Job Management Guide

FIERY XJ+ 525

fiery®

CE Mark

The CE marking applied to this product symbolises Rank Xerox's declaration of conformity with the following applicable directives of the European Union as of the dates indicated.

January 1, 1996—Council Directive 70/80/CCO amended by Council Directive 93/68/EEO. Approximation of the laws of the member states related to low voltage equipment.

January 1, 1996—Council Directive 59/336/EEC. Approximation of the laws of the member states related to electromagnetic compatibility.

A full declaration defining the relevant directives and referenced standards can be obtained from your Rank Xerox representative.

WARNING: In order to allow this equipment to operate in proximity to industrial, scientific, and Medical (ISM) equipment, the external radiation from ISM equipment may have to be limited or special migration measures taken.

FCC Information

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Class A Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, and uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.

Industry Canada Class A Notice

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled, "Digital Apparatus" ICES-003 from Industry Canada.

Avis de Conformation Classe A de l'Industrie Canada

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe A prescrites dans la norme sur le matériel brouilleur, "Appareils Numériques" NMB-003 édictée par l'Industrie Canada.

Certificate by Manufacturer/Importer

This is to certify that the FC07 is shielded against radio interference in accordance with the provisions of VFG 243/1991. The German Postal Services have been advised that this device is being put on the market and that they have been given the right to inspect the series for compliance with the regulations.

Bescheinigung des Herstellers/Importeurs

Heirmit wird bescheinigt, dass der FC07 im Uebereinstimmung mit den Bestimmungen der VFG 243/1991 Funk-Entstort ist. Der Deutschen Bundespost wurde das Inverkehrbringen dieses Geraetes angezeigt und die Berechtigung zur Ueberpruefung der Serie auf Einhaltung der Bestimmungen eingeraumt.

RFI Compliance Notice

This equipment has been tested concerning compliance with the relevant RFI protection requirements both individually and on system level (to simulate normal operation conditions). However, it is possible that these RFI Requirements are not met under certain unfavorable conditions in other installations. It is the user who is responsible for compliance of his particular installation.

Dieses Geraet wurde einzeln sowohl als auch in einer Anlage, die einen normalen Anwendungsfall nachbildet, auf die Einhaltung der Funk-entstoerbestimmungen geprueft. Es ist jedoch moeglich, dass die Funk-enstoerbestimmungen unter unguenstigen Umstaenden bei anderen Geraetekombinationen nicht eingehalten werden. Fuer die Einhaltung der Funk-entstoerbestimmungen seigner gesamten Anlage, in der dieses Geraet betrieben wird, ist der Betreiber verantwortlich.

Compliance with applicable regulations depends on the use of shielded cables. It is the user who is responsible for procuring the appropriate cables.

Einhaltung mit betreffenden Bestimmungen kommt darauf an, dass geschirmte Ausfuhrungen gebraucht werden. Fuer die beschaffung richtiger Ausfuhrungen ist der Betreiber verantwortlich.

Software License Agreement

Before using the Software, please carefully read the following terms and conditions. BY USING THIS SOFTWARE, YOU SIGNIFY THAT YOU HAVE ACCEPTED THE TERMS OF THIS AGREEMENT. If you cannot or do not accept these terms, you may return the entire package within ten (10) days to the Distributor or Dealer from which you obtained them for a full refund.

Electronics for Imaging, Inc. grants to you a non-exclusive, non-transferable license to use the software and accompanying documentation ("Software") included with the Fiery XJ+ 525 you have purchased, including without limitation the PostScript software provided by Adobe Systems Incorporated.

You may:

a. use the Software solely for your own customary business purposes and solely with Fiery XJ+ 525;

b. use the digitally-encoded machine-readable outline and bitmap programs ("Font Programs") provided with Fiery XJ+ 525 in a special encrypted format ("Coded Font Programs") to reproduce and display designs, styles, weights, and versions of letters, numerals, characters and symbols ("Typefaces") solely for your own customary business purposes on the display window of the Fiery XJ+ 525 or monitor used with Fiery XJ+ 525;

c. use the trademarks used by Electronics for Imaging to identify the Coded Font Programs and Typefaces reproduced therefrom ("Trademarks"); and

d. assign your rights under this Agreement to a transferee of all of your right, title and interest in and to Fiery XJ+ 525 provided the transferee agrees to be bound by all of the terms and conditions of this Agreement.

You may not:

a. make use of the Software, directly or indirectly, to print bitmap images with print resolutions of 600 dots per inch or greater, or to generate fonts or typefaces for use other than with Fiery XJ+ 525;

b. make or have made, or permit to be made, any copies of the Software, Coded Font Programs, accompanying documentation or portions thereof, except as necessary for use with the Fiery XJ+ 525 unit purchased by you; provided, however, that under no circumstances may you make or have made, or permit to be made, any copies of that certain portion of the Software which has been included on the Fiery XJ+ 525 hard disk drive. You may not copy the documentation;

c. attempt to alter, disassemble, decrypt or reverse engineer the Software, Coded Font Programs or accompanying documentation.

d. rent or lease the Software.

Proprietary Rights

You acknowledge that the Software, Coded Font Programs, Typefaces, Trademarks and accompanying documentation are proprietary to Electronics for Imaging and its suppliers and that title and other intellectual property rights therein remain with Electronics for Imaging and its suppliers. Except as stated above, this Agreement does not grant you any right to patents, copyrights, trade secrets, trademarks (whether registered or unregistered), or any other rights, franchises or licenses in respect of the Software, Coded Font Programs, Typefaces, Trademarks or accompanying documentation. You may not adapt or use any trademark or trade name which is likely to be similar to or confusing with that of Electronics for Imaging or any of its suppliers or take any other action which impairs or reduces the trademark rights of Electronics for Imaging or its suppliers. The trademarks may only be used to identify printed output produced by the Coded Font Programs. At the reasonable request of Electronics for Imaging, you must supply samples of any Typeface identified with a trademark.

Confidentiality

You agree to hold the Software and Coded Font Programs in confidence, disclosing the Software and Coded Font Programs only to authorized users having a need to use the Software and Coded Font Programs as permitted by this Agreement and to take all reasonable precautions to prevent disclosure to other parties.

Remedies

Unauthorized use, copying or disclosure of the Software, Coded Font Programs, Typefaces, Trademarks or accompanying documentation will result in automatic termination of this license and will make available to Electronics for Imaging other legal remedies.

Limited Warranty And Disclaimer

Electronics for Imaging warrants that, for a period of ninety (90) days from the date of delivery to you, the Software under normal use will perform without significant errors that make it unusable. Electronics for Imaging's entire liability and your exclusive remedy under this warranty (which is subject to you returning Fiery XJ+ 525 to Electronics for Imaging or an authorized dealer) will be, at Electronics for Imaging's option, to use reasonable commercial efforts to attempt to correct or work around errors, to replace the Software with functionally equivalent software, or to refund the purchase price and terminate this Agreement. Some states do not allow limitations on duration of implied warranty, so the above limitation may not apply to you.

Except for the above express limited warranty, Electronics for Imaging makes and you receive no warranties or conditions on the Products, express, implied, or statutory, and Electronics for Imaging specifically disclaims any implied warranty or condition of merchantability or fitness for a particular purpose.

For warranty service, please contact your authorized service/support center.

EXCEPT FOR THE ABOVE EXPRESS LIMITED WARRANTY, ELECTRONICS FOR IMAGING MAKES AND YOU RECEIVE NO WARRANTIES OR CONDITIONS ON THE SOFTWARE OR CODED FONT PROGRAMS, EXPRESS, IMPLIED, STATUTORY, OR IN ANY OTHER PROVISION OF THIS AGREEMENT OR COMMUNICATION WITH YOU, AND ELECTRONICS FOR IMAGING SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Electronics for Imaging does not warrant that the operation of the software will be uninterrupted or error free or that the Software will meet your specific requirements.

Limitation Of Liability

IN NO EVENT WILL ELECTRONICS FOR IMAGING OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES, INCLUDING LOSS OF DATA, LOST PROFITS, COST OF COVER OR OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES ARISING FROM THE USE OF THE SOFTWARE, CODED FONT PROGRAMS OR ACCOMPANYING DOCUMENTATION, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THIS LIMITATION WILL APPLY EVEN IF ELECTRONICS FOR IMAGING OR ANY AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. YOU ACKNOWLEDGE THAT THE PRICE OF THE UNIT REFLECTS THIS ALLOCATION OF RISK. BECAUSE SOME STATES/JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Export Controls

You agree that you will not export or re-export the Software or Coded Font Programs in any form without the appropriate United States and foreign government licenses. Your failure to comply with this provision is a material breach of this Agreement.

Government Use

Use, duplication or disclosure of the Software by the United States Government is subject to restrictions as set forth in subdivision (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or in subparagraphs (c) (1) and (2) of the Commercial Computer Software—Restricted Right Clause at 48 CFR 52.227-19, as applicable.

Third Party Beneficiary

You are hereby notified that Adobe Systems Incorporated, a California corporation located at 345 Park Avenue, San Jose, CA 95110-2704 ("Adobe") is a third-party beneficiary to this Agreement to the extent that this Agreement contains provisions which relate to your use of the Fonts, the Coded Font Programs, the Typefaces and the Trademarks licensed hereby. Such provisions are made expressly for the benefit of Adobe and are enforceable by Adobe in addition to Electronics for Imaging.

General

This Agreement will be governed by the laws of the State of California.

This Agreement is the entire agreement held between us and supersedes any other communications or advertising with respect to the Software, Coded Font Programs and accompanying documentation.

If any provision of this Agreement is held invalid, the remainder of this Agreement shall continue in full force and effect.

If you have any questions concerning this Agreement, please write to Electronics for Imaging, Inc., Attn: Licensing Dept. or see Electronics for Imaging's web site at www.efi.com.

Electronics for Imaging, Inc.
2855 Campus Drive
San Mateo, CA 94403

Contents

Chapter 3: Managing Print Jobs

Chapter 4: Overview of Fiery WebTools

Chapter 5: Fiery WebSpooler

Chapter 6: Color Calibration

Chapter 7: Advanced Fiery Print Calibrator Topics

Appendix A: Troubleshooting

Index

Preface

This manual is intended for Fiery XJ+ 525 Color Server™ operators or administrators, or users with the necessary access privileges, who monitor and manage job flow, perform color calibration, and troubleshoot problems that may arise. It describes the functions and features of Fiery® utilities and Fiery WebTools™ for the purposes of print job management and color quality control.

The Fiery XJ+ 525 Color Server includes Command WorkStation™ software, which enables an operator to manage all jobs sent to the Fiery XJ. Although it may not be the case at all sites, the documentation for this product assumes the presence of an operator who controls and manages jobs sent by users from remote workstations.

NOTE: The term "Fiery XJ" is used to refer to the Fiery XJ+ 525 Color Server.

About this manual

This manual is organized as follows:

• Chapter 1 describes the Fiery XJ Control Panel. It explains the various messages and icons that you might see on the Control Panel and describes how to print system information pages from the Control Panel. It also explains how to properly start up and shut down the Fiery XJ.

• Chapters 2 and 3 describe the Command WorkStation interface. The Command WorkStation application can be installed on networked Windows 95 computers and used to view and manage virtually all aspects of Fiery XJ activity. In addition to providing a graphic display of the job flow, the Command WorkStation allows you to reprint or hold jobs, view and override print option settings, download files, manage printer fonts, preview print jobs, merge rasterized jobs, calibrate the Fiery XJ, and perform Setup (server configuration).

• Chapter 4 introduces Fiery WebTools, explains how to access them, and directs you to sources of more information (in this manual or in other manuals in the documentation set).

• Chapter 5 describes Fiery WebSpooler, which can be used to view and manage Fiery XJ job activity. The interface and features of Fiery WebSpooler have identical counterparts in the Command WorkStation; therefore, this chapter refers you to Chapters 2 and 3 for details about many Fiery WebSpooler functions.

• Chapter 6 tells you how to monitor and maintain color quality of your print output by calibrating the Fiery XJ with Fiery Print Calibrator™.

• Chapter 7 describes advanced applications of Fiery Print Calibrator, such as creating custom calibration and simulation targets to customize the color responses of the Fiery XJ.

• Appendix A lists error messages that you might see at the Fiery XJ Control Panel, the Command WorkStation, Fiery WebSpooler, or the DocuColor 40, and contains some troubleshooting information.

Terminology

Specific terms are explained as they are introduced. However, the following general terms are used throughout:

• PostScript (PS)—A computer language designed as a page description language. The Fiery XJ uses this language for imaging the page and for communication with applications and with the print engine.

• Job—A file consisting of PostScript commands and comments that describe the graphics, sampled images, and text that should appear on each page of a document, and the printer options that should be used in printing, such as media or color rendering style.

• Spool—Write to a disk. Usually used here to refer to a PostScript print job being saved to the Fiery XJ hard disk in preparation for processing and printing.

• RIP—Acronym for raster image processing, which changes text and graphics commands into descriptions of each mark on a page. In common use as a noun, a "raster image processor" (RIP) is the computer processor that performs this function.

• Print—The process of rendering, or imaging, a page or a job on a printer.

These concepts can explain how the Fiery XJ+ 525 Color Server and the DocuColor 40 work together as a powerful printing system. The Fiery XJ PostScript RIP changes text and graphics commands in PostScript into color specifications for each dot of toner deposited on a page by the DocuColor 40.

About the documentation

This manual is part of the set of Fiery XJ documentation, which includes the following manuals for users and system administrators:

- The *Configuration Guide* explains basic configuration and administration of the Fiery XJ for the supported platforms and network environments. It also includes guidelines for setting up UNIX, Windows NT, and NetWare servers to provide PostScript printing services to clients.

- *Getting Started* describes how to install software to enable users to print to the Fiery XJ. Specifically, it describes installation of PostScript printer drivers, printer description files, and other user software provided on the User Software CD and Command WorkStation CD. It also explains how to connect each user to the network.

- The *Printing Guide* describes the printing features of the Fiery XJ for users who send jobs via remote workstations on the network or via a direct parallel port connection.

- The *Color Guide* provides an introduction to the basics of color theory and printing to a Fiery XJ Color Server. It also includes practical color printing tips and application notes that explain how to print to the Fiery XJ from popular Windows and Mac OS applications.

- The *Job Management Guide* explains the functions of the Fiery XJ client utilities, including the Command WorkStation, and how they can be used to manage jobs and maintain color quality. This book is intended for an operator or administrator, or a user with the necessary access privileges, who needs to monitor and manage job flow, perform color calibration, and troubleshoot problems that may arise.

- *Release Notes* provide last-minute product information and workarounds for some of the problems you may encounter.

Fiery XJ job environments

The Fiery XJ supports several levels of control of printing, job management, and setup, and offers you the flexibility to choose the configuration that corresponds to the requirements of your site. Your situation may correspond to one of the descriptions outlined below, or you may prefer an intermediate level of control.

At one extreme, an administrator or operator in a high-volume printing environment controls the entire job flow and all printing. Print jobs arriving from remote users are spooled to the server disk and stored until the operator decides it is time to print them. Additional functions (calibration, job overrides, prioritizing, font management) are reserved for the administrator or operator.

At the other extreme, anyone on the local network can control all printing and server functions; operator intervention is not necessary. Users can print from their workstations to any of the published print connections. Anyone can use the Command WorkStation or Fiery WebSpooler to control any print job.

The spectrum of control that an administrator can implement is described fully in the *Configuration Guide*.

Permissions

Support for these job environments is achieved by a combination of Fiery XJ Setup options. By default, anyone can access Setup, but the administrator can limit access to Setup by specifying an Administrator password for the Fiery XJ (see the *Configuration Guide*).

Also by default, anyone can log in to the Command WorkStation or Fiery WebSpooler and control job flow, but an administrator can restrict access to these functions by specifying an Operator password.

The three security levels from greatest to least control are:

- Administrator—confers control of Setup and is the highest level of control. The person who has access to Setup can control the printing and job management environment by choosing which queues are enabled, and by electing to set passwords. The Administrator can also manage the fonts on the server, clear the server disk when necessary, and set a common web link for all users who log in to the Fiery XJ using their web browser.

- Operator—includes control of print jobs that arrive at the server and the ability to perform calibration and reboot the server.

- Guest—allows users to view the status of active jobs and the list of stored jobs. They cannot make changes to jobs or change their printing instructions. A password is not needed to log in as Guest and view jobs from the Command WorkStation or Fiery WebSpooler windows.

This manual describes the features of the Fiery client utilities, including the Command WorkStation, and all operator privileges, whether those privileges are available to everyone or are exclusive to only certain people. It also includes descriptions of administrator functions, sometimes referring you to other manuals for more information.

Safety warnings

The Fiery XJ display window is a liquid crystal display (LCD) that is made of glass and can break. Do not subject it to strong shocks.

If the display window breaks and the liquid crystal material leaks out, do not inhale, ingest, or touch it. If the material gets on your skin or clothing, wash it off with soap and water immediately.

Do not touch or put pressure on the panel. This will change the color of the panel.

Cleaning the Fiery XJ

Clean the Fiery XJ with a soft cloth moistened with isopropyl alcohol or ethyl alcohol. *Never* use water or ketone as these may permanently alter the display.

Chapter 1: Using the Control Panel

You can use the Fiery XJ Control Panel to view status information, print special pages, and set up printing. While most elements in the Control Panel display have counterparts in the Command WorkStation, you can view current functions on the Control Panel even when the Command WorkStation is not connected to the server or is not running.

Introduction to the Fiery XJ Control Panel

The Control Panel, shown below on the front of the Fiery XJ, comprises the following parts:
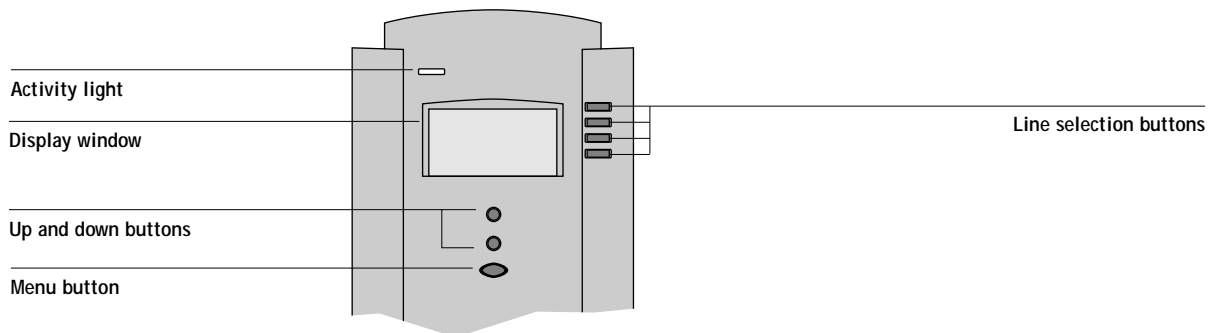
Activity light

The activity light indicates the current Fiery XJ activity. If the light is:

Solid red	An error has occurred causing the Fiery XJ to be disabled.
Flashing red	There is an error causing printing to be disabled, but the Fiery XJ is capable of processing.
Solid green	The Fiery XJ is idle.
Flashing green	The Fiery XJ is processing or printing a job, or communicating with a remote computer.
No light	The Fiery XJ is off or starting up.

Buttons

Line selection buttons | There are four line selection buttons on the right side of the Control Panel. Use these buttons to select the command displayed on the corresponding line of the display window. When a button is active, a special character (>) appears in the display window next to the button.

Up and down buttons | Use these buttons to scroll to different screens in multi-screen lists, to select Setup options from a list of available options, and to scroll alphanumeric characters.

Menu button | Press this button to view other screens. Under normal operation, the Control Panel displays the Info, RIP, or Print Status screen with information about the status of the Fiery XJ. If you press the Menu button, the Functions menu is displayed and you can perform additional operations (see page 1-4). If a job is processing or printing, press the Menu button to cycle among the active screens.

Display window

The display window provides information about the status of the Fiery XJ, displays menu information, and enables you to view and edit information in the Setup menus.

The last line of the display window displays text that tells you what screen you are looking at and highlights one of the icons to indicate what the Fiery XJ is doing. Only the icons for the screens that are currently available appear. The menu button cycles among the active screens.

The screens are:

Alert Status | If there is a problem with processing a job or printing functions, an error message appears on the Control Panel. For information on error messages, see Appendix A, "Troubleshooting."

Print Status When the Fiery XJ is printing a job, the Print Status screen appears. This screen displays the following:

Cancel Job—Press the top line selection button to cancel the job currently printing.

User name—The name of the user who sent the job currently processing.

Pages/Total—The number of copies of the current job printed and the total number of copies of the job requested.

RIP Status When the Fiery XJ is processing a job, the RIP Status screen appears. This screen displays the following:

Cancel Job—Press the top line selection button to cancel the job currently processing. The Fiery XJ cancels the job before printing begins.

Document name—The name of the document currently processing.

User name—The name of the user who sent the job currently processing.

Kilobytes—The size (in kilobytes) of the job processed so far.

NOTE: This number is always displayed in kilobytes, even if the amount goes over 1000KB; for example, 10MB is displayed as 10000KB.

Info Status When the Fiery XJ is not processing or printing a job, it displays information about the current server and software. It displays the following information:

Server Name—The Fiery XJ name.

Status—The current status of the Fiery XJ. The Fiery XJ status can be: Idle, Initializing, Busy, Processing, or Printing.

Megabytes—The space (in megabytes) available on the Fiery XJ hard disk, for example, 756MB.

Version—The system software version running on the Fiery XJ.

Functions You can press the Menu button to display the Functions menu. Use the up and down buttons to scroll through the list. Press the line selection button to the right of a command to select that command. See page 1-4 for more information.

Network The network icon appears at the bottom left of any of the other screens when a job is being sent to the Fiery XJ, either over the network or through the parallel port. The network icon also appears, together with a flashing green activity light, when a remote utility is running.

Functions menu

The Functions menu provides many of the options available from the Command WorkStation. You can choose the following commands from this menu:

Print Pages

Print special pages from the Fiery XJ. You can print the following pages from the submenu that appears:

Test Page—A Test Page enables you to confirm that the Fiery XJ is properly connected to the copier, and provides color and grayscale samples to troubleshoot problems with the copier or the Fiery XJ. The following settings are among those listed on the Test Page: Server Name, Printer Model, color settings, calibration information, date and time the Test Page was printed.

Configuration—Prints the Configuration page, which gives the current server and device configuration. This page lists general information about the hardware and software configuration of the Fiery XJ, the current options for all Setup settings, information about the current calibration, and the Ethernet and Token Ring addresses of the Fiery XJ.

Job Log—Prints a log of the last 55 jobs. For information on the fields in the Job Log and on printing it in other forms, see "Job Log window" on page 2-28.

Control Panel Map—Prints the Control Panel Map, which is an overview of the screens you can access from the Control Panel. For information about using these screens to set up the Fiery XJ, see the *Configuration Guide*.

Color Charts—Prints samples of the RGB, CMY, and PANTONE colors available from the Fiery XJ.

Font List—Prints a list of all fonts currently on the Fiery XJ hard disk.

Suspend Printing

Suspend communication between the Fiery XJ and the copier. You *must* suspend printing if you want to interrupt the current Fiery XJ job so that you can use the copier to make copies. Jobs continue to process on the Fiery XJ. After you make the copies, select Resume Printing to continue printing jobs from the Fiery XJ.

Resume Printing

Resume communication between the copier and the Fiery XJ after you have finished making copies.

Reboot Server

Shut down all Fiery XJ activity in the correct manner and then restart. You should use this option instead of the power switch on the back of the Fiery XJ.

1

Starting and shutting down the Fiery XJ

Generally, you can leave the Fiery XJ running all the time. This section describes how to shut down and restart the Fiery XJ when necessary.

Starting the Fiery XJ

To start the Fiery XJ, move the power switch on the back of the Fiery XJ to the On position. If the copier is also powered off, power it on before powering on the Fiery XJ.

Power switch

Diagnostic messages appear on the Fiery XJ Control Panel. If any diagnostics fail, more information and instructions appear. Contact your service representative if the Fiery XJ encounters problems while running the diagnostics.

When the diagnostics are finished, the following message is displayed:

Press any key for setup…

If you want to change Setup option settings, press any button; if you do not press a button, the Fiery XJ continues starting up and displays the message Idle when it is ready to receive data.

NOTE: If an Administrator password has been set, you are required to enter it to access Setup.

If you press a button, the following options appear.

For information about the Setup menus and options, see the *Configuration Guide*.

Choose:	To do this:
Exit Setup	Exit the Setup menus; the Fiery XJ reboots.
Server Setup	Enter the Server Setup menus.
Network Setup	Enter the Network Setup menus.
Printer Setup	Enter the Printer Setup menus.
PS Setup	Enter the PostScript Setup menu.
Color Setup	Enter the Color Setup menu.
Job Log Setup	Enter the Job Log Setup menu.
Change Password	Change the Administrator password.
Clear Server	Clear all jobs in all server queues as well as the Job Log. Check with your administrator or operator before choosing Clear Server.

Restarting the Fiery XJ

You should use the procedure described below to restart the Fiery XJ rather than using the power switch on the back of the Fiery XJ.

TO RESTART THE FIERY XJ:

1. **Make sure that the Fiery XJ is not receiving, processing, or printing a job.**

    Make sure that the status message on the Control Panel is Idle.

    NOTE: If a job from the Print queue is processing, it will continue processing and print after the Fiery XJ is restarted; if a job sent to the Direct connection is processing, it will not finish processing or printing.

2. **Press the Menu button to display the Functions menu.**

3. **Use the down button to scroll to the last screen and choose Reboot Server.**

Shutting down the Fiery XJ

You may need to shut down the Fiery XJ for service. When you do so, fonts that have been downloaded to the hard disk drive are not deleted. Print jobs in the Hold and Printed queues and jobs that have been processed but not printed are not deleted and are available for printing when you restart the Fiery XJ.

