Administrator Guide

FIERY XJ BP100

ELECTRONICS FOR IMAGING, INC.

Printed in the United States of America on recycled paper.

Part Number: 45000219

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.
Electronics for Imaging, Inc.

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.
Electronics for Imaging, Inc.

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 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;

b. use the digitally-encoded machine-readable outline and bitmap programs ("Font Programs") provided with Fiery XJ 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 or monitor used with Fiery XJ;

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 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;

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 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 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 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: Setting up Network Servers

Introduction

This manual is intended for anyone who is responsible for integrating the Fiery XJ BP100 Color Server™ into a business environment that includes networked personal computers. After the Fiery XJ and client workstations are set up, as described in this manual and in *Getting Started*, individual users can print to the Fiery XJ as a high-performance color PostScript printer.

NOTE: The term "Fiery XJ" is used to refer to the Fiery XJ BP100 Color Server.

Any connectivity or administrative features specific to the copier are described in *Getting Started*, the *User Guide*, or the *Release Notes*.

About this manual

This manual covers the following topics:

- Basic configuration of the Fiery XJ to support printing over AppleTalk, TCP/IP, and IPX (Novell) networks
- Setting up a parallel port connection
- Configuring Novell and Windows NT servers and UNIX systems to provide Fiery XJ printing services
- Administering network printing
- Using the Fiery XJ in mixed network environments
- Setting up a Token Ring connection

NOTE: The network guidelines in this book are not intended to replace the services of an experienced network engineer.

It is organized as follows:

- Chapter 1 illustrates the supported network configurations and shows the network connectors on the Fiery XJ.
- Chapter 2 describes Fiery XJ configuration (Setup) from the Control Panel.
- Chapter 3 provides guidelines for setting up Windows network servers and UNIX systems for printing to the Fiery XJ.

- Chapter 4 summarizes some administrative features of Fiery XJ software that are available for IPX/SPX, TCP/IP, and AppleTalk networks, and also offers some troubleshooting hints.
- Appendix A describes the Token Ring option.

NOTE: Administrator features described in other manuals are summarized on page 4-1.

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 *Administrator 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 Novell 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. It also explains how to connect each user to the network.
- The *User 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. It also explains how to use the Fiery WebTools and Fiery XJ client utilities to manage jobs and provides troubleshooting information for problems that may arise.
- *Release Notes* provide last-minute product information and workarounds for some of the problems you may encounter.

Network administration features

Fiery XJ software has several important features that affect you as a network or printer administrator:

- **Direct (native) support of NDS (Novell Directory Services) with NetWare 4.x**

  NetWare 4.x can also be supported in bindery emulation.

- **Simultaneous NetWare 4.x and NetWare 3.x connections**

  One NetWare 4.x NDS tree and up to eight NetWare 3.x bindery servers (or NetWare 4.x servers in bindery emulation mode) can be connected to the Fiery XJ.

- **Fiery utilities (Fiery Spooler™ and Fiery Downloader™) for Windows and Mac OS computers**

  The Fiery utilities can be run from Windows 95, Windows NT, and Mac OS computers.

- **Fiery WebTools™ (Status, WebSpooler, and Installer)**

  Fiery WebTools allow you to manage the Fiery XJ from the Internet or from your company's intranet. To use the Fiery WebTools, you need to set certain options in Network Setup and Printer Setup.

- **Job tracking**

  Job Logs can include two user-entered Notes fields.

- **Support for Windows (SMB) printing**

  Windows printing, also known as SMB (Server Message Block) printing, allows you to print on TCP/IP networks using SMB, which is built-in Microsoft networking support, and without additional network software. Printing by this method allows you to print from your computer to a particular print connection (Print or Direct) on the Fiery XJ.

Before you proceed

No two Fiery XJ sites are identical, and the Fiery XJ system can be configured to suit your site's particular requirements for flexibility or control. As the system administrator, you decide the level of network and software access that will be accessible to users. To implement these levels of access, you publish print connections and set passwords.

Before you proceed with installation and setup, make sure you understand the spectrum of access and control possible with the Fiery XJ. Then decide what level is most appropriate for your site.

Levels of access and control

The level of control you implement can range from strict to moderate to minimal, or none. Strictest control might be appropriate for a high-volume printing environment where an administrator or operator controls the job flow and all printing; jobs sent by users are spooled (stored) to the server disk until the operator decides it is time to print them. In addition, only the administrator and/or operator have access to certain software tools.

