

*Elixir*

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**DataMerge**  
**User Guide**

*June 1999*  
*Version 4.00*

Elixir Technologies Corporation  
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# 1.

# Introduction

This user guide describes how to use DataMerge, a powerful PC-based document assembly and data merging tool that allows you to merge variable data onto Elixir format forms and then output the document to Xerox production printers, PostScript and HP LaserJet Series II or compatible PCL 4 printers.

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## DataMerge overview

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The following section provides an overview of the steps required to merge variable data onto an Elixir form, or series of Elixir forms, using DataMerge.

### 1. Create a form

DataMerge merges variable data with Elixir format (.ELX) forms. You can create Elixir format forms using any Elixir form creation package such as "Elixir Forms Editor," "ElixirForm for AFP" or "Elixiform." These packages enable you to work with documents in a WYSIWYG environment and to fully define the DataMerge data fields when you create forms.

You can also create a form in a supported Windows application and convert it to .ELX format using the Elixir PrintDriver. See the *Elixir PrintDriver User Guide* for more information.

The default directory for Elixir format forms is `drive:\ELIXIR\FORMS\ELIXIR\`.

Depending on the Elixir forms package you have installed, your screens and options may differ slightly from the figures displayed in this guide.

See the appropriate user guide for information on creating a form.

## **2. Tag a form**

Data fields must be defined and added to your form to indicate where specific variable data will be placed. For example, a field may define where a name appears on the form. Graphics calls define where a graphic is placed on a form. Adding data fields and graphics calls to a form is called tagging a form.

You can tag a form using the data tagging dialog box or by referencing data fields in an external tag attribute file. See the "Adding tags" chapter for more information.

## **3. Create a variable data file**

A variable data file is an ASCII file with a .DAT extension that contains printer commands, the name of the form(s), variable data, and graphics calls. An example of variable data for the name field defined above is "Charles Edwards." This data displays in the name field when you view or print the form. After you create a data file, you can preview the form merged with the variable data using ElixirViewer.

See the "Data files" chapter for more information.

## **4. Merge a form with variable data**

You can merge the form with the variable data and print to the printer or to disk.

- To output to HP PCL or Postscript format from the Elixir Desktop, drag a .DAT file to the Printers icon or to the Converter icon. See the "DataMerge operation for Windows" chapter
- To output to HP PCL, Postscript or Xerox format from the DataMerge interface, set up options and run DataMerge from the pull-down menus in the Main DataMerge dialog box. See the "DataMerge operation for DOS" chapter for more information.

## DataMerge sample application

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Your DataMerge software includes a sample application. This application includes an Elixir format form called RAFFLE.ELX which is tagged as described in the "Adding tags" chapter, and three data files called RAFFLE1.DAT, RAFFLE2.DAT and RAFFLE3.DAT, each created using a different .DAT file format as described in the "Data Files" chapter.

If you want to view these sample files, make sure you select the [Application] option from the Files To Install window during installation.

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## Customer support

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If you have purchased your Elixir product directly from Elixir Technologies then contact the support center for your region at the number listed below.

- **North and South America:**  
**+1 805 641 5900 ext. 3**
- **Asia Pacific**  
**+92 (0) 51 206182**
- **Europe**  
**+420 2 2431 13877**

The U.S.A. Elixir Customer Support Center provides telephone technical assistance for Elixir users Monday through Friday from 6:30 a.m. to 5:00 p.m. Pacific Standard Time.

If you have any problems running or using Elixir Print-Driver or associated Elixir applications, contact the support center in your region for help. An Elixir product specialist will answer your call and ask for the following information:

- your name, organization, telephone number and address.
- the name and version number of the Elixir application.
- a complete description of the problem, including any error messages displayed on your monitor or printed at your printer.
- You can contact Elixir support by accessing the Elixir World Wide Web page (and selecting [Contact Support]) at <http://www.elixir.com>. Please complete the question form.

### **Elixir Web site support**

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The Elixir Web site at <http://www.elixir.com> offers the following resources:

- Raise a question for Elixir Support.
- Find answers in the list of Frequently Asked Questions.
- Review the latest Tips and Techniques for increasing productivity using Elixir software.
- Download new releases and the latest patches.
- View Release Notes for the latest available features.
- Learn in the user newsgroup how others are using Elixir products.
- Sign up for an Elixir Learning Program.

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## Elixir training

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Elixir Technologies Corporation offers training for the full range of Windows-based products. For more information, contact:

**Elixir Learning**  
**(805) 641-5900 ext. 6**

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## Hardware and software requirements

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The following sections describe the hardware and software requirements for running DataMerge.

### Hardware

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**Recommended PC configuration:** Pentium (or 100% compatible), with at least 133 MHz processor (or the fastest commercially available processor); 32 MB RAM, 500+ MB hard drive, one CD-ROM drive.

**Additional requirements:**

- any monitor with driver software supporting Windows in VGA or SVGA
- any Windows-compatible mouse.

**Optional requirements**

- One of the following for communicating with Xerox printers:
  - any PC-to-mainframe or communications board that supports binary file transfers (such as IBM PC3270, IRMA FT/3270, or AS/400 PC communications packages)
  - any 9-track, 1600 or 6250 bpi tape drive (such as the Qualstar with the Overland TX-8 controller card).

- One or more of the following peripheral devices:
  - Xerox production printer
  - HP LaserJet IV or compatible PCL 4 printer (HP PCL 4 is the format supported), or PostScript compatible
- CD-ROM Player

### **Tape drive configuration**

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If you use a Qualstar tape unit, copy the TAPE\_MT0.SYS file (and, if provided, the LDIMG.EXE file) from the driver diskette supplied by Qualstar to your root directory.

- Add the following line to your CONFIG.SYS file:  
  
DEVICE= TAPE\_MT0.SYS 8
- If LDIMG.EXE is included on the Qualstar driver diskette, add the following command to your AUTOEXEC.BAT file:  
  
LDIMG

### **Software**

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**Software requirements:** Microsoft Windows 95, Windows 98, or Windows NT 4.0 or later.

While we make every effort to ensure the proper operation of our software, some problems cannot be resolved due to differences in the operating systems.

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## **Who should use this guide**

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This user guide is intended for users familiar with Windows. You should be familiar with your PC peripherals and have access to reference manuals for your PC software and hardware, and your printer.

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# Conventions

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Most of the following conventions are the same or similar to Windows conventions.

- display conventions
- typographical conventions
- mouse operations

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## Display conventions

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The Elixir Desktop, ElixirForm, ElixirFont and ElixirImage all adhere to Microsoft Windows conventions for using menus, menu commands, dialog boxes, command buttons, icons and mouse. See your Windows manual for more information.

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## Typographical conventions

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The following typographical conventions are used throughout this guide and other Elixir product guides.

- Keystrokes are shown enclosed in < > (angle brackets). For example:

<Enter>

- Key combinations are denoted by a plus sign between keys. For example:

<Shift> + <F1> indicates to simultaneously press the <Shift> and the <F1> keys.

- Menu titles are shown in **bold**. Menu options are enclosed in [ ] (square brackets). For example:

Select [New] from the **File** menu.

- Commands, options, actions, and parameters that require description are shown in bold followed on the next line by the description. For example:

**Delete**

Deletes the selected files.

- Steps in a procedure are shown in numbered bold paragraphs. For example:

1. **At the prompt, enter the file name and extension.**

Comments relating to a step (such as this paragraph) are shown in regular text following the bold paragraph.

- Commands you enter at the DOS prompt are shown in larger text. Within DOS commands, variable names and keys you press are shown in italics. For example:

CD \ELIXIR <Enter>

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## Mouse operations

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You can perform most operations in Elixir applications by using the mouse. The terminology is similar to other Windows based applications.

Mouse operations are performed using the left or right mouse buttons, depending on the specific task.

The following mouse related terms are used in this guide:

**click**

to momentarily press and release the left mouse button once. A right mouse button click is specified where necessary. For example,

Click on the right mouse button to finish entering text.

**double-click**

to click the left mouse button twice in rapid succession.

**drag**

to click and hold the mouse on an item and move the item with the mouse.

**drag and drop**

to drag an item as above, then release the mouse button, once the item is positioned over a the area. If the selected object is a file and the destination is a directory, the file copies to the directory.

**object**

a selectable item on the screen.

**open**

to point and double-click on an icon -- the effect of this operation depends on the icon.

**point**

to move the mouse to position the screen pointer on an area of the screen.

**select**

to point to an object and click the mouse -- this usually highlights the object.

**<Alt>click**

to hold down the <Alt> key while pressing the left mouse button -- this allows you to select a range of files in a window.

**<Ctrl>click**

to hold down the <Ctrl> key while pressing the left mouse button -- this allows you to select individual files from a group in a window.

**<Shift>click**

to hold down the <Shift> key while clicking the mouse -- this allows you to select more than one object at a time.

## On-line Help

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Elixir software uses the Microsoft Windows Help program to provide on-line Help for all functions.

For more information about Windows Help, select the [How to Use Help] option in the **Help** menu, or see your Microsoft Windows documentation.

The Help files included with your Elixir software include graphics created using screen drivers with large fonts. If you use a screen driver with small fonts, the Help file graphics may not display clearly. For optimum graphics display, use a screen driver with large fonts.

You can display on-line Help in the following ways:

### **Bubble Help**

Click on an icon with the right mouse button to view its properties (if applicable) or to display "bubble help." Bubble help is a short description of the icon function that displays in a bubble extending from the icon.

### **Quick Help**

Enable the quick function by selecting the quick help option in the Usage Switches (or Preferences -- for ElixirImage) dialog box. When you move the screen pointer over an icon on the screen, a short description of the icon function displays in the message area of the screen. During certain operations a message about the function you are performing also displays in the message area. To see these operational messages, disable quick help.

### **Context sensitive Help**

To use this function, click on an icon and press <F1>. If available, the appropriate Help topic displays. If no specific topic is available, the Help table of contents displays.

### **Help menu**

Select [Help] from the top pull-down menu and choose one of the displayed topics.

**Dialog box Help**

Click on the [Help] button in a dialog box to view an associated Help topic. Under Windows 95 and Windows NT, right-click on a dialog box option to display an associated Help topic.

**Help pop-ups and jumps**

Within Help topic text, words or phrases underlined in green are pop-ups or jumps. When you click on a pop-up topic, a box displays within the current Help topic with additional information. When you click on a jump, a different, associated Help topic displays.

**Help hypergraphics**

Hypergraphics are special graphics within Help files that contain "hot spots". Hot spots are either pop-up topics or jumps. Hypergraphics in Elixir Help are most commonly dialog boxes with option hot spots (pop-up definitions), toolboxes with tool hot spots (topic jumps), and menus with option hot spots (topic jumps or pop-up definitions).

Move the cursor over a hypergraphic until a hand displays, then click on this hot spot to display a pop-up topic, or a "jump". To close a pop-up topic, click the mouse button. To return to the original Help topic from a jump, click on <Back> in the Help file menu.

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## Using Online documentation

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This section describes how to use PDF online documentation, including navigating through the online guides and printing the guides. Acrobat Reader is provided with the online documentation. Information about using the Acrobat Exchange program is included for users who have licenses for that program.

**Accessing online guides**

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The PDF online documentation is copied to the drive:\Elixir\help\pdf directory during the installation. If you didn't choose to copy the PDF online documentation during the installation, you can view a complete list of the files by clicking on the Windows [Start] button and selecting Programs>Elixir Applications>Elixir PrintDriver for AFP. Once the application is launched, click on the Help menu and select Release Notes. Wordpad displays a current list of supporting documents and the directories where they can be found on CD-ROM.

When the appropriate PDF file is accessed the Acrobat Reader program is launched and the List of Online Guides is displayed. Click on a guide to view its table of contents and jump to individual chapters.

The following list of PDF files and associated document names are installed in the drive:\Elixir\help\pdf directory.

- StartAFP.pdf - AFP Getting Started Guide
- StartXRX.pdf - Getting Started User Guide
- DeskAFP.pdf - Elixir Desktop and Converters for AFP User Guide
- DeskXRX.pdf - ElixSys Desktop User Guide
- FormAFP.pdf - ElixirForm User Guide
- FormXRX.pdf - ElixForm User Guide
- FontAFP.pdf - ElixirFont User Guide
- FontXRX.pdf - ElixFont User Guide
- ImageAFP.pdf - ElixirImage User Guide
- GraphXRX.pdf - ElixGraphics User Guide
- PdAFP.pdf - Elixir PrintDriver for AFP User Guide
- PDXRX.pdf - Elixir PrintDriver User Guide
- PdNT.pdf - Elixir PrintDriver for NT User Guide

- PHXRX.pdf - PageHandler User Guide
- DTAG.pdf - DocuTag User Guide
- DMerge.pdf - DataMerge User Guide
- AppVIPP.pdf - Elixir AppBuilder for VIPP User Guide
- AppAFP.pdf - Elixir AppBuilder for AFP User Guide
- Transfmr.pdf - Elixir Transformer Suite User Guide
- Viewer.pdf - ElixirViewer User Guide
- Elxscan.pdf - ElixScan User Guide

### **Navigating in online guides**

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After loading a PDF document in Acrobat Reader or Exchange program (as described above), you can navigate through the online guide by clicking on the following:

TOC chapter titles - jumps to the beginning of the chapter indicated.

[Next Page] or [Previous Page] in the Toolbar - jumps to the next or previous page of the online guide (alternatively, you can use the <Page Up> and <Page Down> keys).

[Go Back] in the Toolbar - returns to your previous location.

[First Page] in the Toolbar - returns to the opening screen of the online guide.

## **Word find**

---

This option finds a key word or phrase in the current document.

To use Word Find in a document:

- 1. Click on the [Find] icon in the Toolbar.**
- 2. Enter the desired search text and click on [Find].**

The Acrobat Find dialog box closes and the first occurrence of the text is highlighted.

- 3. To find more occurrences of the same text, click on the [Find] icon in the Toolbar and then click on [Find Again] in the Find dialog box.**

## **Page scrolling**

---

You can move a document on the screen to view portions of it not visible in the window, or read a document which contains article threads by clicking the mouse to scroll through the document without using the scroll bar.

To move a document on the screen for viewing (functional only when the document displays wider than the document window):

- 1. Click on the [Hand] icon in the Toolbar.**
- 2. Hold down the mouse button and drag the cursor in the desired direction.**

To follow the flow of text in a document that contains article threads (automatic text flows):

- 1. Click on the [Hand] icon in the Toolbar.**
- 2. If the document contains article threads, a down arrow displays on the Hand icon.**
- 3. Position the hand-shaped cursor over a paragraph and click on the paragraph to begin reading.**

#### **4. Continue clicking to follow the flow of text.**

##### **Zoom in/out**

---

To magnify the size of the page display, click on the Zoom icon in the Toolbar, then click in the Work area. Each click resizes the view by a factor of two.

To reduce the size of the page display, click on the Zoom icon in the Toolbar, then hold down the <Ctrl> key and click in the Work area.

You can also click on the [%] button at the bottom of the screen and select a zoom percentage from the pop-up list.

##### **Printing online guides**

---

You can print individual chapters or an entire book to PostScript or HP printers:

- 1. Open the file.**
- 2. Select File>Print.**

The Print dialog box displays.

- 3. Select your printing options and click on [OK].**

---

## **Organization of this guide**

---

This user guide contains the following chapters:

Chapter 1, "Introduction," provides an introduction to DataMerge and describes the contents of this user guide.

Chapter 2, "Adding tags," describes how to define and add data fields and graphics calls to a form.

Chapter 3, "Data files," describes how to create data files and job files, and how to preview a merged form using ElixirViewer.

Chapter 4, "DataMerge operation for Windows," describes how to operate DataMerge from the Elixir Desktop for merging and printing variable data with a form for output to a PostScript or HP LaserJet Series II or compatible PCL 4 printer.

Chapter 5, "DataMerge operation for DOS," describes how to operate DataMerge from the DataMerge interface for merging and printing variable data with a form for output to a PostScript printer, HP LaserJet Series II or compatible PCL 4 printer or a Xerox production printer.

Chapter 6, "Moving and printing files," describes how to upload files from your PC to a host environment for processing and subsequent delivery to the printer.

Chapter 7, "Stand-alone utilities," describes how to use the stand-alone utilities provided with DataMerge.

Appendix A, "DataMerge error messages," lists the error messages issued by DataMerge.

Appendix B, "External tag attribute files," provides information for users who need more detailed information about the external tag attribute file such as application developers and programmers.

Appendix C, "Command line parameters" lists the optional parameters for running DataMerge in batch mode.

---

## Before installation

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- If you plan to use DataMerge with any other Elixir products, make sure you know the drive on which they are installed. This is the drive where you must install the Datamerge program.
- Complete the software licensing process (See the "Product Registration" section).
- To avoid any possible conflicts, exit all other applications before installation.

- You may want to make a backup copy of your diskettes prior to installation.

---

## Release notes

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Release notes appear at the beginning of the Elixir software install process, so that you can review each entry before performing the complete installation. Once the software is installed, release notes can be accessed from the Help menu of the application. Release notes are formatted for viewing in Notepad or Wordpad. They have a *txt* file extension and are found in the *drive:\ELIXIR \RELNOTES* directory.

---

## Product Registration

---

Elixir products no longer require ElixiKey hardware devices attached to your parallel port. Elixir products now utilize soft key technology. This new licensing process validates your license agreement with Elixir and places a file (*password.epw* if an Elixir customer, or *License.dat* if a Xerox customer) on your workstation.

Version 4.00 implements Elixir's new licensing process and discontinues use of the current hard keys. All customers must register/re-register software license(s) by using the Elixir registration program provided with the software.

Each product installed is assigned to a specific pc. This pc number, your customer number, and password are required. This information is provided when you purchase Elixir software or when you upgrade to version 4.00 of Elixir products.

If you are an Elixir customer, registration can be completed automatically if you have an internet connection on your workstation. If you are a Xerox customer you must contact Xerox to register your products.

This section describes the registration process for those customers who have purchased their Elixir products from Elixir Technologies.

The following scenarios describe the registration process for Elixir customers. Xerox Corporation will provide a separate document that describes registering your products with Xerox.

- you are a new customer and will use Soft Key registration
- you are an existing customer and will change to Soft Key registration

### Elixir Product Registration screen

Make your selections according to your needs and go to the appropriate section for further procedures.

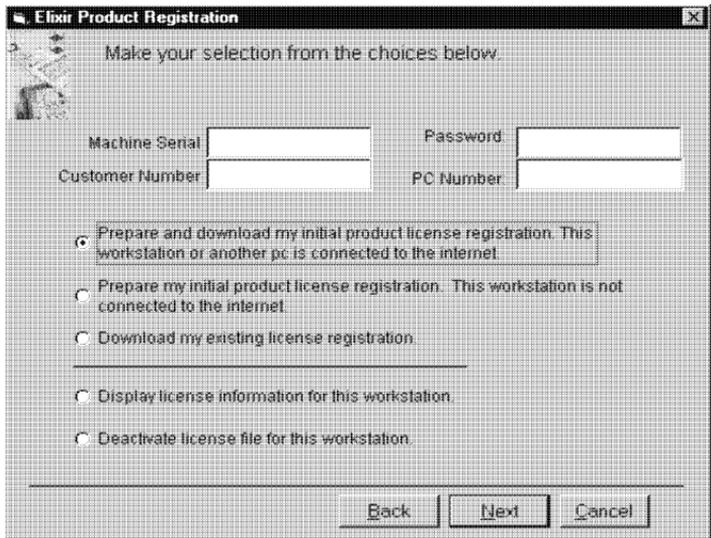


Figure 2-1. Elixir Product Registration screen

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## Using the internet

---

You can register and download all registration files via the Elixir Product Registration program. There are two ways to register your products using the Internet:

- download the product registration file directly to the Elixir PC via the Internet (see "Registering as a new customer via the internet")
- download the product registration file to another machine and move it to the Elixir PC (see "Downloading via the internet to a non-Elixir PC")

---

## Registering as a new customer via the internet

---

You will receive a "Customer Activation Letter" with your product(s) ordered. The registration process should be completed before installing your software. The installation CD will launch and install the Registration Program.

To install the registration program on your Elixir PC:

- 1. In the Software Registration screen, click on [Next].**
- 2. Select the drive and click on [Next].**
- 3. In the Start Registration Process screen, click on [Install].**

The password file will be installed and your system configured.

To complete registration:

- 1. In the Elixir Product Registration "Welcome" screen, select [Next].**

Your machine serial number displays.

- 2. Enter your customer number (from Activation Letter), then click on [Next].**

3. **Enter your password and the PC number you want to register, then click on [Next].**
4. **Select [Prepare and download my initial product license registration. This workstation or another pc is connected to the internet] from the Registration Option menu, then click on [Next].**
5. **In the Download Password screen, click on [Yes].**

The system displays your customer information and you must verify that it is correct.

6. **When the screen displays the registration information, click on [Save]. You may also print this screen for reference or to send to Elixir.**

The application installation process will begin, see the "Installation" section.

### **Downloading via the internet to a non-Elixir PC**

---

You will receive a "Customer Activation Letter" with your product(s) ordered. The registration process should be completed before installing your software. The installation CD will launch and install the Registration Program.

To install the registration program on your Elixir PC:

1. **In the Software Registration screen, click on [Next].**
2. **Select the drive and click on [Next].**
3. **In the Start Registration Process screen, click on [Install].**

The password file will be installed and your system configured.

To complete registration:

1. **In the Elixir Product Registration "Welcome" screen, select [Next].**

Your machine serial number displays.

2. **Enter your customer number (from Activation Letter), then click on [Next].**
3. **Enter your password and the PC number you want to register, then click on [Next].**
4. **Select [Prepare and download my initial product license registration. This workstation or another pc is connected to the internet] from the Registration Option menu, then click on [Next].**
5. **In the Download Password screen, click on [No].**
6. **In the How to Contact Elixir screen, click on [Print] and take the printout to the pc connected to the internet.**
7. **Access the Elixir Web site at <http://www.elixir.com>. and click on [Product Registration].**
8. **In the Customer Information screen, enter your Customer Number and Password, then click on [Submit Form].**
9. **In the Elixir Customer Menu, click on [Download a New License File].**
10. **In the Customer Information screen, enter your PC Number and Machine Serial Number, then click on [Submit Form].**
11. **In the Elixir Technologies screen, click on [Click here to download your password].**
12. **Save the *password.epw* file to diskette and copy it to your Elixir PC in the \ELIXIR directory.**

The application installation process will begin, see the "Installation" section.

## **Contacting Elixir (no internet connection)**

---

If you have no internet access at your site you must contact Elixir and provide the serial number of the pc where you will install the Elixir software. Elixir will provide a registration file (*password.epw*) that you must copy to the Elixir pc.

Copy the *password.epw* file to \Elixir and start the installation.

Select [Prepare my initial product license registration. This workstation is not connected to the Internet] from the Registration Option menu, then click on [Next].

The application installation process will begin, see the "Installation" section.

## **Soft key customers running Windows for Workgroups 3.1 or 3.11**

---

Since Windows 3.1/3.11 does not have internet capability, you must contact Elixir to obtain your password file. After installation of Elixir software, the installation program verifies that the operating system is 3.1 or 3.11, runs *passwd16.exe*, and provides your machine serial number.

