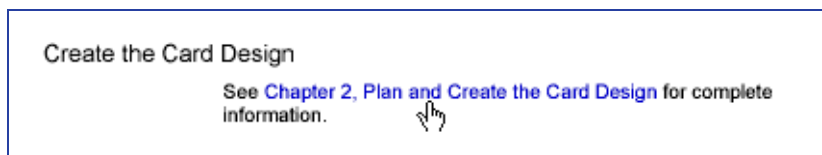
To display subtopics, click the plus sign.



To get a full view of the bookmark list, click this line and drag it to the right.

Jumping from Within a Page


Cross-references within the document are links to the referenced page. They appear in colored text. When the pointer is over a jump, it turns into a hand with a pointing finger:

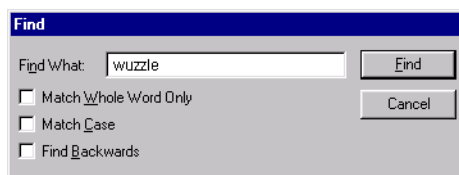


Searching by Keyword

You can also find information by performing a keyword search. For example, if you are looking for instructions on installing a wuzzle, you might perform a keyword search for "installing" or "wuzzle." Reader scans for the word in the text, and then allows you to jump to every instance it finds.

To perform a keyword search:

- 1 Click the "find" button. 
- 2 Type the word you want to find, and then press ENTER. Reader will search for the word.

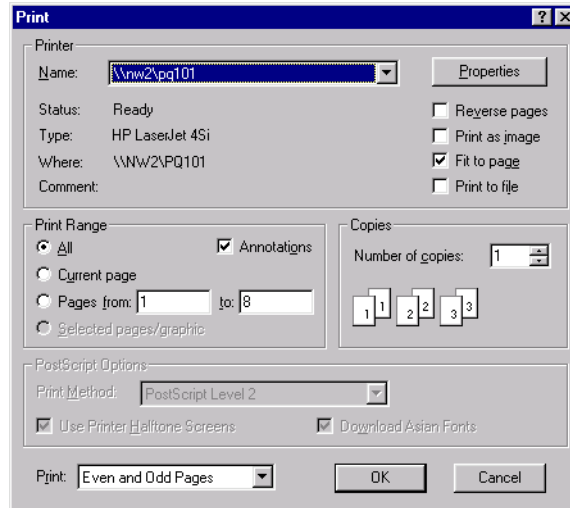


- 3 Reader will jump to the first appearance of the word (if the word is found). To see the next appearance, press CTRL+F and then ENTER.

Printing Pages

You can print a single page, a range of pages, or an entire manual.

- 1 Press CTRL+P, or from the menu bar select **File** and then **Print**.



- 2 Specify the page or page range you want to print.
- 3 Click **OK**.