Least control might be appropriate for a small site where anyone on the local network can control all printing and server functions. Although there may be an administrator or operator charged with certain duties, all users have equal access to the system and its software tools.

When you configure the Fiery XJ by performing Setup, you (the system administrator) implement a particular level of control by enabling (or not enabling) printing connections, passwords, and access to Fiery WebTools.

Fiery XJ print connections

The Fiery XJ supports two print connections: Print queue and Direct connection. These print connections can be enabled, or "published," to users on the network when you configure the server Setup.

Direct connection

The Direct connection transmits jobs directly to the Fiery XJ, but only when the Fiery XJ is ready to print. If the Fiery XJ is busy, the job remains at the user workstation until the Fiery XJ is ready. It is then processed as soon as the prior job is finished and before the next queued job is processed.

Jobs sent to the Direct connection are not stored on the Fiery XJ hard disk and do not appear in the display of current jobs seen from Fiery Spooler or Fiery WebSpooler; therefore the Direct connection provides a measure of security for sensitive files. Jobs sent to the Direct connection *do* appear in the Job Log, for accounting purposes.

NOTE: To use the Fiery utilities, including downloading fonts with Fiery Downloader, you must publish the Direct connection.

Print queue

If you publish the Print queue, jobs sent to it are processed and printed in the order they are received. Jobs prioritized by an operator at Fiery Spooler or Fiery WebSpooler or jobs sent via the Direct connection can take priority over jobs sent to the Print queue.

Passwords

You can implement password requirements as a means of controlling access to Fiery XJ functions. The Fiery XJ allows for the Administrator password to be set from the Control Panel.

NOTE: By default, *no* passwords are set on the Fiery XJ. If you do not specifically set passwords, all users will have administrator privileges, which include access to important functions such as Setup (including setting passwords), calibration, and job control. It is *strongly recommended* that you set *at least* an Administrator password to protect the server from random or accidental changes to Setup.

Administrator password privileges

Administrator control, which confers control of Setup, is the highest level of control, since the person who has access to Setup can control the printing and job management environment. Administrator privileges include publishing print connections, setting passwords, deleting fonts, and clearing the server of all job data.

Guest privileges (No password)

No password is needed for a user to log in as a Guest from Fiery Spooler or Fiery WebSpooler. A Guest can view the status of active jobs but cannot make changes to jobs or to the server's state (for example, calibration).

Fiery WebTools

The Fiery XJ can support Internet or intranet access with Fiery WebTools from Windows 95, Windows NT 4.0, and Mac OS computers. To enable use of Fiery WebTools, you must do the following in Setup:

- Set Enable TCP/IP to Yes.
- Set an IP address for the Fiery XJ.
- Set a subnet mask.
- Enter a TCP/IP gateway address.
- Set Enable Web Services to Yes.

Fiery WebTools include Status, WebSpooler, and Installer.

Status

The Status WebTool provides you with current information on the jobs processing and printing on the Fiery XJ. It is not affected by any password setting. For more information, see the *User Guide*.

WebSpooler

The WebSpooler allows remote users to preview, manipulate, reorder, reprint, and delete jobs currently spooling, processing, or printing on the Fiery XJ. It also allows the administrator to view, print, or delete the Job Log.

Installer

The Installer WebTool allows users to download printer files installers directly from the server. It is not affected by any password setting. For more information, see *Getting Started*.

Control level scenarios

Typical scenarios of access and control, ranging from least control to strictest control, are described below. Choose the scenario that best matches your site requirements, and then refer to the corresponding number for guidance on how to configure your system for those requirements.

NOTE: It is *strongly recommended* that you set *at least* an Administrator password to prevent unauthorized changes to system settings.

1. **(Least control—*not recommended*) No designated administrator or operator**

   All users have equal access to all system functions including Setup, clearing the server, deleting printer fonts, setting the WebLink destination, performing calibration, printing to all three Fiery XJ print connections, and managing all jobs from remote workstations.

2. **A designated administrator**

   Only an administrator can perform Setup and other administrator functions, but all other system functions are accessible to all users, including performing calibration, printing to all three Fiery XJ print connections, and managing all jobs from remote workstations.