TO SHUT DOWN THE FIERY XJ:

1. **Make sure that the Fiery XJ is not receiving, processing, or printing a job.**

   Make sure that the status message on the Control Panel is Idle. If a job has just finished processing or printing, wait at least five seconds after the Control Panel status message switches to Idle before proceeding to step 2.

   NOTE: If a job from the Print queue is processing, it will continue processing and print after the Fiery XJ is restarted; if a job to the Direct connection is processing, it will not finish processing or printing.

2. **Power off the Fiery XJ by moving the power switch on the back to the Off position.**

   NOTE: After powering off the Fiery XJ, make sure to also power off the copier. Leaving the copier powered on while the Fiery XJ is powered off can lead to excessive drain on the Fiery XJ motherboard battery.

Chapter 2: Introduction to the Command WorkStation

This chapter introduces you to the graphical user interface of the Command WorkStation. First, you select a user level and log in to the Fiery XJ. Once you have logged in, you can tour the Command WorkStation windows. Your exploration will be more complete if you have some jobs in the Spool area (jobs printed to the Hold queue) and have the ability to send more jobs from a nearby computer.

Chapter 3 builds on the information in this chapter and describes job monitoring and control in more depth.

About the Command WorkStation

The Command WorkStation provides a window on Fiery XJ and copier functions, and an interface from which you can control those functions. The Command WorkStation application can be installed on a Windows 95 computer with a TCP/IP or IPX network connection to the Fiery XJ. To perform Setup from the Command WorkStation, a TCP/IP connection is required.

By default, no passwords are set on the Fiery XJ—in this default state, anyone can perform Setup and use all Command WorkStation functions. Until an Administrator password is defined in Fiery XJ Setup, you can log in to the Command WorkStation as an Administrator without entering a password, and you are given full privileges which include:

- A view of current printing jobs and jobs stored on the Fiery XJ
- Control of printing jobs and calibration
- Access to Setup, management of resident fonts, and clearing of the Fiery XJ disk and the Job Log

After the Administrator has performed Setup and specified passwords, Command WorkStation user options depend on your login level. If you log in to the Command WorkStation as Guest, you have the first option only. If you log in as Operator, you have the first two options. If you log in as Administrator, you have all three options. For information about Setup and specifying passwords, see the *Configuration Guide*.

After you connect to a Fiery XJ and log in, your first view of the Command WorkStation is the Queues window (as indicated by the tab at the bottom) which is divided into three regions by Spool, RIP, and Print status bars. The Queues window is surrounded by a frame that includes slider buttons and menus.

Once the Fiery XJ receives print jobs, the Queues window becomes a dynamic display, filled with the names of jobs and their characteristics. Status bars animate in real time as new jobs are processed and printed, and jobs move to different display areas. An operator, who has complete job control, sets the process in motion for each job.
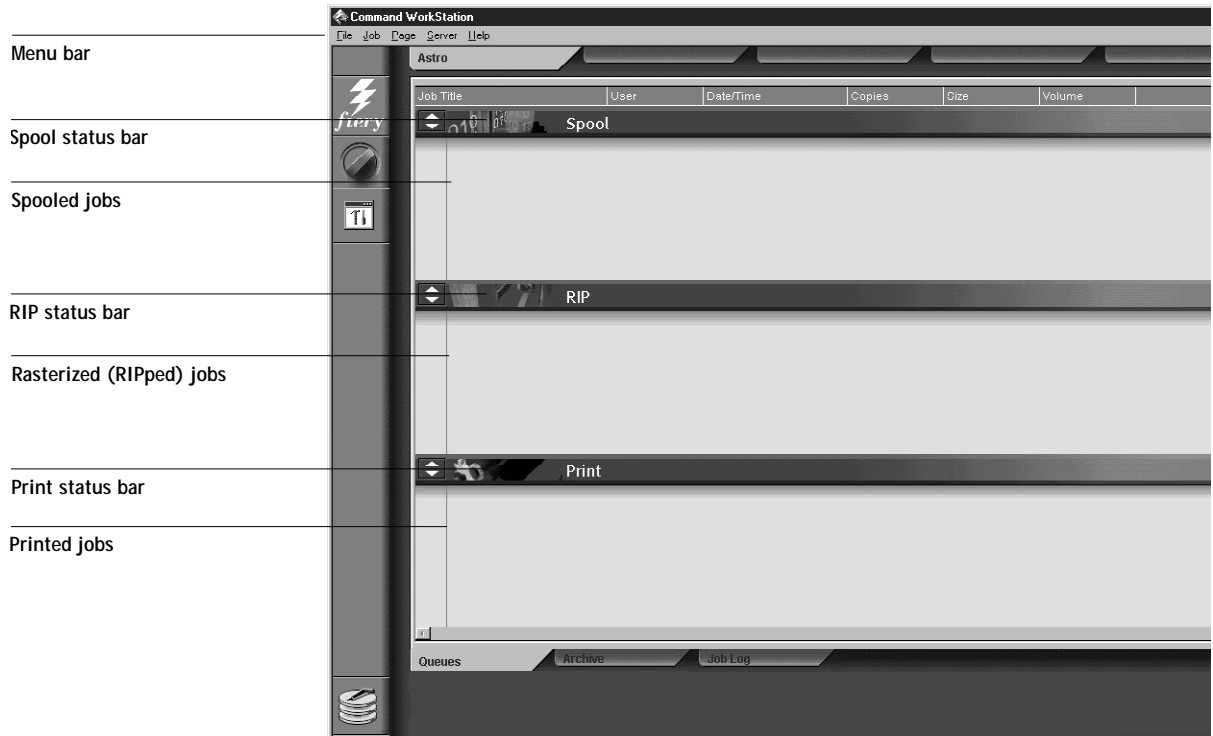
The Spool, RIP, and Print areas of the Queues window represent the stages of printing a job. Jobs come in at the top level (Spool) and drop down to the Print level, unless they are held along the way.

- **Spooled jobs**—Jobs listed below the Spool status bar area are PostScript files stored on the Fiery XJ disk. These jobs were sent to either the Print queue (white icons) or the Hold queue (yellow icons).

- **RIPped jobs**—Jobs listed below the RIP status bar are ready to print. They have already been rasterized (RIPped, or processed for printing) and are waiting, in order, for access to the printer. Rasterized jobs can also be held; held jobs are displayed on a yellow background.

- **Printed jobs**—Jobs listed below the Print status bar have already been printed. Printed jobs can be stored on the Fiery XJ disk. The number of jobs that can be stored (from 1 to 99) is defined in Setup.

You can interact with a jobs in the window by selecting them and choosing from Job menu commands or right-mouse menu commands, or by double clicking them. (However, if passwords have been set and you log in as a Guest, you can only view jobs; you cannot change or route them.) This chapter and the next explain the Command WorkStation interface in detail.

Starting up and logging in

To start up the Command WorkStation application, click the Windows Start button and choose Command WorkStation from the Programs menu.

Connecting to the server

If the Command WorkStation was previously connected to a server, you are prompted to choose a Fiery XJ from the list of servers.

NOTE: If the Command WorkStation has never been connected to a Fiery XJ, you are prompted to configure an entry for the server. Click OK and see *Getting Started* for instructions on how to configure a new connection.
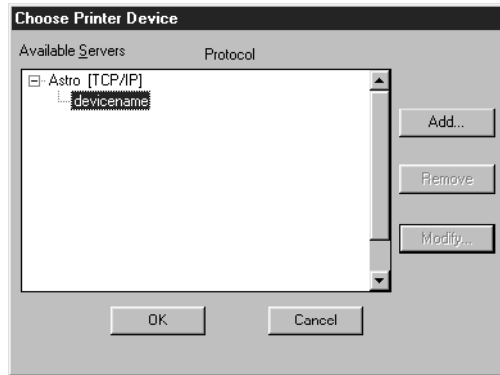
With the Fiery XJ device name (DocuColor) selected, click OK. If the device name is not displayed, click the plus sign (+) to expand the Fiery XJ entry.

The Command WorkStation connects to the server and you are prompted to choose a login level and enter a password to log in (see below).

If you have any difficulties connecting to the server, see Appendix A for error messages and troubleshooting information.

Logging in

When the Command WorkStation has connected to a server, the Log in/out slider appears, prompting you to select a login level and enter a password. Before you log in, the Operator key is in the vertical position, and the Administrator and Guest keys are in the flat (horizontal) position. When you click your login level, the corresponding key turns to the vertical position.

Log in/out slider

For Administrator or Operator access to the server, click the corresponding key, enter the password, and click Log in or press Enter. For Guest access only, click the Guest key and then click Log in. No password is required for Guest access.

If you change your mind about logging in, or do not have the password you need, click Cancel.

When you have entered the appropriate password and logged in, the Log in/out slider retracts and the full Command WorkStation display appears. The color of the key in the lock indicates your login level. If the server is handling a large number of jobs, it may take a few moments to display the entire job list.

When you reopen the slider after you have logged in, the Log in button will have changed to the Log out button.

Access levels

The three possible levels of access to Command WorkStation functions are Administrator, Operator, and Guest. To enable maximum password protection, Administrator and Operator passwords must be specified in Setup (see the *Configuration Guide*).

When both Administrator and Operator passwords have been specified, the access levels are as follows:

Access level:	Privileges and password requirements:
Administrator	Has full access to all Command WorkStation and Fiery XJ Control Panel functions; Administrator password required
Operator	Has access to all Command WorkStation functions *except* Setup, clearing the server disk, clearing the Job Log, and font management; Operator password required
Guest	Can view job status, but cannot make changes to jobs or Setup, and can view the Queues window only; no password required

2

NOTE: Access privileges alone do not confer control of print jobs. If the operator is going to manage all print jobs, the Administrator must route all user jobs to the Hold queue (that is, all jobs are spooled and held on the server). To accomplish this, only the Hold queue, and not the Direct connection or the Print queue, should be enabled in Setup. See the *Configuration Guide* for more information.

Logging out

There are two ways to log out from the server:

• From the Server menu, choose Log out

• Open the Log in/out slider (click the key icon just below the Fiery logo) and click Log out

The Command WorkStation interface

The display illustrated below is the default Command WorkStation display in the middle of job processing. There are two other windows, Archive and Job Log, which you access via tabs at the bottom of the display (3). The elements numbered 1 through 4 are common to all Command WorkStation displays, those numbered 5 through 7 appear only in the Queues window, and element number 8 is common to the Queues and Archive windows.
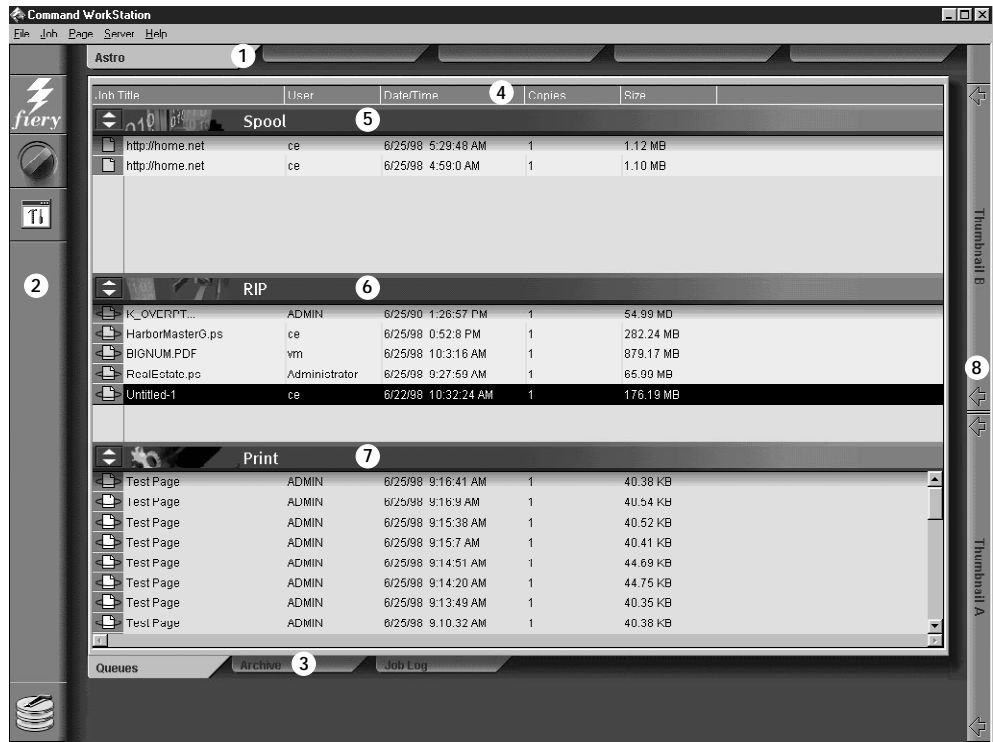
1 Server selection tabs
2 Sliders and system information
3 Window selection tabs
4 Job ticket information
5–8 Queues window display

The Command WorkStation provides access to a great deal of information and many features that are accessed in various ways—buttons, menus, double-clicking, and right mouse commands. It is a powerful interface that allows for a great deal of interaction and flexibility in the production process. This section describes each of the elements that compose the Command WorkStation display.

Window area (Queues, Archive, Job Log)

This area can display one of three windows: the Queues window (shown below), the Archive window, or the Job Log window (only the Queues window is available if you logged in as Guest). The Queues window is the default window; it shows spooled, processing, and printing jobs in a display that changes dynamically.

For information on:	See:
Queues area	"Queues window" on page 2-15
Archive area	"Archive window" on page 2-25
Job Log area	"Job Log window" on page 2-28

Menu bar

The menu bar has five menus. When an action is not available in the current context, the command is dimmed. When a command is marked with a check, selecting it again reverses, or toggles, the command.

Command WorkStation
File Job Page Server Help
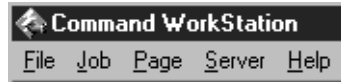
Menu:	Choose this:	To do this:
File	Preferences> Enable Animation	Turn on or off animation of the status bars
	Preferences> Enable Popup Help	Turn on or off short captions that appear when you pause the mouse over window elements. The captions identify the main parts of the Command WorkStation window.
	Preferences> Expand/Collapse All	Expand the status bars to make them more visible from a distance, or collapse them to free up window space
	Preferences> Revert to Defaults	Restore default settings for the status areas (narrow heights), the column headings (job title, user, date/time, copiers, size), and the column widths
	Print Pages	Print any or all of the following pages: Configuration page, Test Page, Control Panel Map, Font List, Color Charts, Job Log; see page 3-4
	Exit	Log out from the server, exit the Command WorkStation application, and return to the Windows desktop

2

Menu:	Choose this:	To do this:
Job (For more information on these commands, see page 2-22)	Delete	Delete one or more selected jobs
	Duplicate	Duplicate one or more selected PostScript data jobs in the Spool or Print areas; see page 2-19, page 2-21, and page 2-22
	Rename	Rename a selected job
	Hold	Hold the selected job(s); see page 2-17
	RIP and Hold	RIP and then hold the selected job(s); see page 2-17
	Print	Print the selected job(s); see page 2-21
	Print and Hold	Print the selected job(s) and then hold it in the RIP area; see page 2-17
	Process Next	Give top priority to this job
	Remove Raster	Remove the raster information from the selected job(s); see page 2-23
	Properties	View and edit print settings for the selected job(s); see page 2-31
	Thumbnail A	Open a selected *held* raster data job in the Thumbnail A window where you can view a full-screen preview of the job, edit the job, or merge it with raster data from other jobs; see page 2-32
	Thumbnail B	Open a selected raster data job (not necessarily a held job) in the Thumbnail B window for viewing or for copying pages into a job in the Thumbnail A window; see page 2-32
	Download	Download files and fonts to the Fiery XJ with Fiery Downloader; see page 3-18
	Archive	Archive one or more selected jobs; see page 2-25
Page (DocBuilder commands for Thumbnail A)	Delete	Delete the selected page(s)
	Duplicate	Duplicate the selected page(s)
	Preview	View a full-screen preview of the selected page; see page 2-34
	Undo	Undo previous Page menu commands (multiple undos available)

Menu:	Choose this:	To do this:
Server	Cancel RIPping	Stop RIPping the current job
	Cancel Printing	Stop printing the current job
	Suspend Printing	Temporarily halt printing
	Resume Printing	Restart printing (after a Suspend Printing command)
	Calibrate	Start the Fiery Print Calibrator; see Chapter 6 and Chapter 7
	Manage Fonts	View the fonts currently installed on the Fiery XJ disk, download additional fonts, or delete fonts (requires Administrator privileges); see "Server management commands" on page 3-25
	Reboot	Perform a soft reboot of the Fiery XJ (requires Operator or Administrator privileges); see "Server management commands" on page 3-25
	Clear	Clear all jobs in all queues on the Fiery XJ hard disk as well as the Job Log (requires Administrator privileges); see "Server management commands" on page 3-25
	Setup	Start the Fiery Setup program (requires Administrator privileges); see "Server management commands" on page 3-25 and the *Configuration Guide*
	Log out	Log out of the server
Help	About	View the Command WorkStation information screen

Server selection tabs

The Server selection tabs, just below the menu bar at the top of the display, can be used to log in to additional Fiery XJ servers (if your site has more than one) and to switch between Fiery XJ servers currently connected to the Command WorkStation.

If you click a blank tab, you are prompted to connect to a server in the list or configure a new server entry (see "Connecting to the server" on page 2-3). A limit of five Fiery XJs can be connected to a single Command WorkStation.

You can access the Server selection tabs from all Command WorkStation windows (Queues, Archive, and Job Log).

Sliders

Along the left side of the display are buttons you click to activate function sliders.

Click to view server information

Click to open the Log in/out slider

Click to start a Fiery utility

Click to view disk space and
RAM availability
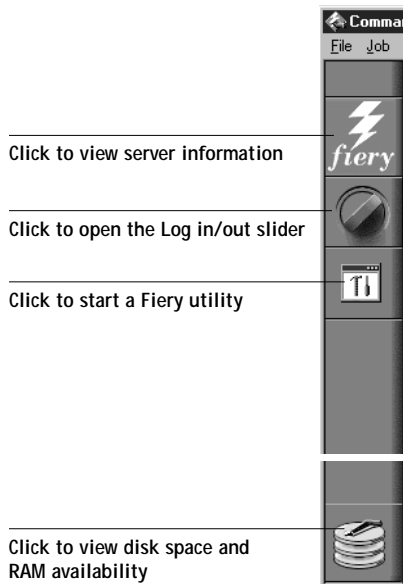
To retract any slider, click the icon at the far right of the slider.

Server information slider

The Server information slider displays name and version information about the currently connected server and the Command WorkStation. To retract the slider, click the Fiery logo at the far right of the bar.

Log in/out slider

This slider is described in "Logging in" on page 2-4 and "Logging out" on page 2-6. To retract the slider, click the lock icon at the far right of the bar.

Utilities shortcut slider

This slider can be used to access the Fiery Downloader and Fiery Print Calibrator utilities. These utilities can also be accessed from the Job menu and Server menu, respectively. To retract the slider, click the icon at the far right of the bar.

Disk space and RAM slider
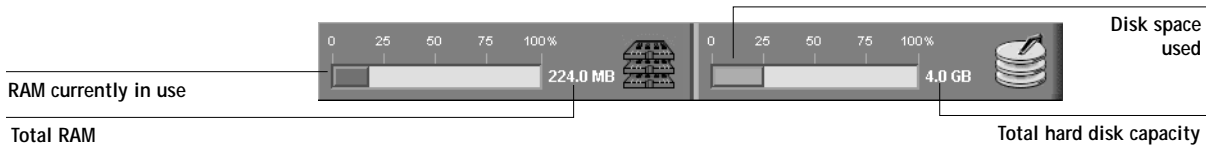
The System information indicators show the current availability of hard disk space and RAM on the currently selected Fiery XJ server. To retract the slider, click the icon at the far right of the bar.

Job ticket information

All the jobs listed by name in the Queues and Archive windows can display the job ticket information specified by the person who originated the print job. The Command WorkStation can display this information because it parses the PostScript file before it is RIPped.

You have considerable flexibility in arranging this information in the display. For example, you can add Media Type to the display if you want to see which jobs call for special paper or other media.

Job Title	User	Date/Time	Copies	Size	Media Type

You can choose not to display headers for options that are not used at your site, or you can display all possible options and scroll to see the ones that are less important to you. If you just want to experiment, when you are finished you can choose Revert to Defaults from the File>Preferences menu.

To customize the display in the Queues and Archive windows, you can:

- Adjust the width of a column by clicking the column border in the heading and dragging left or right.

- Choose the options you want to display, and the sequence in which you prefer to view them. To add, move, or delete a column, hold down the right mouse button on the appropriate job ticket item; release the button after choosing a menu option:

  Add—one of the listed columns to the display at your mouse position

  Move Left, Move Right—move the selected column left or right

  Delete—the selected column

The Job Title and User are required; all other columns are optional.

For example, you can display the Instructions column, which shows information typed into the Instructions field by the user, and you can reduce the width of the column so you are just able to see whether or not there are instructions in it. To read the full instructions, double-click the job and scroll to the Instructions field in the Properties dialog box.

NOTE: The Date/Time value indicates the date and time that the job arrived in the Spool, RIP, or Print area.

Window selection tabs

The Command WorkStation always starts out by displaying the Queues window, from which you view current job processes and control job flow and file storage. To go to another window, click the corresponding tab at the bottom of the Command WorkStation display.

Queues window

Spooling

The Queues window is a dynamic display of the job staging area: jobs are lined up for processing and printing, some of them are being held waiting for directions, some are moving from one stage or queue to another and are finally dropped from the list, some are held for processing by the operator, and some are held in a different queue in case you need to reprint them.

RIPping

One approach to understanding the dynamic display is to imagine the three parts of the Queues window corresponding to the three stages of printing, illustrated as a downhill flow.

Printing

Spooling—a PostScript file is saved on the server's hard disk. The file can come in packets from the network, or from another place on the server hard disk. Jobs are added to a queue in the order in which they arrive, and they generally move to another queue in the same order unless an operator has intervened to change the order.

Rasterizing (RIPping)—PostScript commands are interpreted in the Fiery XJ to allow the DocuColor 40 to print the file the way its originator intended. The result of this interpretation is a raster file associated with the original PostScript file. In this raster file (raster image), color data is associated with each dot that can be rendered by the print engine. The color data tells the print engine whether or not to apply cyan, magenta, yellow, or black toner to each position on the page.

Printing—transferring the raster image from the server to the print engine at high speed, freeing up RAM for the next job. While the PostScript file is usually saved to disk, raster images are held in RAM during and after each print job. However, both users and operators can request that the Fiery XJ save the raster image to disk along with the PostScript file.

Saving the raster image to disk offers some advantages—raster files are already processed so they print quickly, and each part of the raster file is still identified with a page in the original document, which means that individual pages of a saved raster file can be accessed.

Status bars

Jobs actively involved in the three processes (spooling, rasterizing, and printing) are listed in the **status bars** that span the Queues window.

Status bars show the filename and user name for the active process, and an indication of its progress. Each status bar heads the list of jobs that have completed the process. Thus, beneath the Spool status bar, you see a list of spooled files; beneath the RIP status bar, you see a list of rasterized (RIPped) files; beneath the Print status bar, you see a list of jobs that have already been printed.

NOTE: In the Spool status bar, the filename and user information always appear as "Unknown" (as shown below). This information is not available until the job has finished spooling to the Fiery XJ disk.

Spool filename **Unknown** user **Unknown**

Spooled jobs on Hold (yellow)
Active spooled jobs (white)

RIP filename **Portfolio.ps** user **mattbl** size **394.88 KB**

RIPped jobs on Hold (yellow)
Active RIPped jobs (white)

Print filename **Portfolio.ps** user **mattbl** copies **1/1**

Printed jobs (white); some include
raster files in RAM

When a job is being processed, provided animation is enabled (see page 2-9), the corresponding status bar is animated, indicating that the process is active.

If an error occurs, the corresponding status bar alerts you by displaying a message on a red background instead of the normal blue background.

2

Enlarging the status bars Click the small arrows at the left of the status bar to expand the status bar display. Click the arrows again to collapse the status bar to its original size. To expand *all* the status bars at the same time, press Ctrl-E or choose Expand/Collapse All from the File>Preferences menu. Click the arrows or press Ctrl-E again to collapse them to their original size, or choose Expand/Collapse All again.

Changing proportions By default, the status bars divide the window area into three equal parts. You can drag the RIP and Print status bars up or down to change the proportion of the window devoted to each job area. For example, drag the RIP status bar down if you have a long list of spooled jobs that you want to see without scrolling.

Making space If your workflow includes holding many jobs, and you don't want to view the held jobs all the time, consider moving some of them to the Archive window. You can move jobs back and forth between the Queues window and the Archive window with a single right mouse command (see page 2-22).

Active jobs and held jobs

In the description that follows, assume that the operator has full control of jobs; that is, the administrator has disabled the Direct connection and the Print queue, and all user jobs come to the Hold queue. For more information about queues, see the *Configuration Guide*.

The operator's job management functions permit *holding* a job at any stage of the process we have described, as illustrated below. In the figure, boxes indicate types of job icons you would see in the Queues window.
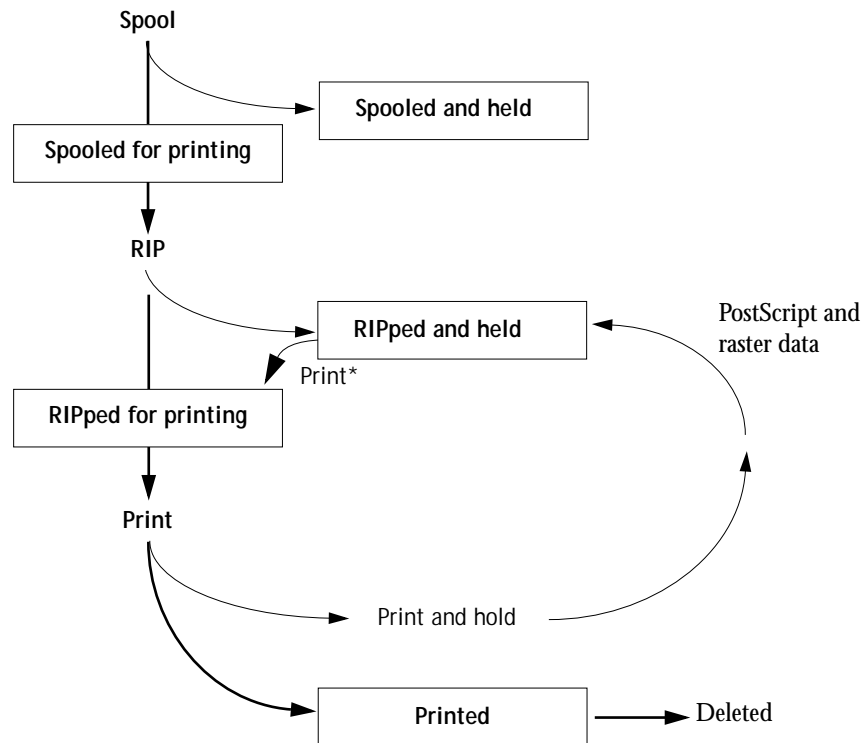
*A copy of the held job is printed; the held job remains in the RIP area.