To complete registration:

- 1. Enter your customer number, password and PC number, then print out a copy of this screen.**
- 2. Fax, email, or mail Elixir the display printout. Elixir will generate a *password.epw* file and send it to you on diskette.**
- 3. Load the *password.epw* file in the \ELIXIR directory.**

The application installation process will begin, see the "Installation" section.

## Installation

---

This section describes how to install Elixir software using the [Full] and [Custom] options. Installing additional Elixir applications to an existing version is also explained.

**Note:** The software registration process must be completed (See the "Product Registration" section).

For information about starting Elixir applications after installation, refer to the "Introduction" chapter.

During installation, the log file, XWIN.log, is created in the *drive:\Elixir* directory. XWIN.log contains a list of all directories and files copied or created, including information pertinent to the installation. It can be accessed, using Notepad or Wordpad.

If you have any problems running Elixir software after installation, refer to Appendix A, "Operational and error messages", or the "Troubleshooting" section of the *Elixir Getting Started Guide* for more information.

### Installing Elixir applications

---

Elixir provides a simple, interactive procedure for installing Elixir applications.

During installation you can select [Full] or [Custom] installation.

- Selecting a [Full] installs all Elixir applications and demonstration files on the same drive. If you have a previous version of Elixir software, this option overwrites the existing version.
- Selecting a [Custom] installation allows you to choose the Elixir applications and options (such as Elixir demonstration files) you want installed, as well as where you want certain options installed. For example, You may want the PDF documentation in a different directory than the application.

You can also install Elixir program files (required to run Elixir), and data files (files that you create or files such as the Elixir demonstration files), in separate drives and directories.

## Full installation

---

To begin installation:

You can quit installation at any time, by pressing the <Esc> key.

- 1. Close all active applications.**
- 2. Insert the CD in your CD-ROM drive.**
- 3. In the "Welcome" screen, click on [Next].**

The Release Notes? screen displays.

- 4. Select [Read Release Notes Now] to display them in Wordpad (or Notepad), or click on [Next] to proceed with the installation.**

The Product Selection screen displays.

- 5. Select the applications you want to install and click on [Next].**

The Selected Products screen displays.

- 6. Verify the listed applications and click on [Next]. If you need to delete or add to the list, click on [Back] and reselect.**

- 7. Verify your user information and click on [Next].**

- 8. In the Select Install Type screen, select [Full] and click on [Next].**

- 9. Select the drive on which you want Elixir software installed, then click on [Next].**

- 10. Select the Programs Folder in which you want Elixir software installed (Elixir Applications is the default), then click on [Next].**

11. In the **Backup Replaced Files** screen, click on **[Yes]**, if you want to make back-up copies of all files replaced during installation and select the directory where the back-up files will be placed. Then click on **[Next]**.
12. In the **Start Copying Files** screen, click on **[Install]**.  
  
Installation begins.
13. Once installation is complete, click on **[Exit Installer]**.

---

## Custom installation

---

To begin installation:

You can quit installation at any time, by pressing the <Esc> key.

1. **Close all active applications.**
2. **Insert the CD in your CD-ROM drive.**
3. **In the "Welcome" screen, click on [Next].**  
  
The Release Notes? screen displays.
4. **Select [Read Release Notes Now] to display them in Wordpad (or Notepad), or click on [Next] to proceed with the installation.**  
  
The Product Selection screen displays.
5. **Select the applications you want to install and click on [Next].**  
  
The Selected Products screen displays.
6. **Verify the listed applications and click on [Next]. If you need to delete or add to the list, click on [Back] and reselect.**
7. **Verify your user information and click on [Next].**

8. **In the Select Install Type screen, select [Custom] and click on [Next].**
9. **In the Configuration Only? screen:**
  - Selecting [Yes] allows you to load Configuration, Program, and Data files into any resident directory.
  - Selecting [No] allows you to deselect options you do not wish installed.
10. **Select the Programs Folder in which you want Elixir software installed (Elixir Applications is the default), then click on [Next].**
11. **In the Backup Replaced Files screen, click on [Yes], if you want to make back-up copies of all files replaced during installation and select the directory where the back-up files will be placed. Then click on [Next].**
12. **In the Start Copying Files screen, click on [Install].**

Installation begins.
13. **Once installation is complete, click on [Exit Installer].**

## **Adding applications**

---

If you did not install all of the Elixir options while performing the Custom installation procedure, you can do so at any time by following the steps described in the "Custom installation" section of this chapter.

## **Adding newly licensed applications**

---

If you purchase additional Elixir products, Elixir will update your password file. You can access the Product Registration program from your program group and re-download your initial product registration password file to activate your new products.

---

## 2.

# Adding tags

This chapter describes how to add data fields and graphics calls to Elixir format (.ELX) forms and Windows-based documents for merging with variable data ready for printing on Xerox production printers, HP LaserJet Series II or compatible PCL 4 printers, or PostScript printers.

The following sections provide an overview and describe how to create an external tag attribute file, two methods for tagging an Elixir form and two methods for tagging a Windows-based document.

---

## Overview

---

Data fields define the location and attributes of the variable data to be merged with the form. For example, a data field may define where an address displays on a form. Graphics calls define where graphics are placed on the form.

Adding DataMerge data fields to new or existing forms or documents is called tagging a form. You can tag an Elixir form or Windows-based document by creating an external tag attribute file and referencing fields within that file in your document. You can also tag an Elixir form using the Data Tagging dialog box in your Elixir Form application.

If you plan to use the same tag file for different forms or documents, you should use the method of creating an external tag attribute file and referencing the fields in your document.

## Viewing the sample form

---

If you selected to install the sample application during installation, you can view the sample tagged form, RAFFLE.ELX in your Elixir Forms package in the following directory.

*drive*:\ELIXIR\FORMS\ELIXIR\DEMO

### **drive**

the drive where you installed DataMerge.

Note that replacement characters display where the tags are placed. To view a tag, select the Select/Edit icon in the Toolbox and right-click on a tag. The Data-Tagging dialog box displays settings for the tag.

If you did not install the sample application and you want to view the form, reinstall DataMerge and make sure you select the [Application] option in the Files To Install window during installation.

---

## External tag attribute files

---

You can create, view or edit an external tag attribute file using the ElixirTag utility provided with your DataMerge software.

An external tag attribute file contains parameters for data fields, such as the field name, length and replacement character. You can reference these fields in your Elixir form or, if you are a PrintDriver user, in your Windows-based document.

If you want to use the same tags in multiple forms or embed tags within text blocks, you should create an external tag attribute file.

The following section describes how to use the ElixirTag utility supplied with DataMerge to create, save, edit and delete an external tag attribute file. If you need more detailed information about external tag attribute files, see the "External tag attribute file" appendix.

## Creating an external tag attribute file

You can create an external tag attribute file using the ElixITag utility supplied with DataMerge.

To activate ElixITag and create an external tag attribute file:

1. **From the Windows Program Manager, double-click on the ElixITag icon.**

The ElixITag dialog box displays.

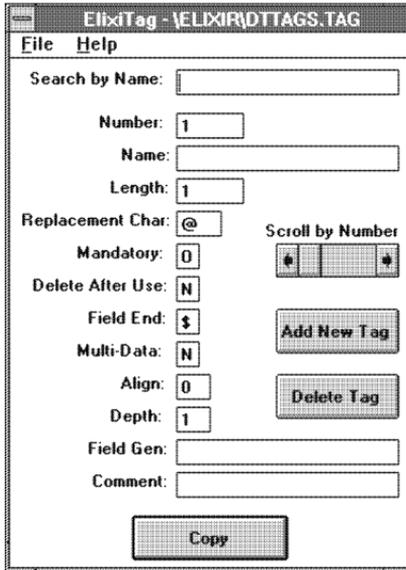


Figure 2-1. ElixITag dialog box

2. **Pull down the File menu and select [Open].**

The Open dialog box displays.

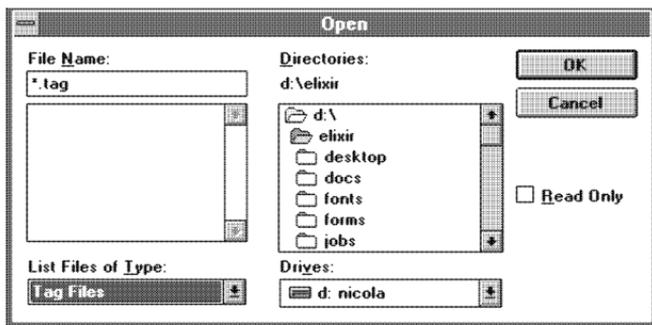


Figure 2-2. Open dialog box

**3. Select the directory and enter a new file name with a .TAG extension.**

The default directory is *drive:\ELIXIR*.

Note that if you are using ElixITag with PrintDriver to tag a Windows-based document, make sure you use the default tags directory.

**4. Click on [OK].**

The ElixITag dialog box displays the specified file name in the header.

**5. Enter parameters for the first data field.**

You can change a current parameter by backspacing over the current parameter and entering a new one.

**Search by Name**

This field allows you to enter a field name that exists in the current tag list and apply the same parameters to the current field.

To use this option, enter the name of the field. If DataMerge finds a match in the current tag list, the parameters of that field display.

**Number**

Enter the number of the field. As you add tags, field numbers (up to 750) are automatically updated.

**Name**

Enter the name of the variable data field (maximum 31 characters). If you use the space bar to separate words, DataMerge automatically inserts an underscore ( \_ ) in that space.

**Length**

Enter the maximum number of characters allowable in the specified field. Note that if the variable data item requires less than the maximum number of characters, the paragraph will be formatted so that there are no extra spaces between the variable data item and any following text.

Make sure any non-replacement characters are also included in the field length. For example, if you want the date to display in the field as follows: \*\*/\*\*/\*\* (where \* is the specified replacement character), you must enter the number 8 in this window.

**Replacement Char(acter)**

Variable data fields are denoted in your document as a string of replacement characters. Replacement characters are usually @, !, #, or " characters. These are the characters that rotate automatically when you add a new field.

If you want to specify your own replacement character, backspace over the default character and enter a new one.

**Mandatory**

This option is reserved for future use.

**Delete After Use**

Specify [Y] if you use the same field name in multiple forms, but require different values for each use.

Specify [N] if you use the same field name in multiple forms with the same data value for each use.

The default is [N].

If you specify [Y] for this option, select the [Use Data Field Name] option when running DataMerge in Windows or the [-USERNAME] parameter when running DataMerge from the Dispatcher or from the DOS command line. See the applicable "DataMerge operation" chapter.

**Field End**

This option is reserved for future use.

**Multi-Data**

This option is reserved for future use.

**Align**

This option is reserved for future use.

**Depth**

This option is reserved for future use.

**Field Gen**

Enter the non-replacement characters as you want them to appear in relation to the replacement characters. Maximum field length is 31 characters.

For example, to separate the month, day, and year in the date field with slashes, you would type `**/**/**` (where `*` is the replacement character you specified). To print the telephone number, you may want to type `(***)***_****` (where `*` is the replacement character you specified).

**Comment**

Enter a comment (maximum 31 characters) about the field.

**6. Click on [Add New Tag].**

ElixITag updates the field number and the replacement character and then resets the other parameters to the defaults.

**7. Enter attributes for the next tag.**

Continue to add tags to the external tag attribute file. The maximum number of tags per document is 750.

You can scroll through the current tag list by clicking on the left or right arrow in the [Scroll by Number] option. If the tag list contains many fields, press and drag the scroll box forward or backwards.

## Saving an external tag attribute file

You can save an external tag attribute file with the same name or with a different name.

To save an external tag attribute file with the same name:

1. **Pull down the File menu.**
2. **Select [Save].**

The external tag attribute file is saved with the same name.

To save an external tag attribute file with a different name:

1. **Pull down the File menu.**
2. **Select [Save As]**

The Save As dialog box displays.

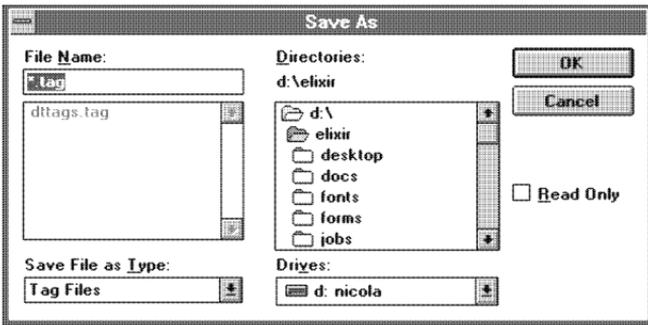


Figure 2-3. Save As dialog box

3. **Enter a new file name and specify a directory for the file.**
4. **Click on [OK]**

The external tag attribute file is saved with a new name.

The default directory for external tag attribute files is *drive:\ELIXIR*.

## Editing a tag

---

You can use ElixITag to edit any tags in your tag file.

To edit a tag:

1. **Pull down the ElixITag File menu and select [Open].**

The Open dialog box displays. (See Figure 2-2.)

2. **Select the file you want to edit and click on [OK].**
3. **Use the [Scroll by Number] option to display the data field you want to edit.**
4. **Edit an option by backspacing over the current parameter and entering a new parameter.**
5. **Repeat the procedure for each data field you want to edit.**
6. **Pull down the File menu and select [Save] to save your edits in the current file, or select [Save as] to save the file with a new name.**

## Deleting a tag

---

You can use ElixITag to delete any tags in your tag file.

To delete a tag:

1. **Pull down the File menu and select [Open].**

The Open dialog box displays. (See Figure 2-2.)

2. **Select the external tag attribute file and click on [OK].**
3. **Use the [Scroll by Number] option to display the data field you want to delete.**
4. **Click on [Delete].**

The tag is deleted from the tag file.

---

## Tagging Elixir forms

---

You can add tags to an Elixir form by referencing a data field in an external tag attribute file or by using the Data Tagging dialog box included with your Elixir Form application. If you want to use the same tag file for different documents or if you want to embed tags within a text block, you should use the method of data field referencing as described below.

Note that if you have tags embedded in paragraphs and are printing metacode, you must use the FORMCVT utility to convert the .ELX file to .FRM and specify the \$\$CALLFORMS command in the .DAT file. For information about the FORMCVT utility, see the "Stand alone utilities" chapter. For information about the \$\$CALLFORMS command, see the "Data files" chapter.

After you have added a tag to your form, you can only change the field number of tags that reference data fields. If you are using the Data Tagging dialog box to add tags to your form, you may want to complete your form before adding tags.

---

### Data field references

---

To use this method for tagging a form, you must create an external tag attribute file. You can use the Elix-iTag utility provided with DataMerge to create an external tag attribute file. See the "External tag attribute file" section in this chapter for information on how to create and save an external tag attribute file.

To reference a data field in an external tag attribute file:

- 1. Load an existing or new form into your Elixir Form application.**
- 2. Select the Text tool.**

The Text toolbox displays.

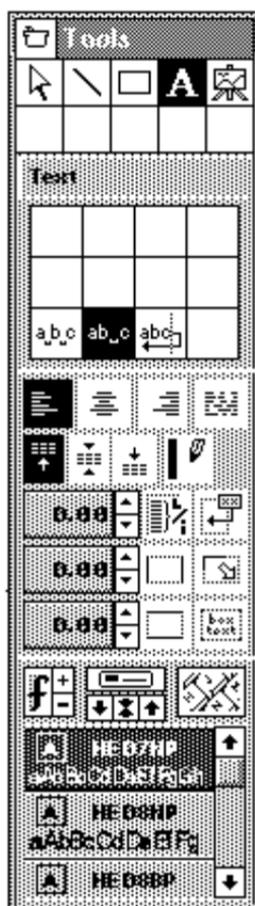


Figure 2-4. Text toolbox

3. **Select a font.**
4. **Place the cursor on the form where you want the variable data to print.**
5. **Enter the following, depending on the format of your .DAT file. (See the "Data files" chapter for information about the format of .DAT files.)**

- If your .DAT file follows format 2 or 3, you can enter

`%%n;`

***n***

is the number of the data field you are referencing, for example.

For example, `%%1;`

- If your .DAT file follows format 1, 2 or 3, you can enter

`%%n fieldname;`

***n***

is the number of the data field you are referencing.

***fieldname***

is the name of the data field you are referencing

For example, `%%2 ADDRESS;`

Note that there is a space between the number and the fieldname.

DataMerge only uses field names if using format 1 in the .DAT file and if specified when merging. See the "Format 1" section in the "Data files" chapter for more information.

## **6. Continue to enter text and add fields as required.**

Specify the external tag attribute file when you merge and print the form.

---

## **Using Data Tags**

Your Elixir Form application includes a Data Tagging dialog box for adding tags between text blocks in your Elixir (.ELX) form. The following section describes how to use the Data Tagging dialog box to tag an Elixir form.

If you want to embed a tag within a text block or if you want to tag different documents with the same tag file, you should use the method of creating an external tag attribute file and referencing the data fields in that file as described previously in this chapter. See the "Data field references" section in this chapter for more information.

To use the Data Tagging dialog box to add a tag to an Elixir form:

1. **Load a new or existing form into your Elixir Form application.**
2. **Select the [Data Tags] option in the Text toolbox.**
3. **Set the font and text properties for the variable data from the Text toolbox.**
4. **Click on the form in the location where you want to add a tag.**

The Data Tagging dialog box displays.

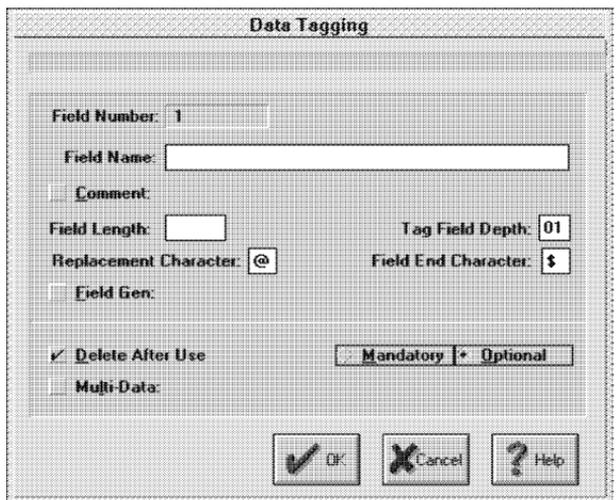


Figure 2-5. Data Tagging dialog box.

5. **Enter the tag properties and click on [OK].**

To specify tag attributes, place the cursor in the appropriate window, backspace over any current values and enter new values.

**Field Number**

DataMerge displays the field number. As you insert tags, field numbers (up to 750) are automatically updated. Note that you cannot edit this option.

**Field Name**

Enter the name of the variable data field (maximum 31 characters). If you use the space bar to separate words, DataMerge automatically inserts an underscore ( \_ ) in that space.

**Comment**

Select this option and enter a comment (maximum 31 characters) about the field in the text box that displays.

**Field Length**

Enter the maximum number of characters allowable in the specified field. Note that if the variable data item requires less than the maximum number of characters, the paragraph will be formatted so that there are no extra spaces between the variable data item and any following text.

Make sure any non-replacement characters are also included in the field length. For example, if you want the date to appear in the field as follows: **\*\*/\*\*/\*\*** (where \* is the specified replacement character), you must enter the number 8 in the field length window.

**Tag Field Depth**

This option is reserved for future use.

**Replacement Character**

Variable data fields are denoted in the document by a string of replacement characters. Replacement characters are usually @, !, #, or " characters, unless you specify a set of replacement characters in the [Replacement Characters] option in the **Setup** menu within DataMerge. See the "DataMerge operation for DOS" chapter for more information.

If you want to change the current replacement character, backspace over the default character and enter a new one.

### **Field End Character**

This option is reserved for future use.

### **Field Gen**

Select this option, and in the text box that displays, enter the non-replacement characters as you want them to appear in relation to the replacement characters. Maximum field length is 31 characters.

For example, to separate the month, day, and year in the date field with slashes, you would type `**/**/**` (where `*` is the replacement character you specified). To print the telephone number, you may want to type `(**)***_****` (where `*` is the replacement character you specified).

### **Delete After Use**

Select this option if you use the same field name in multiple forms, but require different values for each use.

Deselect this option if you use the same field name in multiple forms with the same data value for each use.

The default is selected.

If you select this option, select the [Use Data Field Name] option when running DataMerge in Windows or the [-USENAME] parameter when running DataMerge from the Dispatcher or from the DOS command line. See the applicable "DataMerge operation" chapter.

### **Mandatory/Optional**

This option is reserved for future use.

### **Multi-Data**

This option is reserved for future use.

### **Store to Tag List**

Select this option to add this tag to the current tag list.

### **Modify Text Properties**

Click on this button after selecting an existing data tag to access the Text toolbox. You can change the tag text attributes using the options in the Toolbox.

When the information in the Data Tagging dialog box is complete, click on [OK] to save the attributes to disk. A tag displays in the selected location.

---

## Using existing data tags

---

With Elixir Form software, you can use existing data tags by loading tag files from the Tags directory specified in the Filing Options dialog box. Tag file names are stored with your .ELX file.

To use existing data tags:

**1. <Ctrl>-click on the [Data Tags] option.**

A window displays at the bottom of the Work area.

**2. Pull down the File menu in the window and select [Load].**

The Load Tag File dialog box displays with a list of tag files. Each file contains one or more individual data tags.

**3. Select a tag file and click on [OK].**

The tag file name displays in the window header and the data tags contained within the file display in the window.

**4. Select the data tag you want to copy to the current form, drag it to the desired location on the form, and release the mouse button.**

The data tag becomes part of your form.

Note that if you drag and drop a tag while in add text mode, the tag jumps to the cursor position when you release the mouse button and is embedded in the paragraph. If you are not in add text mode when you drop the tag, you can drop the tag at any location on the form.

The tag file window displays the following additional menus and options:

## **Tag file window File menu**

---

### **New**

Displays a new tag file window. The window header reads "untitled" until you save the file with a name. If you save the form without specifying a tag file name, the tag file is saved as *filename*.TAG where *filename* is the name of the .ELX file.

### **Load**

Displays the Load Tag File dialog box with a list of existing tag files you can load.

### **Merge**

Displays the Merge Tag File dialog box. Select a tag file to merge the data tags it contains with the data tags in the currently loaded tag file. The data tag field numbers are renumbered to prevent duplicate numbers.

### **Save**

Saves the current tag file with the data tags that display in the window.

### **Save as**

Saves the current tag file under a different file name.

## **Tag file window Edit menu**

---

### **Create**

Displays the Data Tagging dialog box to allow you to specify tag attributes for a new tag.

### **Edit**

Displays the Data Tagging dialog box to allow you to make changes to a selected tag's attributes. You can also right-click on a tag to display the dialog box.

### **Delete**

Deletes the currently selected data tag from the tag file.

---

## Viewing data tags

---

Replacement character strings show the position of the tag. If you do not see the replacement character string, the font you are using may not contain the specified replacement character and you must select another character.

To check if a particular font contains the replacement character you have specified:

1. **From the Text toolbox, select the [Soft Keyboard] option.**

The soft keyboard displays at the bottom of the screen.

2. **Use the scroll arrow to scroll through the font characters.**

Note that the maximum size of a tag that you can display on the screen is 2000 bytes. A tag greater than 2000 bytes in size displays on the form as a line of text with the tag name and all of its attributes, not as a series of replacement characters.