3. **(Strictest control) A designated administrator and a designated operator, no Fiery WebTool access**

   Only an administrator can perform Setup, and only an operator or administrator can perform calibration and control jobs from a remote workstation; users can print to the Print queue, but not to the Direct connection; the operator controls all job flow, but jobs sent to the Print queue may not require operator intervention; no access to Fiery WebTools.

Use these settings:	1 (Least)	2	3 (Strictest)
Enable Direct connection in Setup	√	√	
Enable Print queue in Setup	√	√	√
Enable Web Services in Setup	√	√	
Set an Administrator Password in Setup		√	√

Chapter 1: Connecting to the Network

This chapter summarizes the stages in setting up the Fiery XJ BP100 Color Server, and includes diagrams that refer you to other chapters or other manuals for completing your installation. If you check those references, you should be able to find the information you need quickly.

Fiery XJ on the network

When the Fiery XJ is connected to a network, it behaves as a networked PostScript printer. The built-in Ethernet interface on the Fiery XJ supports the following network protocols:

- AppleTalk
- TCP/IP (the lpd, nbt, and http protocols)

  TCP/IP stands for Transmission Control Protocol/Internet Protocol. The lpd protocol is the standard TCP/IP printing protocol. The nbt protocol supports Windows (SMB) printing. The http protocol is commonly used for Web pages on the Internet and on intranets.
- IPX/SPX (Novell)

  IPX/SPX stands for Internetwork Packet Exchange/Sequenced Packet Exchange.

These protocols (rules that enable computers on a network to communicate with each other) are supported on the Mac OS, Windows, and UNIX platforms and can run concurrently on the same cable. Workstations that use other protocols can print through a server that uses one of the protocols mentioned, or they can print to the Fiery XJ parallel port. A Token Ring option is also available. This option supports the TCP/IP and IPX/SPX protocols. The Fiery XJ is auto-sensing, and can handle all of these connections simultaneously.

When you add the Fiery XJ to a network, it is assumed that a network administrator has already installed a network cabling system and connected workstations and servers.

Stages of installation on the network

Installation can be performed by a network or printing administrator. The stages of a successful installation are:

- **Physically connecting the Fiery XJ to a functioning network**

  Prepare a network node for the Fiery XJ—obtain cable and route it to the location where the Fiery XJ will be installed (near the copier) and attach the cable to the network interface of the Fiery XJ. See page 1-11 for details.

- **Configuring the network server**

  When network servers are required, you need to configure those servers to provide client access to the Fiery XJ as a color PostScript printer. See Chapter 3 for information on configuring network servers in Windows and UNIX network environments.

- **Setting up the Fiery XJ**

  Configure the Fiery XJ for your particular printing and network environment. First read "Before you proceed" in the Introduction, and then see Chapter 2 for details.

- **Preparing client workstations for printing**

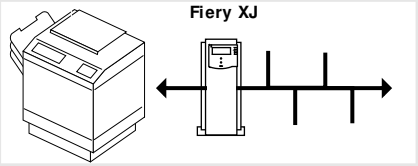
  Install the files needed for printing, install additional user software, and connect the client to the Fiery XJ over the network. These steps are described in *Getting Started*, and some information is provided in Chapter 3 of this manual.

- **Administering the Fiery XJ**

  Monitor and maintain system performance and troubleshoot problems that arise. See Chapter 4 and the *User Guide* for details.

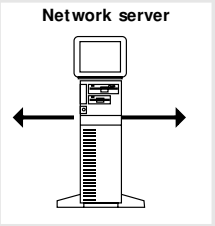
Summary of Fiery XJ network installation

CONNECTION



Prepare a network node. Connect the Fiery XJ to the printer and to the network.

SERVER CONFIGURATION

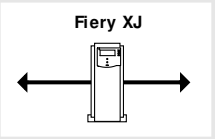


Configure UNIX, Windows NT and IPX (Novell) servers to specify Fiery XJ print queues and Fiery XJ users.

Install Fiery XJ remote utilities on the server.

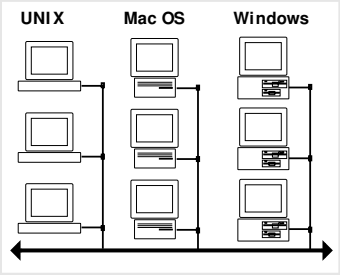
No special configuration of AppleShare servers is required.