Jobs that are held are shown with a yellow icon in a yellow row, just beneath the Spool or RIP status bar. Jobs that are held must be activated with a command in order to print.

Active jobs are shown in white with white icons; new jobs are added above older jobs.

Job icons

There are three types of icons that are used for both active jobs and jobs on hold.

Icon:	Active jobs: (white icons and rows)	Jobs on Hold: (yellow icons and rows)
Printer icons	PostScript or raster data headed for printing (top) or after printing (bottom)	PostScript data headed for Print and Hold or job on Hold after printing (Hold)
Raster icon	PostScript and raster data after printing, ready for fast reprint	PostScript data already rasterized and held

Spool area

The job icons in the Spool area are described below:

Spool area icon:	What it indicates:	How long you see the job:
1 Yellow printer icon Yellow job row	PostScript data from a user on the network; no destination is defined	Until a destination is chosen
2 White printer icon White job row	PostScript data headed for Print	Until the RIP is free
3 Yellow raster icon White job row	PostScript data headed for RIP and Hold	
4 Yellow printer icon White job row	PostScript data headed for Print and Hold	

The Spool area is both the receiving area for jobs from users on the network (Hold queue) and the waiting area for jobs that will be RIPped (jobs in the Spool queue).

Hold queue jobs When printing requires an operator (because the Print queue and Direct connection are disabled), the operator must assign a destination to all jobs received from users on the network (icon 1 in the table above). Once assigned, jobs (icons 2, 3, and 4) move down the Spool queue for processing. All jobs printed to the Hold queue require routing by an operator.

Print queue jobs When printing does not require an operator, network jobs sent to the Print queue appear in the Spool area where they are shown with a white printer icon (icon 2). When they reach the head of the queue, they are RIPped and printed without operator intervention.

Direct connection jobs Jobs printed to the Direct connection are not displayed in the Command WorkStation job lists. They are displayed briefly in the status bars (where they cannot be selected) and are included in the Job Log.

RIP area

The job icons in the RIP area are described below:

RIP area icon:	What it indicates:	How long you see the job:
1 Yellow raster icon Yellow job row	Raster data, no destination defined; may have been printed before and held	Until it is deleted, moved to the Archive window, or stripped of its raster data and sent to the Spool area
2 White printer icon White job row	Raster data headed for Print in its turn; no hold defined	Until copier is free to print the job

After a job is rasterized, it goes into the RIP area. The RIP area holds only raster data (i.e., jobs that have been rasterized). Jobs in the RIP area are either waiting for the copier to be free (Print queue jobs, icon 2 in the above table), or they are being held.

Held jobs in the RIP area have already been rasterized (RIP and Hold) or they have been printed and their raster data has been routed back to the RIP area (Print and Hold), where they are shown in yellow rows (icon 1).

NOTE: Raster jobs in the RIP area that are waiting to print (icon 2 in the table above) cannot be manipulated by job commands.

Jobs held in the RIP area remain there until the operator moves them to the Archive window or deletes them. Printing these jobs does not remove them from the RIP area. Instead, a copy of the job is created and printed.

NOTE: For all rasterized jobs, the print option settings, in addition to the current calibration state of the Fiery XJ, remain with the saved raster data each time the job is reprinted. To print the job with new print option settings and with new calibration data, you must remove the raster data and reRIP the job.

Print area

The job icons in the Print area are described below:

Print area icon:	What it indicates:	How long you see the job:
1 White printer icon White job row	PostScript data only—raster data has been deleted	Until the job limit is reached
2 White raster icon White job row	Raster and PostScript data If RAM is needed to RIP an active job, the raster data is deleted and the job gets the PS icon (icon 1, above)	Until the job is reprinted or the job limit is reached

The Print area, also referred to as the Printed queue, contains jobs that have already been printed. These jobs were assigned the Print destination (white printer icon in the Spool or RIP areas) without any Hold instructions; therefore, they all have white icons and rows.

NOTE: A job row that appears in light red indicates that a PostScript error occurred while printing the job. To see the error, double-click anywhere in the row.

Newly printed jobs are added to the Printed queue, and are shown at the top of the list. Jobs are saved in the Printed queue until the job limit is reached. When the first job over the limit is printed, the oldest job is deleted from the disk. The default job limit is 20 jobs. The value for Jobs Saved in Printed Queue can be changed in Setup by the administrator.

NOTE: If you reprint a job in the Printed queue, the job returns to its original position in the Printed queue after it is printed.

While it is printing, a job consists of PostScript and raster data. The raster data in RAM is not cleared until memory is needed to rasterize the next job. As long as the raster data is intact, the job can be reprinted from the Printed queue. Printed jobs that still have their raster data are represented by a white raster icon in the Printed queue (icon 2 in the previous table); jobs with only PostScript data remaining are represented by a white PS icon (icon 1). If the job was printed from a held raster job (in the RIP area), the raster data in the RIP area remains and can be used to reprint the job after the raster data has been cleared from the Printed queue.

Job commands

Job commands are used to assign a selected job to a new destination or process. These commands are available from the Job menu (see page 2-9). Many are also available as right mouse commands (described following the list of commands below). The job commands available at a given time depend on the context; unavailable commands are dimmed. Job commands are available in the Queues and Archive windows.

The job commands available for selected jobs in the Queues and Archive windows are listed in the following table. The table also describes the effect of each command on raster data associated with the affected job(s).

Choose this:	To do this:	Raster data is:
Delete	Delete the job(s)	Deleted
Duplicate	Duplicate one or more selected PostScript data jobs in the Spool or Print areas. You can use the duplicate job(s) for different print options or a different destination. (The Duplicate command actually creates a reference to the original job, with the same name)	n/a (The Duplicate command is not available for raster jobs)

Choose this:	To do this:	Raster data is:
Rename	Rename the job (PostScript file with or without raster)	Unaffected, but associated with the new name
Hold	Hold the job in the current place (except for a job in the Print area, which is moved to the Spool or RIP area, depending on whether it still has raster data associated with it)	Held in RIP area, if included with job
RIP and Hold	RIP the job and hold it in the RIP area	Held in RIP area indefinitely
Print	Print the job in its turn (RIP it first if it does not have raster data) After printing, keep the printed job in the Print area until the job limit is reached.	Temporarily held in RAM after printing until memory is needed for another job (If the job was printed from a held job in the RIP area, the raster data in the RIP area is kept indefinitely)
Print and Hold (Like the user print option Save Fast Reprint)	Print the job in its turn (RIP it first if it does not have raster data) After printing, hold the PostScript data and the raster in the RIP area	Held in RIP area indefinitely (saved to disk)
Process Next	Give top priority to this job RIP (and then print) it as soon as the processor is free, before other waiting jobs Option is dimmed if there are no other waiting jobs	n/a NOTE: This command is available only for jobs in the Spool area that are not currently held.
Remove Raster	Remove the raster data from a job that has raster data (indicated by a raster icon); leave the PostScript data unaffected	Deleted NOTE: If you remove raster from a job in the RIP area, the job is sent to the Spool area.
Properties	View and override print settings for a selected job or a group of selected jobs	Possibly deleted and regenerated, depending on whether you change any settings that require re-RIPping
Thumbnail A	Open the selected *held* raster data job in the Thumbnail A window where you can view a full-screen preview of the job, edit the job, or merge it with raster data from other jobs	Changed if job is edited, unaffected if job is only viewed
Thumbnail B	Open the selected raster data job (not necessarily a held job) in the Thumbnail B window for viewing or for merging into a job in the Thumbnail A window	Unchanged

Choose this:	To do this:	Raster data is:
Download	Download files and fonts to the Fiery XJ with Fiery Downloader; see page 3-18	n/a
Archive	Archive the selected held job(s) to the Fiery XJ hard disk and move the job icon to the Archive window; see page 2-25	Archived with the job, if archiving of raster data is specified

Using right mouse commands

Use the following instructions to activate job commands with a single right mouse click.

TO ROUTE JOBS WITH RIGHT MOUSE COMMANDS:

1. **To route a single job in the job list, right-click the job.**

2. **Select one of the commands or destinations and release the mouse button.**

   The command is carried out or the job is routed to the destination you chose. Depending on your choice, the job line may reappear in a different part of the window or a different window, or the job line may be deleted.

3. **To route multiple jobs at the same time, select the jobs first.**
   Click the job line to select the first job. Shift-click to select adjacent jobs; Ctrl-click to select nonadjacent jobs.

   NOTE: Select jobs with the same job icon; otherwise, the destination options may not be the same. For example, select multiple jobs in the Spool area, and choose Print.

4. **With the cursor still in one of the selected job lines, press the right mouse button.**

5. **Select one of the commands or destinations and release the mouse button.**

   The command is carried out or the jobs are routed to the destination you chose.

Archive window

If you want to store jobs before or after printing them, you can archive them. The Fiery XJ can archive jobs internally (on the Fiery XJ hard disk). For instructions on how to archive jobs, see page 3-22.

NOTE: The Archive window is not available if you logged in as Guest.

Both PostScript and raster data jobs can be archived, but jobs must first be *held* in the Spool or RIP areas of the Queues window before they can be archived.

When you archive a job, the job is *moved*, not copied, to the archive destination (the Fiery XJ archive area). The Archive window shows a cumulative list of *all* jobs that have been archived. This list is cleared (along with all jobs on the server) by a Clear Server or Clear command. The job icons in the Archive window are described below:

Archive icon:	What it indicates:
Printer icon	PostScript data only—raster data not present or deleted Job was archived from the Spool area
Raster icon	Raster and PostScript data Job was archived from the RIP area

The job commands described on page 2-22 can also be used with jobs in the Archive window.

The icons that appear in the Archive window are always white, since they have no destination (as long as they are in the Archive window).

Sort order indicator

Archive Log		○ All ● Range	Filter...		
Job Title ▼	User	Date/Time		Copies	Size
KingTut.ps	lwang	02/26/80 17:01:08		1	1.47 MB
999B&W.pmk	Wi Kian	02/28/98 18:38:44		1	1.10 MB
chess.ps	BF	02/27/98 18:59:26		1	3.04 KB

By default, the Archive window displays *all* archived jobs. Until they are deleted, archived jobs remain in the Archive window indefinitely. You can display a subset of archived jobs based on various selection criteria by using the Filter command (see page 2-27).

As with the Queues window, you can select the headings for the display and use Job menu or right mouse commands; you can also sort jobs.

To:	Do this:
Sort jobs in a category, such as by Date	Double-click the Date heading. A small arrow indicates whether jobs are sorted in ascending or descending order. Double-click again to sort in the reverse order.
Route a job to a destination in the Queues window	Use job commands from the Job menu or the right mouse command menu. For example, to print a job, choose Print or Print and Hold. You can also select and route multiple jobs. For details, see page 2-24. The other options, RIP and Hold or Hold, send a copy of the job to the Queues window (to the RIP and Spool areas, respectively) without printing it; Remove Raster (which applies only to jobs with the raster icon) leaves only the PostScript data for the job in the Archive window.
View only particular jobs	Select Range, click Filter, and make entries in the Filter dialog box (see page 2-27).
Delete a job	Select the job(s) and choose Delete from the Job menu or right mouse command menu.
Display or move job ticket information headers in the Archive window	Click the right mouse-button on the appropriate column head; choose Add from the drop-down menu to list the options that you can add to the display. The categories are the same as in the Queues window (see page 2-13) but you can arrange them differently. The column head arrangements you set in the Archive window are independent of those you set in the Queues window.
Adjust the width of a column	Click the column border in the heading and drag left or right.
Export the currently displayed list of archived jobs to a tab-delimited text file	Click the floppy disk icon (at right of the Filter button). Specify a filename and a location for the file and click Save. You can then open the exported file with a spreadsheet, database, or word-processing application.

Filtering jobs in the Archive window

The Archive window displays a cumulative list of *all* archived jobs. If a large number of jobs have been archived, it may be difficult to locate a particular job or a particular group of jobs. You can display a specified subset of jobs by filtering jobs in the Archive window.

You can filter jobs according to any or all of the following criteria:

• Job title

• User name

• Date created (or a date range)

• Notes 1 or Notes 2

• Instructions

Number of archived jobs not currently displayed

Click to show earlier or later months
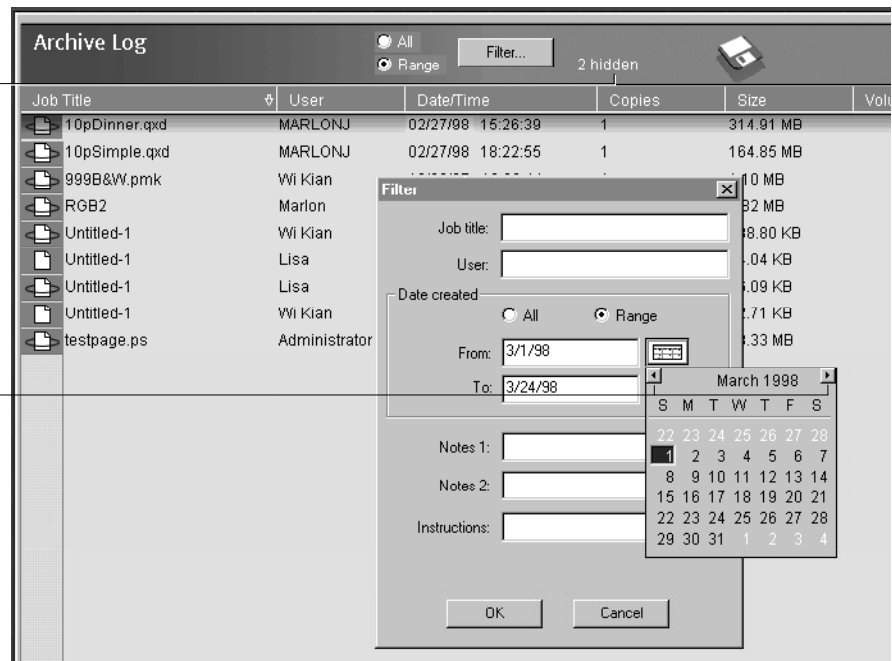
The Filter command lets you perform a search based on any and all values you specify in the Filter dialog box. Enter values in all fields relevant to your filtering criteria. If you enter values in more than one field, only jobs that meet *all* the criteria are displayed. For example, if you enter 10 in the Job Title field and Marlon in the User field, only those jobs whose titles somewhere contain "10" *and* whose User name somewhere contains "Marlon" will be displayed.

To filter by date, select Range in the Date created area and enter dates in the From and To fields; or, click the calendar icons next to the From and To fields and select dates by clicking on them in the calendar that appears. Click the arrows at the upper corners of the calendar to display different months.

When filtering is in effect, the Archive window shows a "[number] hidden" message that indicates the number of archived jobs not currently displayed.

Job Log window

The Job Log is a list of processed and printed jobs, the date and time they were processed or printed, and the characteristics of the job. It includes downloaded files and fonts and RIP and Hold jobs.

NOTE: The Job Log window is not available if you logged in as Guest.

At any given time, the Job Log includes only those jobs processed or printed since the Job Log was last cleared. The Job Log can be cleared manually from the Job Log window or automatically if the administrator has enabled autoclearing of the Job Log in Setup. The Job Log is also cleared whenever a Clear Server or Clear command is executed (see page 1-6 and page 2-9).

You can adjust the column widths in the Job Log display by clicking the column border in the heading and dragging left or right. For more information, see Chapter 3.

Status	Document	User	Date	Start Time	End Time	Process Time	Size	Device
OK	settrue.ps	Administrator	11/06/97	10:07:45	10:07:45	00:00:00	5.40 KB	Unknown
OK	saveprms.2ps	Administrator	11/06/97	10.08.29	10.08.29	00.00.00	6.60 KB	Unknown
OK	prologue.ps	Administrator	11/06/97	10:08:34	10:08:34	00:00:00	89.94 KB	Unknown
OK	vi001005.2ps	Administrator	11/06/97	10:08:49	10:22:48	00:13:52	62.30 KB	Unknown
OK	restprms.2ps	Administrator	11/06/97	10:27:55	10:27:57	00:00:01	8.17 KB	Unknown
OK	settrue.ps	Administrator	11/06/97	10:30:29	10:30:29	00:00:00	5.40 KB	Unknown
OK	saveprms.2ps	Administrator	11/06/97	10:31:47	10:31:48	00:00:01	6.60 KB	Unknown

When you open the Job Log, you can choose to display all jobs in the current Job Log or only the jobs in a specified date range. By default, all jobs are displayed. To specify a date range, select Range and enter dates in the From and To fields; or, click the calendar icons next to the From and To fields and select dates by clicking them in the calendars. Use the arrows at the upper corners of the calendars to display different months. After you have specified the date range, click the Update icon to update the Job Log display with your settings.

NOTE: In the Job Log, "Start Time" reflects the time that the job began RIPping; "End Time" reflects the time that the job printed; and "Process Time" reflects the total RIP time for the job. These times do not correspond to the Date/Time values displayed in the Queues window.

Update the Job Log window display

Export the Job Log
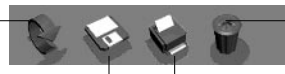
Clear the Job Log

Print the Job Log

2

Updating the Job Log display To update the Job Log window display after specifying a date range (or at any other time), click the Update icon.

Exporting the Job Log From the Job Log window, you can export the Job Log to a tab-delimited text file. The exported file can be opened with a spreadsheet, database, or word processing application. The exported Job Log contains the jobs for the date range you specified.

Clearing the Job Log The Job Log is stored on the server disk. When logged in as Administrator, you can clear the Job Log by clicking the trash icon. The Job Log is cleared whenever an Administrator clears the server or installs new software. In addition, the Job Log can be cleared automatically after every 55 jobs.

Printing the Job Log To print the Job Log, click the printer icon. The Job Log is sent to the Hold queue and appears in the Spool area of the Queues window. You can use Job menu commands to manipulate the Job Log print job as you would any other job. Or you can choose Print Pages from the File menu, select Job Log, and click Print. The printed Job Log contains the jobs for the date range you specified. See "Using the Job Log" on page 3-23 for more information.

Printing and clearing the Job Log automatically You can decide how you want to handle the Job Log. If you have Administrator privileges, you can choose Setup from the Server menu and enter your preferences in the Job Log Setup. You can choose to print the Job Log automatically every 55 jobs, or both print and clear the Job Log automatically every 55 jobs. You can also choose the Job Log page size.

Job properties

When logged in as Operator or Administrator at the Command WorkStation, you can use the Properties command to check and override the print option settings (properties) of all jobs.

You can use this command for several purposes:

- To check a user's job settings, especially notes and instructions
- To override a setting based on printed output or other print device conditions
- To change settings for a duplicate of the original job

• To print a single copy of a job before printing the number of copies required by the user

Viewing and editing job properties

The Properties command lets you view and edit the print option settings of multiple jobs simultaneously. You can use this feature to compare the properties of several jobs and thereby group together jobs with similar settings, if it is beneficial for throughput or efficiency.

To view the properties of one or more jobs, select the job(s) and choose Properties from the Job menu or the right mouse menu.
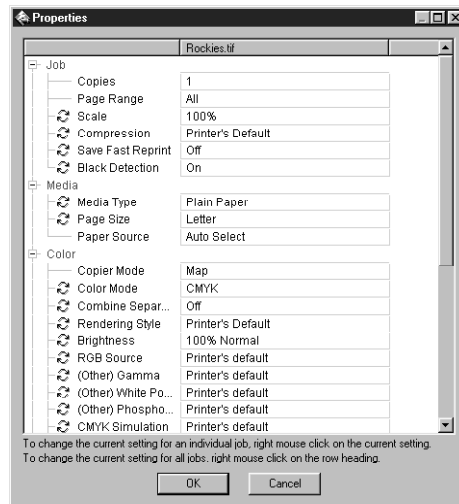
For information on using the Properties dialog box to change job settings, see "Viewing and overriding print settings" on page 3-15.

NOTE: Some print options that are available in the printer driver are not displayed in the Properties dialog box. For information on specific print options and settings, and where they can be set, see Appendix A of the *Printing Guide*.

2

Thumbnails and full-screen previews (DocBuilder)

The Command WorkStation includes a powerful DocBuilder tool that allows you to preview and edit raster data. (For information on how to identify a raster data job, see page 2-19.) DocBuilder consists of two thumbnail windows and several page-manipulation commands (listed in the Page menu).

The DocBuilder tool can be used in the following ways:

• In the Thumbnail A window, you can see thumbnails of the currently RIPping job, as it is processed, or of any raster data job (see "Previewing print jobs" on page 3-8).

• From the Thumbnail A window you can open a full-screen preview of a raster file (see "Full-screen previews" on page 2-34).

• Using the Thumbnail A and Thumbnail B windows together, you can merge raster data from more than one file, even if the files were printed from different applications on different computer platforms (see the next section and "Merging raster files with DocBuilder" on page 3-9).

DocBuilder's merge features eliminate the limitations of particular software applications. You can merge raster pages of documents of different types, even different computer operating systems. You can merge color pages from graphics programs with text pages from a word processor. An outline of DocBuilder's features follows; for more information and applications, see "Merging raster files with DocBuilder" on page 3-9.

Editing and merging files with DocBuilder

When you select a raster data job and choose the Thumbnail A or Thumbnail B command (from the Job menu or from the right mouse commands), the corresponding Thumbnail slider opens automatically, displaying thumbnails of the editable file. To close the Thumbnail slider, click anywhere in the tab along the right edge of the Thumbnail window. When the Thumbnail window is open, the arrows in the tab point to the right, indicating that clicking the tab retracts the slider.

With the Thumbnail A window you can see thumbnail views of any raster data job— that is, any file that is currently RIPping, or any file that has been RIPped and held to disk. You can also use the Thumbnail A window to edit a raster file—you can change

the sequence of pages, delete pages, duplicate pages, and copy pages from other raster files into the Thumbnail A window. You can save the edited raster file as a new printable document.

The Thumbnail B window can also display thumbnails of a raster job, and the document displayed in Thumbnail B can be used as a source for editing the document shown in Thumbnail A.

NOTE: Be careful not to delete all pages of a job in Thumbnail A without first saving a copy of the job.

Click to expand or retract the Thumbnail B window

Click here to close the Thumbnail B window

Thumbnail B (source)

Click to expand or retract the Thumbnail A window

Click here to close the Thumbnail A window
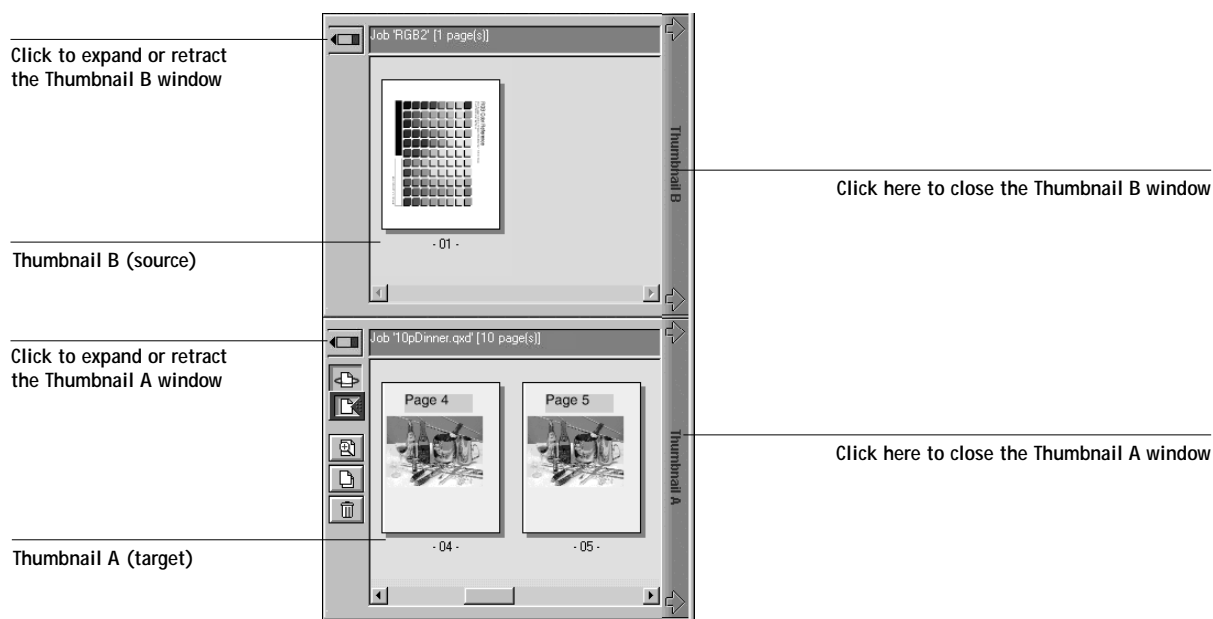
Thumbnail A (target)

You can merge documents by dragging (copying) one or more entire pages from Thumbnail B to Thumbnail A. This creates a new document in the Thumbnail A window. If you select one or more pages in the Thumbnail A window, the commands in the Page menu give you additional editing possibilities. (Most of the Page menu commands are also made available by right-clicking pages in Thumbnail A.) Multiple undos of Page menu commands are possible.