---

## Editing data tags

---

You can edit the parameters and the text parameters for a data tag.

To edit the parameters for a data tag:

1. **Select the Select/Edit tool.**

The Select/Edit toolbox displays.

2. **Place the cursor on the replacement character string you want to edit**

If you cannot see the tag replacement character string, press <Ctrl> + <T> to show fields.

3. **Click the right mouse button.**

The Data Tagging dialog box displays.

4. **Place the cursor in the window of the option you want to edit.**
5. **Backspace over the current parameter and enter a new parameter.**
6. **Click on [OK].**

To edit the text properties:

1. **Select the Select/Edit tool.**

The Select/Edit toolbox displays.

2. **Place the cursor on the replacement character string you want to edit**

If you cannot see the tag replacement character string, press <Ctrl> + <T> to show fields.

3. **Click the right mouse button.**

The Data Tagging dialog box displays.

4. **Click on [Modify Text Properties].**

5. **Select the new options from the Text toolbox.**

6. **Click the right mouse button to end editing the text display settings.**

Note that if you change an attribute in a data field which is repeated more than once on the form, the Data Tag Change dialog box displays.

- To apply the changes to all tags with the same field number, click on [Yes].
- To apply the changes to this tag only, click on [No]. The tag is saved as a new tag and assigned the next sequential number.

## **Deleting data tags**

---

To delete a tag:

1. **Select the Select/Edit tool.**

The Select/Edit toolbox displays.

2. **Select the tag replacement character string you want to delete.**

If you cannot see the tag replacement character string, press <Ctrl> + <T> to show tags.

3. **Select the [Delete] option or press the <Del> key.**

The tag and all the tag attributes are deleted from the form.

## **Moving data tags**

---

To move a tag:

1. **Select the Select/Edit tool.**
2. **Select the direction for moving: [Horizontal only], [Vertical only], or [Free].**
3. **Double click on the tag replacement character string you want to move.**

The screen pointer changes to a hand.

If you cannot see the tag replacement character string, press <Ctrl> + <T> to show tags.

4. **Drag the tag replacement character string to a new position.**
5. **Release the mouse button.**

The tag replacement character string displays in the new location.

## **Copying data tags**

---

To copy a tag:

1. **Select the Select/Edit tool in the Toolbox.**
2. **Select the [Copy] option.**

3. **Select the direction for copying: [Horizontal only], [Vertical only], or [Free].**
4. **Click on the replacement character string you want to copy.**

Boxes appear around the data field to show it is selected.

5. **Click on the up or down arrow to select the number of copies between 1 and 99.**
6. **Drag the replacement character string in the direction you want to place the duplicate fields.**

When you copy tags, all of the tag attributes, including the field number, are copied also.

### **Adding a graphics call**

---

A graphics call defines the location of a graphic referenced in the .DAT file. You can have up to 9 graphics calls per form.

To insert a graphics call:

1. **Select the Image tool to display the Image toolbox.**
2. **Hold down the <Ctrl> key and select the [Load Image] option.**

The Load Image dialog box displays.

3. **Select &&merge1.LP3 to load the first graphics call.**
4. **Click on [OK].**
5. **Press and hold the left mouse button.**

The graphics call attaches to the screen pointer.

6. **Position the screen pointer where you want the graphic to load on the form and release the left mouse button.**

7. **For the second and subsequent graphics calls, select `&&merge2.LP3` and so on up to `&&merge9.LP3`.**

Note that the maximum number of graphics calls per form is 9.

---

## Deleting a graphics call

---

To delete a graphics call:

1. **Select the `Select/Edit` tool.**

The `Select/Edit` toolbox displays.

2. **Click on the graphics call you want to delete.**

Boxes appear around the graphics call to show it is selected.

3. **Click on the `[Delete]` option.**

You can also pull down the **Edit** menu and select `[Delete]` or press the `<Del>` key on the keyboard.

To undo the delete operation, select the `Undo` icon in the `Toolbar`, or pull down the **Edit** menu and select `[Undo]`.

---

## Moving a graphics call

---

To move a graphics call:

1. **Select the `Select/Edit` tool.**

The `Select/Edit` toolbox displays.

2. **Select the direction for moving: `[Horizontal only]`, `[Vertical only]`, or `[Free]`.**

- 3.

Boxes appear around the graphics call to show it is selected.

4. **Drag the graphics call to a new location.**

- 5. Release the mouse button to lock the image on the form.**

You can also move a selected graphics call by entering new coordinates:

- 1. Click on the values displayed in the current object coordinates window in the toolbar.**

If you cannot click on the current object coordinates, make sure the image is selected and click the right mouse button.

- 2. Backspace over the old values or press the <Del> key to delete the whole number.**

- 3. Enter new coordinate values.**

The graphics call adjusts to the new coordinates when you click the left mouse button or press <Enter>.

## **Copying a graphics call**

---

To copy a graphics call:

- 1. Select the Select/Edit tool.**
- 2. Select the graphics call you want to copy.**

Boxes appear around the graphics call to show it is selected.

- 3. Select the [Copy] option.**
- 4. Click on the up or down arrow to specify the number of copies.**
- 5. Select the direction for copying: [Horizontal only], [Vertical only], or [Free].**

Drag the graphics call in the direction you want the duplicate graphics call(s) to display.

---

## Tagging Windows-based documents

---

This section applies only to users with Elixir PrintDriver installed. To merge and print the document, you must first convert to Elixir (.ELX) format using the Elixir PrintDriver. See your *Elixir PrintDriver User Guide* for information about using Elixir PrintDriver.

You can tag a Windows-based document either by referencing a data field in an external tag attribute file or by pasting in a data field using ElixITag.

Note that, in Windows-based documents, you can only specify left-justified text for DataMerge tags. You cannot use center, right, and full column justification as the width of variable data characters may not correspond to the width of control characters.

---

### Referencing data fields in an external tag attribute file

---

To use this method of tagging a document, you must create an external tag attribute file using the default tag file name: *drive:\ELIXIR\DTTAGS.TAG*. See the "External tag attribute files" section in this chapter for information on how to use ElixITag to create an external tag attribute file.

To reference a data field in an external tag attribute file:

- 1. Load an existing or new document into your Windows application.**
- 2. Place the cursor where you want the first character of the variable data to display.**
- 3. Enter the following, depending on the format of your .DAT file. (See the "Data files" chapter for information about the format of .DAT files.)**
  - If your .DAT file follows format 2 or 3, you can enter

`%%n;`

***n***

is the number of the data field you are referencing, for example, %%1;

- If your .DAT file follows format 1, 2, or 3, you can enter

*%%n fieldname;*

***n***

is the number of the data field you are referencing.

***fieldname***

is the name of the data field you are referencing.

For example, %%2 ADDRESS;

Note that there is a space between the number and the fieldname.

DataMerge only uses field names if using format 1 in the .DAT file and if specified when merging. See the "Format 1" section in the "Data files" chapter for more information.

- 4. Continue to enter text and add fields as required.**

## **Pasting tags from Elixitag**

---

To paste an Elixitag in a Windows-based document:

- 1. From the Program Manager in Windows, double-click on the Elixitag icon.**

The Elixitag dialog box displays.

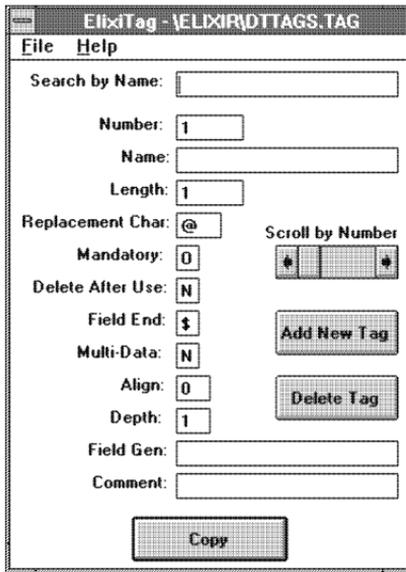


Figure 2-6. ElixITag dialog box.

**2. Pull down the File menu and select [Open]**

The Open dialog box displays.

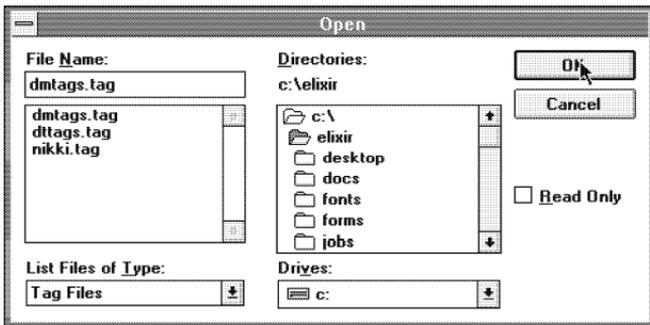


Figure 2-7. Open dialog box

**3. Select an external tag attribute file and click on [OK].**

The ElixITag dialog box displays the first data field.

**4. Click on [Copy] to copy the tag information to the clipboard.**

5. **Start your Windows documentation application and open the document you want to tag.**
6. **Position the cursor on the document where you want to place the tag and click the left mouse button.**
7. **Press <Ctrl> + <V> or select the [Paste] option in your application.**

See your application user guide for information on how to paste from the clipboard.

The control characters, field number and any tag replacement characters display in the document. Note that it takes five characters to define a tag. Replacement characters are added in the tag if the field length is more than five characters so that the tag is approximately the length of the field.

8. **Return to the ElixITag dialog box and as described.**

### **Editing tags in a Windows-based document**

If you want to edit a tag after you have pasted it into your Windows application, you must delete the tag from your document, edit the tag using ElixITag and re-paste the tag into your document.

### **Deleting tags in a Windows-based document**

To delete a tag in your document, follow the instructions in your document user guide for deleting text.

---

## 3.

## Data files

This chapter describes how to create data files and job print ticket files, and then preview a form(s) merged with variable data using ElixirViewer.

Data files are ASCII files with .DAT extensions that contain the information for merging Elixir (.ELX) format forms with variable data ready for printing on a Xerox production printer, an HP LaserJet Series II or compatible PCL 4 printer or a PostScript printer.

Job print ticket files are ASCII files containing commands that control the overall printing job.

---

### Preparing a .DAT file

---

A .DAT file contains printer commands, .ELX form references, variable data and graphics calls. The following section describes how to create and format a .DAT file.

The default directory for .DAT files is *drive:\ELIXIR\DOCS\DOCLIST*. To change the default directory, see the "Changing the default directory" section in this chapter.

---

### Viewing a sample .DAT file

---

If you selected to install the sample application during installation, you can view the sample .DAT files: RAFFLE1.DAT, RAFFLE2.DAT and RAFFLE3.DAT using any text editor. The .DAT files are stored in the following directory:

*drive:\ELIXIR\DOCS\DOCLIST*

**drive**

is the drive where you installed DataMerge.

Each sample .DAT file is created using a different format. For more information about the different formats for a .DAT file, see the "Adding variable data and graphics calls" section in this chapter.

If you did not install the sample application and you want to view the .DAT files, reinstall DataMerge and make sure you select the [Application] option in the Files To Install window during installation.

## **Creating a .DAT file**

---

You can create a .DAT file using any text editor. The following section describes how to create a .DAT file using Notepad.

To create a .DAT file using Notepad:

- 1. Open the Elixir Desktop.**
- 2. Double-click on the Documents folder.**
- 3. Double-click on the Elixir Documents folder.**

Pull down the File menu and select [New]. The File Name Entry dialog box displays.

- 4. Enter a stem name for the new file (up to 8 characters).**
- 5. Click on [OK].**

A .DAT file icon with the name of your file displays in the Elixir Documents folder.

- 6. Double-click on the .DAT file icon to launch the Notepad.**

You can now add the printer commands, form references, variable data and graphics calls as described in the following sections.

---

## Adding a printer command

---

Commands for the printer must be placed in the .DAT file before the page they effect. Precede the command name with two \$ signs. For example, to print in simplex mode, type the following:

**\$\$SIMPLEX**

Note that commands in the .DAT file override any dialog box or **Setup** menu options, or settings in the job file.

For information about setting commands for the overall print job, see the "Job print ticket file" section in this chapter.

This section shows the command (in bold) and the function of the command (underneath). These commands are only applicable if your printer supports the function.

**\$\$SIMPLEX**

Prints all subsequent pages in simplex (one-sided) mode.

**\$\$DUPLEX**

Prints all subsequent pages in duplex (double-sided) mode.

**\$\$DUPLEXINVERT**

Prints all subsequent pages in inverted duplex (inverted and double sided) mode.

**\$\$INPUTTRAY *n***

Specifies the input tray number to be used, where *n* is the number of the tray.

In the Xerox production printer, 0=no tray, 1=MAIN, 2=AUX3, 3=MAIN, 4=AUX, 5=AUX2, 6=AUX2.

Make sure clusters and stock sets are defined in ELIXIR.JSL (see your Xerox printer manual).

**\$\$OUTPUTTRAY**

Specifies the output tray number to be used, where *n* is the number of the tray.

**\$\$COPIES *n***

Specifies the number of copies of a form to be printed, where *n* is the number of copies.

**\$\$RESET**

Resets the printer.

**\$\$CALLFORMS**

Calls forms from the printer instead of the metacode file. The .FRM file, including any fonts, logos and images, must be on the printer to use this option. When you convert the .ELX file to .FRM, make sure you select the [Include Only Fonts Used] option in the Xerox Form Converter Options dialog box.

**\$\$NOCALLFORMS**

Calls forms from the metacode file.

**Adding a form reference**

---

Forms for use with DataMerge must be in Elixir (.ELX) format and must contain tags to indicate the location and attributes for the variable data and any graphics calls. See your *Elixir PrintDriver User Guide* for information on converting your Windows-based document to Elixir (.ELX) format. See the "Adding tags" chapter for information about adding tags and graphics calls.

The default directory for forms is *drive:\ELIXIR\FORMS\ELIXIR\*. To change the default directory, see the "Changing the default directory" section in this chapter.

Place Elixir (.ELX) form references after any printer commands for that page and before the variable data.

Precede the stem name of the form with two % signs and the directory path. For example, to merge variable data onto a form named BOND.ELX, type the following:

```
%%ELIXIR\FORMS\ELIXIR\BOND.ELX
```

The file extension is optional.

Note that if no path is specified, DataMerge looks for the form in the default directory.

You can copy form references from the default forms folder into an existing .DAT file or create a new .DAT file.

To copy a form reference into an existing .DAT file:

- 1. Open the Elixir Desktop.**
- 2. Double-click on the Forms folder.**
- 3. Double-click on the Elixir Forms folder.**
- 4. Drag the form you want copy to the .DAT file and drop it on the clipboard.**

To select multiple forms, hold down the <Shift> key, and drag and drop the forms on the clipboard.

- 5. Double-click on the Documents folder.**
- 6. Double-click on the Elixir Documents folder.**
- 7. Drag and drop the .ELX file from the clipboard to the .DAT file.**

The form reference(s) is copied into the .DAT file.

---

## **Adding variable data and graphics calls**

---

Place the variable data and graphics calls into the .DAT file after the form reference.

The default directory for graphics is *drive:\ELIXIR\PICS\PRINTER*. Note that if no path is specified in the .DAT file, DataMerge looks for the graphic in the default directory. To change the default directory, see the "Changing the default directory" section in this chapter.

Enter the variable data and graphics calls using one of three formats:

**Format 1 (recommended)**

---

- Precede each variable data item with the field-name and an = sign, and separate each variable data item with a carriage return.

For example: *fieldname=variable data*

**fieldname**

is the name of the field specified in the DataTagging dialog box or the external tag attribute file.

**variable data**

is the variable data you want to display on the form.

- Precede the stem name of the graphic with **&&MERGE***n*= where *n* is number 1 through 9, and add to your .DAT file after the variable data.

When you use this format, you must specify that you want to merge using the field name:

- If you are running DataMerge from Windows, select the [Use Data Field Name] option in the HP Options dialog box for HP/PCL printing or the PostScript Options dialog box for PostScript printing, or specify the [-USENAME] parameter on the command line when running in batch mode from the Dispatcher, .

For information about these options, see the "DataMerge operation for Windows" chapter.

- If you are running DataMerge from the DOS, use the [-USENAME] parameter on the command line.

For more information see the "DataMerge operation for DOS" chapter.

The following is an example of a .DAT file using this format. NAME, STREET, and STATE are the field-names. DAYNIT and BABY are the names of the graphics. Note that the order of the variable data items does not matter.

```
%%ARFORM1
NAME=Elixir Technologies Corporation
STREET=P.O. Box 1559
STATE=Ojai CA. 93024
&&MERGE1=BABY
&&MERGE2=DAYNIT
%%ARFORM1
STATE=Seattle WA 91301
NAME=Mr. Doe
STREET=1234 Washington Avenue
&&MERGE2=DAYNIT
&&MERGE1=BABY
```

File extensions are optional.

If you installed the sample application during installation, view the sample file RAFFLE1.DAT for another example of a .DAT file that uses this format.

## **Format 2**

---

- Place the variable data in the order it is to appear on the form and separate each variable data item with a carriage return.

Variable data items are placed onto the form based on their position in the data set. For example, the first data item following the form reference is placed on the form where field number one occurs, the second data item is placed on the form where field number two occurs, and so on.

- Place the stem name of the graphic(s), preceded by two & signs after the variable data and in the order they are to be merged onto the form.

The following is an example of a .DAT file using this format:

%%ARFORM1  
Elixir Technologies Corporation  
P.O. Box 1559  
Ojai CA. 93024  
&&BABY  
&&DAYNIT  
%%ARFORM1  
Mr. Doe  
1234 Washington Avenue  
Seattle, WA 91301  
&&BABY  
&&DAYNIT

File extensions are optional.

If you installed the sample application during installation, view the sample file RAFFLE2.DAT for another example of a .DAT file that uses this format.

### **Format 3**

---

- Place the variable data in the order it is to appear on the form and separate each variable data item with a character delimiter.
- Place the stem name of the graphic(s), preceded by two & signs after the variable data and in the order they are to be merged on the form.

When you use this format, you must specify the delimiter character:

- If you are running DataMerge from Windows, specify the delimiter character in the [Delimiter] option in the HP Options dialog box for HP/PCL printing or the PostScript Options dialog box for PostScript printing, or specify the [-D:value] parameter on the command line when running in batch mode from the Dispatcher, .

For information about these options, see the "DataMerge operation for Windows" chapter.

- If you are running DataMerge from the DOS, use the [-D:*value*] parameter on the command line.

For more information see the "DataMerge operation for DOS" chapter.

The following is an example of a .DAT file using a comma as the character delimiter:

```
%%ARFORM1,Elixir Technologies Corporation,P.O.  
Box 1559,Ojai CA. 93024,&&BABY,&&DAYNIT  
%%ARFORM1,Mr. Doe,1234 Washington Ave-  
nue,Seattle, WA 91301,&&BABY,&&DAYNIT
```

File extensions are optional.

Note that there are no spaces between form references and between each variable data item. Only the character delimiter separates each item.

If you installed the sample application during installation, view the sample file RAFFLE2.DAT for another example of a .DAT file that uses this format.

---

## Changing the default directory

---

If no directory is specified in the .DAT file, DataMerge looks for resources in the default directories.

The default directories are:

**Forms (.ELX)**

*drive:*\ELIXIR\FORMS\ELIXIR\

**Screen fonts**

*drive:*\ELIXIR\FONTS\SCREEN\

**Images or graphics (.LP3)**

*drive:*\ELIXIR\PICS\PRINTER\

**Text files (.DAT and .JOB)**

*drive:*\ELIXIR\DOCS\DOCLIST\

Before you can change a default directory, you must pull down the **System** menu, select [User Privileges] and select the [Backup beyond default directories] option.

To change a default directory from the Elixir Desktop:

1. **Pull down the System menu and select [Usage Switches].**

The Usage Switches dialog box displays.

2. **Select [Save Settings on Exit] and click on [OK].**
3. **Open the appropriate Elixir folder on the Desktop (Forms, Fonts, Graphics, or Documents) and then open any of the Elixir, Input, or Output folders.**

The default directory displays in the header.

4. **Use the backup button to backup and change to the directory you want as the default.**
5. **Exit/close the folder**

The default directory is changed in the SYSTEM.INI file.

---

## **Editing a .DAT file**

---

You can view and edit a .DAT file from the Elixir Desktop.

To edit a .DAT file:

1. **Open the Elixir Desktop.**
2. **Double-click on the Documents folder.**
3. **Double-click on the Elixir Documents folder.**
4. **Double-click on the .DAT file you want to edit.**

The Notepad application launches and the .DAT file contents display.

- 5. Add, delete or modify the .DAT file text as required.**
- 6. Pull down the File menu and select [Save].**

To save the file with a different name, select [Save as] and enter a new name for the file.

- 7. Pull down the File menu and select [Exit].**

Notepad closes and the edits are saved in the .DAT file.

---

## **Previewing a merged form**

---

You can preview a merged form before you print using ElixirViewer.

---

### **Launching ElixirViewer**

---

To launch ElixirViewer and preview a merged form:

- 1. Open the Elixir Desktop.**
- 2. Double-click on the Documents folder.**
- 3. Double-click on the Elixir Documents folder.**
- 4. Drag and drop the .DAT file you want to preview onto the Viewer icon.**

A dialog box displays.

- 5. Enter the following: PWL\_LE.EXE**

ElixirViewer is launched and the merged form(s) displays.

---

**Viewing a file**

---

You can easily move around the file using icons in the Toolbar.

Note that some of the options in ElixirViewer are not valid for DataMerge and may be grayed out.

**GoTo Page**

To move to another page, click on the GoTo Page icon. The Page Number dialog box displays.

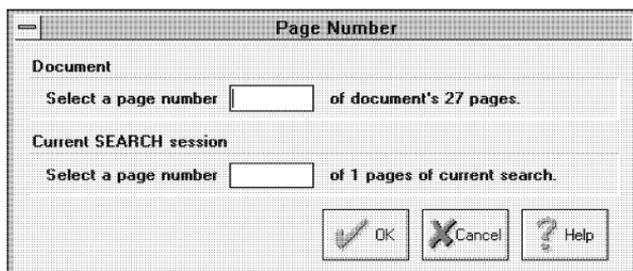


Figure 3-1. Page number dialog box

Enter a page number in the [Document] option and click on [OK]. The screen displays the selected page.

**Page up**

To move to the top of the page or to the previous page, click on the Page Up icon or press the Page Up key on your keyboard.

**Page down**

To move to the bottom of the page or to the next page click on the Page Down icon or press the Page Down key on your keyboard.

**Zoom**

To zoom in or zoom out on an area of the page, click on the [+] or [-] scroll arrow on either side of the zoom icon in the Toolbar. You can also use the <+> and <-> keys on the numeric keyboard to zoom in and out.

The highest magnification of a form is [8x] and the lowest magnification is [-8x].

---

**Opening another data file <F9>**

---

To view another .DAT file:

1. Pull down the File menu.
2. Select [Open Data File].

The Open Document dialog box displays.