COLOR SERVER SETUP



From the Fiery XJ Control Panel, perform Server Setup, Network Setup, Printer Setup and Job Log Setup. Set up the Fiery XJ for all active protocols.

CLIENT SETUP



At each workstation that will print to the Fiery XJ:

- Install the PostScript printer driver and the Fiery XJ PostScript printer description file (PPD), and connect to one or more queues.
- For computers that will use them, install Fiery XJ remote utilities and optional user software.
- Verify the Fiery XJ in the list of printers and run a test print.

Fiery XJ available on the network

Quick path to installation

The diagrams on the following pages show typical systems that can be used for printing and running Fiery software from remote workstations. Find the page with your preferred platform and network type, and then look up the setup procedures referenced in the "Key to setup" at the top left of each diagram.

The diagrams describe devices that use the supported networking protocols. They are logical diagrams and are not intended to describe the physical arrangement (topology) of devices on the network. A variety of physical arrangements is possible with each logical arrangement. For example, twisted pair Ethernet networks commonly use a star configuration around a hub, rather than a bus arrangement. The design of physical networks is beyond the scope of this manual.

If the network uses more than one protocol or more than one type of workstation, combine the setups listed for each component of your system. Note that multiple protocols (shown in the diagrams as parallel lines) can run on the same cable. A solid connection from the Fiery XJ with an arrow indicates that other supported network types can be operational at the same time.

A Token Ring card is required for connection to a Token Ring network. Token Ring drivers for the card are already built in to the Fiery XJ system software. See Appendix A for information about Token Ring.

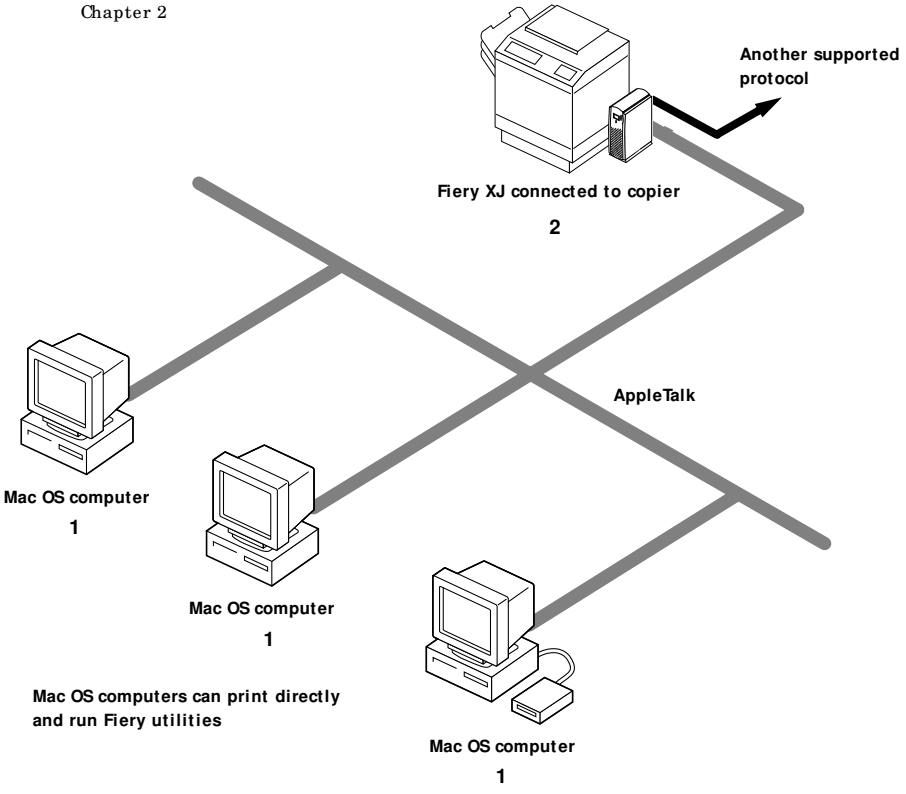
NOTE: The IPX/SPX and TCP/IP functionality outlined in this section is available on both Ethernet and Token Ring networks. AppleTalk is supported on Ethernet only.