2

You can merge pages from multiple documents into the Thumbnail A document by opening documents one after another in the Thumbnail B window. Documents in the Thumbnail B window are view-only, and while you can copy pages from Thumbnail B to Thumbnail A, you cannot edit the Thumbnail B document. A merged document that you create in Thumbnail A can be saved (with a different name) as a new raster data file.

For more information, see "Merging raster files with DocBuilder" on page 3-9.

Full-screen previews

Double-clicking any page in the Thumbnail A or Thumbnail B window opens a full-screen preview of the page. The full-screen preview is a view-only display, and it takes time to retrieve the data. Once begun, the process cannot be canceled.

NOTE: If you have edited a raster job with DocBuilder, you must save the edited file before you can view full-screen previews of all its pages.

Using the icons in the full-screen preview, you can display adjacent pages, rotate the page, or close the preview.

Click to view adjacent pages

Click to rotate 90 degrees clockwise

Click to close the full-screen preview

Click arrows or in empty spaces, or move bar to scroll up or down

Click arrows or in empty spaces, or move bar to scroll left or right
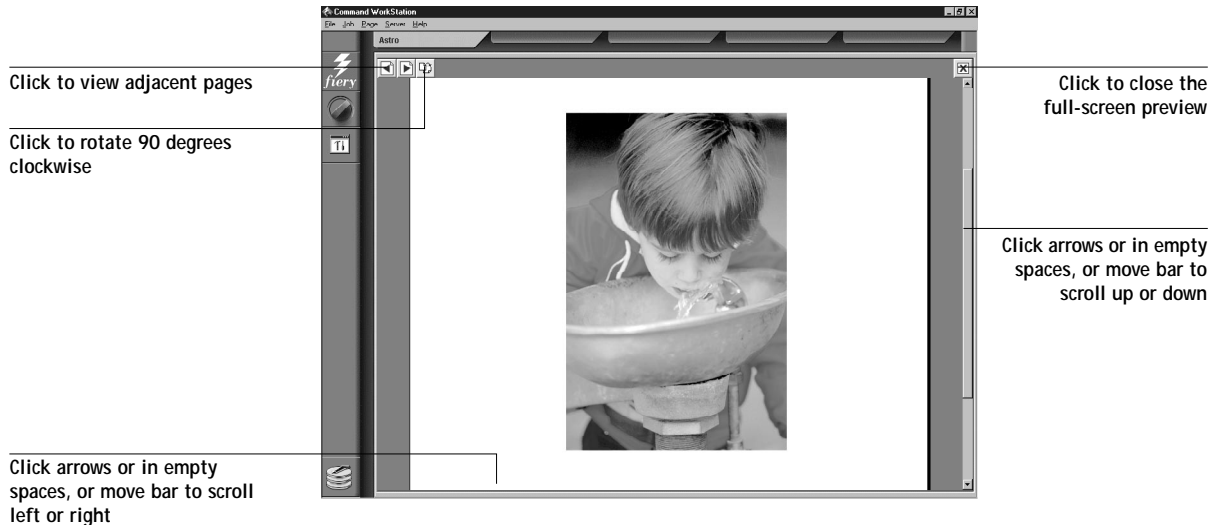
Chapter 3: Managing Print Jobs

This chapter provides some general information about managing printing with the Fiery XJ Color Server and the DocuColor 40, and gives you some hints on using the Command WorkStation windows to monitor and manage print jobs. It suggests ways to guide users so that their jobs are more likely to print correctly the first time. The chapter also follows the course of a print job and shows possible ways to expedite jobs and take advantage of the special capabilities provided by the Command WorkStation.

Communicating with users

The Command WorkStation interface facilitates communication between users and operators. All the same, users who originate print jobs may need to become better informed about the Fiery XJ and the DocuColor 40 so they can choose the appropriate options for their jobs.

What the user needs to know

You or the network administrator should consider supplying some of the following information to your users:

- The name of the printer on the network and the names of servers sharing the printer

- User's access status

  Do all jobs require operator intervention because they go to the Hold queue? If not, which connections are published—Direct connection and/or Print queue?

- How long you will hold jobs on the server before you delete them

- List of default printer settings and other settings (from the Configuration page)

- List of installed fonts

  Do the users' applications download fonts automatically? If not, can users download fonts, should they embed them in documents, or should they supply them to you so you can download them?

- Requirements for Notes fields (information which appears in the Job Log)

  For example, department name, account code, phone number or extension. Is some information mandatory at your site?

- Resident calibration target and date of current measurements

- Custom simulations

  Are they available? What type of targets do they represent? Users see these print options (CMYK Simulation) and should not select them if there are no custom targets on the server.

- IP address or DNS name of printer so users can access Fiery WebTools, at least to see if their jobs have printed

- Available media, alternative choices, standard tray/media configurations

- Suggestions for the Instructions field

- Information users might find in the WebLink web site

- Instructions for setting up the printer on client computers

- Sources of PostScript printer drivers, PPDs, color reference files, and additional information

- Recommended PPD settings

- Conflicting settings and common PostScript errors

How users communicate print requirements

Explain to remote users the information *you* check and what you need to know in order to print the jobs they send. The Instructions field is suited for communication about the job requirements. Notes fields appear in the Job Log so they are more suited for accounting, billing, and job cost information.

Users can provide you information with the print job, for example:

- Information entered in the Instructions field or the Notes fields—special requirements at your site (see below)

- Job ticket information provided by PPD option settings (job properties)

Instructions and Notes fields

- User name and phone number

- Priority, due date, request for notification

- Number of copies needed

- Request that operator do color check

- Hold job for future printing or future reprinting

- Merge with another job, and merging instructions

- Quantity of paper required

- Future requirements for the job

Customizing the Command WorkStation window

You can customize the display of job ticket information in the Queues window by rearranging the headings. The Job Title and User name are always at the left, but you can tighten the columns so you see what you need, and move and add other column headings so the most important information is visible without scrolling. The following procedure is also described on page 2-13.

TO CUSTOMIZE THE QUEUES WINDOW DISPLAY:

1. **Right-click in the column heading.**

    A menu appears. The Add submenu lists the headings that are not already displayed.

2. **Choose the options you want to display, and the sequence in which you prefer to view them.**

    Add, delete, or move a column by holding down the right mouse button on the name of the appropriate column heading; release the button after choosing one of the menu options:

    Add one of the listed columns to the display at your mouse position.

    Move Left, Move Right—move the selected column left or right.

    Delete the selected column.

    The Job Title and User columns are required—all others are optional.

3. **Adjust the column widths.**

    Adjust the width of a column by clicking the column border in the heading and dragging to the left or right. You can change the column widths at any time.

If you display the Instructions column, which shows information typed into the Instructions field by the user, you can reduce the width of the column so you can just see whether or not there are instructions in it.

4. **With a narrow Instructions column, if you want to read detailed instructions, double-click the job and choose Notes from the Job Properties window.**

This also allows you to read the notes. You can edit or annotate the information in the Instructions field if you wish. It remains with the job as long as the job is on the server. The operator cannot edit the Notes fields.

Printing server information pages

Using the Print Pages command from the File menu you can print multiple copies of various special pages of information stored on the Fiery XJ. These include:

- **Configuration**—Prints the Configuration page, which gives the current server and device configuration. This page lists general information about the hardware and software configuration of the Fiery XJ, the current settings for all Setup options, information about the current calibration, and the Ethernet and Token Ring addresses of the Fiery XJ.

- **Test Page**—A Test Page enables you to confirm that the Fiery XJ is properly connected to the copier, and provides color and grayscale samples to troubleshoot problems with the copier or the Fiery XJ. The following settings are among those listed on the Test Page: Server Name, Printer Model, color settings, calibration information, date and time the Test Page was printed.

- **Control Panel Map**—Prints the Control Panel Map, which is an overview of the screens you can access from the Control Panel. For information about using these screens to set up the Fiery XJ, see the *Configuration Guide.*

- **Font List**—Prints a list of all fonts currently resident on the Fiery XJ hard disk.

- **Color Chart**—Prints samples of the RGB, CMY, and PANTONE colors available from the Fiery XJ.

- **Job Log**—Prints a log of the last 55 jobs processed or printed. For information on the fields in the Job Log and on printing it in other forms, see "Using the Job Log" on page 3-23.

Server information pages printed with the Print Pages command appear in the Fiery XJ Job Log with a User Name of "Operator" even if you logged in as Administrator.

Workflow scenarios

The workflow at your site will depend on the number and complexity of jobs and the amount of responsibility given to the operator. This section suggests some ways you might interact with a job.

Scenario 1 At this site, the Print queue is enabled, and anyone at the Command WorkStation can view the progress of jobs. A small job is sent to a server and copier that are not busy. You watch the job progress from the top to the bottom of the Queues window.

The green light on the Fiery XJ flashes, the network icon blinks; on the Command WorkStation the Spool status bar is animated and the job title appears. As soon as spooling has finished, the Spool status bar is cleared and the RIP status bar animates. Almost immediately thereafter, the RIP status bar is cleared and the Print status bar animates. The printed job is listed below the Print status bar and the job pages emerge from the DocuColor 40. You move it to the mailbox of the person who sent the job.

Scenario 2 At this site, all jobs come to the Hold queue and therefore require operator intervention to proceed.

Again, the green light on the Fiery XJ flashes, the network icon blinks, the Spool status bar is animated, and now in the Spool area (below the status bar) the job title comes into view. In a few moments the job is on the list, and you have time to scan the headings for the job ticket information—media type, special instructions, copies, and pages.

Are you ready for this job to print? Do other jobs have priority? What is the job for— is it final output or a test print? The first choice is whether to put the job in the print queue or hold it before processing it further. If you do nothing, the job remains in the Spool area, and the file remains on the server disk.

Perhaps this is a routine job and does not call for special handling. You right-click the job and choose Print. You notice the RIP status bar animate, and almost immediately, the Print status bar animates. The printed job is listed below the Print status bar and the job pages emerge from the DocuColor 40.

The next job is a large job that you have not seen before. The Instructions field indicates that the originator of the job wants to check one printout of the job before you print another 50 copies. You make sure the Copies field is set to 1, right-click the job, and choose Print and Hold.

The RIP status bar animates and displays the job title, and then the Print status bar and copy 1 of the job emerges from the DocuColor 40. You call the sender of the job for approval. When the job is approved, you set the number of copies to 50, right-click the job now being held in the RIP area and choose Print.

Scenario 3 Everyone has discovered the DocuColor 40 on the network and jobs are coming in rapidly. You right-click several routine jobs in the Spool area and choose Print to let the server print them one after the other. You choose Print and Hold if you know you will be reprinting the job soon. You move jobs that have more detailed instructions (or need to be printed with similar jobs) to the Archive window (right-click Archive). You remove printed jobs from the output trays and replenish media.

While some jobs are flowing through the queues and printing, you are preparing for jobs that require more attention, such as obtaining special paper, using DocBuilder to merge two documents, or notifying the originator of a job that a PostScript error occurred.

Before you load special paper, you make sure all pending jobs are in holding areas. When an especially important job is spooled for RIPping, you right-click Process Next.

You flip back and forth between the Archive and Queues window. You use the Archive window to sort jobs into groups with similar requirements, such as media type, user name, or another setting, and print all the jobs of the same type in sequence.

Using the copier

If you have a copier job that has priority over the spooled incoming print jobs you can temporarily close the Fiery XJ connection to the DocuColor 40 and then reopen it when you have finished copying.

When there are no active printing jobs competing for the DocuColor 40 engine (no white job lines in the Spool or RIP area), you do not need to suspend printing to make copies.

1. **From the Server menu, choose Suspend Printing.**

   This suspends printing temporarily. Jobs continue to spool and RIP on the server as long as disk space and RAM are available.

2. **When you have finished with the copier job, choose Resume Printing from the Server menu.**

   The printing connection between the Fiery XJ and the copier is reopened and printing resumes.

Canceling jobs

You may need to cancel a job after it has been routed for processing or printing. You can cancel a job only while it is being RIPped or while it is being printed. You cannot cancel a waiting job (white job row) that is routed for RIPping or printing.

• Canceling jobs during processing—While a job is being RIPped, and its name appears in the RIP status bar, choose the Cancel RIPping command from the Server menu or right-click on the RIP status bar and choose Cancel RIPping.

   When the RIP job is canceled, the Canceling message appears on the Fiery XJ Control Panel. The name of the canceled job appears in the Job Log.

• Canceling jobs during printing—While a job is printing, and its name appears in the Print status bar, choose the Cancel Printing command from the Server menu or right-click on the Print status bar and choose Cancel Printing.

   When the print job is canceled, Canceling appears on the Fiery XJ Control Panel.The name of the canceled job appears in the Job Log.

NOTE: Canceled jobs may be partially printed, and may include pages with one or more missing color planes, or pages that are completely blank.

• Canceling at the Control Panel—If you are at the Fiery XJ, the most direct way to cancel a job is to press the top button on the server Control Panel while you can read the name of the job that is processing or printing. For more information on the Control Panel, see Chapter 1.

Previewing print jobs

You can use the Thumbnail A window to preview pages of the currently RIPping job. You can also use Thumbnail A, as well as Thumbnail B, to preview any raster data job in the RIP or Print areas.

The thumbnail windows also allow you to open an editable thumbnail view of a held raster job in the RIP area and perform electronic collation or document merging. This feature, called DocBuilder, is described on page 3-9.

Previewing the currently rasterizing job

To see the progress of jobs as they are RIPped, you can leave the Thumbnail A window open in RIP preview mode.

TO VIEW THUMBNAILS OF THE CURRENTLY **RIP**PING FILE:

1. **Click the Thumbnail A tab at the right of the Queues window to open the slider.**

2. **Click the RIP preview icon at the left side of the window.**

    In this mode, Thumbnail A displays each page of the currently processing job after it has been RIPped.

Click to display the currently rasterizing job

Click to close the thumbnail window
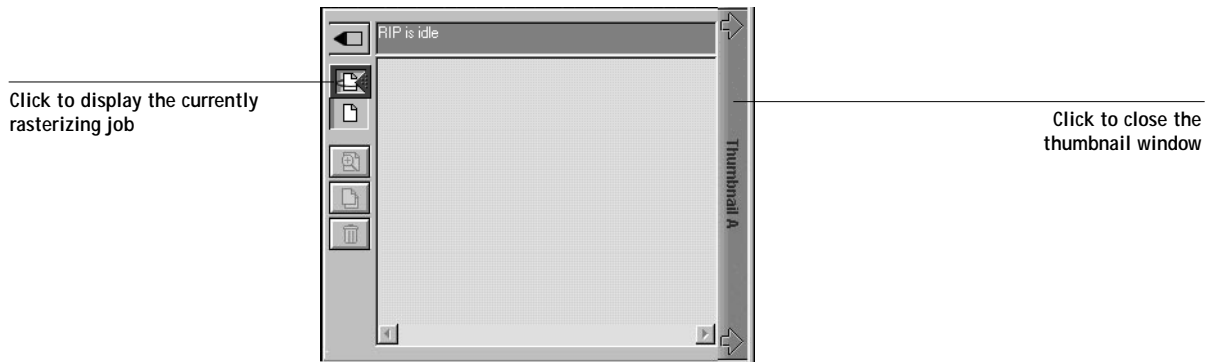
3. **Choose a PS file in the Spool or Print area and select RIP and Hold, Print, or Print and Hold.**

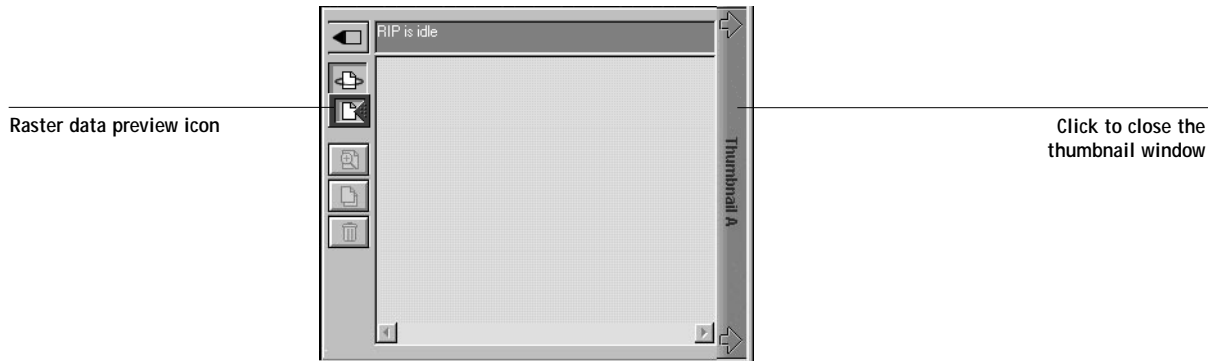   As pages are RIPped, they are displayed in the Thumbnail A window.

4. When you have finished viewing, click the **Thumbnail A** tab to close the **thumbnail window**.

---

1. Select any raster data job in the RIP or Print area.

2. Choose **Thumbnail A** or **Thumbnail B** from the **Job** menu.

   If you choose Thumbnail A, make sure the raster data preview icon (at the left side of the window) is selected.

   NOTE: Wait until all pages have been displayed before opening another raster file with Thumbnail A. If the job contains many pages, it may take some time for the entire job to be displayed.

Raster data preview icon

Click to close the thumbnail window

3. When you have finished viewing, click the **Thumbnail A** or **Thumbnail B** tab to close the **thumbnail window**.

Merging raster files with DocBuilder

The ability to work with raster files gives you new opportunities to combine documents from different sources into a single raster file. For example, you can combine full color covers and chapter head pages created in a page layout application with two-color text pages created in a document processing application. Or, you can customize a slide presentation by inserting slides from a different presentation.

You can display two raster files at once: a source file and a target file. The target file is displayed in the Thumbnail A window, the source in Thumbnail B. Both files must be held raster jobs in the RIP area.

NOTE: You cannot create a new PostScript file in this process; you must print the merged raster file, which has references to the original PostScript files. Before editing or merging files with DocBuilder, make sure the source files were RIPped using the print option settings and the resident calibration you want for the final output. Raster files edited with DocBuilder cannot be reRIPped.
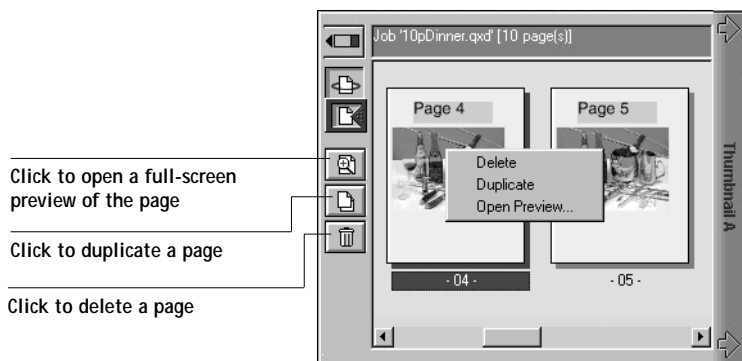
TO VIEW AND EDIT RASTER DATA JOBS:

1. Select a raster data job and choose Thumbnail A from the Job menu.

   The file must be a held raster job in the RIP area.

2. In the Thumbnail A window, right-click a thumbnail image to see the commands available for pages in Thumbnail A.

   These commands can also be accessed from the Page menu (see page 2-9) as well as from buttons along the left side of the Thumbnail A window (see illustration below).

   To scroll through the pages in Thumbnail A, you can drag the slider bar at the bottom of the screen, click in the empty area to the left or right of the slider bar, or click on the arrows.

Click to open a full-screen preview of the page

Click to duplicate a page

Click to delete a page

Delete deletes the currently selected page.

Duplicate duplicates the currently selected page.

Open Preview opens a full-screen preview of the currently selected page (see "Full-screen previews" on page 2-34).
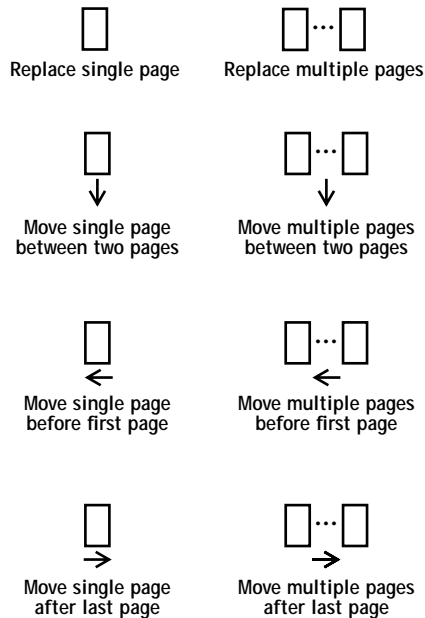
Undo undoes the previous DocBuilder command—this command is available *only from the Page menu.*

3. **To move pages within Thumbnail A, left-click to select the page(s) and hold down the mouse button as you drag the selected page(s) to the new location.**

Shift-click to select multiple, sequential pages; Ctrl-click to select multiple, non-sequential pages. Make sure to release the Shift or Ctrl key before moving the pages.

If you move the page(s) on top of existing page(s), the page(s) will be overwritten.

If the icon does not have an arrow, the page(s) will be replaced; if the icon has an arrow, the page(s) will be inserted.

Replace single page   Replace multiple pages

Move single page   Move multiple pages
between two pages   between two pages

Move single page   Move multiple pages
before first page   before first page

Move single page   Move multiple pages
after last page   after last page

4. **When you are finished editing, click the Thumbnail A tab.**

If you have edited the job, you are prompted to save the job (click Yes) and enter a new name.

5. **Enter a new name and click OK.**

   The new raster file is now in the RIP area, ready to print. If you saved the edited file with a new name, the original source file remains held in the RIP area.

TO MERGE TWO RASTER DATA JOBS:

1. **In the Thumbnail A window, display the document you wish to edit.**

   The file must be a held raster job in the RIP area.

2. **Right-click another source document file (a held job with a raster icon) and select Thumbnail B.**

   The Thumbnail B tab opens a second thumbnail view which cannot be edited but can be a source for pages added to the document in Thumbnail A.

   NOTE: To merge documents, *the page sizes of the source document and the target document must be the same.*

3. **In the Thumbnail B window, left-click to select the page(s) and hold down the mouse button as you drag the selected page(s) to the new location in Thumbnail A.**

   Shift-click to select multiple, sequential pages; Ctrl-click to select multiple, non-sequential pages. Make sure to release the Shift or Ctrl key before moving the pages.

   To scroll through the pages in Thumbnail A and Thumbnail B, you can drag the slider bar at the bottom of the screen, click in the empty area to the left or right of the slider bar, or click on the arrows.

To replace page(s), drag Thumbnail B page(s) on top of page(s) in Thumbnail A; to add page(s), drag the page(s) to a new position between pages, before the first page, or after the last page in Thumbnail A.

Replace single page

Replace multiple pages

Move single page
between two pages

Move multiple pages
between two pages

Move single page
before first page

Move multiple pages
before first page

Move single page
after last page

Move multiple pages
after last page

NOTE: To insert a Thumbnail B page directly after the last Thumbnail A page, drag the Thumbnail B page so that it is just to the right of the last Thumbnail A page and shows an arrow pointing to the right. If the Thumbnail B page is placed too far to the right of the last Thumbnail A page, the Thumbnail B page will replace the last Thumbnail A page.

Thumbnail B

Page 4 copied from the
document in Thumbnail B
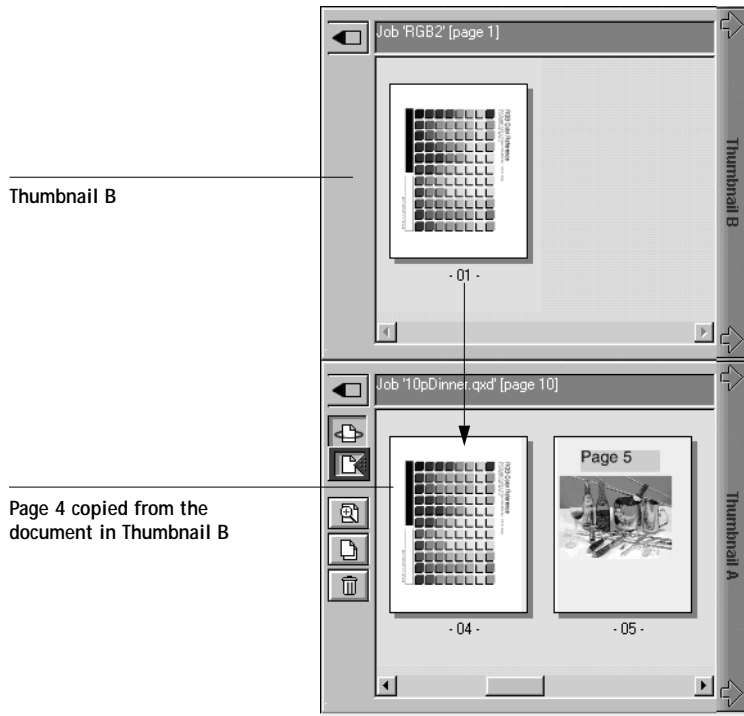
Multiple undos are available; use Ctrl-Z or the Undo command (from the Page menu)
to undo all the way back to your first edit. There is no Redo function.

NOTE: Make sure to save the merged job before deleting any of the jobs you used to
create the merged job.

Thumbnail B pages moved into Thumbnail A adopt some specific attributes of the
Thumbnail A job, such as the document and user name. However, many color-related
print options that are set in the Thumbnail B page, such as CMYK Simulation and
Rendering Style, remain with the specific page. This could result in a merged job being
made up of pages with different attributes.

Generally, the print option settings specified for the Thumbnail A job that are adopted
by the pages copied from Thumbnail B *do not* require reRIPping to take effect. The
one exception is the setting specified for the Save Fast Reprint option, which requires
reRIPping if you want to change it.

3

The print option settings that remain with the pages copied from Thumbnail B into Thumbnail A are generally those that *do* require reRIPing to take effect.