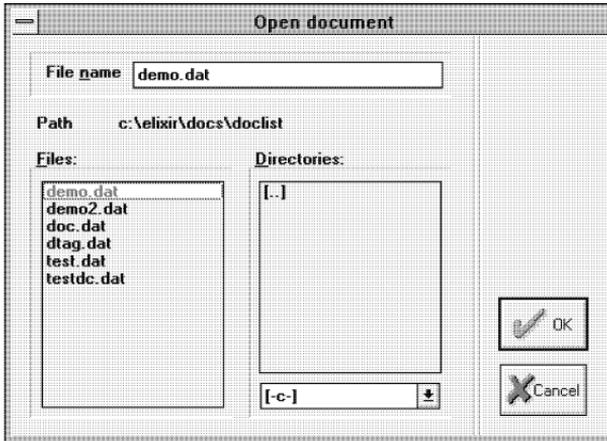


Figure 3-2. Open Document dialog box

3. Select the .DAT file you want to view.
4. Click on [OK].

The merged form displays.

## Printing a data file

---

To proof print a form with the merged data, click on the printer icon. The Print dialog box displays.

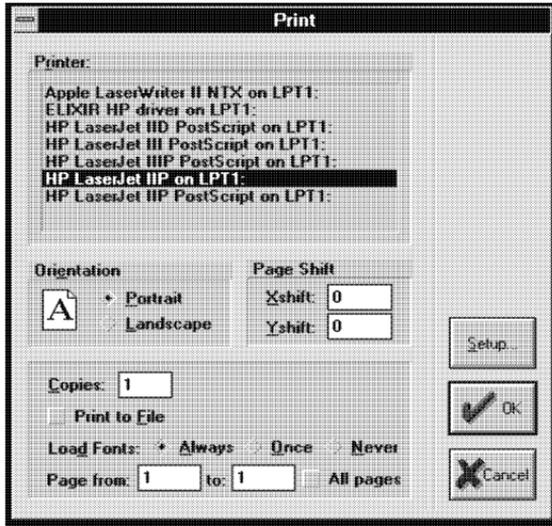


Figure 3-3. Print dialog box

Select options from the Print dialog box and click on [OK]. The following options display in the Print dialog box:

### Printer

Choose your printer as a PCL 4 or compatible, Xerox 4045 or Xerox 2700/4045 printer.

- **PCL 4 considerations**

PCL4 output for letter and legal sized forms contains an approximate 0.25-inch non-printable area for all margins. For example, if any elements on your form extend into this non-printable region they will not print.

For accurate positioning, shift the print image on the page using the Page Shift option in the Print dialog box.

- **Xerox 4045 considerations**

The Xerox 4045 does not print characters in cell positions below HEX 20.

- **PDF format**

If you have Adobe's PDFWriter printer driver installed on your PC, you can convert your form to PDF format by selecting [PDF ON FILE:] from this window. When you select this option, you are prompted for the directory and file name.

**Orientation**

Select the orientation for your page, [Landscape] or [Portrait].

**Page shift**

Select [Page Shift] to shift your proof printer output horizontally or vertically by the number of dots specified. The Xshift moves your form horizontally and the Yshift moves your form vertically.

Use a negative shift value to shift the print output to the left or down and a positive value to shift your form up or right.

The default setting for the page shift is 0. However, you may need to change the shift after some initial testing. For a PCL 4 or compatible printer, the normal or centered image value is Xshift = -60.

**Copies**

Select the number of copies you want to print.

**Print to file**

ElixirViewer allows you to print a file to disk, and to proof print the form from the disk file. This allows you to proof print your form from any PC connected to one of the supported proof printers (with or without ElixirViewer installed on the PC).

To print your form to a disk file for proof printing, all proof printer versions of the fonts used in the form must be resident on the proof printer. Select your proof printer, and then select one of the following options to load fonts:

- Select [Always] to download fonts every time you print a form.
- Select [Once] to download fonts as soft fonts on the printer. Fonts are identified by an index number, and are managed and accessed through the [Print Manager] option in Windows.

- Select [Never] to use the soft fonts previously downloaded to your printer. Fonts are referenced by index numbers, and no new fonts are downloaded.

Note that if you select [Once] or [Never], you should use the same font list in your form as on your printer. If you use a different font list, the index number may represent a different font.

When you click on [OK], you are prompted to enter a file name. Enter up to eight characters for the stem name of the file and click on [OK].

ElixirViewer creates print files and font files with the following extensions in the appropriate *drive:\ELIXIR\PRINTS\* sub-directories:

- For HP PCL printers, .PRN files are placed in the *drive:\ELIXIR\PRINTS\HPPRINT* directory.
- For Xerox 4045 (2.0) printers, .PRN and .FNT files are placed in the *drive:\ELIXIR\PRINTS\X45PRINT* directory.
- For Xerox 2700 or Xerox 4045 (2.1) printers, .PRN and .FNT files are placed in the *drive:\ELIXIR\PRINTS\X27PRINT* directory.

### **Print pages**

Enter the range of pages to print or select [All pages] to print all pages in the file.

## **Exiting ElixirViewer**

---

To exit ElixirViewer and return to the Elixir Desktop, use one of the following methods:

- Press <Alt> + <F4>.
- Pull down the **File** menu and select [Exit].
- Double-click on the Close button in the top left corner of the screen.

---

## Job print ticket file

---

A job print ticket file is an ASCII file containing commands that control the overall printing job. Note that commands in the .DAT file override settings in the job file.

You can use any text editor to create a job print ticket file. Save the file in the same directory as the .DAT file with any name and extension. .JTK or .JOB is the recommended extension.

---

### Adding commands

---

The following section describes commands (in bold) you can specify in a job print ticket file and the function of the command (underneath). Each command ends with a semi-colon and a carriage return.

Note that these commands are only applicable if your printer supports the function.

**COPIES=*n***

Specifies the number of copies of a form to be printed, where *n* is the number of copies.

**INPUT\_BIN=*n***

Specifies the input tray number to be used, where *n* is the number of the tray.

In the Xerox production printer, 0=no tray, 1=MAIN, 2=AUX3, 3=MAIN, 4=AUX, 5=AUX2, 6=AUX2.

Make sure clusters and stock sets are defined in ELIXIR.JSL (see your Xerox printer manual).

**OUTPUT\_BIN=*n***

Specifies the output tray number to be used, where *n* is the number of the tray.

**RESET\_AFTER\_JOB=YES**

Resets the printer after job completion.

**RESET\_AFTER\_JOB=NO**

Does not reset the printer after job completion.

**SIDES\_PRINTED=SIMPLEX**

Prints all pages in simplex (one-sided) mode.

**SIDES\_PRINTED=DUPLEX**

Prints all pages in duplex (double-sided) mode.

**SIDES\_PRINTED=DUPLEXINVERT**

Prints all pages in inverted duplex (inverted and double sided) mode.

**CALLFORMS=YES**

Calls forms from the printer instead of the metacode file. The .FRM file, including any fonts, logos and images, must be on the printer to use this option. When you convert the .ELX file to .FRM, make sure you select the [Include Only Fonts Used] option in the Xerox Form Converter Options dialog box.

**CALLFORMS=NO**

Calls forms from the metacode file, not the printer.

**Duplicate commands**

---

Some of the same commands can be specified in the job print ticket file, the data file and the **Setup** menu. Settings in the job print ticket file override settings in the **Setup** menu and settings in the data file override settings in **Setup** menu and settings in the job print ticket file.

**Sample job print ticket file**

---

This section shows a sample job file where all pages are printed in simplex mode, the paper output tray is tray number 2 and the reset command is sent to the printer after the job is completed.

**SIDES\_PRINTED=SIMPLEX**

**OUTPUT\_BIN=2**

**RESET\_AFTER\_JOB=YES.**

---

## 4. DataMerge operation for Windows

This chapter describes how to set up options and merge variable data with a form for output to HP PCL or PostScript format from the Elixir Desktop.

To see the DataMerge dialog boxes described in this chapter, you must have DataMerge installed on the same drive as your Elixir Desktop.

To set up options and output to HP PCL, Postscript or Xerox format using the DOS DataMerge interface, see the "DataMerge operation for DOS" chapter.

---

### Printing to the printer

---

The following section describes how to merge and print forms to an HP PCL or PostScript printer interactively using the Elixir Desktop. PCL print files are stored in *drive:\ELIXIR\DOCS\HPOUT* and PostScript print files are stored in *drive:\ELIXIR\DOCS\PSOUT*.

To merge and print a form to the printer:

1. **Open the Elixir Desktop.**
2. **Double-click on the Documents folder.**
3. **Double-click on the Elixir Documents folder.**

The .DAT files display.

4. **Drag the .DAT file you want to print to the Printers icon.**

The DataMerge Options dialog box displays.

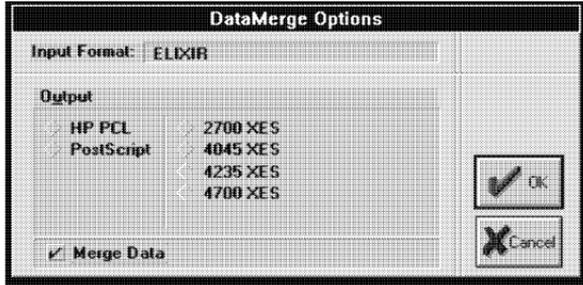


Figure 4-1. DataMerge Options dialog box.

5. **Select [Merge Data]**
6. **Select the printer and click on OK.**

See the following sections for HP PCL and Post-Script Option dialog box options.

The form(s) is merged with the variable data and printed to the printer. The HP PCL print file is stored in *drive:\ELIXIR\DOCS\HPOUT* and the PostScript file is stored in *drive:\ELIXIR\DOCS\PSOUT*.

## **HP PCL printing options**

---

When you select [HP PCL], the HP Options dialog displays.

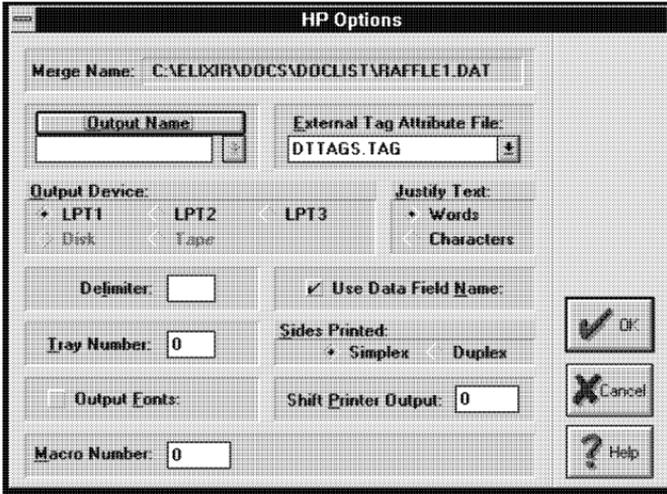


Figure 4-2. HP Options dialog box.

The HP Options dialog box contains the following options:

### Merge Name

The name of the .DAT file displays. Note that you cannot edit this field.

### Output Name

This option is valid only when printing to disk.

### External Tag Attribute File

If your form references data fields in an external tag attribute file, enter the name of the file. For more information on external tag attribute files, see the "Adding tags" chapter.

### Output Device

Select the printer port: [LPT1], [LPT2] or [LPT3].

### Justify Text

Specify how the text is positioned on the page:

- Select [Words] to justify text by increasing or decreasing the space between words.
- Select [Characters] to justify text by increasing or decreasing the space between characters. This option makes the form easier to

read but the file size is larger and takes longer to print.

### **Delimiter**

This option is only valid when using Format 3 described in the "Data files" chapter. Enter the character, or the decimal value for the character, that separates the variable data in the data file.

### **Use Data Field Name**

This option is only valid when using Format 1 described in the "Data files" chapter.

- Select this option to merge the variable data by the field name.
- Deselect this option to merge the variable data by the field number.

### **Tray Number**

Specify the input paper tray number.

### **Sides Printed**

Specify how you want the file to print:

- Select [Simplex] to print on one side of the paper only.
- Select [Duplex] to print on both sides of the paper.

### **Output Fonts**

Select this option to download your fonts to the printer. If this option is selected, make sure the fonts are converted to HP PCL format. For information on converting fonts to HP PCL format, see your *Elixir Desktop User Guide*.

### **Shift Printer Output**

This option allows you to specify the number of dots to shift the output horizontally and vertically. The typical value for HP Series II printers is -60.

### **Macro Number**

Enter a macro number, between 1 and 32767, for storing a single page job in the printer memory for later callout as a macro.

If you do not want to assign a macro number, enter 0. The default is 0. This option is for forms without variable data.

## PostScript printing options

When you select [PostScript], the PostScript Options dialog box displays.

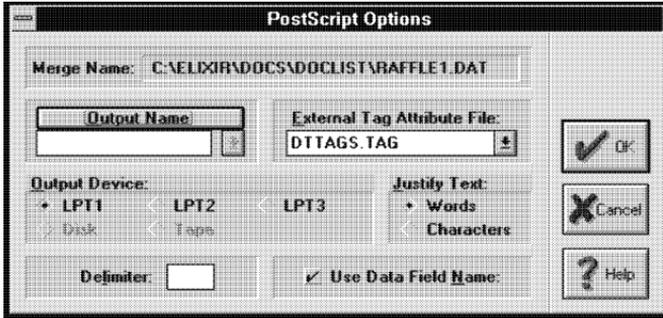


Figure 4-3. PostScript Options dialog box.

The PostScript Options dialog box contains the following options:

### Merge Name

The name of the .DAT file displays. Note that you cannot edit this field.

### Output Name

This option is valid only when printing to disk.

### External Tag Attribute File

If your form references data fields in an external tag attribute file, enter the name of the file. For more information on external tag attribute files, see the "Adding tags" chapter.

### Output Device

[LPT1], [LPT2] or [LPT3].

### Justify Text

Specify how the text is positioned on the page:

- Select [Words] to justify text by increasing or decreasing the space between words.
- Select [Characters] to justify text by increasing or decreasing the space between characters. This option makes the form easier to read but the file size is larger and takes longer to print.

### **Delimiter**

This option is only valid when using Format 3 described in the "Data files" chapter. Enter the character, or the decimal value for the character, that separates the variable data in the data file.

### **Use Data Field Name**

This option is only valid when using Format 1 described in the "Data files" chapter.

- Select this option to merge the variable data by the field name.
- Deselect this option to merge the variable data by the field number.

---

## **Printing to disk**

---

The following section describes how to merge and print forms to disk interactively for subsequent output to an HP PCL or PostScript printer using the Elixir Desktop. PCL print files are stored in *drive:\ELIXIR\DOCS\HPOUT* and PostScript print files are stored in *drive:\ELIXIR\DOCS\PSOUT*.

To merge and print a form to disk:

- 1. Open the Elixir Desktop.**
- 2. Double-click on the Documents folder.**

**3. Double-click on the Elixir Documents folder.**

The .DAT files display.

**4. Drag the .DAT file you want to print to the Converters icon.**

The Document Converter Options dialog box displays.

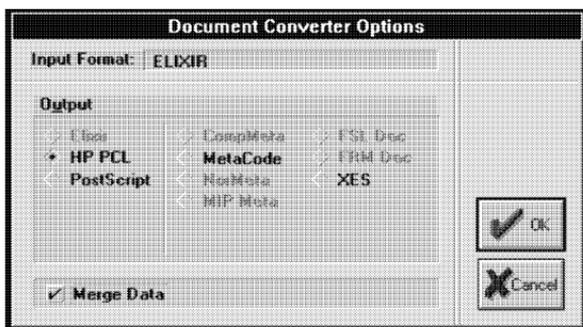


Figure 4-4. Document Converter Options dialog box.

**5. Select [Merge Data]****6. Select a printer and click on OK.**

See the following sections for HP PCL and Post-Script Option dialog box options.

The form(s) is merged with the variable data and printed to disk. The HP PCL print file is stored in *drive:\ELIXIR\DOCS\HPOUT* and the PostScript file is stored in *drive:\ELIXIR\DOCS\PSOUT*.

---

**HP PCL printing options**

---

When you select [HP PCL] the HP Options dialog box displays.

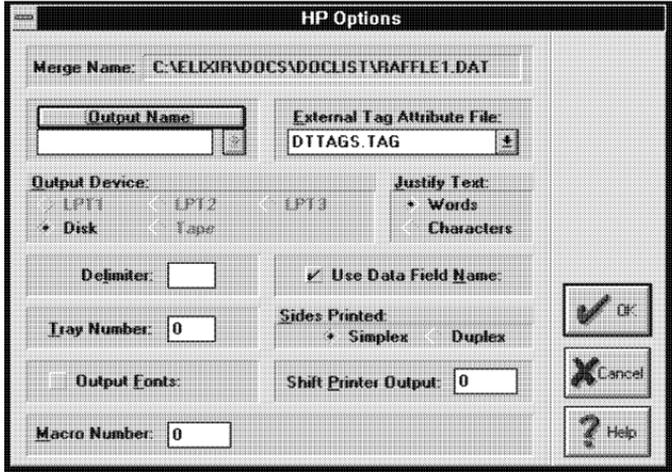


Figure 4-5. HP Options dialog box.

Specify the options in the dialog box. For a description of these options, see the "HP PCL printing options" heading in the "Printing to the printer" section in this chapter, with the following exceptions:

**Output Name**

This option is valid when printing to disk only. If you want to rename your output file, click the mouse in the window and enter a new name. If you do not enter a new name in the window, DataMerge uses the merge name for the output file.

**Output Device**

Specify [Disk].

**PostScript printing options**

When you select [PostScript], the PostScript Options dialog box displays.

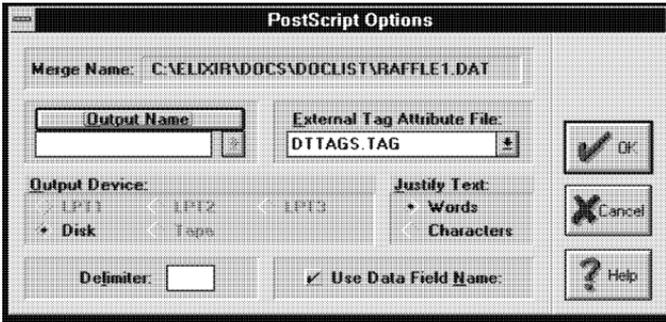


Figure 4-6. PostScript Options dialog box.

Specify the options in the dialog box. For a description of these options, see the "PostScript printing options" heading in the "Printing to the printer" section in this chapter, with the following exceptions:

#### **Output Name**

This option is valid when printing to disk only. If you want to rename your output file, click the mouse in the window and enter a new name. If you do not enter a new name in the window, DataMerge uses the merge name for the output file.

#### **Output Device**

Specify [Disk].

---

## **Operating DataMerge in batch mode**

---

You can operate DataMerge in batch mode from the DOS command line directly or through the Desktop Dispatcher. For information about operating DataMerge from the DOS command line, see the "DataMerge operation for DOS" chapter.

The following section describes how to set up a DataMerge command line in the Desktop Dispatcher. You can use the Desktop Scheduler to run the dispatcher command. See your *Elixir Desktop User Guide* for detailed information about the Dispatcher and the Scheduler utility.

The DM.CFG file contains the settings specified in the Options dialog boxes described previously. When you run DataMerge in batch mode from the Dispatcher, you can specify parameters on the command line or you can use the settings in the DM.CFG file.

Note that if you are using format 1 in your .DAT file, you must use the [-USERNAME] parameter and if you are using format 3 in your .DAT file, you must use the [-D:value] parameter (where *value* is the delimiter character used in your .DAT file). See the "Data Files" chapter for more information about .DAT file formats.

To set up a command line in the Dispatcher:

- 1. Click on the Dispatcher icon.**

The Dispatcher Commands dialog box displays.

- 2. Add the following line:**

```
drive:\ELIXIR\DM [filestemname]  
[jobfilename] [-optionalparameter]
```

**drive**

is the drive where DataMerge is installed.

**filestemname**

is the stem name of the .DAT file.

**jobfilename**

is the name of the job print ticket file with the extension.

**-optionalparameter**

is an optional parameter (or parameters) as described in the "Command line parameters" appendix.

Note that if you do not specify any optional parameters, DataMerge uses the settings in the DM.CFG file.

(See previous note about using [-USERNAME] and [-D:value] parameters when the .DAT file follows format 1 or 3.)

- 3. Click on [Setup]**

The User Application Setup dialog box displays.

4. **Select the following options: [DOS application], [Send only Filename], [Command is BAT file], [Pause after execution] and [Window].**
5. **Click on [OK].**

The Dispatcher Command dialog box displays.

6. **Click on [Start].**

DataMerge processes the .DAT file.

Note that you can also set up a command line with %1 instead of the filename and then drag a .DAT file to the Dispatcher icon, select the command line and click on [Start].

---

## 5. DataMerge operation for DOS

This chapter describes how to setup options and merge variable data onto a form for output to HP PCL (or compatible), PostScript or Xerox format from the DOS DataMerge interface.

Note that your output depends on the ElixKey you have attached.

To set up options and output to HP PCL or PostScript format using the Elixir Desktop, see the "DataMerge operation for Windows" chapter.

---

### Accessing the DataMerge main screen

---

You can set up the default selections for DataMerge from the main DataMerge screen. To access the main DataMerge screen, type DM at the drive where Elixir is installed, for example, if Elixir is installed on the C drive, type:

```
C:\>DM
```

The Main DataMerge screen displays.

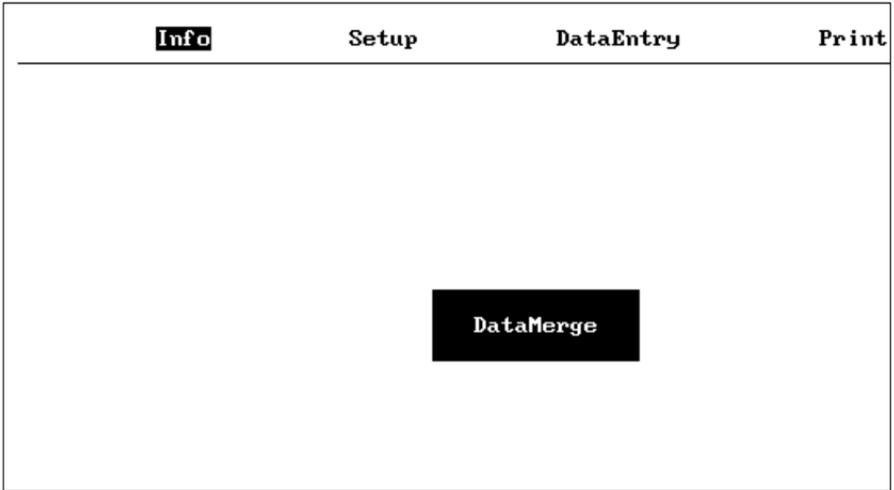


Figure 5-1. Main DataMerge screen

---

## Selecting menus

---

DataMerge uses a pull-down menu and dialog box system. To pull down a menu and select an option:

1. **Use the left and right arrow keys on the keyboard or on the numeric keypad to select a menu.**

You can also select a menu by typing in the first letter of the menu, for example, type S for the **Setup** menu.

2. **Press <Enter>.**

A submenu displays.

Note that there is no submenu for the **Info** menu or the **Quit** menu.

3. **Use the up and down arrow keys on the keyboard or on the numeric keypad to select a submenu option.**

Use the <Home> or <PgUp> key to select the first submenu option, and use the <End> or <PgDn> key to move to the last submenu option.