The protocols used in these diagrams are indicated as follows:

Mac OS environment with AppleTalk

Key to setup:

1 Mac OS computer	*Getting Started*
2 Fiery XJ Setup	Chapter 2

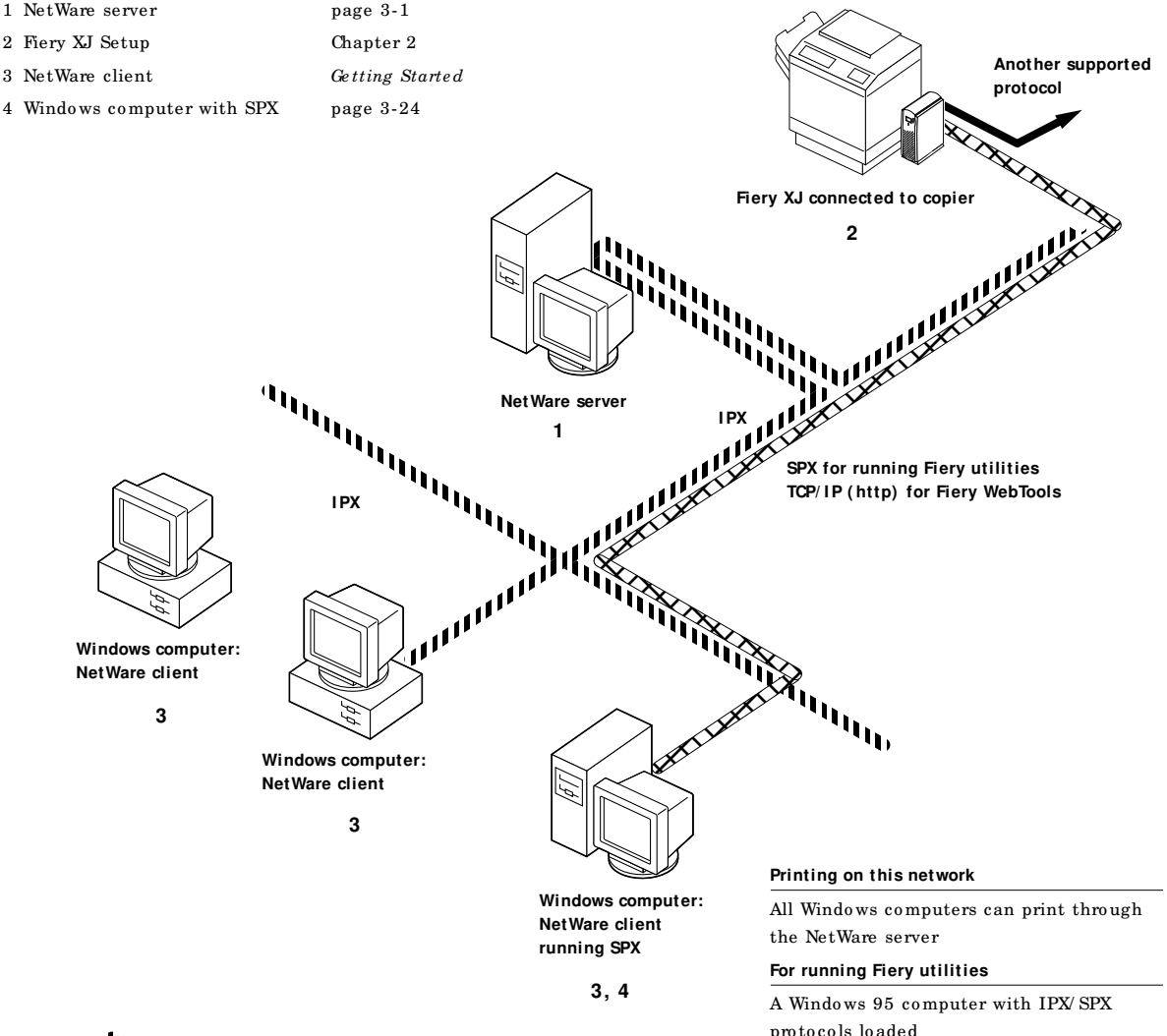


AppleTalk protocol

Windows computers in a Novell environment

Key to setup:

1 NetWare server	page 3-1
2 Fiery XJ Setup	Chapter 2
3 NetWare client	*Getting Started*
4 Windows computer with SPX	page 3-24