Attributes that do not require reRIPping can be changed for the newly merged job without having to reRIP any original PostScript files. Attributes that require reRIPping result in reRIPping of the original PostScript file(s) associated with Thumbnail A.

4. To close the Thumbnail view, click once on the same tab you used to open it (Thumbnail A or Thumbnail B tab).

5. If you have edited Thumbnail A, you are prompted to save the job (click Yes) and enter a new name. Enter a new name and click OK.

The new raster file is now in the RIP area, ready to print, together with the original source and target files.

NOTE: If you print the edited raster file, it appears in the Job Log with the name of the original job, *not* the new name you specified for the edited job.

Since you cannot create a new PostScript file by merging two raster data jobs, you must print the merged raster file, which has references to the original PostScript files. If a merged job is reRIPped and printed, then only the pages of the original PostScript job in Thumbnail A will be processed and printed.

NOTE: In cases where multiple users are connected to the Fiery XJ via the Command WorkStation, Fiery WebSpooler, and/or Fiery Spooler, and one user makes changes to a Thumbnail A job, not all users may see the results of those changes. If you are unable to view changes in a job, or if selecting a Thumbnail window results in a message indicating zero pages, then close and relaunch the Command WorkStation, Fiery WebSpooler, or Fiery Spooler.

Viewing and overriding print settings

When logged in as Operator or Administrator at the Command WorkStation, you can view and override user job settings for any job in the Queues window and view job settings for jobs in the Archive window. Using the Properties dialog box, you can view and override job settings for a single job or for multiple jobs at once. When viewing multiple jobs, you can override settings for each job independently or override a setting for all the jobs at once.

NOTE: For PDF files, you are only able to override number of copies and page range from the Properties dialog box.

3

• To view the properties for a single job, double-click the job line or select the job and choose Properties from the Job menu or right mouse menu.

• To view the properties for multiple jobs at once, shift-click to select contiguous jobs, or Ctrl-click to select non-contiguous jobs, and choose Properties from the Job menu or right mouse menu.

NOTE: If you want to retain a copy of the job with its original settings, duplicate the job and rename the duplicate before you change any settings (see "Job commands" on page 2-22).

To override a setting for a single job, right click on the current setting and choose the override setting from the pop-up list.

NOTE: For some options, changing the setting requires that the job be reRIPped; these options show an icon to the left of the option name.

Indicates reRIPping is required
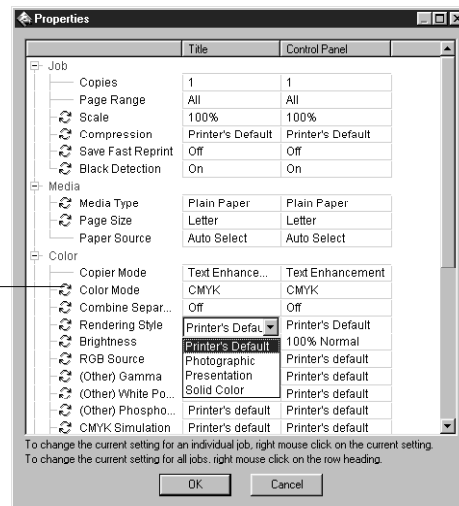
To override settings for all jobs listed in the Properties dialog box, right click on the name of the print option (the row header) at the left of the dialog box and choose the override setting from the pop-up list.
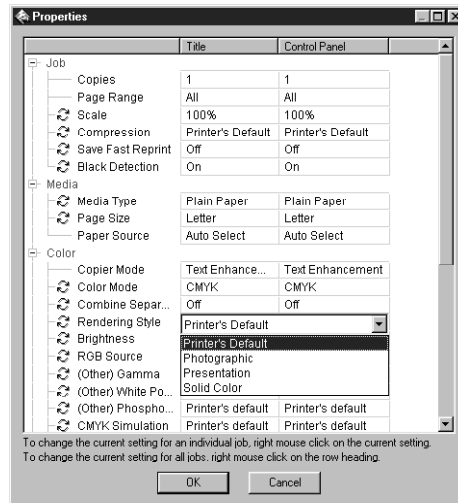
The Properties dialog box displays all the job settings encoded by the PostScript printer driver that can be decoded by the Fiery XJ. If you (as operator) have not changed anything, these are the settings a user entered before sending the job. There are two exceptions to this: Page Range and Scale.

NOTE: Some print options that are available in the printer driver are not displayed in the Properties dialog box. For information on specific print options and settings, and where they can be set, see Appendix A of the *Printing Guide*.

When the Properties dialog box opens, the page range is always shown as All pages and the scale is always shown as 100%. All pages denotes all the pages specified by the user in printing the job; it may not include all the pages in the original document on the user's disk. Similarly, 100% scale indicates 100% of the magnification specified by the user.

The Properties dialog box does display all the remaining user settings, including user Instructions and Notes fields.

- Instructions fields are intended to be viewed and annotated by the operator, but their contents are associated with the job and are deleted when the job is deleted after printing.

- Notes fields can be viewed but cannot be changed by the operator; their contents are transcribed to the Job Log just as the user sent them.

Downloading files and fonts

From the Command WorkStation you can download a variety of file types, as well as fonts, to the Fiery XJ. These files and fonts can be located anywhere on the network or on an external device connected to the Command WorkStation computer. You browse to locate the files and fonts, select them, and add them to a list of items to be downloaded. You can specify a limited number of print option settings for files that you download (see page 3-20).

To download fonts, the Direct connection must be used. If the Direct connection is not currently published in Setup, see the *Configuration Guide* for instructions on how to publish it.

NOTE: You cannot download TrueType fonts. If you use TrueType fonts in Windows, you can print them by converting them to Adobe Type 1 fonts. To do this with the Adobe PS printer driver, click the Fonts tab and set up the Font Substitution Table as necessary.

The Manage Fonts command provides another way to download fonts to the Fiery XJ (see page 3-21).

<small>TO DOWNLOAD FILES OR FONTS:</small>

1. **Choose Download from the Job menu, or right click on the Spool status bar and select Download.**

   The main Fiery Downloader window appears.

   For fonts, choose Direct connection
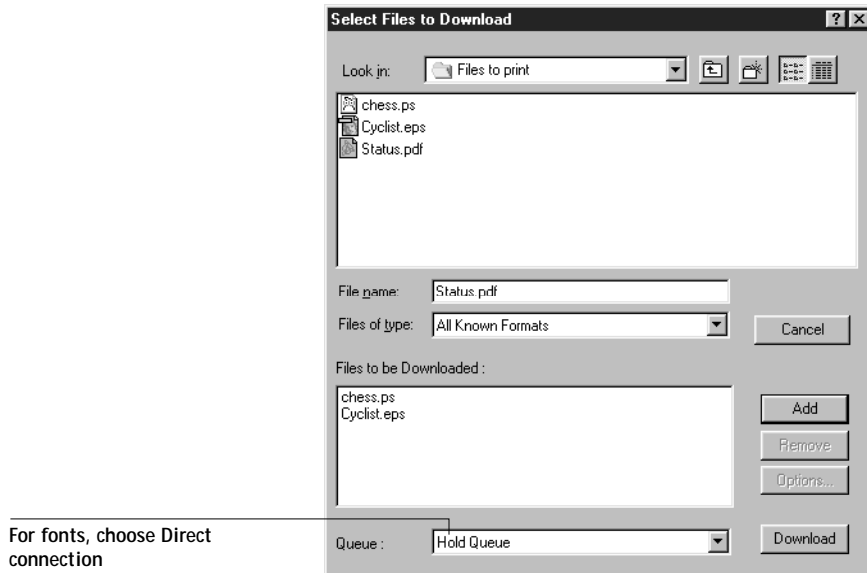
2. **In the Files of type pop-up menu, choose the file types to display.**

   You can leave this at the default **All Known Formats** or choose **All Files**. **All Known Formats** lists all files in supported formats; **All Files** lists all files.

3. **In the Queue pop-up menu, choose the queue to which you will download the files.**

   The options available in this menu depend on the print connections currently enabled in Setup. The potential choices are **Print Queue**, **Hold Queue**, or **Direct Connection**. If your administrator has not enabled one or more of these connections, you cannot choose it.

   To download fonts, you must choose **Direct Connection**.

   PDF files are always spooled to the Fiery XJ hard disk before being printed. PDF files can be downloaded to the **Direct Connection** or to the Print queue (or to the Hold queue if the Print queue is not enabled).

4. **In the Look in pop-up menu, browse to the file(s) you want to download.**

5. **Select the filename and click Add.**

    The File name field displays the name of the selected file before you click Add.

    You can navigate to different drives and directories to select files and fonts to download.

    To select multiple sequential files, select the first file and then Shift-click the last file. Ctrl-click to select multiple non-sequential files.

    If you change your mind about a file, select the filename in the **Files to be Downloaded** list and click **Remove**.

6. **To change the attributes of a file to be downloaded, select it and click Options.**

    The Options dialog box for PostScript and EPS files is different from that for PDF files, as explained below.
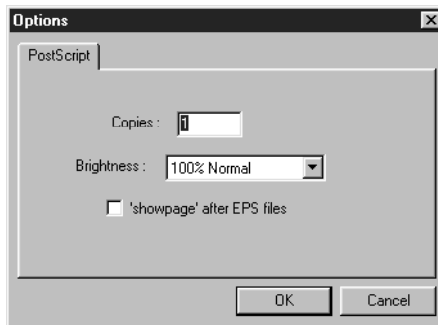
PostScript options
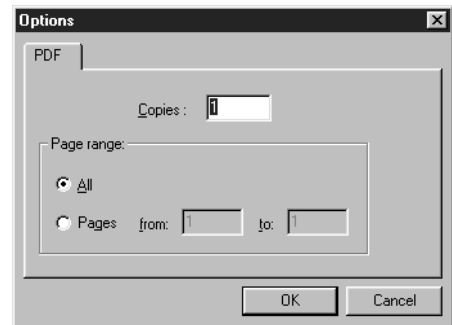
PDF options

7. **Specify the following information in the dialog box and click OK.**

    The options you set apply only to the selected file. You can set different options, or leave the default settings, for each file.

    Copies—Specify the number of copies.

    Brightness (PostScript and EPS files only)—Change the **Brightness** setting if a file appears to be too dark or too light. Choose **85%** for a substantially lighter image, **115%** for a substantially darker image, or one of the options in between.

NOTE: Some applications, including Adobe Photoshop, provide transfer functions that let you specify density settings for an image. If the file you are printing includes transfer functions, the Brightness option has no effect. For more information on using transfer functions, see the documentation for your application.

'showpage' (after EPS files)—In most cases, you do not need to use this option. Select the 'showpage' (after EPS files) option only if an EPS file fails to print without it. This option adds a 'showpage' PostScript language command at the end of the print job. Some applications omit this necessary PostScript language command when they generate EPS files. Select this option when printing EPS files generated by these applications. If you select this option unnecessarily, extra blank pages may print.

If you experience problems downloading EPS files, you can print the file directly from the application in which you created it.

Page Range (PDF files only)—Specify the page range you want to print (1 to 999).

8. Click Download.

To cancel downloading, click Cancel.

Managing server fonts

The Fiery XJ includes a number of built-in printer fonts. You can download additional fonts to the Fiery XJ using the Manage Fonts command (see below) or the Download command (see page 3-18). Users on the network can also download fonts to the server using Fiery Downloader (see the *Printing Guide*). Downloading fonts, either from the Command WorkStation or with Fiery Downloader, requires that the Direct connection is published in Setup (see the *Configuration Guide*).

NOTE: The Manage Fonts command is available only if you logged in as Administrator.

Although no special privileges are necessary to download fonts, Administrator privileges are required to remove fonts from the server. The built-in printer fonts are locked and cannot be removed by anyone.

To print a list of fonts currently resident on the Fiery XJ, use the Print Pages command (see page 3-4).

TO ADD OR DELETE FONTS:

1. **Choose Manage Fonts from the Server menu.**

Locked fonts

Downloaded fonts

Click to download additional fonts

Click to delete font(s)

Click to update the font list display
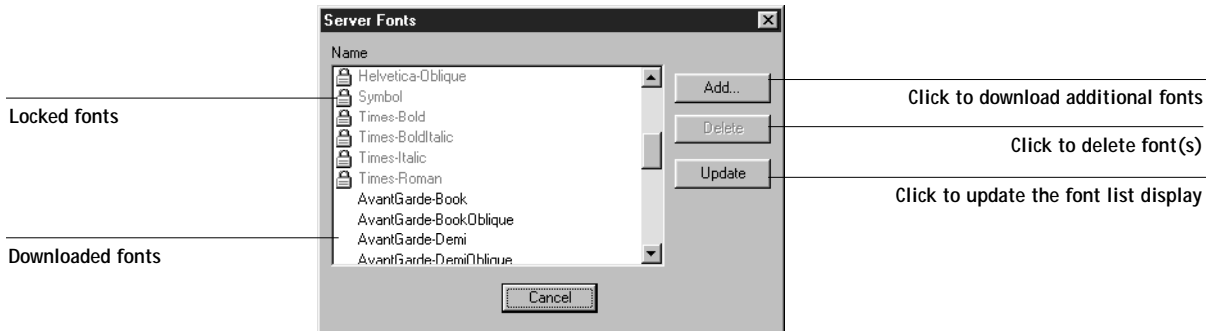
2. **The Server Fonts window displays Add, Delete, and Update buttons.**

   To download additional fonts to the Fiery XJ, click Add and refer to the instructions on page 3-18.

   To delete a font, select it in the font list and click Delete. Shift-click or Ctrl-click to select multiple fonts.

   NOTE: The printer fonts included with the Fiery XJ (built-in fonts) are locked. These fonts appear with a lock icon next to the name and cannot be deleted.

   To refresh the font list display, click Update.

Archiving jobs

PostScript and raster data jobs can be archived internally to the Fiery XJ hard disk.

TO ARCHIVE A POSTSCRIPT OR RASTER JOB:

1. **In the Queues window, select any held job in the Spool or RIP areas.**

2. **Choose Archive from the Job menu.**

   The job is moved to the Archive window.

Using the Job Log

Chapter 2 introduced the Job Log, which is the list of all processed and printed jobs, including the date and time they were printed, and all the characteristics of the job. It explained that the Administrator can set Job Log preferences for clearing and printing the Job Log automatically, and for Job Log page size (page 2-28).

After displaying the Job Log you can print it (using either the Print icon or the Print Pages command), or export it to a tab-delimited file. The exported Job Log file can be imported into a spreadsheet, database, or word processing application for job accounting purposes. If only a portion of the Job Log is displayed (such as jobs for the current day), only that portion of the Job Log is printed or exported.

NOTE: When you print the Job Log, the print job is sent to the Hold queue and appears in the Spool area of the Queues window with the job title "Job Log" and the user name "Operator" (even if you logged in as Administrator). You can then use Job menu commands to manipulate the Job Log print job as you would any other job.

After printing or exporting the entire Job Log, you may want to clear it; you clear the Job Log by clicking the Delete (trash can) icon.

Icons appear above the Job Log. The icons are:

	Update	Click to update the information in the Job Log window.
	Print	Click to print the currently displayed portion of the Job Log to the Print queue. You can use Job menu commands to manipulate the Job Log print job as you would any other job.
	Export	Click to export the currently displayed portion of the Job Log to a tab-delimited file.
	Delete	Click to delete the Job Log (you will be asked for confirmation).
	Calendar	Click to display a calendar and specify a date range.

Job Log		All	From: 3/1/98						
		Range	To: 3/1/98						
Status	Document	User	Date	Start Time	End Time	Process Time	Size	Device
OK	cmykramp.ps	lwang	02/26/80	15:44:15	15:44:19	00:00:02	652.87 KB	Unknown
OK	KingTut.ps	lwang	02/26/80	16:17:13	16:17:20	00:00:05	404.68 KB	Unknown
OK	KingTut.ps	lwang	02/26/80	16:59:48	16:59:55	00:00:05	404.68 KB	Unknown
OK	cmykramp.ps	lwang	02/27/98	10:19:34	10:19:38	00:00:02	652.87 KB	Unknown
Error	chess.ps	Barbara	02/27/98	17:10:30	17:10:31	00:00:01	3.14 KB	Unknown
OK	chess.ps	Barbara	02/27/98	17:11:06	17:11:07	00:00:01	3.14 KB	Unknown
OK	chess.ps	Barbara	02/27/98	17:11:27	17:11:28	00:00:01	3.14 KB	Unknown
OK	Cyclist.eps	Barbara	02/27/98	17:12:06	17:12:07	00:00:01	24.08 KB	Unknown
OK	chess.ps	Barbara	02/27/98	17:16:01	17:16:02	00:00:01	3.14 KB	Unknown
OK	checkers.ps	Barbara	03/01/98	13:37:03	13:37:06	00:00:03	3.46 KB	Unknown

The Job Log window displays a list of all the jobs and the following information about them: status, document name, user, date, start time, end time, process time, size, device, page size, media, number of originals, number of color pages, number of black and white pages, and total number of pages.

NOTE: If a raster job was saved in DocBuilder with a new name and then printed, it appears in the Job Log with the name of the original job, *not* the new name you specified for the edited job.

The text in the Status column provides information about the job:

OK   The job was printed normally.

Cancel   The job was canceled before printing was completed.

Error   An error occurred during processing or printing.

The information in the Notes 1 and Notes 2 fields is displayed if users entered this information when they printed.

NOTE: The Notes fields are supported only for jobs printed with the Adobe PostScript printer drivers provided on the User Software CD. They are not supported for jobs printed from Windows NT 4.0.

Use the scroll bar at the bottom of the window to view all the fields in the Job Log window.

Server management commands

The following Server menu commands are used to manage server performance, configuration, and status. Some of these commands are available only when logged in as Administrator.

- **Calibrate**—Opens Fiery Print Calibrator (see Chapter 6 and Chapter 7)

- **Reboot**—Causes the Fiery XJ to be rebooted, just as if you had selected Reboot Server from the Control Panel (see page 1-4)

- **Clear**—Clears all jobs in all server queues as well as all jobs archived on the Fiery XJ hard disk, the index of archived jobs (in the Archive window), and the Job Log.

- **Setup**—Invokes Fiery Setup (see the *Configuration Guide*)

- **Manage Fonts**—Allows you to delete fonts from, as well as add fonts to, the Fiery XJ (see page 3-21)

**Chapter 4:
Overview of
Fiery WebTools**

This chapter introduces Fiery WebTools and provides instructions on their usage. For more information on certain Fiery WebTools you are referred to other chapters in this book and to other manuals in the documentation set.

Fiery WebTools

Fiery WebTools reside on the Fiery XJ but can be accessed over the network from a variety of platforms. The Fiery XJ has a home page that lets remote users view server functions and manipulate jobs.

Fiery WebTools can be used on Windows 95, Windows NT 4.0, and Mac OS client computers with certain Internet browsers that support the Java language. For specific information on the browsers supported with Fiery WebTools, see *Getting Started*.

Access privileges

The Fiery XJ system allows the site administrator to choose and implement a level of access and control appropriate for your particular site. There is a spectrum of control which can be implemented; the levels of access allowed to remote users depend on whether the administrator has enabled use of Fiery WebTools, and whether or not a password is required to use the job management features of Fiery WebTools.

If you have been given the Operator password, you can manage job flow and override print settings of your jobs with Fiery WebSpooler. If not, you can still track the status of your jobs with the Status tool, and with Fiery WebSpooler as a Guest. Check with your site administrator for information on your Fiery WebTools access privileges.

Using Fiery WebTools

Fiery WebTools are accessed from the Fiery XJ home page.

WebTool:	Summary:	For more information:
Status	Shows you the jobs currently processing and printing.	See the *Printing Guide*
WebSpooler	Allows you to view, manipulate, reorder, reprint, and delete jobs currently spooling, processing, or printing on the Fiery XJ. It also allows you to view, print, and delete the Job Log.	See "Tracking and managing jobs with Fiery WebSpooler" on page 5-1
WebLink	Provides a link to another web page, provided you have a valid Internet connection. The WebLink destination is initially set to www.efi.com/weblink/xerox. From this page, you can link to either the Xerox home page or the Electronics for Imaging home page (www.efi.com). The WebLink destination can be changed; this function requires the Administrator password, if one has been set.	See the *Printing Guide* and the *Configuration Guide*
Installer	Allows you to download the Command WorkStation software installer and Fiery XJ printer file installers directly from the server.	See *Getting Started*
WebSetup	Allows you to modify the Fiery XJ configuration (Setup) remotely. This function requires the Administrator password, if one has been set.	See the *Configuration Guide*

4

TO ACCESS FIERY WEBTOOLS:

1.   **Start up your Internet browser application**.

2.   **Enter the IP address or the DNS name of the Fiery XJ.**

     Check with the operator or administrator for this information.

     The Fiery XJ home page appears.

3.   **Click one of the buttons at the left to select one of the Fiery WebTools.**

     Move the cursor over the buttons to display information about the selections.

Chapter 5: Fiery WebSpooler

Fiery WebSpooler duplicates many of the functions and features of the Command WorkStation. It provides additional flexibility by allowing job tracking and management from multiple platforms over the Internet or an intranet.

Tracking and managing jobs with Fiery WebSpooler

You can use Fiery WebSpooler to perform the following functions from your workstation:

- Override current job option settings

- Delete jobs and cancel processing

- Duplicate or rename jobs

- RIP a job and hold the raster data

- Hold jobs in the spooled area or the RIPped area

- Remove raster data from RIPped files

- Change the priority of jobs

- Edit and merge raster data jobs (DocBuilder)

- Display, print, or delete the Job Log

Most of these functions require the Administrator or Operator password. However, even without a password, you can log in to Fiery WebSpooler as Guest with view-only privileges.

NOTE: Most Fiery WebSpooler commands function identically to those of the Command WorkStation. For more information on specific commands, see Chapters 2 and 3.

TO ACCESS FIERY WEBSPOOLER WINDOW:

1. **From the Fiery XJ home page window, click WebSpooler.**

   For instructions on how to access the Fiery XJ home page window, see page 4-3.

2. **To log in as Administrator, enter the Administrator password and click OK.**
   To log in as Operator, enter the Operator password and click OK.
   To log in as Guest, click OK, without entering any password.

   The Fiery WebSpooler window appears in a new browser window.
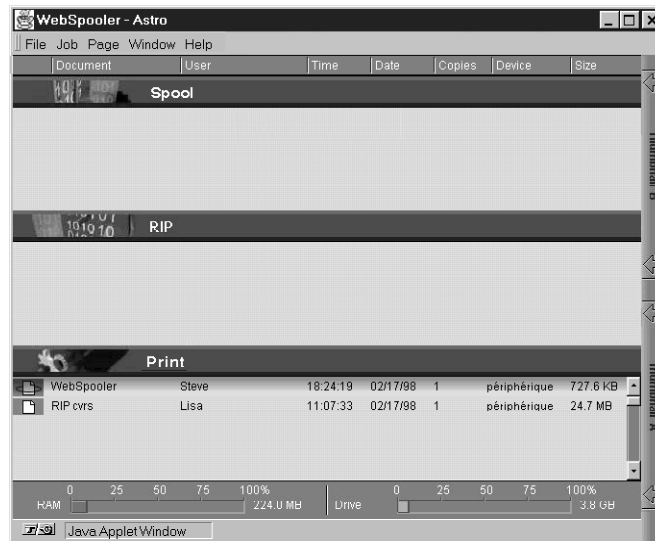
About the Fiery WebSpooler window

Like the Command WorkStation, Fiery WebSpooler is a window to view Fiery XJ and copier functions, and an interface from which you can control those functions.

The Fiery WebSpooler window is divided into three areas by Spool, RIP, and Print status bars. When the Fiery XJ receives print jobs, the Fiery WebSpooler window becomes a dynamic display, filled with the names of jobs and their characteristics.

The Spool, RIP, and Print areas of the Fiery WebSpooler window represent the stages of printing a job. Jobs come in at the top level (Spool) and drop down to the Print level, unless they are held along the way.

The job icons displayed in the Fiery WebSpooler window are explained in "Job icons" on page 2-19.

NOTE: In Fiery WebSpooler, the "PS" characters do not appear inside yellow PS icons (in the Spool area) and white PS icons (in the Print area).

Spooled jobs—Jobs listed in the area below the Spool status bar are PostScript files stored on the Fiery XJ disk. These jobs were sent to either the Print queue (white icons) or the Hold queue (yellow icons).

RIPped jobs—Jobs listed in the area below the RIP status bar are ready to print. They have already been rasterized (RIPped, or processed for printing) and are waiting, in order, for access to the printer. Rasterized jobs can also be held; held jobs are shown with a yellow icon.

Printed jobs—Jobs listed in the area below the Print status bar have already been printed. Printed jobs can be stored on the Fiery XJ disk. The number of jobs that can be stored (from 1 to 99) is defined in Setup.

If you are logged in as Administrator or Operator, you can interact with a job wherever it appears in the window by selecting it and choosing a command from the Job menu, or by double-clicking the job and setting override options. See "Manipulating job options and job flow" on page 5-4 for information.

Errors—Jobs with an error are shown in red. To display the error, double-click the job line.

NOTE: If your job does not appear anywhere in the Fiery WebSpooler window, it may have already been printed; if so, it will appear in the Job Log. To view the Job Log, choose Show Job Log from the Window menu. (For more information on the Job Log, see page 5-8.)

Manipulating job options and job flow

Using the commands in the Job menu, you can alter the destinations, priorities and other characteristics of jobs that appear in the Fiery WebSpooler window.

To understand the effect each of these commands has on a job, you need to understand the way the Fiery XJ handles PostScript and raster data, and how jobs are activated or held in the various stages of processing. See Chapter 2 for this background information before manipulating jobs with Fiery WebSpooler. Also, the commands in the Fiery WebSpooler Job menu have identical counterparts on the Command WorkStation. For background and information about these commands, see Chapters 2 and 3.