4. **Press <Enter>.**
5. **Specify selection.**

See the "Setting up DataMerge options" section for detailed information about the submenu options.

6. **Press <Esc> to exit from the submenu display.**

---

## Setting up DataMerge options

---

Five main menus display at the top of the DataMerge main screen. See the previous section for information on how to select a menu and display the submenu options.

---

### Info menu

---

To view the Information window, select the **Info** menu and press <Enter>. The Information window contains details about your version of DataMerge. If you experience problems using DataMerge, your customer support representative will need this information.

Press any key to exit the Information window.

---

### Setup menu

---

To change or view the setup options, select the **Setup** menu and press <Enter>. The **Setup** submenu displays.

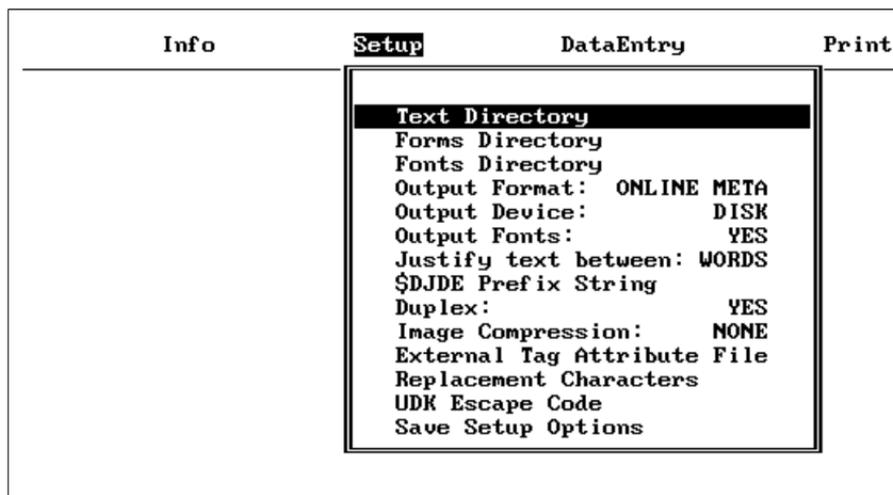


Figure 5-2. Setup window

The **Setup** menu contains the following options. To save any changes, select [**Save Setup Options**] and press <Enter>.

#### **Text Directory**

Specify the directory where the data (.DAT) files are stored. The default text directory is *drive:\ELIXIR\DOCS\DOCLIST*.

#### **Forms Directory**

Specify the directory where the Elixir (.ELX) format files are stored. The default directory is *drive:\ELIXIR\FORMS\ELIXIR\DEMO*.

#### **Fonts Directory**

Specify the directory where the font (.FNT) files are stored. The default directory is *drive:\ELIXIR\FONTS\SCREEN\DEMO*.

#### **Output Format**

Specify the output format for the job:

- [HP] (Hewlett-Packard printer format)
- [OFFLINE META] (Xerox metacode format for off-line installations)

- [ONLINE META] (Xerox metacode format for on-line, channel-attached installations)
- [POSTSCRIPT] (For any postscript-compatible printer)
- [4235] (Xerox 4235 printer format)
- [4700] (Xerox 4700 printer format)
- [4045] (Xerox 4045 printer format)
- [2700] (Xerox 2700 printer format)

**Output Device**

Specify the output device for your job:

- [DISK]
- [TAPE]
- [LPT1]
- [LPT2]
- [LPT3]

Note that if you select [TAPE] and have no tape on the system, DataMerge automatically writes the file to disk.

**Output Fonts**

Specify whether or not the fonts are downloaded to the printer (HP PCL and XES only).

- Select [YES] to download the required fonts to the printer.
- Select [NO] if you do not want to download any font files to the printer. Select this option only if the required fonts already reside on the output printer.

### **Justify text between**

Specify how the text is justified:

- Select [WORDS] to justify text by increasing or decreasing space between words.
- Select [CHARS] to justify text by increasing or decreasing space between individual characters. This option makes the form easier to read, but the file size is larger and takes longer to print.

### **\$DJDE Command String**

Specify the Dynamic Job Descriptor Entry string that is coded in the PREFIX statement of your printer's JSL. The PREFIX statement specifies the string that delimits the start of a DJDE record within the normalized metacode datastream.

The DJDE command string can be up to ten characters long. It is important that the PREFIX statement delimiter specified in DataMerge is identical to the delimiter specified in the PREFIX parameter of the JSL used in your environment.

### **Duplex**

Specify whether or not you want to print in duplex.

- Select [YES] to print in duplex (on both sides of the page).
- Select [NO] to print on only one side of the page.

### **Image Compression**

Specify how the image files are compressed.

- Select [NONE] if you do not want .IMG files compressed.
- Select [PARTIAL] to partially optimize the .IMG files. This setting compresses both

duplicate lines and blank (null) lines within the .IMG file.

- Select [FULL] to optimize for white space within lines in the .IMG file.

This setting takes the longest time to print and produces the smallest .IMG files. If you are dealing with documents that have graphic images of more than a half page and you are printing on a Xerox 8700 or 9700 series printer, you should select [FULL].

Included with DataMerge is a stand-alone utility called METACOMP. METACOMP compresses metacode files containing uncompressed IMG files. See the "Stand-alone utility chapter for more information on this utility.

### **External Tag Attribute File**

If your form references data fields in an external tag attribute file, enter the name of the file. For more information about external tag attribute files, see the "Adding tags" chapter.

### **Replacement Characters**

Specify the Replacement Characters. The default characters are @, #, !, ".

Make sure that the replacement characters are characters that do not appear anywhere else in the text.

### **UDK Escape Code**

Specify an escape code from 0-255. The UDK escape code separates printer commands from text to be printed.

When outputting Xerox 4045 or 2700 format files, the UDK escape code can be any character (or combination of characters) of your choice, as long as the code is not found in the text file itself.

The default UDK escape code is 27. You can not use the default UDK escape code if you are printing to an online, UDK printer.

### **Shift Printer Output**

This option allows you to specify the number of dots to shift the output horizontally and vertically. The typical value for HP Series II printers is -60.

### **Tray Number**

Specify the input tray number.

### **Macro Number/Priority**

Enter a macro number, between 1 and 32767, for storing a single page job in the printer memory for later callout as a macro. (HP only)

If you do not want to assign a macro number, enter 0. The default is 0. This option is for forms without variable data.

### **Interface**

Select the interface option:

- Select [ASCII] to produce ASCII output for writing to disk.
- Select [EBCDIC] to produce EBCDIC output for Xerox printers connected to your PC via coaxial cable and a protocol converter.
- Select [SMARTBOX] if your PC is connected to the printer through a Smartbox or Agile protocol converter.

### **Job File Name**

Specify the job file name. A job file containing commands that control the overall print job must be in the directory specified in the [Text directory] option. See the "Data files" chapter for information about creating a job file.

### **Save Setup Options**

To save the current settings selected in the submenu options of the **Setup** menu, select [Save Setup Options] and press <Enter>. The settings are written to disk and used when DataMerge is invoked.

## DataEntry menu options

The **DataEntry** menu allows you to set up a new data file (.DAT) or edit an existing one and tag an Elixir file. See the "Data Files" chapter for detailed information about creating a .DAT file using a text editor.

To view the DataEntry options, select the **DataEntry** menu and press <Enter>. The **DataEntry** submenu displays.

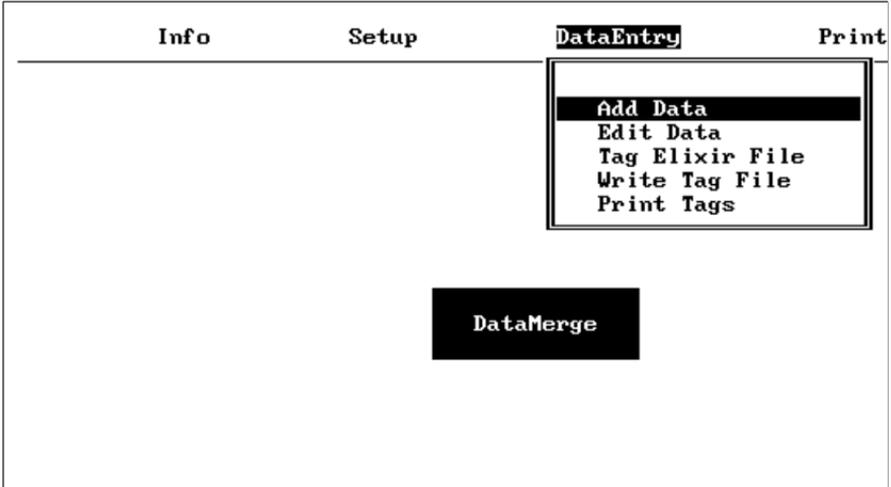


Figure 5-3. DataEntry window

The **DataEntry** menu contains the following options:

### Add Data

The [Add Data] option allows you to create a new data file.

To create a new data file:

1. **Select [Add Data] and press <Enter>.**

The .DAT files in the text directory display.

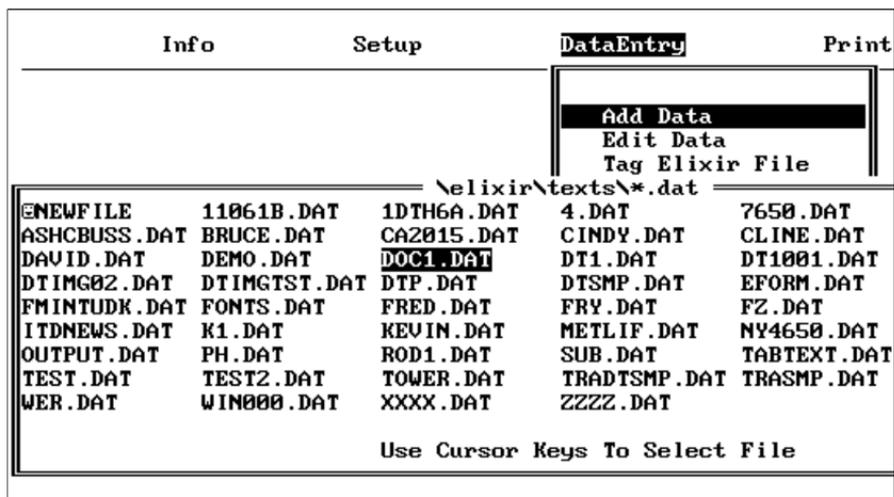


Figure 5-4. Add Data window.

**2. Select [NEWFILE] and press <Enter>.**

A New Data File Name window displays.

**3. Enter a new file name and press <Enter>.**

The Elixir form (.ELX) files in the specified forms directory display.

**4. Select a tagged .ELX form and press <Enter>.**

A window displays a list of the tags on the form.

**5. Enter the variable data for each tag.**

Use the down arrow on the keyboard to move to the next tag in the list until all the tags are completed.

**6. Press <Enter> to end data entry and press <Enter> again to return to the Forms directory window.**

**7. Press <Esc> to return to the DataEntry submenu.**

To add data to an existing data file:

**1. Select [Add Data] and press <Enter>.**

The .DAT files in the specified text directory display.

2. **Select the file you want to add data to and press <Enter>.**

The Elixir form (.ELX) files in the specified forms directory display.

3. **Select a tagged form and press <Enter>.**
4. **Follow steps 5 - 7 for creating a new file (described above).**

### Edit Data

The [Edit Data] option allows you to view the data in a .DAT file.

To view a .DAT file:

1. **Select [Edit Data] and press <Enter>.**

The .DAT files in the specified text directory display.

2. **Select the .DAT file you want to view and press <Enter>.**

The variable data in the first form displays.

Info	Setup	DataEntry	Print
		Add Data <b>Edit Data</b> Tag Elixir File Write Tag File Print Tags	
Form: CALCDemo			
<pre> 1. name....: ssdfas 2. price...: (1*2).....: 0 4. discount: 5. tax.....: (1*2-4+5)...: 0           </pre>			

Figure 5-5. Edit Data window

3. Press <Enter> to view the variable data in the next form.
4. Continue to press <Enter> to view the variable data in the all the forms in the .DAT file.

### Tag Elixir File

This option allows you to specify and modify the attributes for data fields in form files referenced in a .DAT file.

To specify and modify attributes:

5. Select [Tag Elixir File] and press <Enter>.

The Elixir form (.ELX) files in the specified forms directory display.

6. Select a tagged form and press <Enter>.

A window displays the list of attributes for the first tag.

Info	Setup	DataEntry	Print
		Add Data Edit Data <b>Tag Elixir File</b> Write Tag File Print Tags	
		Form: CALCDEMO	
Field Number.....: 1 Field Name.....: name Field Length.....: 6 Replacement Character: # Mandatory or Optional: M Delete After Use.....: Y Field End.....: \$ Multi.....: 0 Align.....: 0 Depth.....: 1 Field Cap.....: **/**/**			

Figure 5-6. Tag Elixir File window

7. Enter or edit the attributes for the first tag.

Use the up and down arrow keys on the keyboard to move the cursor to the next field attribute.

See the "Adding tags" chapter for detailed information about each field attribute.

8. Press <Enter> to display and edit the attributes of the next tag.

### Write Tag File

Use this option to create an external tag attribute file. An external tag attribute file specifies the attributes associated with tag position markers (%%n;) in a Windows-based document.

See the "Adding tags" chapter for information about creating an external tag attribute file using the ElixirTag utility.

To write a tag file:

1. Select [Write Tag File] and press <Enter>.

The .DAT files in the specified text directory display.

2. Select a .DAT file and press <Enter>.
3. Select a new tag file name with a .TAG extension or press enter to accept the current file name.

The default file is the file specified in the [External Tag Attribute File] option in the **Setup** menu.

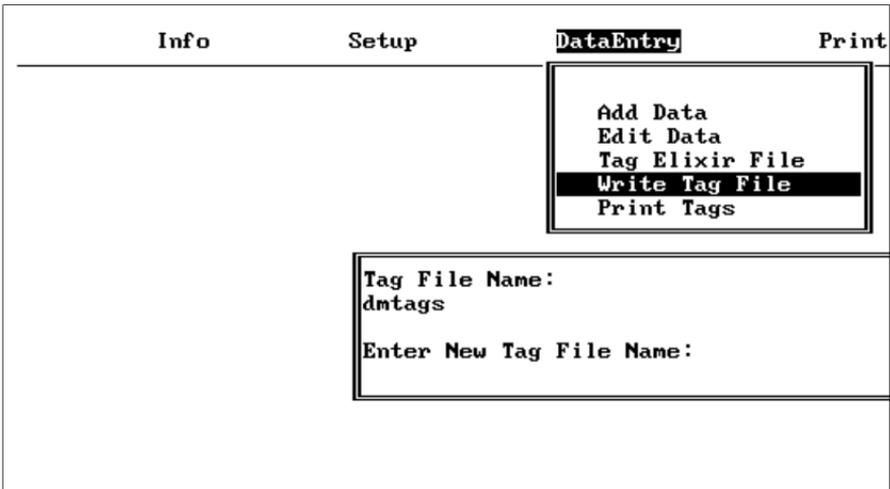


Figure 5-7. Write Tag File window

DataMerge writes all tags and associated attributes found in all the Elixir files referenced in the selected .DAT file to an external tag attribute file.

This file consists of %%n, where n is the Field Number followed by a list of the attributes for each field number. You can create this file in any text editor, or by using the [Write Tag File] option to create it automatically.

If any Elixir form files contain data fields with missing attributes, DataMerge uses the attributes from the external tag attribute file during printing. Data fields with all attributes specified are not overwritten by the tag attributes found in the external tag attribute file.

### **Print Tags**

You can print a report showing each DataMerge data field and the tag attributes of Elixir files referenced in a selected .DAT file.

To print a tag file:

- 1. Select [Print Tags] and press <Enter>.**

The .DAT files in the specified text directory display.

- 2. Select a file and press <Enter>.**

The report showing each data field is sent to the printer specified in the [Output Format] option in the **Setup** menu.

## **Print menu**

---

The **Print** menu option allows you to print a .DAT file to the printer specified in the **Setup** menu using the [Output Format] option.

To print a .DAT file:

- 1. Select the Print menu and press <Enter>.**

The .DAT files in the specified text directory display.

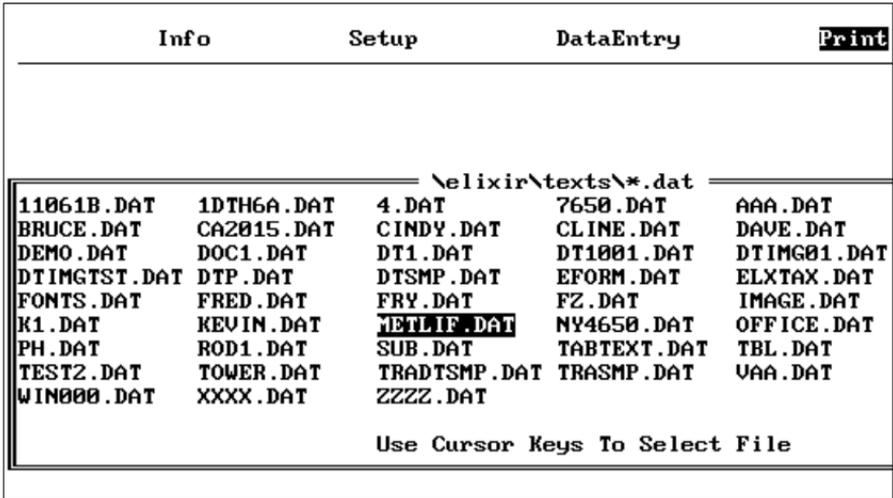


Figure 5-8. Print window

## 2. Select the .DAT file you want to print.

To move from one file to another, you can either use the arrow keys on the keyboard, or you can enter the first letter of the filename you want to print (uppercase or lowercase).

## 3. Press <Enter>.

The selected file and the merged data is printed

See the "Data files" chapter for information about using ElixirView software to view the form merged with the variable data.

## Quit option

To quit the DataMerge program and return to the DOS prompt, select the **Quit** menu and press <Enter>.

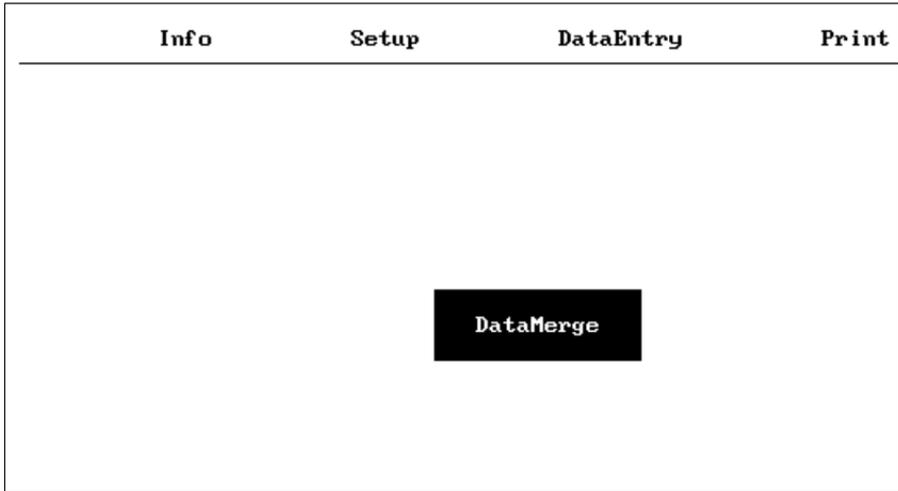


Figure 5-9. Quit option

## Operating DataMerge in batch mode

You can operate DataMerge in batch mode from the DOS command line directly or through the Desktop Dispatcher. For information about operating DataMerge from the Dispatcher, see the "DataMerge operation for Windows" chapter.

When you operate DataMerge in batch mode, you can either specify the parameters in the command line or you can use the settings in the DM.CFG file.

### Operating DataMerge using parameters

To operate DataMerge using parameters, type the following at the DOS prompt:

```
DM [filestemname] [jobfilename] [-optionalparameter]
```

**filestemname**

is the stem name of the .DAT file.

**jobfilename**

is the job file name including path and stem.

**-optional parameter**

is an optional parameter (or parameters) as described in the "Command line parameters" appendix.

If you do not specify any optional parameters, or if a parameter is missing, DataMerge uses the settings in the DM.CFG file.

Note that if you are using format 1 in your .DAT file, you must use the [-USERNAME] parameter and if you are using format 3 in your .DAT file, you must use the [-D:*value*] parameter (where *value* is the delimiter character used in your .DAT file). See the "Data Files" chapter for more information about .DAT file formats.

---

**Operating DataMerge using the DM.CFG file**

---

The DM.CFG file contains the settings specified in the **Setup** menu described previously. For information on changing the setup parameters, see the **Setup** menu section in this chapter.

To operate DataMerge using settings in the DM.CFG file, type the following at the DOS prompt:

```
DM [filename] [-D:value] [-username] <Enter>
```

**filename**

is the stem name of the .DAT file to be processed.

**-D:value**

If you are using format 3 in your .DAT file, you must use the [-D:*value*] parameter where *value* is the delimiter character used in your .DAT file.

**-username**

If you are using format 1 in your .DAT file, you must use the [-USERNAME] parameter

See the "Data Files" chapter for more information about .DAT file formats.

DataMerge looks for the .DAT file in the text directory specified in the DataMerge configuration file, (DM.CFG). You do not have to specify the file extension of the .DAT file.

---

## 6. Moving and printing files

This chapter describes how to use several popular file transfer packages to transfer files between your PC and a host computer running the IBM MVS operating system.

Files for printing on channel-attached Xerox production or distributed printers can be stored on a host computer.

When you transfer FSL, FRM or metacode files to the printer for printing, you must also transfer any .LGO, .IMG or .FNT files referenced in your documents. Note that metacode files have the .IMG files embedded.

FRM, FSL, logo, image, and font files are also referred to as Xerox-labeled files, because the files contain 128-byte Xerox headers (or labels).

In an off-line environment, tape and Xerox-format diskettes are used to move files. In an on-line environment, PC/host file transfer packages are used to move files. Supported file transfer packages include the IBM 3270, IRMA FT/3270, and IRMA FT/TSO.

---

### Moving on-line Xerox-labeled files

---

This section describes procedures for transferring Xerox-labeled files from a PC (through an IBM host running MVS) to a production printer.

To upload FSL files, first run the PACK utility on the files to convert them to Xerox 128-byte format (see the "Stand-alone utilities" chapter for information on the PACK utility).

1. **Configure one of the supported file transfer utilities.**

2. **Upload the files to the MVS host.**
3. **Download all files from the host computer to your production printer using one of the following methods:**
  - **the HOSTCOPY utility**
  - **the DJDE FILE command in the job JSL**

The above steps are described in the following sections.

## **Configuring the file transfer package**

---

To upload Xerox-labeled files from your PC to an MVS host, we recommend one of the following file transfer packages: IBM 3270, IRMA FT/3270, or IRMA FT/TSO.

Make sure the card for the appropriate file transfer package is installed on your PC, and that the corresponding file transfer software is installed both on your PC and on the MVS host.

## **Uploading files to the host**

---

The following sections describe how to upload Xerox-labeled files and text files from your PC to an MVS host using IBM 3270, IRMA FT/3270, and IRMA FT/TSO.

### **Uploading Xerox-labeled files with IBM 3270 or IRMA FT/3270**

---

The IBM 3270 and IRMA FT/3270 file transfer packages are similar. Both require that you first prepare the host for receiving Xerox-labeled files by allocating a data set with the following DCB specifications:

DCB=(LRECL=128,BLKSIZE=128,RECFM=FB)

This specifies a Xerox-labeled file with a record length of 128 bytes, block length of 128 bytes, and fixed-block (FB) record format.

Upload a Xerox-labeled file by typing the following command at the DOS prompt:

```
SEND    [path]pcfilename    'hostfilename'  
<Enter>
```

**path**

is the optional DOS pathname

**pcfilename**

is the name of the Xerox-labeled file on your PC, including extension.

**hostfilename**

is the host dataset receiving the file (hostfilename *must* be enclosed in single quotes).

'hostfilename' can refer to either a physical sequential or a partitioned dataset.

For example, if transferring to a physical sequential dataset, 'hostfilename' may be as follows:

```
'CM.EIO.DATA.UPLOAD'
```

If transferring to a partitioned dataset, 'hostfilename' can include the stem name of the files being transferred, enclosed in parentheses, as part of the dataset name as follows:

```
'CM.EIO.DATA.UPLOAD(filename)'
```

**Uploading text files with IBM 3270 or IRMA  
FT/3270**

---

To upload a text file, first allocate a dataset on your host with the following DCB parameters:

```
DCB=(LRECL=255,BLKSIZE=3000,RECFM=VB)
```

Add the ASCII and EBCDIC statements to the end of SEND and RECEIVE commands, respectively, for .FSL files only.

To send a text file to an MVS host, type the following command from the DOS prompt.

**SEND** [*path*]*pcfilename* '*hostfilename*' ASCII  
<Enter>

This command uploads the Xerox-labeled file *pcfilename* to the host dataset *hostfilename*. A DOS directory path before *pcfilename* is optional. The ASCII parameter at the end of the command string translates the file from ASCII to EBCDIC.

Note that to download a text file from the host, you type the following command:

**RECEIVE** [*path*]*pcfilename* '*hostfilename*'  
EBCDIC <Enter>

This command downloads the Xerox-labeled file *hostfilename* to the PC file *pcfilename*. A DOS directory path before *pcfilename* is optional. The EBCDIC parameter at the end of the command string translates the file from EBCDIC to ASCII.

### Uploading Xerox-labeled files with IRMA FT/TSO

Use the following procedure to upload a Xerox-labeled file with IRMA FT/TSO:

Type **FTTSO** <Enter> at the DOS prompt to start the FTTSO software and display the IRMA FT/TSO screen.

IRMAlink FT/TSO Ver. 1.10 Copyright 1984 Digital Communications Associates	
PC filename:	
Data set name:	
Transfer type: XEROX	
Function Keys	Transfer Parameters
1 <input type="text"/>	Block size: 128
2 Help	Record size: 128
3 <input type="text"/>	Record format: FIXED
4 Ers Inp	BLOCKED
5 Save Type	Line numbers -
6 Ers EOF	Position: 0
	Transfer Expands
	Truncate s
	U/L
	Volume s
	Space

Figure 6-1. FT/TSO transfer parameters

Change the file transfer parameters as follows:

1. Use the <Tab> key to move the cursor into the data entry field following [Transfer type:].

2. Type a name under which you want to save Xerox-labeled file transfer parameters (described in step 4). The example in the above figure shows XEROX.
3. Press <F5>.

The Transfer Parameters menu displays in the bottom right corner of the screen.

4. Use the <Tab> key to move between transfer parameter fields and enter the following values:
 

Block size:	128
Record size:	128
Record format:	FB
Line numbers:	Position: 0 Length: 0
Code table:	STD
Transfer mode:	BINARY
Expand TABs:	NO
Truncate spaces:	NO
U/L case:	ASIS
Space Units:	TRKS
Primary qty:	1
Secondary qty:	2

The values above are for transferring Xerox-labeled files. To transfer text files, you must use different values for some parameters. Since text files may be stored on host computers in datasets with different DCB parameters, you must tailor the transfer parameters to match the text file DCB parameters used at your site. Listed below are some typical values used for transferring text files:

Block size:	3000
Record size:	255
Record format:	VB
Line numbers:	Position: 0 Length: 0
Code table:	STD
Transfer mode:	TEXT
Expandtabs:	NO
Truncate spaces:	NO
U/L case:	ASIS
Space units:	TRKS
Primary QTY:	1
Secondary QTY:	2

To upload files with IRMA FT/TSO, use the following procedure:

1. **Enter the name of the PC file you want to upload and press <Tab>.**

**Optionally, precede the file name with a DOS directory path.**

2. **Enter the name of the host dataset to which you want to upload the file and press <Tab>.**
3. **Enter the appropriate transfer type for sending Xerox-labeled files (binary).**
4. **Press <F1> to upload the file.**

## **Downloading files from the host to the printer**

---

Download files from the host computer to the production printer using one of the following methods:

- the HOSTCOPY utility
- the DJDE FILE command

The following sections describe the two downloading methods and also compare the differences between them.

### **HOSTCOPY and FILE comparison**

---

Using the HOSTCOPY utility involves the following steps:

1. **Make sure that all of the files used in the job are resident on the printer.**
2. **Reboot the printer.**
3. **Download the files using HOSTCOPY.**
4. **Reboot the printer again.**
5. **Start the print job.**

Using the FILE command requires that you add the FILE command to the JSL which will dynamically download all files at print time.

The advantages of using the FILE command rather than HOSTCOPY to download files are:

- Using the FILE command frees up disk space on the printer.
- As files do not have to be resident on the printer, an additional level of security can be maintained.
- Using the FILE command does not require switching the printer from production mode to HOSTCOPY mode and saves valuable printer time.
- As files are downloaded during print time, the current and correct versions of the files are used (when using HOSTCOPY, it is important to check that all files resident on the printer and used for the job are the correct versions).

### **Using the HOSTCOPY utility**

---

To use the HOSTCOPY utility, use the following procedure:

- 1. Upload ENDFILE.END.**
- 2. Prepare the appropriate JCL.**
- 3. Place the printer in HOSTCOPY mode.**
- 4. Download the files.**

#### **Uploading ENDFILE.END**

After uploading Xerox-labeled PC files, upload the ENDFILE.END file (copied to the *drive*:\ELIXIR directory during installation) to the host. Use the procedure described in the "Uploading with IBM 3270 or IRMA FT/3270" section of this chapter.

### Preparing JCL

After uploading Xerox-labeled files and the ENDFILE.END files to the host, use the IBM IEBGENER utility to build a JCL dataset for sending the files to a channel-attached 9700 series printer.

An example of a JCL dataset is given below. You must modify the JCL to include the names of the files you want to send to the printer.

```
-----  
//00D42DA      JOB      (8200,Z200-Z20001),'LARACEY  
7-1994',CLASS=A  
//MSGCLASS=J,NOTIFY=00D42D,USER=00D42D,PRTY=4  
/* JOBPARM L=9999  
/*  
/* JCL to send a Xerox-labeled file to a 9700 series printer  
/*  
//XR9700 OUTPUT DEST=R269  
/*  
/* This step copies the file UN110E.FNT  
/* to the Xerox printer's output destination  
/* class  
/*  
//STEP1 EXEC PGM=IEBGENER  
//SYSPRINT D SYSOUT=*  
//SYSUT1 DD UNIT=DISK,DISP=OLD,  
//DSN=00D42D.0Z200.UN110E.FNT.DATA,  
//DCB=(LRECL=128,BLKSIZE=128,RECFM=FB)  
//SYSUT2 DD SYSOUT=O  
/*  
/* This step copies the ENDFILE.END file  
/* to the Xerox printer's output destination  
/* class to terminate the HOSTCOPY procedure  
/*  
//STEP2 EXEC PGM=IEBGENER  
//SYSPRINT D SYSOUT=*  
//SYSUT1 DD UNIT=DISK,DISP=OLD,  
//DSN=00D42D.0Z200.ENDFILE.END.DATA,  
//DCB=(LRECL=128,BLKSIZE=128,RECFM=FB)  
//SYSUT2 DD SYSOUT=O  
//OUTPUT=*.XR9700  
//SYSIN DD DUMMY  
/*  
-----
```

### Placing the printer in HOSTCOPY mode

To place a channel-attached, production printer in HOSTCOPY mode, follow these steps:

1. **Switch the printer to OFF-LINE.**

The printer status displays OFF-LINE IDLE at the printer console.

2. **Press the printer BOOT switch.**

The printer console displays a command menu with the following system prompt:

```
ENTER COMMAND
```

3. **Enter the following command:**

```
HOSTCOPY <Enter>
```

The following message displays:

```
*SYSGEN RUNNING FOR HOSTCOPY ON-  
LY*THIS IS A FILE COPYING PROCEDURE,  
NOT A SYSGEN CONTINUE OR ABORT? EN-  
TER 'C' OR 'A'
```

4. **Enter:**

```
C <Enter>
```

The printer displays the following message:

```
WAITING TO READ FILES FROM HOST
```

The printer is now in HOSTCOPY mode and ready to accept files from the host.

### **Copying Xerox-labeled files to the printer**

After placing the printer in HOSTCOPY mode, run the JCL job to send the Xerox-labeled and ENDFILE.END files to your printer.

Note that ENDFILE.END must be the last file you send to the printer.

The following message displays at the printer console, indicating that files are being received:

```
CREATING FILE xxxxxx.yyy
```

When the printer detects the ENDFILE.END file, the following message displays:

END OF TAPE FOUND  
IS ANOTHER TAPE TO BE SENT? Y OR N

If you want to send more files, type **Y** <Enter>.

If you are done transferring files, press **N** <Enter> to display:

VARY OFFLINE AT HOST, THEN ENTER C

Enter C to stop the copy-to-printer operation.

Reboot the printer.

The Xerox-labeled files are now installed on the production printer.

### **Using the FILE command**

---

This requires that you embed the DJDE FILE command in the job JSL. The FILE command causes files to be dynamically downloaded to the printer at print time. The command syntax is as follows:

**FILE=filename, filetype [, [f][, [s][, n]]]**

**filename**

is a one- to six-character file name.

**filetype**

is a three character file symbol for the appropriate file; LGO, IMG, FSL, FNT, or FRM.

**f**

is C (for card-image format) or L (for tape format, the default).

**s**

is D (to delete files after printing) or P (to keep the files after printing, the default).

**n**

is the maximum number of card-images (default = 120).

After adding the FILE command to your JSL statements, compile the JSL and START the compiled JDL at the printer console to run the print job.

See your Xerox Laser Printing System Reference Manual for more information.

---

## Moving and printing on-line metacode files

---

The following section describes how to move and print on-line metacode files.

---

### Online metacode file format

---

The fixed blocked on-line metacode file has the following format for each 540 byte block:

**Bytes 0 to 3** - Block length (hex).

**Bytes 4 to 7** - Length of first metacode record (hex).

**Bytes 8 to  $n$**  - First metacode record, where  $n$  is 7 plus the length specified in bytes 4 to 7.

**Bytes  $n + 1$  to 540** - The remainder of each 540 byte block consists of a series of four byte record descriptor words followed by a corresponding metacode record.

The record descriptor words specify the length of each metacode record. The end of each 540 byte block may be padded with hex zeros.

---

### Printing on-line metacode files

---

To print on-line metacode files produced by DataMerge:

1. **Upload the file to the host.**
2. **Set up the default on-line JSL on the printer.**
3. **Set up the Elixir on-line JSL on the printer.**
4. **Compile the JSL on the printer.**
5. **Prepare the JCL data set on the host.**

## 6. Copy the file to your printer.

### Uploading metacode files to the host

---

To upload metacode files from your PC to an MVS host, use a file transfer package such as IBM 3270, IRMA FT/3270, or IRMA FT/TSO.

Make sure the card for the appropriate file transfer package is installed on your PC, and that the corresponding file transfer software is installed on both your PC and the MVS host.

#### Uploading with IBM 3270 or IRMA FT/3270

---

The IBM 3270 and IRMA FT/3270 file transfer packages require that you first prepare the host for receiving metacode files by allocating a data set with the following DCB specifications:

```
DCB=(LRECL=540,BLKSIZE=540,RECFM=FB)
```

This specifies a file with a record length of 540 bytes, block length of 540 bytes, and fixed-block (FB) record format.

You then upload a metacode file by typing the following command at the DOS prompt:

```
SEND      [path]pcfilename      'hostfilename'  
<Enter>
```

#### **path**

is the optional DOS path pcfilename is the name of the metacode file on your PC, including extension.

#### **hostfilename**

is the host dataset receiving the file (hostfilename must be enclosed in single quotes).

'hostfilename' can refer to either a physical sequential or a partitioned dataset.

For example, if transferring to a physical sequential dataset, 'hostfilename' may be as follows:

```
'CM.EIO.DATA.UPLOAD'
```

If transferring to a partitioned dataset, 'hostfilename' can include the stem name of the files being transferred, enclosed in parentheses, as part of the dataset name as follows:

'CM.EIO.DATA.UPLOAD(filename)'

### **Uploading with IRMA FT/TSO**

Use the following procedure to upload a Xerox-format file with IRMA FT/TSO:

Type **FTTSO** <Enter> at the DOS prompt to start the FT/TSO file transfer software and display the IRMA FT/TSO screen shown in the previous figure.

Change the file transfer parameters as follows:

1. Use the <Tab> key to move the cursor into the data entry field following [Transfer type:].
2. Type a name under which you want to save Xerox-labeled file transfer parameters (described in step 4). The example in the previous figure shows XEROX.
3. Press <F5>.

The Transfer Parameters menu displays in the bottom right corner of the screen.

Use the <Tab> key to move the cursor between transfer parameter fields and enter the following values:

Block size:	540
Record size:	540
Record format:	FB
Line numbers:	Position: 0 Length: 0
Code table:	STD
Transfer mode:	BINARY
Expand TABs:	NO
Truncate spaces:	NO
U/L case:	ASIS
Space units:	TRKS
Primary qty:	1
Secondary qty:	2

To upload files with IRMA FT/TSO:

1. Enter the name of the PC file you want to upload and press <Tab>.

Optionally, precede the file name with a DOS directory path.

2. Enter the name of the host dataset to which you want to upload and press <Tab>.
3. Enter the appropriate transfer type for sending Xerox-labeled files (binary).
4. Press <F1> to upload the file.

### **Setting up on-line default JSL**

---

The following is an example of a default JSL file used in an ONLINE environment. The default JSL used at your installation will be different. -

```
-----  
DFAULT:JDL  
VFU1: VFU    ASSIGN=(1,1),TOF=1,BOF=66;  
PDEDFT:    PDE BEGIN=(1,,5),PMODE=LANDSCAPE,  
           FONTS=(LO112B);  
           ACCT USER=NONE;  
           VOLUME HOST=IBMONL,CODE=EBCDIC;  
           IDEN PREFIX=`$DJDE$`,SKIP=10,  
           OFFSET=1,OPRINFO=NO;  
           RECORDLENGTH=200;  
TBAN1:TABLE CON=(` START JOB`,` START STC`,` START TSU`);  
TBAN2: TABLE CON=(` END JOB`,` END STC`,` END TSU`);  
CBAN1: CRITERIA CONSTANT=(3,9,EQ,TBAN1);  
CBAN2: CRITERIA CONSTANT=(4,8,EQ,TBAN2);  
RAXT:      TABLE CONSTANT=X` 111111111111111111`;  
ROFT:      TABLE CONSTANT=X` 1212121212121212`;  
RSTK:      TABLE CONSTANT=X` 1313131313131313`;  
RAX:       CRITERIA CONSTANT=(1,8,EQ,RAXT);  
ROF:       CRITERIA CONSTANT=(1,8,EQ,ROFT);  
RST:       CRITERIA CONSTANT=(1,8,EQ,RSTK);  
RSTACK TEST=RST,DELIMITER=YES;  
           BANNER  
TEST=(CBAN1,OR,CBAN2),HCOUNT=1,
```

```

TOUNT=1, HJOBNO=(13,4);
LINE DATA=(0,400),VFU=VFU1,FCB=IGNORE,
UCSB=IGNORE,FONTINDEX=(0,ZERO);

```

```

OUTPUT GRAPHICS=YES,PURGE=YES,
OFFSET=NONE,
DUPLEX=YES,FORMAT=PDEDFT;

```

```

DFLT: JDE;
END;

```

-----

Note that for printing on HighLight color printers, copy the following lines from the ELIXIC.JSL (supplied with DataMerge and written to *drive*:\ELIXIR during installation) to your default JSL. ELIXIC.JSL is listed in the "Moving and printing offline metacode" section of this chapter.

- Add the following lines after line 2 of your default JSL:

```

RED1: IDR ICATALOG=XEROX,
      PALETTE='PICTORIAL',
      ILIST = ('BLACK','RED');
BLUE1: IDR ICATALOG=XEROX,
        PALETTE='PICTORIAL',
        ILIST = ('BLACK','BLUE');
GREEN1: IDR ICATALOG=XEROX,
         PALETTE='PICTORIAL',
         ILIST = ('BLACK','GREEN');

```

- Add the following lines after the DFLT: JDE; statement and before the END statement of your default JSL:

```

RED: JOB;
      OUTPUT   IDR=RED1,IRESULT=BLACK;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
      TINUE,    ISUBSTITUTE=ANY;
BLUE: JOB;
      OUTPUT   IDR=BLUE1,IRESULT=BLACK;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
      TINUE,    ISUBSTITUTE=ANY;
GREEN: JOB;
      OUTPUT   IDR=GREEN1,IRESULT=BLACK;
      ABNORMAL ERROR=CONTINUE, IMISMATCH=CON-
      TINUE,    ISUBSTITUTE=ANY;
RLEG: JOB;
      OUTPUT   IDR=RED1, IRESULT=BLACK,
              PAPERSIZE=USLEGAL;

```

```

ABNORMAL ERROR=CONTINUE,IMISMATCH=CONTINUE,
ISUBSTITUTE=ANY
BLEG: JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
              PAPERSIZE=USLEGAL;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
CONTINUE,    ISUBSTITUTE=ANY
GLEG: JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
              PAPERSIZE=USLEGAL;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
CONTINUE,    ISUBSTITUTE=ANY
RA4: JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
              PAPERSIZE=A4;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
CONTINUE,    ISUBSTITUTE=ANY
BA4: JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
              PAPERSIZE=A4;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
CONTINUE,    ISUBSTITUTE=ANY
GA4:JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
              PAPERSIZE=A4;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
CONTINUE,    ISUBSTITUTE=ANY
    
```

You would not normally change the default JSL file on your printer unless you want to print a color metacode file or one that contains an image (.IMG file).

Make sure that the following statements are correctly specified in your default JSL:

- JDL on the first line must be the same name as the compiled default JSL currently on your printer.
- CODE=EBCDIC
- PREFIX='\$DJDE\$'
- OFFSET=a, SKIP=b (see explanation below)

To print .IMG files:

- Specify GRAPHICS = YES in the OUTPUT statement

- Ensure that a graphics handling option is installed on your printer.

Set OFFSET and SKIP to the values specified in the default JSL on your printer (shown as 1 and 10 in the default JSL example described later in this section). OFFSET is the leading number of space characters before the \$DJDE\$ prefix string. SKIP is the total number of characters specified before the beginning of DJDE control characters, including leading spaces.

For example, if PREFIX = \$DJDE\$, SKIP=10, and OFFSET=1, specify the \$DJDE\$ prefix string in the **Setup** menu as follows:

```
b$DJDE$bbb
```

where each b is one space character.

## Preparing on-line ELIXIR.JSL

---

The ELIXIR.ONL file listed below is supplied with DataMerge and is copied to the *drive*:\ELIXIR directory during installation. This file and the default on-line JDL file, format the on-line metacode printout.

### ELIXIR.ONL

---

The following shows a listing of the ELIXIR.ONL file:

```
-----
-
ELIXIR: JDL
VFELX: VFU   ASSIGN=(1,1),ASSIGN=(12,255),TOF=1,
        BOF=255;
PDELX: PDE BEGIN=(0,0),PMODE=POR,
        FONTS=(UN104B);
RAXT:  TABLE  CONSTANT=X'1111111111111111';
ROFT:  TABLE  CONSTANT=X'1212121212121212';
RSTK:  TABLE  CONSTANT=X'1313131313131313';
RAX:   CRITERIA CONSTANT=(1,8,EQ,RAXT);
ROF:   CRITERIA CONSTANT=(1,8,EQ,ROFT);
RST:   CRITERIA CONSTANT=(1,8,EQ,RSTK);

        VOLUME HOST=IBMONL,LABEL=NONE,
        CODE=NONE;
        LINE DATA=(0,400),VFU=VFELX,
        PCCTYPE=IBM3211,OVERPRINT=PRINT,
```

```
MARGIN=0,FCB=IGNORE;
OUTPUT GRAPHICS=YES,PURGE=YES,
      OFFSET=NONE,
      DUPLEX=YES,FORMAT=PDELX;
ACCT USER=NONE;
RAUX TEST=RAX;
ROFFSET TEST=ROF;
RSTACK TEST=RST,DELIMITER=YES;
IDEN PREFIX=X'5BC4D1C4C55B',SKIP=10,
      OFFSET=1,OPRINFO=NO;
RECORD LENGTH=1032;
DFLT: JDE;
END;
```

-----

Note that for printing on HighLight color printers, add the following lines to your default JSL after the DFLT: JDE; statement and before the END statement:

```
RED: JOB;
      OUTPUT  IDR=RED1,IRESULT=BLACK;
          ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY;
BLUE: JOB;
      OUTPUT  IDR=BLUE1,IRESULT=BLACK;
          ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY;
GREEN: JOB;
      OUTPUT  IDR=GREEN1,IRESULT=BLACK;
          ABNORMAL ERROR=CONTINUE, IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY;
RLEG:  JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
          PAPERSIZE=USLEGAL;
          ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
BLEG:  JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
          PAPERSIZE=USLEGAL;
          ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
GLEG:  JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
          PAPERSIZE=USLEGAL;
          ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
RA4: JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
          PAPERSIZE=A4;
```

ABNORMAL

```

ERROR=CONTINUE,IMISMATCH=CONTINUE,          ISUB-
STITUTE=ANY
BA4: JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
      PAPERSIZE=A4;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
GA4:JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
      PAPERSIZE=A4;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY

```

Make sure that the following statements are correctly specified in ELIXIR.ONL:

- JDL on the first line must be ELIXIR
- HOST=IBMONL
- CODE=NONE
- DATA=(0,N) (where N is 200 or greater and equals the value specified in the default JSL)
- PREFIX=X'5BC4D1C4C55B' (see below)
- OFFSET=a, SKIP=b (see below)
- GRAPHICS=YES (if a graphics handling option is installed and .IMG files are used - otherwise, NONE).

Initially, the IDEN statement in the ELIXIR.ONL file contains the following values:

```

PREFIX=X'5BC4D1C4C55B'
OFFSET=1
SKIP=10

```

Modify the above values as described below:

PREFIX is the EBCDIC hexadecimal representation of the PREFIX parameter specified for IDEN in the default online JCL file (shown as \$DJDE\$ in the default online JCL listing). The value specified for the PREFIX= statement in your default JSL file must be specified in EBCDIC hexadecimal notation.