Choose this command from the Job menu:	To do this:	Raster data is:
Delete Job(s)	Delete the job(s) from the list	Deleted
Duplicate Job(s)	Duplicate one or more selected PostScript data jobs in the Spool or Print areas (creates a reference to the original job, with the same name)	n/a (The Duplicate command is not available for raster jobs)
Rename	Rename the job (PostScript file with or without raster)	Unaffected, but associated with the new name NOTE: If the renamed job is printed, the Job Log reflects the job's original name.

5

Choose this command from the Job menu:	To do this:	Raster data is:
Hold	Hold the job in the current place (except for a printed job, which is moved to the Spool or RIP area)	Held in RIP area indefinitely, if included with job
RIP and Hold	RIP the job and hold it in the RIP area	Held in RIP area indefinitely
Print	Print the job in its turn (RIP it first if it does not have raster data). Keep the printed job in the Print area until the job limit is reached	Temporarily held in RAM until memory is needed for another job
Print and Hold (like the PPD option Save Fast Reprint)	Print the job in its turn (RIP it first if it does not have raster data) After printing, hold the PostScript data and the raster in the RIP area	Held in the RIP area indefinitely (saved to disk)
Process Next	Give top priority to this job Print the job (or RIP and print) as soon as the processor and copier are free, before other waiting jobs	Held in RAM after printing (can be selected in the Print area while it remains there), or Held in RIP area (saved to disk) if destination was RIP and Hold
Remove Raster	Remove the raster from a job that has raster data; leave the PostScript job in place	Deleted
Override Print Settings	Change the print options for the job (see page 5-6)	Deleted and regenerated, if the newly selected options require reRIPping, or reprinted with the new settings, if none require reRIPping
Thumbnail A	Open the selected *held* raster data job in the Thumbnail A window where you can view a full-screen preview of the job, edit the job, or merge it with raster data from other jobs	Changed if job is edited, unaffected if job is only viewed
Thumbnail B	Open the selected raster data job (not necessarily a held job) in the Thumbnail B window for viewing or for merging into a job in the Thumbnail A window	Unchanged

Overriding job option settings

To change the job options of a job, double-click the job line or select the job and choose Override Print Settings from the Job menu. If necessary, scroll down to see all the various job options.

Indicates reRIPping is required
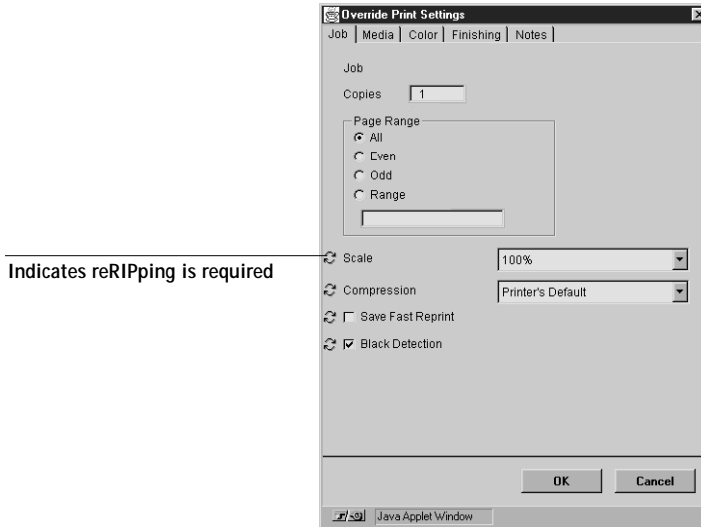
Override Print Settings dialog box for PostScript files
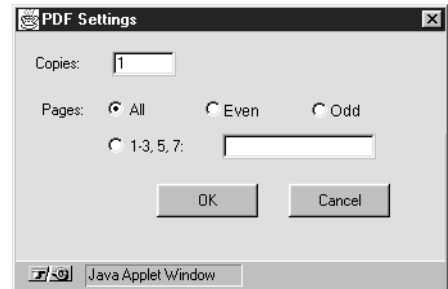
PDF Settings dialog box for PDF files

The options you set here are the same ones you set from the Print dialog box when you print from an application. For information about setting and overriding these print options, see the *Printing Guide*.

NOTE: For some options, changing the setting requires that the job be reRIPped; these options show an icon to the left of the option name.

Thumbnails and full-screen previews (DocBuilder)

Like the Command WorkStation, Fiery WebSpooler includes a powerful DocBuilder tool that allows you to preview and edit raster data. DocBuilder consists of two thumbnail windows and several page-manipulation commands (listed in the Page menu). The DocBuilder tool can be used in the following ways:

• In the Thumbnail A window, you can see thumbnails of the currently printing job, as it is processed, or of any raster data job.

- From the Thumbnail A window you can open a full-screen preview of a raster file.

- Using the Thumbnail A and Thumbnail B windows together, you can merge raster data from more than one file, even if the files were printed from different applications on different computer platforms.

DocBuilder's merge features eliminate the limitations of particular software applications. You can merge raster pages of documents of different types, and even different computer operating systems. You can merge color pages from graphics programs with text pages from a word processor.

NOTE: In cases where multiple users are connected to the Fiery XJ via Fiery WebSpooler, Fiery Spooler, and/or the Command WorkStation, and one user makes changes to a Thumbnail A job, not all users may see the results of those changes. If you are unable to view changes in a job, or if selecting a Thumbnail window results in a message indicating zero pages, then close and relaunch Fiery WebSpooler, Fiery Spooler, or the Command WorkStation.

DocBuilder differences in Fiery WebSpooler

The DocBuilder tool in Fiery WebSpooler functions almost identically to that in the Command WorkStation. For detailed information on using DocBuilder, see Chapters 2 and 3 (for instructions on editing and merging raster files, see "Merging raster files with DocBuilder" on page 3-9). Though the interfaces are almost identical, there are some feature differences:

- You cannot scroll through the pages in Thumbnail A or Thumbnail B by dragging the slider bar at the bottom of the screen.

- Thumbnail A right-click commands are not available; instead click on a page to select it, and either click the appropriate button in the Thumbnail A window or choose the appropriate command from the Page menu.

- Page icons and arrows do not appear when moving page(s) from Thumbnail B to Thumbnail A. Instead, a blue outline appears around a Thumbnail A page that is to be replaced; and a blue bar appears adjacent to or between Thumbnail A page(s) to indicate where the Thumbnail B page(s) are to be inserted.

- The full-screen preview window has a status bar (the Command WorkStation does not), the "X" button used to close the full-screen preview is in a different location, there are no page advance arrows, and there is no rotate button.

• The Ctrl-Z keyboard shortcut for the Undo command is not available. To undo one
or more DocBuilder commands, choose Undo from the Page menu.

Using the Job Log

From Fiery WebSpooler, you can view and print a log of all jobs printed by the
Fiery XJ, including jobs downloaded with Fiery Downloader.

NOTE: If you logged in as Administrator, you can delete the Job Log from
Fiery WebSpooler (see page 5-9). The Job Log is not available if you logged in as
Guest.

TO DISPLAY, UPDATE, PRINT, DELETE, AND SAVE THE JOB LOG:

1.   **Choose Show Job Log from the Fiery WebSpooler Window menu.**

2.   **Click All or specify a date range.**
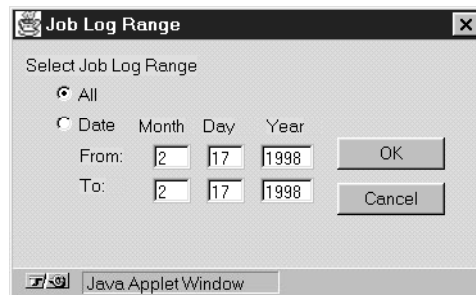
3.   **Click OK.**

The Job Log appears in a new browser window.

NOTE: The Delete button appears only if you logged in as Administrator.

Update
Print
Delete

The Job Log displays each job and the following information: status, document name, user name, date, start time, end time, process time, file size, device, paper size, media, number of originals, number of color pages, number of black-and-white pages, total number of pages, Note1, and Note2.

The Status column provides the following information about jobs:

OK   The job was printed normally.

ERROR   An error occurred during processing or printing.

CANCEL   The job was canceled before printing was completed.

4. **To update the Job Log, click the Update button.**

5. **To print the Job Log, choose Print Job Log from the File menu or click the Print button.**

   The information displayed in the Job Log window prints to the current Fiery XJ. When you print the Job Log, totals are printed for all appropriate columns.

6. **If you logged in as Administrator, you can choose Delete Job Log from the File menu or click the Delete button to clear the Job Log.**

   The system administrator can also print and clear the Job Log from the Control Panel.

Chapter 6:
Color Calibration

Calibrating the Fiery XJ ensures consistent, reliable color output. You can calibrate the Fiery XJ with Fiery Print Calibrator and an X-Rite DTP32 automatic scanning densitometer. By connecting the densitometer to the serial port on your computer, you can quickly measure color patches and download measurements to the Fiery XJ.

This chapter describes the purpose of calibration and provides instructions for all calibration procedures.

For information on advanced calibration and simulation features available with Fiery Print Calibrator, such as editing targets and creating custom targets, see Chapter 7.

Introduction

A calibration is generated from two components that originate separately: *measurements* and a *target*.

- Measurements represent the actual color behavior of the DocuColor 40; they are computed from densitometer readings.

- Targets represent the goal of printing, such as obtaining pleasing color from the DocuColor 40 or simulating another print device. A DocuColor 40-specific target is provided with the Fiery XJ.

Calibration generates curves describing the various color densities based on the target and the measurements that you provide from a densitometer.

Once you have calibrated the Fiery XJ with Fiery Print Calibrator, a calibration is stored on the Fiery XJ; this calibration will be referred to as the *resident calibration*. The resident calibration is applied to *all* print jobs unless bypassing of calibration is specified by setting the CMYK Simulation option to Match Copy (see the *Printing Guide*).

NOTE: Changing the resident calibration has the potential to affect *all* jobs for *all* users, so you may want to limit the number of people authorized to perform calibration. Administrator and Operator passwords can be set in Setup from the Command WorkStation to control access to calibration with Fiery Print Calibrator.

Understanding calibration

The Fiery XJ allows you the flexibility to choose a standard calibration or a custom calibration. A standard calibration uses one of the targets provided with the Fiery XJ (DocuColor or Linear) with a new set of measurements.

Calibration allows you to:

- Maximize the color reproduction capabilities of the Fiery XJ

- Ensure consistent color quality across time

- Produce consistent output across Fiery XJ servers of the same engine

- Achieve better color matches when reproducing spot colors, such as PANTONE colors or other named color systems

- Optimize the Fiery XJ for using ColorWise Color Rendering Dictionaries (CRDs) and CMYK simulations, and for using ICC-compatible profiles when printing RGB color data (see the *Color Guide*)

- Linearize the Fiery XJ while maintaining the currently available density range

Chapter 7 discusses advanced calibration techniques, including how to:

- Use the Fiery XJ as a proofing system by printing press simulations

- Create custom calibration and simulation targets

How calibration works

Success in obtaining satisfactory print quality from a digital color printer depends on many factors. Among the most important are establishing and maintaining optimal toner densities. Density is a measure of the light absorbed by a surface. By carefully regulating toner densities, you can obtain consistent printed color.

Even with a calibrated system, toner density is affected by such variables as room humidity and service settings; it also tends to drift over time. Regular measurement detects day-to-day variations in densities, and calibration corrects for them.

Calibration works by creating calibration curves on the Fiery XJ that compensate for the difference between actual and desired density values.

Calibration curves and target curves are the graphic equivalent of transfer functions, which are mathematical descriptions of changes that will be made to the data you start with. Transfer functions are often graphed as Input/Output curves.

Target curves (targets, for short) result from applying one or more transfer functions in sequence. The server generates calibration curves after comparing measured values to the final target values for each of the four toner colors.

Measurements

Measurements files contain numerical values that correspond to the toner density produced by the DocuColor 40 when it prints solid cyan, magenta, yellow, and black, and graduated tints of those colors.

To create a measurements file, you first print a page of color patches from Fiery Print Calibrator to the DocuColor 40. Then you measure the patches, by using an X-Rite DTP32 densitometer connected to a computer on the network. The new measurements are automatically downloaded to the Fiery XJ.

You can print a calibration Comparison Page showing the result of using the new measurements with any of the current targets. When you are satisfied with a particular combination of measurements and target, you apply the calibration to the Fiery XJ; this becomes the new resident calibration.

NOTE: You might also be able to create measurements with a different brand Status T densitometer if the densitometer manufacturer provides utility software to create a measurements file.

Targets

Target files define desired calibration results. Two target files are provided with the Fiery XJ. You can create additional ones by modifying existing targets with Fiery Print Calibrator. When you calibrate the Fiery XJ, you can select the target file that corresponds to the typical printing goals at your site. This becomes the resident calibration target that is used by default.

The calibration targets provided with the Fiery XJ are:

- DocuColor—Optimized for best results with the DocuColor 40.

• **Linear**—Results in output that divides the maximum measured density for each color into equal density steps to provide an even distribution of tones over the DocuColor 40's density range. When you linearize the printer, the entire measured density range in each color channel is divided into equal steps. Equal steps in toner percentage, such as 0%, 10%, and 20%, are printed in equal steps in density, and appear as roughly equal visual steps. This gives a linear response using the range of densities available.

You can store targets on the computer where you use Fiery Print Calibrator, on another connected disk, or on the Fiery XJ disk (or all three).

Scheduling calibration

In general, you should calibrate the Fiery XJ at least once a day, depending on the volume of print jobs. If it is very important to maintain consistent colors, or if the DocuColor 40 is subject to wide fluctuations in temperature or humidity, calibrate every few hours. Calibrate when you change paper stock. In general, to get the best performance from the DocuColor 40, calibrate whenever there is a noticeable change in print quality.

If you need to split a print job into two or more batches, it is especially important to calibrate before printing each batch.

You should also calibrate the Fiery XJ system after DocuColor 40 maintenance. However, because the DocuColor 40 may be less stable immediately after maintenance, wait until you have printed approximately 50 pages before you calibrate.

NOTE: Output from the DocuColor 40 is very sensitive to changes in temperature and humidity. To minimize these effects, the DocuColor 40 should not be installed near a window or in direct sunlight, or near a heater or air conditioner. Paper is sensitive to climate changes as well, and should be stored in a cool, stable environment.

The DocuColor 40 has a self-calibration feature (Automatic Gradation Adjustment, or AGA) that optimizes toner densities after scanning two test prints on the DocuColor 40 glass. The DocuColor 40 allows you to adjust printed color from its touch panel display. You can typically increase or decrease toner density for one or all toner colors. These control panel settings affect copies made from the DocuColor 40 glass, and may affect Fiery XJ output as well. If they do, make sure these settings

remain the same (preferably at a neutral position) prior to calibration, and from one print job to the next. If you change these settings, calibrate the Fiery XJ when you have finished changing settings.

Print some standard color pages such as the Color Charts (from the Control Panel or from the Command WorkStation) and the Color Reference pages included with the user software (see *Getting Started*). All of these pages include fully saturated color patches and pale tints of cyan, magenta, yellow, and black. Images with skin tones offer a very good basis for comparison. You can save and compare pages you printed at different times. If there is a noticeable change in appearance, you should calibrate or linearize the Fiery XJ system.

If the solid density patches (100% cyan, magenta, yellow or black) look less saturated with time, show the pages to the DocuColor 40 technician to find out whether adjusting the DocuColor 40 can improve the output.

Checking calibration status

You can check whether the Fiery XJ is calibrated, what target was used, and when the printer was last calibrated. You can view information about the last calibration:

- By printing a Configuration page or Test Page from the Control Panel or the Command WorkStation
- With Fiery Print Calibrator, by choosing Server Status from the Server menu (see page 6-10)

Using a densitometer

Fiery Print Calibrator is designed to work with the X-Rite DTP32 reflection densitometer so that color measurements are entered automatically.

Setting up the densitometer

Before you calibrate the Fiery XJ, you need to connect, configure, and calibrate the densitometer to prepare for measuring the printed patches (see "Calibrating the densitometer" on page 6-18). For additional information about setting up and using the densitometer, see the documentation included with it.

T<small>O CONNECT THE</small> X-R<small>ITE</small> DTP32 <small>TO THE COMPUTER:</small>

1. **Turn off the computer.**

2. **Plug the square end of the interface cable (like a modular phone plug) into the I/O port on the side of the X-Rite DTP32.**
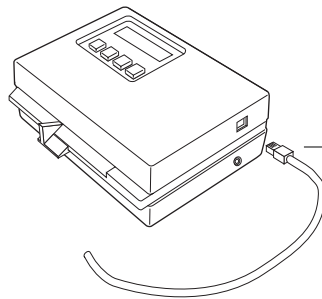
Square connector

3. **Attach the connector to the computer.**

   For a Windows computer, attach the 9-pin connector to the COM1 or COM2 port on the computer and tighten the screws.

Square connector

Unused connector

Connect to COM port

Interface cable

Connect to keyboard port
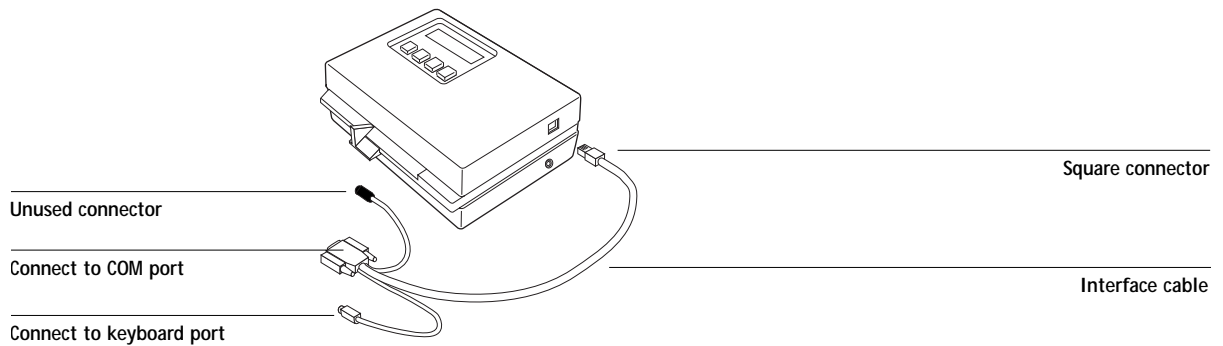
4. **Use the optional AC adapter (available from X-Rite) to provide power.**

   Plug the small connector on the adapter cable into the side of the X-Rite DTP32 and plug the adapter into a wall outlet.

Small connector

AC adapter
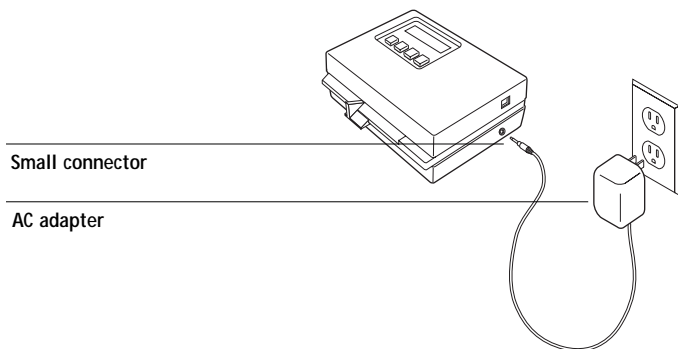
5. **Turn on the computer.**

6. **Calibrate the densitometer (see page 6-18).**

7. **Use Fiery Print Calibrator to calibrate the Fiery XJ (see the next section).**

Calibrating with Fiery Print Calibrator

Fiery Print Calibrator allows you to calibrate from a computer networked to the Fiery XJ. You can calibrate to targets provided with the Fiery XJ as described in this chapter, or you can customize targets and calibration curves to suit the specific needs of your printing environment as described in Chapter 7.

TO USE FIERY PRINT CALIBRATOR:

1. **Start Fiery Print Calibrator and connect to the server you want to calibrate.**

   To calibrate a different Fiery XJ, choose Open from the File menu.

   For instructions on configuring the connection to the Fiery XJ from a Windows computer, see *Getting Started.*

6

2. **If this is the first time you are calibrating, you are prompted to select a target.**

    The first time you use Fiery Print Calibrator, you see only the targets provided with the Fiery XJ. You can store additional targets on the Fiery XJ and on your computer. You can designate any target stored on the Fiery XJ as the resident target.

    The initial default target is the DocuColor 40 target; it is the one with the DocuColor 40 device name (DocuColor).
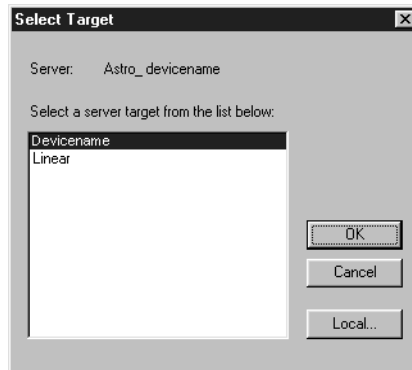
3. **Select a target and click OK.**

    The target you choose becomes the default target. The target can be changed independently of your measurements.

The Calibration Mode window

The Calibration Mode window of Fiery Print Calibrator has large buttons which indicate the sequence for the main Fiery Print Calibrator functions. There is a menu bar with File, Edit, Measurements, Server, and Window menus, and a status message at the bottom of the window. The functions that are unavailable at any particular time are dimmed and cannot be selected.
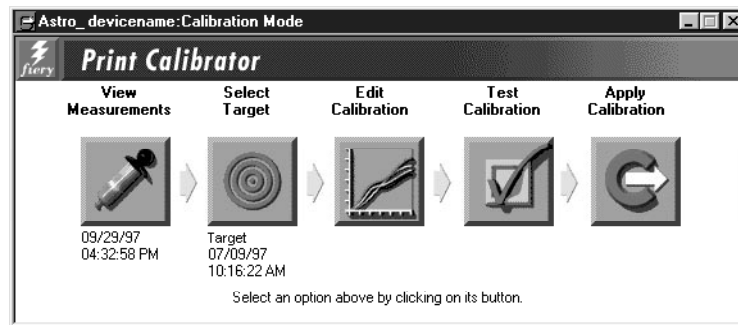
The buttons and their actions are:

- **View Measurements**—Displays a table of density values in the current measurements file. Below the button is the date of the active measurements.

- **Select Target**—Allows you to select a new target for calibration or for customizing. Below the button is the name and creation date of the currently selected target. This target is not necessarily the resident calibration target used by the Fiery XJ.

- **Edit Calibration**—Allows you to view the current measured and target curves and customize the selected target.

- **Test Calibration**—Prints a page so that you can view the results of calibration before updating the resident calibration on the Fiery XJ.

- **Apply Calibration**—Updates the resident calibration on the Fiery XJ.

  In order to Apply Calibration to the Fiery XJ, you must have a Measurements file and a Target.

To view current calibration information, choose Server Status from the Server menu.
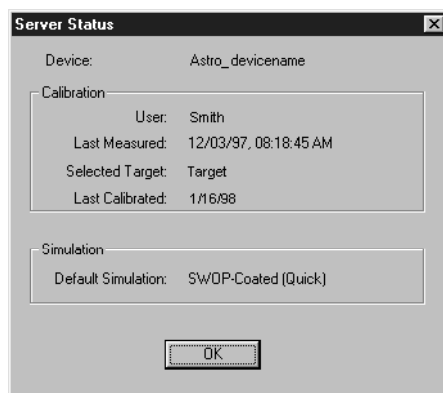
If the Fiery XJ is calibrated, the Server Status dialog displays the user name or login name of the person who last calibrated the Fiery XJ, the name of the current Fiery XJ, the date and time of the current measurement file, the name of the resident calibration target, and the date and time of the most recent calibration.

Measurements

Measurements files provide toner values that correspond to standard color patches. Typically, you measure a page of patches with a densitometer and the measurements are loaded on the Fiery XJ.

The creation date and time of the current measurements file appears below the Measurements button in the Calibration Mode window.

NOTE: For demonstration purposes only, if you do not have a measurements file, you can use the DEMO.MEA file on the User Software CD. This file should *not* be used to calibrate the Fiery XJ.

Measuring values with a DTP32 densitometer

To create a measurements file you print a patch page and feed it into the densitometer. The densitometer scans the density of the patches on the page and automatically transmits the measured values to Fiery Print Calibrator.

After each column of patches is scanned, you move the page to scan another column. The DTP32 densitometer has an adjustable strip guide to the right of the strip entrance. The density measurements are used to create a Measurements file. In general, valid measurements for all patches fall within the range of 0 to 3.05. Values between -0.01 and +0.005 are shown in Fiery Print Calibrator as 0. Values that appear in the Measurements window as negative numbers might indicate a problem with the densitometer.

TO PRINT PATCHES FOR MEASUREMENT:

1. **From the Calibration Mode window, choose Print Patch Page from the Measurements menu.**

2. **Select a page size and paper tray.**

   Letter/A4 prints 21 patches per color; 11x17/A3 prints 34 patches per color.

   The Fiery XJ downloads the patch page to the DocuColor 40. The patch page has four columns of progressively less saturated tints of each process color.

3. **Click Print.**

TO PRINT SPECIAL PATCHES FOR CALIBRATING:

• **With Fiery Downloader for Windows, download either Custom21.ps or Stand21.ps (21 patches); or Custom34.ps or Stand34.ps (34 patches) from the Clrfiles\Calibrat folder on the User Software CD.**

   These PostScript files contain color patches similar to the ones that you can print from the Measurements menu. Custom21.ps and Custom34.ps are provided to enable you to download measurement patches that incorporate the copier's current calibration set, while Standard21.ps and Standard34.ps are provided to enable you to download standard measurement patches that ignore the copier's current calibration set. These files are provided for expert users and should not be used for day-to-day calibration.

To measure calibration patches with an X-Rite DTP32:

1. **Make sure your X-Rite DTP32 is connected (page 6-6) and calibrated (page 6-18).**

2. **Choose Densitometer from the Measurements menu.**

   ```
   Densitometer                                  [X]

       [ ]       [ ]       [ ]       [ ]

    ─Status──────────────────────────────────
       Select densitometer port and press Start to begin
                          scanning.

    ─Page Size──────────    ─Patches──────────
     (•) Short (21 patches)    (•) Standard
     ( ) Long (34 patches)

    Select Densitometer Port:  [None          ▼]

       [  Start  ]   [  Accept  ]   [  Cancel  ]
   ```
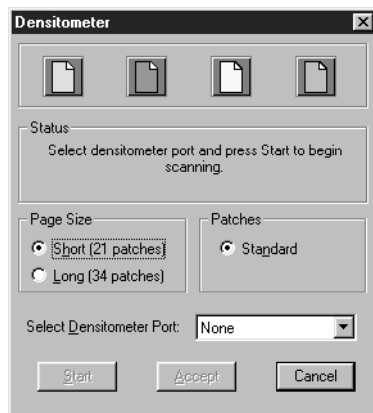
3. **Select the page size that matches the patch page you printed.**

   The Long page size has more patches with more finely distinguished color gradations.

4. **In the Select densitometer port pop-up menu, choose the port (COM1 or COM2) with the densitometer interface cable.**

   If the densitometer screen does not display MAIN MENU, for example after calibrating the densitometer, press the two MENU buttons at the same time.

5. **Click Start.**

6. **Follow the on-screen instructions to measure patches.**

7. **When prompted, position the pointer on the strip guide to 15.**

   The first column you'll measure is the cyan column.
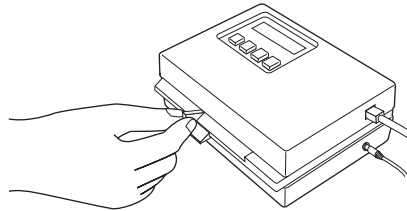
8. **With the arrow above the cyan column pointing towards the densitometer, align the right side of the patch page with the strip guide.**
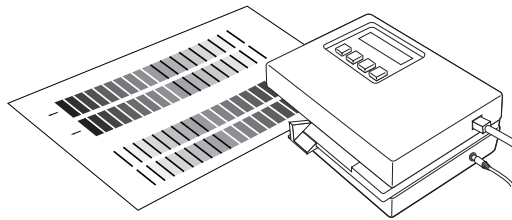
9. **Insert the patch page into the densitometer until it rests against the drive rollers and the motor is activated.**

   There may be a slight hesitation before the rollers start.

10. **Hold the page against the guide to prevent any skewing while the strip is being measured.**

    After the strip is measured, Pass #1 of 1 OK! appears in the densitometer display. Transmitting Data appears briefly after each pass.

11. **When prompted (onscreen and on the densitometer), move the strip guide to 30 and feed the patch page to measure the magenta column.**

    After the magenta strip is measured, Pass #1 of 1 OK! appears in the densitometer display.

12. **Turn the patch page around so that the arrow above the yellow column is pointing toward the densitometer.**

    Leave the strip guide set to 30.

13. **When prompted, align the right side of the patch page with the strip guide and measure the yellow column.**

   After the yellow strip is measured, Pass #1 of 1 OK! appears in the densitometer display.

14. **When prompted, move the page guide to 15 and measure the black column.**

   After the black strip is measured, Pass #1 of 1 OK! appears in the densitometer display.

   NOTE: If there is a problem measuring a color, follow the instructions on the densitometer to remeasure it.

15. **When all four columns have been measured, click Accept in the Densitometer window.**

   The Densitometer window closes; the date beneath the Measurements button is updated to the current date because the measurements have been saved to the Fiery XJ.

TO SAVE THE MEASUREMENTS FILE:
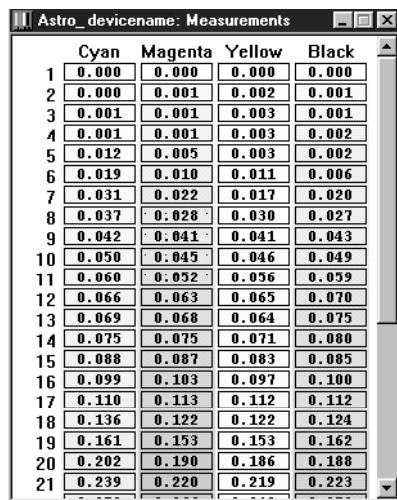
• **Choose Export from the Measurements menu to save the measurements file to your computer hard disk.**

   If you save the measurements file to your hard disk, use it only as a backup for your own reference. You can import this file later without having to remeasure, but this is usually not recommended. For optimal calibration, use a new measurements file based on current densitometer values.

   For your information, exported measurements files are tab-delimited ASCII files that you can open in a word processing, spreadsheet, or database program.

TO VIEW STORED MEASUREMENT VALUES:

• Click the View Measurements button to view values in the current measurements file.

	Cyan	Magenta	Yellow	Black
1	0.000	0.000	0.000	0.000
2	0.000	0.001	0.002	0.001
3	0.001	0.001	0.003	0.001
4	0.001	0.001	0.003	0.002
5	0.012	0.005	0.003	0.002
6	0.019	0.010	0.011	0.006
7	0.031	0.022	0.017	0.020
8	0.037	0.028	0.030	0.027
9	0.042	0.041	0.041	0.043
10	0.050	0.045	0.046	0.049
11	0.060	0.052	0.056	0.059
12	0.066	0.063	0.065	0.070
13	0.069	0.068	0.064	0.075
14	0.075	0.075	0.071	0.080
15	0.088	0.087	0.083	0.085
16	0.099	0.103	0.097	0.100
17	0.110	0.113	0.112	0.112
18	0.136	0.122	0.122	0.124
19	0.161	0.153	0.153	0.162
20	0.202	0.190	0.186	0.188
21	0.239	0.220	0.219	0.223

Astro_devicename: Measurements

Fiery Print Calibrator displays the current measurements on the Fiery XJ. They are the measurements that were stored on the Fiery XJ when you last clicked Accept.

Testing and applying calibration

You can view a sample calibration before applying it to the Fiery XJ as the resident calibration. Since the measurements have already been updated, you are actually checking the combination of your measurements with one or more targets.

You can use the Comparison Page provided with the Fiery XJ to test a calibration before applying it. This page shows a comparison of uncalibrated and calibrated data.

The Comparison Page provides the following calibration information:

RGB using Color Rendering Dictionary section

• Name or Server—the name of the Fiery XJ defined in Setup

• Model or Printer—the Fiery XJ model name and DocuColor 40 model

- **Target**—the currently selected target in Fiery Print Calibrator, not necessarily the target for resident calibration on the Fiery XJ

- **Measurements**—how measurements were obtained

- **Rendering Style**—the default rendering style specified in Setup

- **Date & Time**—when the Comparison Page was printed

For a description of the information in the section of the page labeled "Press CMYK using Simulation" see page 7-18.

You can also create your own comparison page. To do this, create a PostScript or an EPS (Encapsulated PostScript) file and name it Calib.eps. Use Fiery Downloader to download the Calib.eps file to the Hold queue of the Fiery XJ.

TO TEST AND APPLY CALIBRATION:

1. **Click Test Calibration in the Calibration Mode window.**

2. **Select a page, choose a paper tray, and click Print.**

   Print Comparison Page

   Page Selection

   Select a file to print to Astro_devicename using the current calibration settings:

   ⦿ Comparison Page
   ○ User-defined CALIB.EPS in Hold Queue

   Select Tray: LTR/A4 ▾

   Cancel   Print
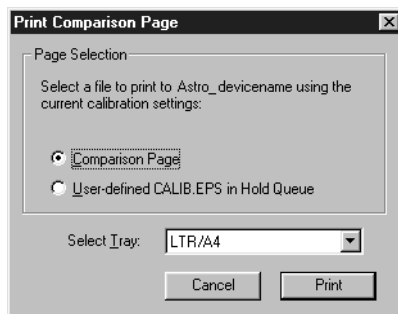
3. **If you are satisfied with colors on the printed page, click Apply Calibration, and click Continue to update the resident calibration.**

   Or if you are not ready to apply the calibration, you can print a Comparison Page with a different target or saved measurements file.

   Select the target or measurements file, and click the Test button.

4. When you have finished working with Fiery Print Calibrator, choose Exit from the File menu.

Calibration checklist

Once you have calibrated the Fiery XJ and, if necessary, adjusted your target to get satisfactory output, calibrating again is just a matter of taking new color measurements and applying them to the current target. A summary of the steps follows.

Prepare the densitometer

☐ Connect and configure the densitometer.

☐ If color is critical, calibrate the densitometer. Otherwise, wait until the densitometer prompts you to do so.

Use Fiery Print Calibrator

☐ Start Fiery Print Calibrator.

☐ Check the target indicated in the main window. This is your current target.

☐ Choose Print Patch Page from the Measurements menu.

☐ Choose Densitometer from the Measurements menu.

☐ Choose the densitometer port and click Start.

☐ Pick up the patch page from the DocuColor 40 and feed it into the densitometer, following the prompts in the Densitometer dialog box on the Fiery Print Calibrator screen.

☐ When you have measured all four colors, click Accept in the Densitometer dialog box.

Check the results

☐ Click Test in the main window to print a calibration Test Page.

☐ Compare the calibrated and uncalibrated color. If the result of using the new measurements is satisfactory, click Apply Calibration. If not, either measure again or edit the target, and test once more before clicking Apply Calibration.

☐ Click OK in the confirmation dialog boxes and close Fiery Print Calibrator.

Calibrating the densitometer

You will need the black-and-white AutoCal strip included with the densitometer. Calibrating the densitometer does not require Fiery Print Calibrator.

TO CALIBRATE THE X-RITE DTP32:

1. **Connect the densitometer to the computer and supply power (see page 6-5).**

2. **On the X-Rite DTP32, simultaneously press the two buttons marked MENU.**

   The words MAIN MENU appear in the display.

3. **Press the p1 key until p2 appears.**

4. **Press the cal key.**

   CALIBRATION appears in the display.

5. **Press the den key.**

   CALIBRATING TRANSMISSION is displayed, followed by the words INSERT CAL STRIP.

6. **Position the strip guide at 5.**

Strip guide
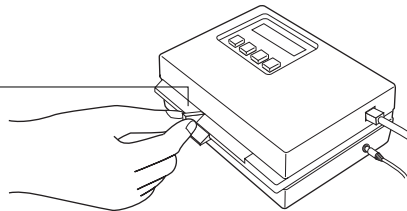
7. **Insert the arrow end of the Auto-Cal strip into the entrance of the X-Rite DTP32 until the roller starts pulling the strip.**

   READING appears momentarily, followed by the density values and CALIBRATION OK.

   If UNRECOGNIZABLE STRIP appears, try cleaning the strip (see the X-Rite DTP32 Operating Manual).

8. **Start Fiery Print Calibrator and proceed to calibrate the Fiery XJ (see page 6-11).**

   Recalibrate the densitometer at least once month. For critical color, calibrate the densitometer every time you calibrate the Fiery XJ.

Chapter 7: Advanced Fiery Print Calibrator Topics

This chapter describes advanced features of Fiery Print Calibrator, including customizing calibration and simulation targets. For introductory information about Fiery Print Calibrator and for instructions on performing calibration, see Chapter 6. For information on the simulation capabilities of the Fiery XJ, see the *Color Guide*.

The following section describes the advanced calibration features of Fiery Print Calibrator. For information on working with simulations, see "Using advanced simulation features" on page 7-10.

Using advanced calibration features

Fiery Print Calibrator offers additional flexibility for advanced users. You can:

- Use a different measurements file stored on your computer

- Select a different target when your printing goals change

- Edit an existing target to suit your needs, test it, save it as a custom target, and save it on the Fiery XJ

- Save measurements as a target

- Back up the targets that are stored on the server

- Remove targets from the server

Choosing a measurements file

Although you can import a saved measurements file, the measurement file you use should reflect the current color behavior of the copier. Therefore, import saved measurements only if you have reason to doubt your current measurements, or if you don't have access to a densitometer. You cannot edit measurement values with Fiery Print Calibrator.

NOTE: The measurements file is copied to the server as soon as you load a new one. It is also copied as soon as you accept new measurements in the Densitometer dialog box (see Chapter 6).

Any measurement accepted or imported into Fiery Print Calibrator automatically becomes *the* measurements file for the connected Fiery XJ. This measurements file is used to create the resident calibration as well as all the other calibrations stored on the Fiery XJ.

NOTE: You should view or back up the current measurements before changing them.

TO USE A MEASUREMENTS FILE:

1. To view the density values in the current measurements file, click the Measurements button.

2. To back up the measurements, choose Export from the Measurements menu and enter a descriptive name.

3. To use a different stored measurements file, choose Import from the Measurements menu and select a saved measurements file from your computer.

Working with targets

Target files provided with the Fiery XJ contain desired calibration goals. Select the target file that corresponds to the type of printing done at your site.

You can view your current measurements and compare them with the current target. You can also edit the target file and save the changes as a new target file. This allows you to fine-tune the calibration on the Fiery XJ to meet your exact specifications.

Custom targets are always based on an existing target. Select the target to use as a base for the custom target on a target. In most cases, you'll use the copier target (DocuColor).

The target for the resident calibration can be either of the provided targets, or a custom target with any name. (Instructions for creating custom targets are provided later in this chapter.) Select a target to use for the resident calibration, and click Apply Calibration.

You can test calibrations by comparing calibrated and uncalibrated image data on the Comparison Page, which uses both CMYK and RGB images. You can also create a custom comparison page as described on page 6-16.

Comparing the measured and target curves

Before editing a target curve, compare it to the current measured curve. By doing so, you can determine how close the measured color densities are to the target densities. The closer the measured densities are to the target densities, the better the results you get from calibration.

NOTE: Large differences between the standard copier target and measured curves may mean that the copier needs servicing.

TO COMPARE THE MEASURED CURVE AND THE CURRENT TARGET CURVE:

1. **Start Fiery Print Calibrator and select a target from the list of available target files.**
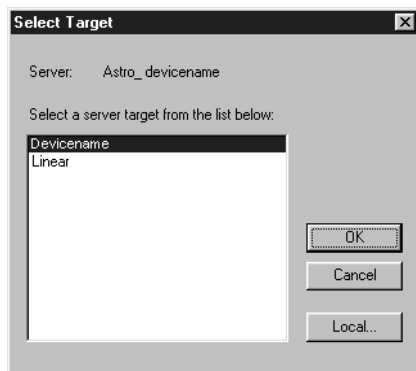
The targets in this list are stored on the Fiery XJ. Alternatively, click Local to use a target stored on your computer.

2. **Click OK.**

3. **Click the Edit Calibration button in the Calibration Mode window.**

4.   **Select Target/Measured and turn on the Measured option in the View Curves region.**

These curves represent the values in the measurements file and cannot be changed.
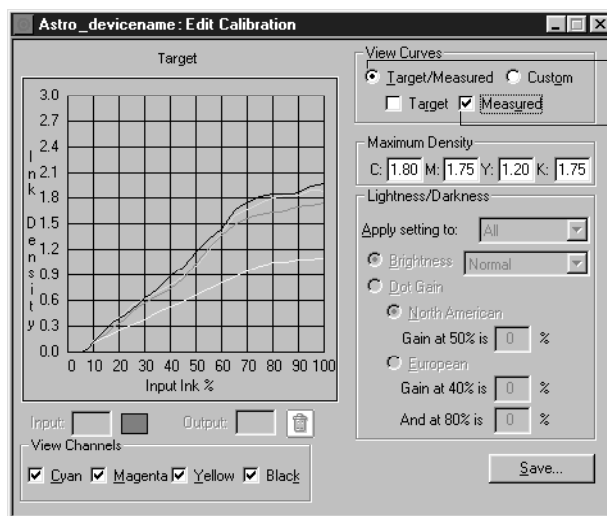
Select Target/Measured

Turn on Measured

5.   **Turn on the Target option and compare the target curve (thick lines) to the measured curve (thin lines).**
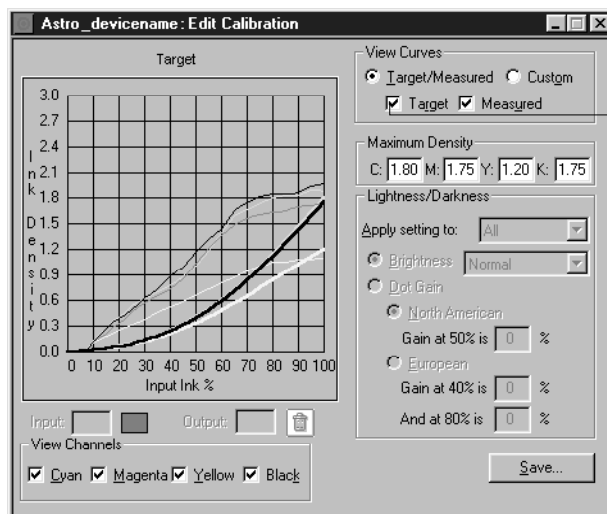
Turn on Target

Customizing calibration targets

The copier's calibration target provided with the Fiery XJ should be used for general printing purposes. You may, however, have special printing needs that require a custom calibration. In this case, you can use Fiery Print Calibrator to edit an existing calibration target and save it as a custom target.

The Edit Calibration window provides information about your current target and measurements in graphic form and lets you edit curves and values to create a new target.

NOTE: All changes are stored as you make them. To discard changes, reload the target from the server or your computer.
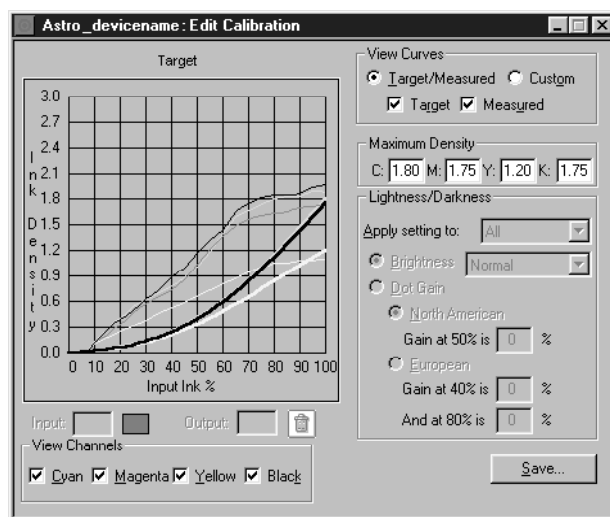
The graph on the left side of the window allows you to view and manipulate color output values. The View Channels check boxes (beneath the graph) and the View Curves areas (to the right of the graph) specify the curves displayed on the graph.

You can change several components of a target. The changes are accumulated in the custom target that you eventually save. You can:

• Change the maximum density (Dmax).

An adjusted target is created with the new maximum density.

Independently, you can:

• Adjust brightness

• Adjust dot gain for more saturated output without affecting the overall color balance

• Load a custom curve and edit points in the curve

The current custom curve is applied to the original target curve or, if you adjusted the Dmax, it is applied to the target with the new maximum density.

• By clicking Save, save a copy of the edited target to your computer

• Choose Apply Calibration when you are ready to update the resident calibration on the Fiery XJ

NOTE: The values in the following illustrations *do not* represent standard values. They are intentionally exaggerated for example purposes.

TO ADJUST MAXIMUM DENSITY (DMAX):

1. Select the target to edit (see page 6-7).

2. Click the Edit Calibration button.

3. In the View Curves area, click Target/Measured and Target.

4. For each color, enter a value in the Maximum Density areas, and press Tab or Enter to adjust the endpoint of the target curve as needed.

You can enter a value from 0.1 to 3.0.

The rest of the curve adjusts to make a smooth transition to the new endpoint. The adjusted target is stored. To discard changes, reload the target from the server or from the local disk.

TO CUSTOMIZE A TARGET:

1. Select the target to edit (see page 6-7).

2. Click the Edit Calibration button.

3. **In the View Curves area, click Custom to edit the input/output curve.**

The graph maps input ink percentage to output ink percentage by analogy to ink on a press. Initially, the graph is a 45° straight line; that is, input values equal output values. This is the starting place for your editing.
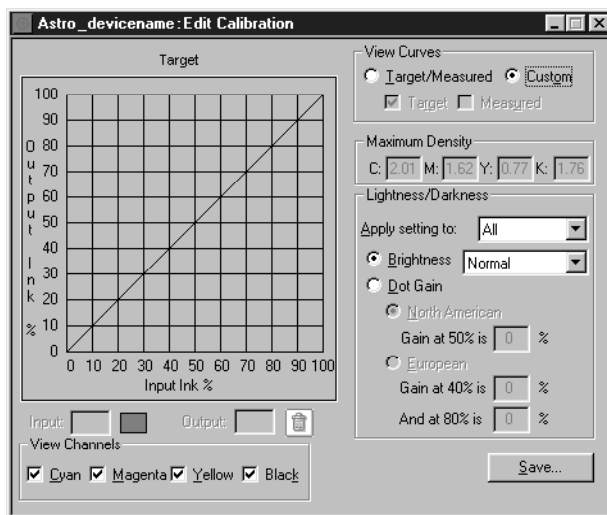
As you make changes, you either increase or decrease the amount of toner that will be used to render a certain percentage tone. An ink density of 100% is a fully saturated color; 0 to 5% is a highlight color.

4. **In the View Channels area, select the channels to edit.**

You can view information for all four colors at the same time (cyan, magenta, yellow, and black), or any combination of these. Working with only one or two colors at a time helps you to distinguish the curves and to fine-tune your adjustments, especially when using a monochrome monitor.

5. **In the "Apply setting to" menu, choose the channel to adjust in the Lightness/Darkness area of the window.**

6. **Use the Brightness menu to adjust brightness as needed.**

7. **Adjust the dot gain as needed.**

   These values are used independently of the Brightness curve. Changing the values for dot gain can give more saturated color output without affecting the overall color balance. The dot gain values *simulate* dot gain, not compensate for dot gain.

   You can choose either the North American or European standard and then enter the desired Dot Gain. The valid values for North American gain at 50% input are 0% to 50% output. The valid values for European gain at 40% input must be less than the 80% input setting plus 40%; the valid values for European at 80% input are 0% to 20% gain on output.

   If you use Dot Gain values, the curve will be smoothed so that there are no spikes or jumps in output value.

   NOTE: You should measure this value from actual press output, using a densitometer.

8. **In the graph, drag points to adjust the curve as needed.**

   The graph maps input percentage to output percentage in 10% increments. Points along the curve are marked so that you can adjust them.

   NOTE: You should adjust points in this way *after* you have applied a brightness or dot gain curve. If you attempt to change a brightness or dot gain setting after you have adjusted the points on the graph, your earlier changes are not registered.
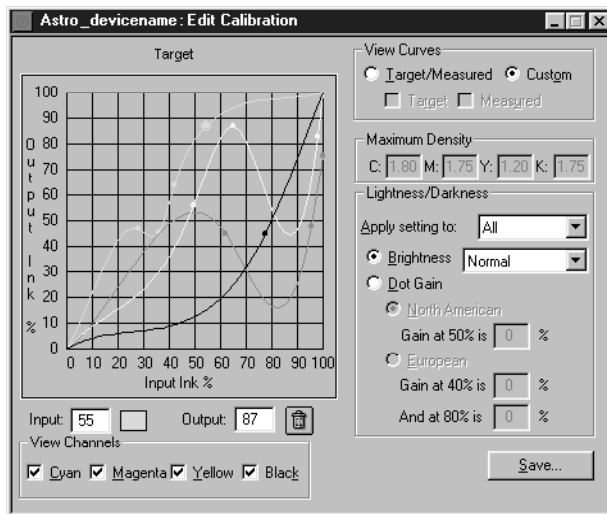
9. **You can test the changes now by using the Test Calibration button in the Calibration Mode window, or customize the target further.**

   If you edit a local target file, you are prompted to save it on the Fiery XJ before calibration can be changed.

   NOTE: You cannot use the name of an existing target.

10. **Enter a name for the edited target file and click Save.**
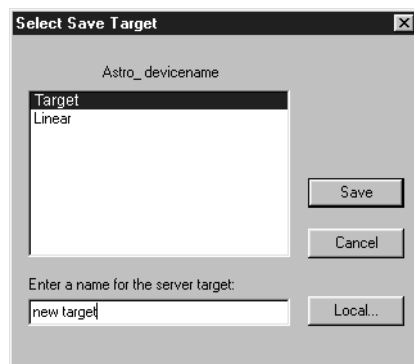
11. **To save the target on your computer, click Save (in the Edit Calibration window) and enter a name for the new target.**

   You can use a saved target again or continue editing it later.

   ## Backing up Fiery XJ targets

   If you think you may need a target later, you can back up targets to save the target to your computer before you delete it from the Fiery XJ. You should always save targets before updating Fiery XJ system software to ensure that no custom targets are lost.

TO BACK UP TARGETS:

• **Choose Back Up Targets from the Server menu.**

   This copies the target files from the Fiery XJ to your computer.

Deleting custom targets

If desired, you can delete custom targets permanently from the Fiery XJ. You may want to do this to make sure no one applies a calibration using the wrong target file. You cannot delete the original targets (DocuColor and Linear).

TO DELETE CUSTOM TARGETS FROM THE FIERY XJ HARD DISK:

1. Start Fiery Print Calibrator.

2. Choose Delete Target from the Server menu.

3. Select the target and click OK.

   NOTE: Deleting the target used for the resident calibration does not affect the resident calibration. To delete a calibration based on a deleted target, you must apply another calibration that uses a different target, or remove calibration as described in the next section.

Removing calibration

If desired, you can remove calibration from the Fiery XJ. When you remove calibration, the resident calibration curves are removed, and a default calibration is restored.

TO REMOVE CALIBRATION:

1. Choose Remove Calibration from the Server menu.

2. When prompted, confirm that you want to remove calibration.

Using advanced simulation features

Fiery Print Calibrator offers simulation features for advanced users. You can:

- Change the default simulation on the Fiery XJ

- Edit an existing simulation to suit your needs, test it, save it as a custom simulation, and save it on the Fiery XJ

- Back up the simulations that are stored on the server

- Remove simulations from the server

Working with simulations

Simulations, or *press simulations*, allow you to use the DocuColor 40 as a proofing device for jobs that will print on an offset press. Because the range of colors available on the DocuColor 40 is different from that of a press, the Fiery XJ automatically adjusts the color so that the output falls within the range of colors a press can produce.