Set OFFSET and SKIP to the values specified in the default JSL on your printer (shown as 1 and 10 in the default JSL example). OFFSET is the leading number of space characters before the \$DJDE\$ Prefix string. SKIP is the total number of characters specified before the beginning of DJDE control characters, including leading spaces.

For example, if PREFIX = \$DJDE\$, SKIP=10, and OFFSET=1, specify the \$DJDE\$ Prefix String in the Setup menu as follows:

```
b$DJDE$bbb
```

where each b is one space character.

Edit the ELIXIR.ONL using any ASCII editor on your PC or on the printer.

Rename the modified ELIXIR.ONL file to ELIXIR.JSL and compile the modified file on your printer. Note that compiled files have .JDL extensions.

## Copying metacode files to the printer

---

To print metacode files, place the printer online and run the JCL job for copying files from your host to the printer. An example of a JCL file is as follows:

```
-----  
//00D42DA      JOB      (8200,Z200-Z20001),`LARACEY  
7-1994',CLASS=A,  
//MSGCLASS=J,NOTIFY=00D42D,USER=00D42D,PRTY=4  
/* JOBPARM L=9999  
/*  
/* JCL TO SEND ELIXIR ONLINE METACODE TO 9790 AND  
9700  
/*  
//XR9700 OUTPUT DEST=R269  
//STEP1 EXEC PGM=IEBGENER  
//SYSPRINT DD SYSOUT=*  
//SYSUT1DDUNIT=DISK,DISP=OLD,  
//DSN=00D42D.0Z200.IM5816.MET.DATA,  
//DCB=(LRECL=536,BLKSIZE=540,RECFM=VBM)  
//SYSUT2 DD SYSOUT=O,  
// OUTPUT=*.XR9700  
//SYSIN DD DUMMY
```

//\*

-----

Note that the fixed block file created by DataMerge contains nearly all the attributes of a variable-blocked machine (VBM) file. However, in an IBM MVS host environment, the metacode file must be converted to VBM format by coding the DCB parameter for the input (SYSUT1) file as follows:

DCB=(LRECL=536, BLKSIZE=540, RECFM=VBM).

Note also that the VBM format requires the record length to be four bytes less than the block size.

Specifying the DCB parameters, as described previously, causes the MVS system catalog to view the on-line metacode dataset as a VBM file instead of an FB file, which was the record format specified when the file was uploaded. The IEBGENER utility then treats the dataset as a VBM file, and sends each variable length record within the file down the channel to the printer.

Note that online metacode can be delivered to printers attached to host computers with operating environments other than MVS. It is up to the user to determine the correct upload procedure for their environment, as well as a means of delivering the metacode records to the printer.

In VM and DOS environments, you will have to write your own EXEC or equivalent utility to extract each variable length metacode record from the 540 byte blocks of metacode records contained within the on-line metacode dataset.

## Using tape to move files

---

Set the [Output to:] option in the Setup menu to TAPE and run DataMerge. Metacode generated by DataMerge is written to tape.

Modify the ELIXIR.JSL ASCII file in your *drive*:\ELIXIR directory as follows:

- Set the IDEN PREFIX statement in ELIXIR.JSL to match the PREFIX string used for Dynamic Job Descriptor Entries (DJDEs) at your site.

The DFAULT.JSL and ELIXIR.ONL files must be first loaded and compiled on your printer.

Mount the tape and type one of the following commands followed by <Enter> at the console:

<i>Command</i>	<i>to print...</i>
STA RED,DFAULT	letter size using red toner
STA GREEN,DFAULT	letter size using green toner
STA BLUE,DFAULT	letter size using blue toner
STA RLEG,DFAULT	legal size using red toner
STA GLEG,DFAULT	legal size using green toner
STA BLEG,DFAULT	legal size using blue toner
STA RA4,DFAULT	A4 size using red tone
STA GA4,DFAULT	A4 size using green tone
STA BA4,DFAULT	A4 size using blue tone

To print online black-and-white metacode, enter the following command:

```
STA DFLT,DFAULT <Enter>
```

Note also that when changing paper sizes, you must perform a SYSGEN on the printer to support the appropriate paper size.

---

## Printing offline Xerox-labeled files

---

This section describes how to move and print FSL, FRM, and other Xerox-labeled files using tape and diskettes.

---

### Using diskettes to move files

---

To print offline files created by DataMerge on your PC hard disk, use Elixidisk to copy the files to a Xerox centralized format diskette, then copy the diskette files to the printer hard disk. Print the files as described in the section, "Printing FRM files". Refer to the "Utilities" chapter for further information about Elixidisk.

---

### Using tape to move files

---

To print offline FRM, FSL, and other Xerox-labeled files written to tape by DataMerge, follow these steps:

1. **Set the [Output to:] option in the Meta Options dialog box to TAPE and run DataMerge.**

If you have already created offline files on your disk drive, use the DSK2TAP utility (supplied with DataMerge) to copy the disk files to tape. Refer to the "Utilities" chapter for further information about DSK2TAP.

2. **Make sure you have the compiled ELIXIR.JSL and ELIX2.JSL offline control files on the printer.**
3. **Mount the tape containing the files.**
4. **At the console, type:**  
  
**COP TAP REA LAB ALL <Return>**
5. **Compile FSL files, if any.**
6. **Print the files.**

### **Offline control files**

---

The ELIXIR.JSL and ELIX2.JSL files are supplied with DataMerge and are copied to the *drive:\ELIXIR* directory during installation. The files are in ASCII format to enable you to edit them, if required.

Make sure you compile ELIXIR.JSL and ELIX2.JSL after copying them to your printer (the compiled files have .JDL extensions).

### **Mounting the tape**

---

Mount the tape containing the Xerox-labeled files and type the following command to copy all files from tape to the printer disk:

```
COP TAP REA LAB ALL <Enter>
```

### **Compiling FSL files**

---

If you are printing.FSL files, compile them into FRM format on your printer (or use the ElixSys Desktop to convert FSL files to FRM format on your PC).

### **Printing FRM files**

---

To print FRM files, first load the Xerox printer command files (.CMD and .MSC), created by DataMerge for each FRM file, on the printer.

Note that each Xerox printer command file stem name is derived from the print file you convert according to the following rules:

- For print file names with six or more characters (excluding the extension), the stem name consists of the first (left) six characters.
- For print file names with less than six characters (excluding the extension), the stem name consists of all the characters of the file name.

After loading Xerox printer command files on the printer, print FRM files by entering the following at the printer console:

```
@xxxxxx
```

where xxxxxx is the stem name (file name without extension) of the Xerox printer command files created by DataMerge.

---

## Moving and printing offline metacode

---

This section describes how to move and print offline metacode files using tape.

### Preparing offline ELIXIC.JSL

---

The ELIXIC.JSL file listed below is supplied with DataMerge and is copied to *drive*:\ELIXIR during installation.

The ELIXIC.JSL file is required for printing offline metacode with highlight colors on HighLight color printer.

#### ELIXIC.JSL

---

The following pages list the ELIXIC.JSL file, required for printing offline color metacode on Xerox HighLight color printers:

```
ELIXIR: SYSTEM;
PCCXPS: PCC
INITIAL=TOF,DEFAULT=(IGN,PSP0),
ASSIGN=(X'31',IGN,SK1PSPO);
VFXPS1: VFU ASSIGN=(1,1),TOF=1,BOF=255;
PDFLT: PDE BEGIN=(0,0),PMODE=POR, FONTS=(UN104B);
RED1: IDR ICATALOG=XEROX,
      PALETTE='PICTORIAL',
      ILIST = ('BLACK','RED');
BLUE1: IDR ICATALOG=XEROX,
        PALETTE='PICTORIAL',
        ILIST = ('BLACK','BLUE');
GREEN1: IDR ICATALOG=XEROX,
          PALETTE='PICTORIAL',
          ILIST = ('BLACK','GREEN');
RAXT: TABLE CONSTANT=X'111111111111111111';
ROFT: TABLE CONSTANT=X'1212121212121212';
RSTK: TABLE CONSTANT=X'1313131313131313';
RT: TABLE CONSTANT=A$RAUX$;
```

```
RAX:  CRITERIA      CONSTANT=(1,8,EQ,RAXT);
ROF:  CRITERIA      CONSTANT=(1,8,EQ,ROFT);
RST:  CRITERIA      CONSTANT=(1,8,EQ,RSTK);
RC:   CRITERIA      CONSTANT=(1,6,EQ,RT); VOLUME
      HOST=IBMOS,LABEL=NONE,CODE=NONE;
      LINE
DATA=(1,400),VFU=VFXPS1,PCCTYPE=PCCXPS,
OVERPRINT=PRINT,MARGIN=0;
OUTPUT GRAPHICS=YES,PURGE=YES,
      DUPLEX=YES,FORMAT=PDFLT;
ACCT  USER=NONE;
RAUX  TEST=RAX;
ROFFSET      TEST=ROF;
RDELETE     TEST=ROF;
IDENPREFIX=(X'2024444A444524202020'),OFFSET=1,
      SKIP=10, OPRINFO=NO;
BLOCK  LENGTH=1032,OFFSET=0,LTHFLD=2,
      PREAMBLE=4;
RECORDSTRUCTURE=VB,LENGTH=1028,LTHFLD=2,
      PREAMBLE=4;

DFLT:  JDE;
RED:   JOB;
      OUTPUT  IDR=RED1,IRESULT=BLACK;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY;
BLUE:  JOB;
      OUTPUT  IDR=BLUE1,IRESULT=BLACK;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY;
GREEN: JOB;
      OUTPUT  IDR=GREEN1,IRESULT=BLACK;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY;
RLEG:  JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
      PAPERSIZE=USLEGAL;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
BLEG:  JOB;
      OUTPUT  IDR=BLUE1, IRESULT=BLACK,
      PAPERSIZE=USLEGAL;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
GLEG:  JOB;
      OUTPUT  IDR=GREEN1, IRESULT=BLACK,
      PAPERSIZE=USLEGAL;
      ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,          ISUBSTITUTE=ANY
RA4:   JOB;
      OUTPUT  IDR=RED1, IRESULT=BLACK,
```

```

                PAPERSIZE=A4;
        ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,        ISUBSTITUTE=ANY
BA4: JOB;
        OUTPUT  IDR=BLUE1, IRESULT=BLACK,
                PAPERSIZE=A4;
        ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,        ISUBSTITUTE=ANY
GA4:JOB;
        OUTPUT  IDR=GREEN1, IRESULT=BLACK,
                PAPERSIZE=A4;
        ABNORMAL ERROR=CONTINUE,IMISMATCH=CON-
TINUE,        ISUBSTITUTE=ANY
END;
-----

```

## Using tape to move files

---

Set the [Output to:] option to TAPE and run DataMerge. Metacode generated by DataMerge is written to tape.

Modify the ELIXIR.JSL ASCII file in your *drive*:\ELIXIR directory as follows:

- Set the IDEN PREFIX statement in ELIXIR.JSL to match the PREFIX string used for Dynamic Job Descriptor Entries (DJDEs) at your site.

The value you specify for the \$DJDE\$ Prefix String option must also match this value.

The DFAULT.JSL and ELIXIR.ONL files must be first loaded and compiled on your printer.

Mount the tape and type one of the following commands followed by <Enter> at the console:

<i>Command</i>	<i>to print...</i>
STA RED,ELIXIR	letter size using red toner
STA GREEN,ELIXIR	letter size using green toner
STA BLUE,ELIXIR	letter size using blue toner
STA RLEG,ELIXIR	legal size using red toner
STA GLEG,ELIXIR	legal size using green toner
STA BLEG,ELIXIR	legal size using blue toner
STA RA4,ELIXIR	A4 size using red tone
STA GA4,ELIXIR	A4 size using green tone
STA BA4,ELIXIR	A4 size using blue tone

To print offline black-and-white metacode, enter the following command:

STA DFLT,ELIXIR <Enter>

Note also that when changing paper sizes, you must perform a SYSGEN on the printer to support the appropriate paper size.

---

## Uploading with 871

---

Use the following procedure to upload a Xerox-format file with an 871 device. The MET2871 utility reformats metacode files for correct processing through an 871 device that connects a Xerox mainframe computer and printer.

**MET2871 *filename* <Enter>**

**filename**

is the full pathname of the file you want to upload including the extension.

Issue the command from the directory in which MET2871 is located (*drive*:\ELIXIR).

---

## DataWare card PC to printer interface

---

The DataWare PC interface card connects a PC directly to a Xerox production printer using bus and tag connectors.

The DataWare PC interface card allows you to send online metacode files and Xerox files with 128-byte header records generated by Elixir software to your Xerox printer.

---

## DataWare CONFIG.SYS device drivers

---

To use the DataWare card, add the following device driver in your PC CONFIG.SYS file.

**DEVICE=CHANNEL.SYS *unit address***

**unit**

is the DataWare I/O port you are using (0 - 3), normally 0.

**address**

is the hexadecimal value of the address of the printer on the I/O channel (between 0 and FE), normally 0F.

Make sure you specify the full DOS pathname for CHANNEL.SYS in your CONFIG.SYS file (for example, C:\DATAWARE\CHANNEL.SYS 0 0F).

For proper DataWare card operation, other parameters may be required in the CONFIG.SYS file. For details, see your DataWare documentation.

## **Copying files to the printer**

---

To copy files to the printer through the DataWare card, type:

```
COPY /B [ path] filename ;CHAN <Enter>
```

### **filename**

can be any Elixir-generated online metacode file or a Xerox file with a 128-byte header record.

### **path**

is the optional fully-qualified DOS directory search path for filename.

## **Copying online metacode files to the printer**

---

If you copy online metacode files to the printer, make sure your default and ELIXIR.JSL files are coded properly. The printer should be online and waiting to receive data before you begin the copy operation. For details on configuring your printer in an online environment, see your Xerox production printer reference manual.

## **Copying Xerox 128-byte header files to the printer**

---

If you copy a 128-byte header file to the printer, make sure the printer is in HOSTCOPY mode before you begin the copy operation. For further details on the HOSTCOPY mode, see your Xerox production printer reference manual.

---

## 7. Stand-alone utilities

This chapter describes the Elixir stand-alone batch utilities provided with the DataMerge. These utilities are copied to the *drive*:\ELIXIR directory during installation (*drive*: is the drive on which you install DataMerge).

Each time you install or reinstall Elixir software, existing utilities are overwritten with new ones. If you want to keep older versions of the utilities, back up the .EXE and .COM files in your *drive*:\ELIXIR directory before installation.

---

### Using the utilities

---

The parameters required to run each utility display on your screen when you enter only the utility name from the *drive*:\ELIXIR directory.

Most of the utilities accept DOS wildcard characters (see your DOS documentation for instructions on the proper use of wildcards). When using wildcards, specify only the desired file or files.

For optional utility parameters enclosed in brackets [], enter the appropriate parameters for the option as described in the Usage section of the utility, or leave them blank if you want to use the default (the default is listed first in the list following the parameter).

When specifying utilities, either do not specify parameters (to use the default for each parameter) or specify all the parameters. *You cannot skip parameters.*

All utilities are tied into Elixir Desktop operations through dialog boxes (although not all utility options are available from the Desktop dialog boxes). Application-specific utilities must be run on the

command line using the DOS pull-down menu or the Dispatcher icon. See the "Accessing DOS files and applications" chapter in your *ElixirSys Desktop User Guide* for more information.

---

## ElixirDisk

---

Elixir supports the following standard transfer options:

- host upload/download
- tape transfer
- direct PC-to-printer connection via a channel card or SPUR device

For users with compatible PCs, the ElixirDisk utilities provide an additional option. If the ElixirDisk utilities are not supported by your PC (see the conditions listed on the next page), use one of the standard transfer options listed above.

ElixirDisk consists of the XCPY, XDEL, XDIR, and XFORMAT utilities. These utilities perform the following:

- display directory information about Xerox-format diskettes
- format diskettes for use on a production printer
- copy files between Xerox-format diskettes and the hard drive on your PC
- delete files from Xerox-format diskettes.

You can format only low-density 5.25-inch diskettes to Xerox-format. (All production printer floppy formats except for the 4075 printer format are supported. No distributed printer floppy formats are supported.)

ElixirDisk runs on most IBM and compatible PCs with the following conditions:

- Elixidisk utilities that read and write floppy diskettes used for carrying data to and from the x9700 printers function on most compatible PCs. Elixidisk utilities may not function on PCs with motherboard BIOS chips that contain implementations that prohibit operation, however.
- Elixidisk operates with any Xerox standard format file, that is, one divided into 512-byte blocks with or without tape headers.
- Elixidisk is not compatible with the ROM BIOS on some PCs (for example, the Compaq DeskPro), and may not operate correctly if the ROM BIOS on your PC is dated 1987 or earlier. Use a PC utility program (such as Norton Utilities) to check your BIOS date.
- External disk drives are not supported.

Elixidisk utilities may not be supported by the IBM PS/2. PS/2 users can copy files to the host using a supported PC-to-mainframe communications package.

Elixidisk utilities are provided as originally packaged, and may not run with all PCs or configurations due to manufacturer changes in initial hardware or software. Elixir continues to provide support for Elixidisk utilities but cannot guarantee their operation with all systems and configurations.

---

## XDIR

---

XDIR displays a directory of files for Xerox 4XXX, 87XX, or 97XX diskettes.

**Usage** XDIR *drive:[filename]*

**drive**

is the diskette drive specification (A: or B:)

**filename**

is any six-character file name with a three-character extension. Wildcards are allowed.

**Directory information**

Run XDIR from the *drive:\ELIXIR* directory if you have not specified *drive:\ELIXIR* in a DOS PATH= statement.

**Example 1**

To display a list of all files with .FNT extensions on a Xerox-format diskette, type the following commands from *drive*:

```
CD \ELIXIR <Enter>
```

The current directory changes to *drive:\ELIXIR*.

```
XDIR A: *.FNT <Enter>
```

XDIR displays all files on your Xerox-format diskette with .FNT extensions.

**Example 2**

To display a list of all files on a Xerox-format diskette, from *drive*., type:

```
CD \ELIXIR <Enter>
```

The current directory changes to *drive:\ELIXIR*.

```
XDIR A: <Enter>
```

XDIR displays a list of all the files on your Xerox-format diskette.

---

**XFORMAT**

---

XFORMAT formats any low-density DOS diskette into Xerox XXX, 87XX, or 97XX format.

**Usage**

```
XFORMAT drive: <Enter>
```

**drive:**

is the drive specification (a: or b:).

**Directory information**

Run XFORMAT from the *drive:\ELIXIR* directory if you have not specified *drive:\ELIXIR* in your DOS PATH= statement.

**Example**

To format a low-density diskette in drive A: into Xerox format, type:

**XFORMAT A:** <Enter>

ElixirDisk utilities are provided as originally packaged, and may not run with all PCs or configurations due to manufacturer changes in initial hardware or software. Elixir continues to provide support for ElixirDisk utilities but cannot guarantee their operation with all systems and configurations.

---

**XCPY**

---

The XCPY command allows you to:

- copy Xerox standard format files from your PC hard disk to a Xerox format diskette
- copy Xerox standard format files from Xerox format diskettes to your PC hard disk.

**Copying from hard disk to Xerox-format diskette**

Use XCPY to copy Xerox standard format files from a PC hard disk to a Xerox-format diskette.

**Usage**    **XCPY** [*drive1:* ] [*path1*] *filename* *drive2:*  
<Enter>

**drive1:**

is the source drive. If not specified, the DOS drive from which you run XCPY is considered the default source drive and is the drive on which XCPY searches for files.

**path1:**

is the optional DOS directory path that indicates the location on *drive1:* in which files specified by *filename* are located. When writing files from your hard disk to a Xerox-format diskette, XCPY searches the Elixir default directories for a file if *path1* is not specified. The following are Elixir default directories for the resource types indicated:

- Fonts (FNT) *drive:*\ELIXIR\FONTS\X97OUT
- Forms (FRM) *drive:*\ELIXIR\FORMS\FRMOUT
- Forms (FSL) *drive:*\ELIXIR\FORMS\FSLOUT
- Logos (LGO) *drive:*\ELIXIR\PICS\LGOOUT
- Images (IMG) *drive:*\ELIXIR\PICS\IMGOUT

To write 5Word format fonts to a Xerox-format diskette, you must specify the full path to the output directory: drive:\ELIXIR\FONTS\FN6OUT.

XCPY searches for all other Xerox file types (such as .MSC) in the directory and drive from which XCPY is invoked.

**filename**

is any six-character file name and three-character extension production printers recognize, such as .FNT, .LGO, .FSL, .FRM, and .MSC. Wildcards are allowed, except in file name extensions.

**drive2**

is the destination drive, and must be specified.

**Note:** drive1: can be any drive specification between A: and Z:; drive2: must be either A: or B:.

**Directory information**

Run XCPY from the *drive*:\ELIXIR directory if you have not specified drive:\ELIXIR in a DOS PATH= statement.

**Example 1**

To copy all files with .FNT extensions from the drive:\ELIXIR\FONTS\ directory to a Xerox-format diskette in the B: drive, from drive:, type:

```
XCPY \ELIXIR\FONTS\X97OUT\*.FNT B:
<Enter>
```

XCPY copies all files with .FNT extensions in the drive:\ELIXIR\FONTS\ directory to the Xerox-format diskette in the B: drive.

**Example 2**

To copy FORM1.FRM from your PC to a Xerox-format diskette in the A: drive, type:

```
XCPY FORM1.FRM A: <Enter>
```

XCPY searches the default directory for .FRM format files, and the drive:\ELIXIR\FORMS\FRMOUT directory for the FORM1.FRM file. It then copies the file to the Xerox-format diskette in the A: drive.

---

**Copying from Xerox-format diskette to hard disk**

---

**Usage** XCPY [*drive1:*]*filename* *drive2:*[*path2*]<Enter>

**drive1**

is the source diskette drive.

**filename**

is any six-character file name and three-character extension production printers recognize, such as .FNT, .LGO, .FSL, .FRM, and .MSC. Wildcards are allowed, except in file extensions.

**drive2**

is the destination drive, and must be specified.

*drive2* can be any drive specification between A: and Z:; *drive1* must be either A: or B:.

**path2**

can be specified when copying files from a Xerox-format diskette to your hard drive. If you do not specify *path2*, the following Elixir default directories are used for each indicated file type:

- Fonts (FNT) drive:\ELIXIR\FONTS\X97IN
- Forms (FRM) drive:\ELIXIR\FORMS\FRMIN
- Forms (FSL) drive:\ELIXIR\FORMS\FSLIN
- Logos (LGO) drive:\ELIXIR\PICS\LGOIN
- Images (IMG) drive:\ELIXIR\PICS\IMGIN

To copy 5Word format fonts to your PC, you must specify the full path to the input directory:drive:\ELIXIR\FONTS\FN6IN.

All other Xerox file types (such .MSC) are placed in the directory and drive from which XCPY is invoked.

**Directory information**

Run XCPY from the drive:\ELIXIR directory if you have not specified drive:\ELIXIR in your DOS PATH= statement.