Several simulations are provided with the Fiery XJ, and you can create additional ones by editing existing simulations with Fiery Print Calibrator. A default simulation target is specified by the administrator in Setup. You can change the default simulation using Fiery Print Calibrator.

The simulations provided with the Fiery XJ are:

- DIC—Japanese press standard

- Euroscale—European press standard

- SWOP-Coated—US press standard

- Match Copy—Bypasses calibration and produces output that matches a copy made from the copier glass

Each of the press simulations has both a Quick and Full version. These versions correspond to the method of mapping colors from your copier's color gamut to that of the desired press standard as follows:

- Quick—Compensates for only density (one-dimensional mapping)

- Full—Corrects for hue as well as density (four-dimensional mapping)

The PPD for the Fiery XJ provides placeholders for five custom simulations named Custom-1, Custom-2, and so on. These can be made available for users to select from the CMYK Simulation print option when printing a job.

You can store targets on the computer where you use Fiery Print Calibrator, on another connected disk, or on the Fiery XJ disk (or all three). However, only the original simulations and five custom simulations are available to users who choose a simulation on a job-by-job basis (with the CMYK Simulation print option).

For a custom simulation intended to be available only as a CMYK Simulation setting in Setup, any name can be used. For a custom simulation intended to be available for users to choose on a job-by-job basis, the name must be "Custom-1", "Custom-2", and so on.

NOTE: The custom simulation names "Custom-1" and "Custom-2" appear in the users' CMYK Simulation settings, and users can choose them, whether or not the corresponding custom options have been created and loaded on the Fiery XJ. Jobs printed with a non-existent custom simulation fail printing and show an error.

For more information on the CMYK Simulation and CMYK Simulation Method print options, see the *Color Guide* and the *Printing Guide*.

Using the Simulation Mode window

After starting Fiery Print Calibrator, choose Simulation Mode from the File menu.

The Simulation Mode window has buttons for the most frequently used Fiery Print Calibrator functions. There is also a menu bar with File, Edit, Measurements, Server, and Window menus, and a status message at the bottom of the window. Functions unavailable at any particular time are dimmed and cannot be selected.
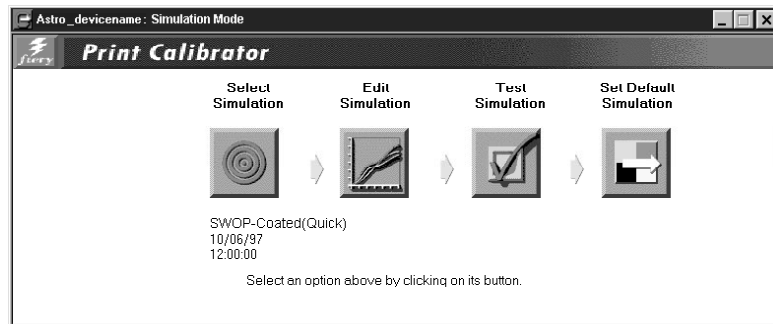
The buttons and their functions are:

- **Select Simulation**—Allows you to select a simulation to work with. You must select a simulation before editing or applying it to the Fiery XJ. Below the button are the name and creation date of the currently selected simulation, which is not necessarily the default simulation on the Fiery XJ.

- **Edit Simulation**—Allows you to view and customize the current simulation.

- **Test Simulation**—Prints a test page so that you can view the results of the simulation you are currently working with.

- **Set Default Simulation**—Updates the default simulation on the Fiery XJ.

Checking the current simulation

You can use Fiery Print Calibrator to see the simulation currently selected as the default on the Fiery XJ.

TO VIEW INFORMATION ABOUT THE CURRENT SIMULATION:

1. **Start Fiery Print Calibrator and connect to the Fiery XJ.**

2. **Choose Server Status from the Server menu.**
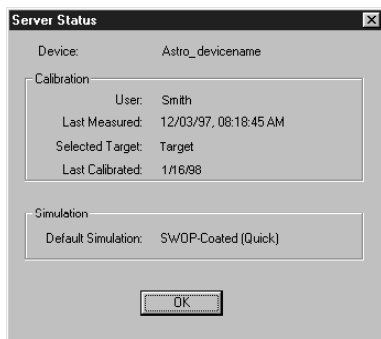
The bottom section of the Server Status window displays the default simulation.

7

Editing simulations

You can edit a press simulation to meet your exact specifications. You can also save the changes as a new simulation.

NOTE: The values in the following illustrations *do not* represent standard values. They are intentionally exaggerated for example purposes.

TO EDIT A SIMULATION:

1. **Start Fiery Print Calibrator and connect to the Fiery XJ.**

2. **Choose Simulation Mode from the File menu.**

3. **Click the Select Simulation button.**

   A dialog box displays the simulations available on the Fiery XJ.
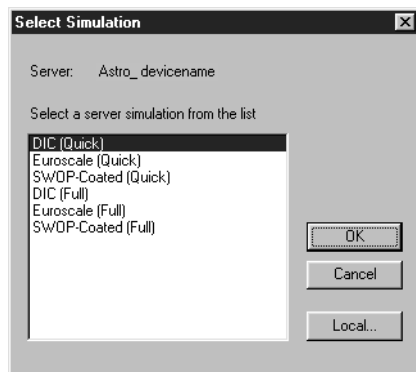
4. **Select a simulation and click OK.**

   Click Local to select a simulation on your computer.

5. **Click the Edit Simulation button.**
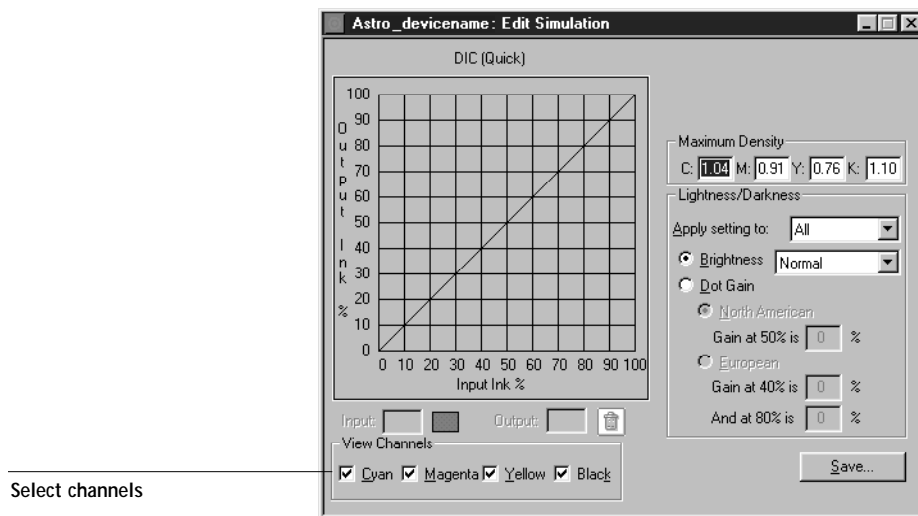
You can use this dialog box to view or to edit simulations.

6. **In the View Channels area, select the channels to edit.**

   You can view information for all four colors at the same time (cyan, magenta, yellow, and black), or any combination of these. Working with only one or two colors at a time helps you to distinguish the curves and to fine-tune your adjustments, especially when using a monochrome monitor.

7. **For each color, enter a value in the Maximum Density areas and then press Tab or Enter to adjust the endpoint of the target curve as needed.**

   You can enter a value from 0.1 to 3.0.

   The rest of the curve adjusts to make a smooth transition to the new endpoint. The adjusted target is stored. To discard changes, reload the target from the server or from the local disk.

8. **From the "Apply setting to" menu, choose the channel to adjust in the Lightness/Darkness area of the window.**

9. **Use the Brightness menu to adjust brightness as needed.**

   NOTE: If you change a value for a color with the Brightness menu, it overrides values set elsewhere in the dialog box.

10. **Adjust the Dot Gain value as needed.**

    For simulating press output, you can choose either the North American or European standard. Enter the desired Dot Gain in the appropriate text box. The valid values for North American gain at 50% input are 0%-50% output. The valid values for European gain at 40% input must be less than the 80% input setting plus 40%; the valid values for European at 80% input are 0% to 20% gain on output.

    If you use Dot Gain values, the curve is smoothed so that there are no spikes or jumps in output value.

11. **In the graph, click and drag points to adjust the curve as needed.**

    The graph maps input percentage to output percentage in 10% increments. The points along the curve are marked so that you can adjust them.

    NOTE: You should adjust points on the curves after you have entered values in the other areas of the window. If you change values after you have adjusted the curve on the graph, values might not be valid.

12. **When you are finished, click Save and enter a name for the new simulation.**

    This saves the simulation to Fiery XJ. Use Local to save the simulation to your computer hard disk so that you can use it again or continue editing it later.

    • Give the simulation a new name. You cannot overwrite the name of an original press target.

    • Include part of the original name in the new name, for example, "SWOP-New." This helps you remember what the new simulation is based on.

    • To allow users to print with the simulation on a job-by-job basis, you must use the exact names "Custom-1", "Custom-2", and so on. Give users a description of the custom simulations because they see only the "Custom" names from the printer driver interface.

    NOTE: If custom simulations are later deleted from the server, users might still select them when they print. However, jobs printed with non-existent custom simulations will fail printing and report an error.

Managing simulations

With Fiery Print Calibrator, you can back up and delete simulations. You can also set the default simulation to None.

TO BACK UP SIMULATIONS:

•   **Choose Backup Simulations from the Server menu to copy the simulations from the Fiery XJ to your computer.**

    Simulations are saved in a folder called Backup in the folder where Fiery Print Calibrator is located. You can save simulations for safekeeping. You should always save simulations before updating Fiery XJ system software to ensure that no custom simulations are lost.

TO DELETE CUSTOM SIMULATIONS FROM THE FIERY XJ HARD DISK:

1. **Choose Delete Simulation from the Server menu.**

2. **Select the custom simulation and click OK.**

    You can delete simulations to make sure no one uses the wrong simulation file. You should always use the Backup Targets command to save simulations before you delete them.

TO SET THE DEFAULT SIMULATION TO NONE:

1. **Choose Set Default Simulation to None from the Server menu.**

2. **When prompted, confirm you want to reset the default.**

Testing and setting a new default simulation

You can use the Comparison Page provided with the Fiery XJ to test a simulation before making it the default simulation on the Fiery XJ. This page shows a comparison of images with and without simulation applied.

The Comparison Page provides the following simulation information:

Press CMYK using Simulation section

- **Simulation**—The currently selected simulation in Fiery Print Calibrator, not necessarily the default simulation on the Fiery XJ.

- **Method**—Quick or Full. **Quick** accounts for only the density of colors (one-dimensional mapping) to the press goal. **Full** corrects for both density and hue (a four-dimensional mapping).

- **Press**—The press standard for which the sample CMYK images were separated (for example, SWOP or Euroscale).

For a description of the information in the section of the page labeled "RGB using Color Rendering Dictionary," see page 6-15.

You can also create your own comparison page. To do this, create a PostScript or EPS (Encapsulated PostScript) file and name it Calib.eps. Use Fiery Downloader to download the Calib.eps file to the Hold queue of the Fiery XJ.

TO TEST AND APPLY A SIMULATION:

    1. **In the Simulation Mode window, click Test Simulation.**
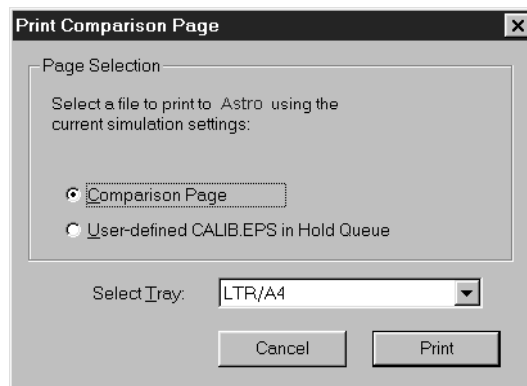
2. Select a page and choose a paper tray.

3. Click Print.

4. When you have visually verified that the test page displays appropriate colors, click Set Default Simulation.

5. Select the simulation to set as the default.

   The default simulation is used when users select the Printer's Default setting for the CMYK Simulation print option. Users can choose a different simulation on a job-by-job basis.

Appendix A: Troubleshooting

This section lists error messages you might see, and provides some troubleshooting guidelines should a problem arise with the Fiery XJ or the Command WorkStation. If you are unable to resolve a problem after referring to this chapter, contact your authorized service/support center.

Error messages

Error messages can result from problems with the print job, the Fiery XJ, the Command WorkStation, or the copier. Some of the most common error conditions are listed here.

A copier error message sometimes remains displayed on the Command WorkStation even after you have resolved the error. A time lag in communicating the resolution of the error to the Command WorkStation may lead you to believe the error has not been resolved. However, printing will resume and the Command WorkStation display will be updated after a short delay.

When an error interferes with printing, you will see a message at the Command WorkStation. The status bar that displays the message indicates the process where the error occurred. Following are the messages (listed in alphabetical order), with the appropriate corrective action for each one. You can cancel the pending print job while you attend to the error condition. A few normal status messages are included in this list in case they cause concern.

Fiery XJ message:	Corrective action/additional information:
Add fuser oil	The copier does not have any fuser oil. Printing will resume when you add fuser oil.
Add staples	The stapler has run out of staples. The job that requires stapling will be finished after you add staples.
Add toner: C/M/Y/K	Add toner of the specified color.

Fiery XJ message:	Corrective action/additional information:
Belt waste toner bottle almost full	This warning message appears on the Fiery XJ Info screen and indicates that you should replace the belt waste toner bottle as soon as possible, although you may continue to print in the meantime.
Broken tray: 1/2/3	There is a problem with the named tray. Make sure that it is present and there is no mechanical problem.
Call for service Error # x-xxx	The system has detected an error that requires a service call. Before calling for service, power cycle the copier and the Fiery XJ. If that does not resolve the error, call your authorized service representative and provide them with the error number that is displayed. Only the service representative can clear this type of error.
Check power & cable	There is a problem with the print engine power or cable connection. First check to make sure that the print engine is turned on. There may also be a problem with the cable connection between the Fiery XJ and the print engine. Make sure that the cable has not come loose. The Fiery XJ will resume printing when the cable is securely connected to both the Fiery XJ and the print engine.
Clearing paper path	This is a normal status message (LCD is solid green), displayed on the Fiery XJ Info screen when the copier is clearing the paper on the race track.
Close copier door	One of the doors on the copier is open. Close the door to resume printing.
Close tray: 1/2/3	One of the trays on the copier is open. Close the tray to resume printing.
Connecting: Press "CM"	If this message is displayed on an Info screen (Fiery XJ LCD is solid green), it is a normal status message indicating that the Fiery XJ is requesting control of the copier. You can either wait for the connection to be made or speed up the connection process by pressing the copier's CM button. If this message is displayed on an Abort screen, you must press the copier's CM button for printing to proceed.
Copier adjustment in progress…	This is a normal status message (LCD is solid green), displayed on the Fiery XJ Info screen when the printer is performing internal adjustments.

Fiery XJ message:	Corrective action/additional information:
Copier is offline	The Suspend Printing option has been selected from the Functions menu. Press Resume Printing in the Functions menu to reconnect the Fiery XJ to the copier.
Disk full	The Fiery XJ disk is almost full. In this state, a new job can only be printed when the oldest printed job is deleted. This is not an efficient way to print, and may lead to delays and printing errors, so you should delete unneeded jobs from the Hold areas in the Queues window (yellow job rows) and held jobs in the Archive window. Also delete unneeded fonts. If these do not work, you can use the Clear Server command.
Empty belt waste toner bottle	Belt waste toner bottle is full. Printing will resume after you empty the belt waste toner bottle.
Empty finisher	You must remove the paper from the finisher before continuing the job.
Empty sorter bins	You must remove the paper from the sorter bins before continuing the job.
Empty waste toner bottle	The waste toner bottle is full. Printing will resume after you replace the waste toner bottle.
Finisher is not ready	The copier's finishing unit is being used in manual mode, or is not connected, or is out of order.
Fuser oil almost empty	This warning message appears on the Fiery XJ Info screen and indicates that you should replace the fuser oil as soon as possible, although you may continue to print in the meantime.
Fuser web almost used up	This warning message appears on the Fiery XJ Info screen and indicates that you should replace the fuser web as soon as possible, although you may continue to print in the meantime.
Idle	This is a normal status message (LCD is solid green). The Fiery XJ is idle, waiting for the next job.
Internal error	An error has been detected by the Fiery XJ system software. In the unlikely event that you see this error, report it to your authorized service representative.
Ld ___ film in bypass	The copier's bypass tray is not loaded with the film size or type specified. The Fiery XJ will print when the bypass tray is loaded with the required film.

Fiery XJ message:	Corrective action/additional information:
Ld ___ in bypass	The copier's bypass tray is not loaded with the paper size or type specified. The Fiery XJ will print when the bypass tray is loaded with the required paper.
Ld ___ in tray ___	The copier's specified tray (1, 2, or 3) is not loaded with the paper size specified. The Fiery XJ will print when the named tray is loaded with the required paper.
Load thick ___ in bypass	The copier's bypass tray is not loaded with the thick paper size specified. The Fiery XJ will print when the bypass tray is loaded with the required thick paper.
Ld ___ transp in bypass	The copier's bypass tray is not loaded with the transparency size specified. The Fiery XJ will print when the bypass tray is loaded with the required transparency.
Low toner: C/M/Y/K	This is a warning message indicating that the toner for one of the colors is running low.
Paper jam	There is a paper jam in the copier. Open the copier doors and check the locations indicated on the copier display. The Fiery XJ will resume printing when you have cleared the paper jam and closed the copier doors.
Printing …	This is a normal status message indicating that printing is in progress.
Recycle copier power	Turn off the copier power switch, then turn it on again.
Re-establishing comm Please wait …	When the Fiery XJ is not communicating with the printer, it displays this message while it tries to connect. An error may have occurred with the copier. See the copier message panel for information.
Replace fuser web	The copier's fuser web is used up. Printing will resume when it is replaced.
Run setup and enter DocuColor key	This message is displayed if your model requires that you enter a security code. Call your authorized service representative and request a valid security code.
Sorter is broken Call for service	The copier's sorter unit is malfunctioning. Call your authorized service representative.

Fiery XJ message:	Corrective action/additional information:
Sorter is not ready	The copier's sorter unit is in use—possibly someone is removing paper from the sort bins. Printing will proceed when the sorter unit is not being used.
Stapler is broken Call for service	The copier's stapler unit is malfunctioning. Call your authorized service representative.
Unknown error	An error occurred with the print engine.
Warming Up …	This is a normal status message. The print engine is powering up. It will be ready for printing in a few minutes.
Waste toner bottle almost full	This warning message appears on the Fiery XJ Info screen and indicates that you should replace the waste toner bottle as soon as possible, although you may continue to print in the meantime.

Maintaining optimal system performance

The Fiery XJ does not require maintenance. Beyond the routine requirements of servicing and maintaining the print engine and replenishing consumables there are a few things you can do to improve the overall performance of your system:

• Reduce unnecessary two-way communication.

  If users notice that the server is frequently too busy to receive jobs, it may be because several users are running utilities that are updated often. Large numbers of remote users running remote utilities or Fiery WebTools may have a significant effect on Fiery XJ performance.

• Schedule the printing workload by checking job ticket information before printing. Print jobs with the same output and paper specifications together to minimize paper changes. Also, print routine jobs while you prepare to print jobs with special instructions or special media.

• Reduce unnecessary server connections at the Command WorkStation. If you use a second or third Fiery XJ server on an occasional basis, performance will be improved if you log off when you are not using it.

• Avoid printing with the server Disk full warning.

If you see this warning, delete jobs from the Queues or Archive windows that have been held for a long time and are not likely to be needed. Avoid this condition by deleting old jobs on a regular basis. The date associated with a job is the original date it was sent.

As a last resort, you can use the Clear Server or the Clear command.

Troubleshooting

In case of problems, and before you call for service, check the guidelines in this section. If you are unable to resolve the problem, make a note of the error condition and contact your authorized service/support center.

Command WorkStation hangs

If the Command WorkStation windows do not update, try clicking the Log in/out slider and logging out, and then exiting the Command WorkStation. Restart the Command WorkStation application or restart the computer.

If the Command WorkStation windows do not update, or no jobs are displayed, and the mouse has no effect (you cannot select a job or a window, use a right mouse command, or select a menu item) the Fiery XJ is down or communication over the network has failed.

To force an exit from the Command WorkStation application, press Ctrl-Alt-Delete, and with the Command WorkStation selected, click End Task. At the Fiery XJ, disconnect and reconnect the network cable, and try printing a Test Page or Configuration page. If that fails, reboot the server.

If the Fiery XJ Control Panel does not respond to the Menu button, press the Reset button, turn off the server and turn it on again. When it reaches Idle, restart the Command WorkStation application.

Command WorkStation fails to connect to a Fiery XJ

If a remote Command WorkStation cannot connect to a server that was connected previously, you may need to reconfigure the connection.

1. **If you can, choose Exit from the Command WorkStation File menu.**

2. **In the C:\Windows folder, find the Efinl.ini file and move it out of the C:\Windows folder to another folder.**

   If the Efinl.ini file contains a limited amount of configuration information that is easily recreated (i.e., information for only one or two servers), you can delete the file altogether. A new Efinl.ini file will be created in the C:\Windows folder when you reconfigure the connection.

   If the Efinl.ini file contains configuration information for several servers, or information that is not readily recreated, keep the Efinl.ini file as a backup.

3. **Print a Configuration page.**

   You will use the information on this page to configure the connection to the server.

4. **Launch the Command WorkStation application.**

5. **When you are prompted to configure a server connection, click OK.**

   Use the instructions in *Getting Started* to configure the connection.

6. **If you still cannot connect to the Fiery XJ, the administrator should reinstall Command WorkStation software.**

   See *Getting Started* for details.

Unexpected printing results

If this happens:	This is the problem:
A cover page is not printed when you reprint a saved raster job.	The cover page identifies the originator of the job and the time the job was sent. Time stamp and user information on the cover page of a reprinted job are not meaningful.
The job settings are not carried out as you expected.	If the user printed from the Mac OS or Windows 3.1x platform, there may be two conflicting print settings. You can check the job properties by double-clicking the job. See the *Printing Guide* for a table of job properties and conflicting properties. Notify the users of these conflicts so they can avoid them in the future. If you expected the settings you see in the Properties window, be aware that the Copies and Collation fields do not currently reflect user settings, and that Page Range and Scale percent are All and 100%, respectively, unless they were changed after being sent for printing.
The job doesn't print.	Some printing errors may be displayed in the Print status bar. When the job is in the Printed queue, jobs that had a PostScript error are displayed in a light red job row. Double-click anywhere in the row to see the error message.
There are font errors.	If user-specified fonts that are not resident on the Fiery XJ are not printing correctly in PostScript files that are downloaded by users, request that they embed the fonts in the PostScript file or print directly from their application. When users print from their applications, if special fonts are not downloaded automatically, they should be downloaded directly to the Fiery XJ with Fiery Downloader. This can be done by the user or by the operator, provided the Direct connection is enabled. For information about Fiery Downloader, see the *Printing Guide*.

Clearing the server

Clearing the server is an Administrator option that can be used as a last resort if a job persists in the system and prevents printing despite attempts to cancel or delete it. Clearing the server deletes all jobs currently saved on the server in any queue and all locally archived jobs. It also clears the Job Log and the index of archived jobs.

Before clearing the server, export the Job Log if you haven't recorded the information in it. If you can, notify users that you will clear their jobs from the server so they can back them up and resend them when the server is back in operation.

You can clear the server from the Control Panel (see page 1-6) or from the Command WorkStation with the Clear command in the Server menu (see page 2-9).

Users are unable to connect to the printer

If users are unable to connect to the printer, or are unable to find the printer from their workstations, the network administrator may need to troubleshoot their network connections, and check settings on the servers they use for printing. If settings have changed, it may be necessary to reconfigure the Fiery XJ.

For example, if print servers or print queues on a Novell server are renamed or deleted, or if accounts or permissions are changed, the Fiery XJ administrator may have to edit settings or enter new settings in IPX (Novell) Setup to reflect the new configuration.

If users cannot connect to the printer with Fiery Downloader from Windows 95 or Windows NT 4.0, you may need to reconfigure the utility's connection to the server. See *Getting Started* for details.

Mac OS users may fail to see the printer if a network administrator has assigned it to a different zone, or has added zones where previously there were none.

If you have configured the Fiery XJ and set up client computers and network servers according to guidelines in the *Configuration Guide* and *Getting Started*, try printing a Test Page (at the Command WorkStation, choose Print Pages from the File menu).

If you are able to print the test page but still can't print a file from a remote computer, contact the system administrator to troubleshoot the network connection.

If you are unable to connect, and you *cannot* print the Test Page, check the copier's touch panel display.

If this happens:	Try this:
It displays a diagnostic or error message.	Take the appropriate corrective action, as described in the copier manual or in the section "Error messages" on page A-1.
The display is completely blank.	Check the copier's Standby function. If the copier is in Standby mode, press the Standby key to see any messages on the display.
The copier is not in Standby mode.	The copier's Automatic Power-Off function may have shut down the copier. Turn the copier on, and then try printing a Test Page again when the copier has warmed up.
You still cannot print a Test Page.	Make a copy. If you can make a copy, restart the Fiery XJ, and when you see Idle on the status line of the Fiery XJ display, try printing a Test Page again. If the Test Page still fails to print, contact your authorized service/support center.

Setup error messages

For information on Setup error messages, see the *Configuration Guide*.

Index

V

View Channels area 7-15
View Measurement icon 6-15
View Measurements option 6-9

W

warning
    "Disk full" A-6
    display window breakage xvii
WebLink WebTool, *see* Fiery WebTools
WebSetup WebTool, *see* Fiery WebTools
WebSpooler, *see* Fiery WebSpooler
WebTools, *see* Fiery WebTools
window selection tabs 2-6, 2-15
workflow scenarios 3-5