**Example 1** To copy all files with .FNT extensions from a Xerox-format diskette in the B: drive to the \FONTS\PROD-FONT directory on your D: drive, type:

**Example 2** XCPY B:\*.FNT D:\FONTS\PRODFONT  
<Enter>  
To copy FORM1.FRM from a Xerox format diskette in the A: drive to the .FRM format input forms directory on your C: drive, type:

XCPY A: FORM1.FRM C:<Enter>

XCPY copies FORM1.FRM from the Xerox-format diskette in the A: drive to the default .FRM forms input directory (C:\ELIXIR\FORMS\FRMIN).

Elixidisk utilities are provided as originally packaged, and may not run with all PCs or configurations due to manufacturer changes in initial hardware or software. Elixir continues to provide support for Elixidisk utilities but cannot guarantee their operation with all systems and configurations.

## XDEL

---

The XDEL command deletes files on a Xerox 4XXX, 87XX, or 97XX diskette.

**Usage** XDEL *drive:\filename* <Enter>

**drive**

is the diskette drive specification (A: or B:).

**filename**

is any six-character file name and three character extension. Wildcards are allowed.

**Directory information**

Run XDEL from the drive:\ELIXIR directory if you have not specified drive:\ELIXIR in your DOS PATH= statement.

**Example** To delete all files with .LGO extensions on a Xerox-format diskette in drive A:, type:

XDEL A: \*.LGO <Enter>

XDEL deletes all files with .LGO extensions on the Xerox format diskette in the A: drive.

ElixirDisk utilities are provided as originally packaged, and may not run with all PCs or configurations due to manufacturer changes in initial hardware or software. Elixir continues to provide support for ElixirDisk utilities but cannot guarantee their operation with all systems and configurations.

---

## DISP

---

The DISP utility displays the contents of a file on your screen in hexadecimal, ASCII, and screen character format. This information is helpful for debugging files.

**Usage** DISP *filename* [*count*][*pausing*] <Enter>

*filename*

is any file name, including path and extension.

*count*

is the number of characters displayed per line. The default is 15.

*pausing*

specify whether or not to pause after displaying a screen of data: PAUSE or NOPAUSE.

### Directory information

Run DISP from the drive:\ELIXIR directory, if you have not specified drive:\ELIXIR in your DOS PATH= statement.

### Example

To display the contents of the file NEW.FNT in the drive:\ELIXIR\FONTS\X97OUT directory, type:

```
CD \ELIXIR <Enter>
```

The current directory changes to \ELIXIR.

```
DISPdrive:\ELIXIR\FONTS\X97OUT\NEW.FNT  
<Enter>
```

The contents of NEW.FNT displays.

---

## DSK2TAP

---

DSK2TAP copies files from the PC hard disk or diskette drive to an attached tape drive unit. Elixir supports tape drive units that use the Overland tape controller. The Qualstar 9 track 1600 or 6250 bpi model is recommended. Make sure the appropriate hardware and software is installed on your PC.

DSK2TAP always creates files with 128-byte headers, except metacode files, which do not have headers.

**Usage** DSK2TAP filename <Enter>

**filename**

is any DOS file name, including the file extension. Wildcards are allowed.

**Directory information**

Run DSK2TAP from the directory in which files to be copied reside, and precede the DSK2TAP command with *drive:\ELIXIR\*. (The full command is *drive:\ELIXIR\DSK2TAP filename* if you have not specified *drive:\ELIXIR* in your DOS PATH= statement).

**Example 1**

To copy all files named FORM1 located in the *drive:\ELIXIR\FORMS\FRMOUT* directory of the hard disk to the tape drive, type:

```
CD \ELIXIR\FORMS\FRMOUT <Enter>
```

The current directory changes to *drive:\ELIXIR\FORMS\FRMOUT*.

```
drive:\ELIXIR\DSK2TAP FORM1.*
<Enter>
```

DSK2TAP copies all files with the stem name FORM1 to tape.

**Example 2**

To copy fonts from the \FONTS directory to a diskette in your A: drive, type:

```
CD \FONTS <Enter>
```

The current directory changes to \FONTS.

```
drive:\ELIXIR\DSK2TAP *.FNT A:
<Enter>
```

This copies all .FNT files from the current directory to the diskette in the A: drive.

---

## FORMCVT

---

The FORMCVT utility converts form and XES files between the following formats: 4075FRM, 4075FSL, 9700FRM, 9700FSL, COLORFRM, COLORFSL, XES, Elixir, 4050FRM, and 4050FSL.

**Usage**    *FORMCVT stemname [inputformat] [output format] [papersize] [fonts] [confirm] [output device] [palette][monitor]<Enter>*

*stemname*

is the stem name of the files for conversion. Extensions and paths are not permissible. Wildcards are permissible.

*inputformat*

is the format of the files for conversion and is one of the following: COLORFRM, COLORFSL, 9700FRM, 9700FSL, 4075FRM, 4075FSL, UDK, XES, or ELIXIR.

*outputformat*

is the format of the converted files and is one of the following: ELIXIR, COLORFRM, COLORFSL, 4050FSL, 4050FRM, 9700FRM, 9700FSL, 4075FRM, 4075FSL

*pagesize*

is the paper size: LETTER , LEGAL, XLARGE (11 x 17), A3, or A4.

*font*

specify whether to send all fonts in the font list to the printer or just fonts used on the form: USED FONTS or ALL FONTS.

*confirm*

specify overwrite confirmation: NO to not confirm or YES to confirm.

*outputdevice*

specify output to hard disk or to tape: DISK or TAPE.

*palette*

is the printer palette name to use for highlight color printing.

*monitor*

is one of the following the monitor types (used to set screen resolution only when converting XES files with embedded graphics):

- M:VGA (VGA, the default)
- M:SIGMA (Sigma L-View)
- M:WYSE (Wyse)
- M:SUPERVGA (Super VGA)
- M:NONE (None)

**Directory information**

Run FORMCVT from the directory in which the files to be converted reside. If you have not specified *drive:\ELIXIR* in a DOS PATH= statement, precede the FORMCVT command with *drive:\ELIXIR*.

**Example**

To convert the A4-size Elixir form KEN.ELX in the *drive:\ELIXIR\FORMS\ELIXIR* directory to FSL format and place it in the *drive:\ELIXIR\FORMS\FSLOUT* (output FSL form) directory, type:

```
CD \ELIXIR\FORMS\ELIXIR <Enter>
```

The current directory changes to the directory in which Elixir form files reside.

```
FORMCVT KEN ELX FSL A4 <Enter>
```

This command converts the form file and writes the output FSL file to *drive:\ELIXIR\FORMS\FSLOUT*.

---

# HPEDIT

---

The HPEDIT utility allows editing of PCL font files.

**Usage** HPEDIT *filename* [SYMBOL=]  
[POINT] [STYLE] [WEIGHT] [TYPEFACE]  
<Enter>

*filename*

is the file name or filepath of the source font. Wild cards are allowed.

*symbol=*

where symbol set

1 = ROMAN-8, 2 = PC-8,  
3 = PC-8 (D/N), 4 = ISO.

*point=*

is the point size in tenths.

*style=*

where style 1 = UPRIGHT, 2 = ITALIC

*weight*

is the strokeweight between -7 and 7.

*typeface*

where typeface is one of the following letters:

- A) Presentations
- B) Cooper Black
- C) Courier
- D) Palantino
- E) Elixir
- F) Black Bondini Condensed
- G) Letter Gothic
- H) Helvetica
- I) ITC Garamond
- J) Gothic
- K) Micrographics
- L) Line Printer
- M) Swiss Condensed
- N) Coronet Bold
- O) Optima
- P) Prestige
- Q) Zaph Dingbats
- R) Broadway
- S) Century Schoolbook

- T) Time Roman
- U) University Roman
- V) Avante Garde
- W) Futura
- Z) Zorich Roman

**Directory  
information**

Run HPEDIT from the *drive:/ELIXIR* directory using the desktop dispatcher or at the DOS prompt.

---

## IC

---

The IC utility converts graphic formats.

**Usage** *IC sourcefile [in format]  
[out format] [-options] <Enter>*

*sourcefile*

is the file name or filepath of the source image. Wild cards are allowed.

*in format*

is the name of the source image format (Elixir, Pseg, PCX, TIF).

*out format*

is the name of the target image format (Elixir, Pseg, GOCAPSEG, PCX, TIF, Screen).

*-Caaa*

is the name of color or color id.

1=Blue, 2=Red, 3=Pink, 4=Green, 5=Cyan, 6=Yellow  
Default: 0=Presentation process default

*-Dnnn*

is the output resolution in dpi (240 or 300).

*-Faaa*

is the record format for output options(VBM, AS400, IRMA, OS2, MODCA)

**-Wa**

is the selection for removing white space.

N=white space not removed

Y=white space removed

**-Rnnn**

is the selection to rotate pages in degrees.

**-Xnnn**

is the horizontal offset in pels.

**-Ynnn**

is the vertical offset in pels.

**-Saaa**

is the selection for monitor type (VGA, SuperVGA, Sigma, WYSE).

**Directory  
information**

Run IC from the *drive:*ELIXIR directory using the desktop dispatcher or at the DOS prompt.

---

## MET2871

---

The MET2871 utility reformats metacode files for correct processing through an 871 device that connects a mainframe computer and printer.

**Usage** MET2871 filename.ext <Enter>

**filename**

is the full pathname of the file for conversion.

**.ext**

is the file extension.

**Directory  
information**

Issue the command from the directory in which MET2871 is located (*drive:*\ELIXIR).

## METACOMP

---

METACOMP compresses metacode files containing uncompressed IMG files.

To start the METACOMP program, at the DOS prompt type:

```
METACOMP [FILENAME] [COMPRESSFLAG]  
<Enter>
```

**filename**

is the name of the metacode file and does not have a file extension.

**compressflag**

is either [PARTIAL] or [FULL]. [PARTIAL] is the default.

To display instructions for using the METACOMP utility, type

```
drive:\ELIXIR\METACOMP <Enter>.
```

**drive**

is the drive where Elixir is installed.

---

## PACK

---

The PACK utility converts .JSL, .FSL, and other ASCII format files to standard-labeled Xerox-format files. PACK places a standard Xerox header on the ASCII file, strips off text beyond column 80, and packs data into 512-byte blocks. PACK also converts Xerox-format files to 80-byte record length ASCII format.

**Usage**    `PACK filename.ext [convert] <Enter>`

*filename.ext*

is the 80-byte record format file name which must include the extension. Wildcards are allowed.

*convert*

BLOCK (the default) converts 80-byte record length ASCII format files to Xerox-format files (128-byte header followed by 512-byte blocks of data). UNBLOCK converts Xerox-format files from 512-byte blocks to ASCII.

**Directory information**

Run PACK from the directory in which files to be converted reside, using the full command, for example C:\ELIXIR\PACK *filename.ext* BLOCK. If you have specified a PATH=*drive*:\ELIXIR statement, you do not need to specify *drive*:\ELIXIR\ in the command.

---

## SHOWBLOK

---

The SHOWBLOK utility displays information about any ElixKeys attached to your PC and the Elixir applications you are authorized to run.

**Usage** SHOWBLOK <Enter>

**Directory information**

Run SHOWBLOK from the \ELIXIR directory. If you have not specified *drive*:\ELIXIR in your DOS PATH= statement, precede the SHOWBLOK command with *drive*:\ELIXIR\.

**Example** To use SHOWBLOK to determine the ElixKeys present on your PC, change the current directory to *drive*: then type:

```
CD \ELIXIR <Enter>
```

The current directory changes to *drive*:\ELIXIR.

```
SHOWBLOK <Enter>
```

If the ElixFont and ElixGraphics applications and keys are installed on your PC, a message similar to the following displays on your screen:

```
ELIXIFONT BLOCK PRESENT
ELIXIGRAPHICS BLOCK PRESENT
```

# SPUR

---

The Spur device connects a PC to a Xerox production printer using bus and tag connectors.

Online metacode files and Xerox files with 128-byte headers are sent to a Xerox printer through the Spur device by using the Elixir SPUR utility.

## SPUR utility

---

The SPUR utility prepares online metacode files or Xerox standard labeled files for transmission through the SPUR device to a production printer. This utility inserts control codes in files enabling file transfer via the Spur device.

**Usage** SPUR *filename [header ] [sequence] <Enter>*

**filename**

is any DOS filename including file extension. Wild-cards are not allowed.

**header**

is the Xerox header format: specify PRN to send filename through your PC parallel port to the Spur device, or DISK to write filename to disk (in the same directory as filename) and name it SPUR.OUT.

**sequence**

inserts escape sequences in the SPUR interface device output stream: USA or PPC. Specify the correct parameter, depending on your type of SPUR device (SPURPPC or SPURUSA).

**Directory information**

Run SPUR from the directory in which the input file resides. If you have not specified drive:\ELIXIR in a DOS PATH= statement, precede the SPUR command with drive:\ELIXIR\.

**Example**

To send the Xerox-128 byte header file XPAU10.FNT located in the drive:\ELIXIR\FONTS\X97OUT directory directly to the SPUR device, type:

CD \ELIXIR\FONTS\X97OUT <Enter>

The current directory changes to  
drive:\ELIXIR\FONTS\X97OUT

\ELIXIR\SPUR XPAU10.FNT PRN <Enter>

SPUR inserts control codes the SPUR device requires to send the file directly to your printer (which should be in HOSTCOPY mode).

### **Using SPUR for online metacode files**

---

If you are copying online metacode files to the printer, make sure your default and ELIXIR.JSL files are coded correctly. The printer should be online and waiting to receive data before you begin the copy operation. For details on configuring your printer in an online environment, see your production printer reference manual.

### **Using SPUR for Xerox 128-byte header files**

---

If you are copying a Xerox 128-byte header file to the printer, make sure the printer is in HOSTCOPY mode before you begin the copy operation. For further details on the HOSTCOPY mode, see your production printer reference manual.

## STRIP

---

The STRIP utility adds a Xerox header to files.

**Usage** STRIP *filename* [*headerformat*]  
[KEEPNAME][-STRIP][-PAD] <Enter>

*filename*

is any DOS file name including the file extension. Wildcards are permissible.

*headerformat*

specify the Xerox header format: NONE, 128, or 512.

NONE does not add a Xerox header.

128 adds a 128-byte Xerox header.

512 adds a 512-byte Xerox header.

KEEPNAME

keeps the original file header name.

-STRIP

strips line numbers and trailing spaces from text files.

-PAD

pads line numbers and trailing spaces to text files.

### Directory information

Run STRIP from the directory in which the input files reside. If you have not specified *drive:\ELIXIR* in a DOS PATH= statement, precede the STRIP command with *drive:\ELIXIR*.

### Example

To place 512-byte headers on all .FRM files in the *drive:\ELIXIR\FORMS\FRMOUT* directory, type:

```
CD \ELIXIR\FORMS\FRMOUT <Enter>
```

The current directory changes to *drive:\ELIXIR\FORMS\FRMOUT*.

```
\ELIXIR\STRIP *.FRM 512 <Enter>
```

The STRIP utility places 512-byte header records on all files with .FRM extensions in the *drive:\ELIXIR\FORMS\FRMOUT* directory.

---

## TAP2DSK

---

The TAP2DSK utility copies files from a tape drive unit to a PC hard disk. It also allows you to display a list of all tape files on your screen.

You cannot use TAP2DSK to copy Xerox metacode files.

**Usage** TAP2DSK [*filename* ] DIR <Enter>

*filename*

is any DOS file name including the file extension. Wildcards are allowed.

DIR

is used only when you want to display the tape directory.

TAP2DSK searches the directory for files with the specified extension. The following are the default directories TAP2DSK uses for different Xerox format files:

- Fonts (FNT) *drive:\ELIXIR\FONTS\X97IN*
- Forms (FRM) *drive:\ELIXIR\FORMS\FRMIN*
- Forms (Color FRM) *drive:\ELIXIR\FORMS\FRCIN*
- Forms (FSL) *drive:\ELIXIR\FORMS\FSLIN*
- Forms (Color FSL) *drive:\ELIXIR\FORMS\FSCIN*
- Logos (LGO) *drive:\ELIXIR\PICS\LGOIN*
- Logos (Color LGO) *drive:\ELIXIR\PICS\LGCIN*
- Images (IMG) *drive:\ELIXIR\PICS\IMGIN*
- Images (Color IMG) *drive:\ELIXIR\PICS\IMCIN*

To copy 5Word format files from a tape drive unit to your PC hard disk, you must specify the full path to the input directory: *drive:\ELIXIR\FONTS\FN6IN*.

All other Xerox files (such as .TMP and .MSC) are placed in the directory and drive from which TAP2DSK is invoked.

### Directory information

Run TAP2DSK from the *drive:\ELIXIR* directory, unless you have specified *drive:\ELIXIR* in your DOS PATH= statement.

**Example 1** For a listing of all files on a tape, type:

```
TAP2DSK *.* <Enter>
```

TAP2DSK displays a list of files on the tape.

**Example 2** To copy all .FSL forms from a tape to your PC hard disk, type:

```
TAP2DSK *.FSL <Enter>
```

All files on the tape with .FSL extensions are copied to the *drive:\ELIXIR\FORMS\FSLIN* directory.

---

## A. Operational and error messages

This appendix lists all the operational and error messages issued by DataMerge for HP PCL/PostScript. These messages display in message dialog boxes. Some dialog box messages require the user to enter a response such as [Yes], [No], or [Continue].

Messages appear in alphabetical order and are shown in bold. Explanations for messages are given below the message in normal text.

**Could not open: DM.CFG**

Make sure the DM.CFG file exists in the \ELIXIR directory. If not, reinstall the software.

**Could not open: *filename***

File is missing or invalid.

**Could not open LP3 file: *filename***

.LP3 file is missing or invalid.

**Could not open printer font file: *filename***

Printer font file is missing or invalid.

**ElixKey Missing**

You must have the correct ElixKey attached to perform this operation. If you connect the correct key and you still have this error, try rearranging the order of any keys you have attached.

**Error allocating memory**

Not enough DOS memory available to start operation. Close all applications you are not working with and try the operation again.

**Error in file: *filename***

The .ELX file is damaged or corrupt

**Error reading file: *filename***

The file cannot be read.

**Merge failed**

DataMerge was unable to complete the merge operation. This may be due to a disk error.

**Not enough memory**

Not enough DOS memory available. Close all applications you are not working with and try the operation again.

**Not enough memory for conversion**

Not enough DOS memory available to perform the conversion. Close all applications you are not working with and try the conversion again.

**Printer not ready**

Make sure your printer is turned on and is online.

**Printer not responding**

Make sure your printer is turned on and is online.

**Printer out of paper**

Make sure you have paper in your printer.

---

## B. External tag attribute files

This appendix is available for users who need more detailed information about the external tag attribute file such as application developers and programmers.

The external tag attribute file contains definitions of data tags. Note that the maximum number of tags allowed in an external tag attribute file is 750.

Figure B-1. Example external tag attribute file

The sample file above shows the `%%n` tag markers where *n* is the field number followed by a list of the attributes for each field number. (See the "Adding tags" chapter for detailed information about applicable values for each attribute.) You can create or edit this file using any text editor.

In your Windows application, you marked the location of a tag by adding tag position markers (`%%n`). The external tag attribute file automatically specifies the attributes associated with each tag position marker.

When you convert the .ELX document to normalized metacode using the Elixir PrintDriver, the tag position marker merges into your document and matches the attributes assigned to the field number listed in the external tag attribute file. If any of the data tags in the Elixir form files have unspecified attributes, tag attributes assigned to the field number overwrite those found in the external tag attribute file.

---

## C. Command line parameters

The following appendix lists parameters for use when running DataMerge in batch mode. If no parameters are specified, DataMerge uses the settings in DM.CFG. Note that these parameters override any settings in the DM.CFG file.

Precede all parameters with -, for example:

```
DM [filename] [jobfilename] [-USERNAME] [-LPT1] [-D:value]
```

The following list shows the command in bold with the action described below. Note that not all commands may be applicable to your printer.

### **-USERNAME**

Uses the field name to merge the variable data. Specify this parameter if you used format 1 to create your .DAT file. See the "Data files" chapter for more information on data file formats.

### **-D:*value***

Specifies the delimiter character where *value* is the delimiter character used in the .DAT file. Specify this parameter if you used format 3 to create your .DAT file. See the "Data files" chapter for more information on data file formats.

### **-O:*filename***

Specifies the output name where *filename* is the name of the output file.

### **-LPT1**

Outputs file to LPT1

### **-LPT2**

Outputs file to LPT2

**-LPT3**

Outputs file to LPT3

**-DISK**

Outputs file to disk

**-TAPE**

Outputs file to tape

**-FORMDIR:directory\**

Specifies the form directory, where *directory* is the .ELX forms directory to use. (Must have trailing backslash.)

**-FONTDIR:directory\**

Specifies the screen fonts directory, where *directory* is the screen fonts directory to use. (Must have trailing backslash.)

**-TEXTDIR:directory\**

Specifies the text directory, where *directory* is the do-clist (.DAT file) directory to use. (Must have trailing backslash.)

**-FONTSYES**

Outputs fonts

**-FONTSNO**

Does not output fonts

**-INTERWORD**

Uses interword justification

**-INTERCHAR**

Uses intercharacter justification

**-DUPLEX**

Outputs in duplex

**-SIMPLEX**

Outputs in simplex

**-COMPRESS**

Compresses graphics if possible

**-NOCOMPRESS**

Does not compress graphics

**-ASCII**

Outputs in ASCII (for XES)

**-EBCDIC**

Outputs in EBCDIC (for XES)

**-SMARTBOX**

Outputs in EBCDIC SMARTBOX format (for XES)

**-HP**

Outputs to HP printer

**-OFFLINE**

Outputs to offline metacode printer

**-ONLINE**

Outputs to online metacode printer

**-4235**

Outputs to 4235 printer

**-4700**

Outputs to 4700 printer

**-4045**

Outputs to 4045 printer

**-2700**

Outputs to 2700 printer

**-POSTSCRIPT**

Outputs to PostScript printer

**-TAGNAME: *name***

Specifies the external tag attribute file where *name* is the external tag attribute file name

**-ESCAPE: *value***

Specifies the escape character where *value* is the decimal value of the escape character to use

**-SHIFT: *value***

Specifies the shift value where *value* is the amount to shift forms (positive or negative)

**-TRAY: *value***

Specifies the input tray number where *value* is the tray number

**-MACRO:*number***

Specifies the macro where *number* is the macro number to use (HP)

**-PRIORITY:*value***

Specifies the color priority where *value* is the color priority to use (XES)

**-DJDE:*djdestring***

Specifies the DJDE string where *djdestring* is the DJDE string to use. Include leading and trailing spaces and use an underscore for spaces (\_).

**-IMAGECALLOUTS**

Calls graphics resources from the printer instead of embedding them.

**-PRINT**

Prints every page (Xerox 4235 and 4700 printers)

**-STORE**

Stores every page (Xerox 4235 and 4700 printers)

**-STOREPRINT**

Stores and prints every page (Xerox 4235 and 4700 printers)

**-1**

Sends graphics to the printer once. Note that if nothing is specified the default is [always]

**-2**

Sends graphics to the printer never. Note that if nothing is specified the default is [always]

**-DOCOLOR**

Specify when using color.

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