Printing on this network

All Windows computers can print through the NetWare server

For running Fiery utilities

A Windows 95 computer with IPX/SPX protocols loaded

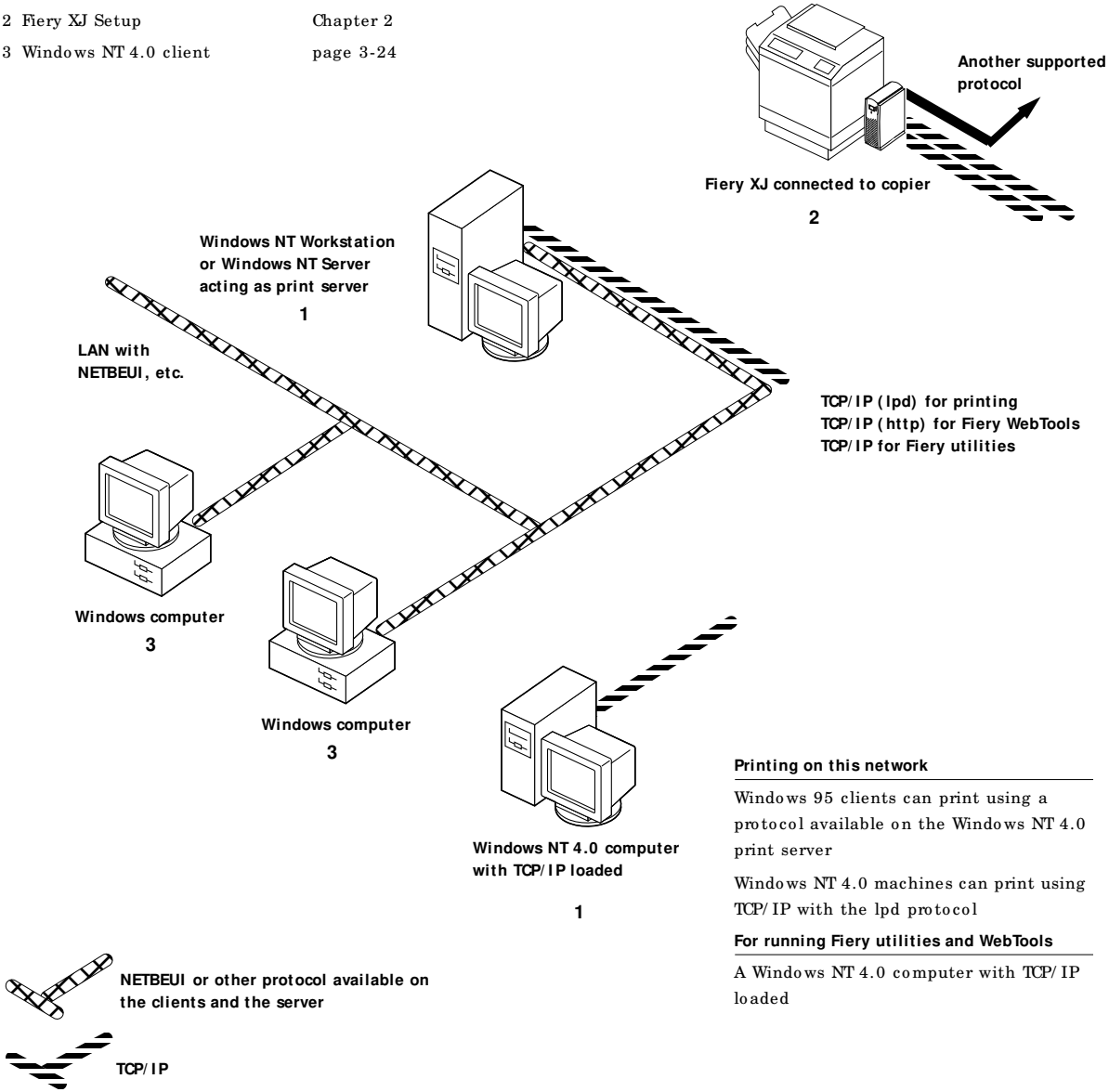
For running Fiery WebTools

A Windows 95 computer with TCP/IP (http) loaded

Windows NT 4.0 Server environment

Key to setup:

1 Windows NT 4.0 Server	page 3-19
2 Fiery XJ Setup	Chapter 2
3 Windows NT 4.0 client	page 3-24



Printing on this network

Windows 95 clients can print using a protocol available on the Windows NT 4.0 print server

Windows NT 4.0 machines can print using TCP/IP with the lpd protocol

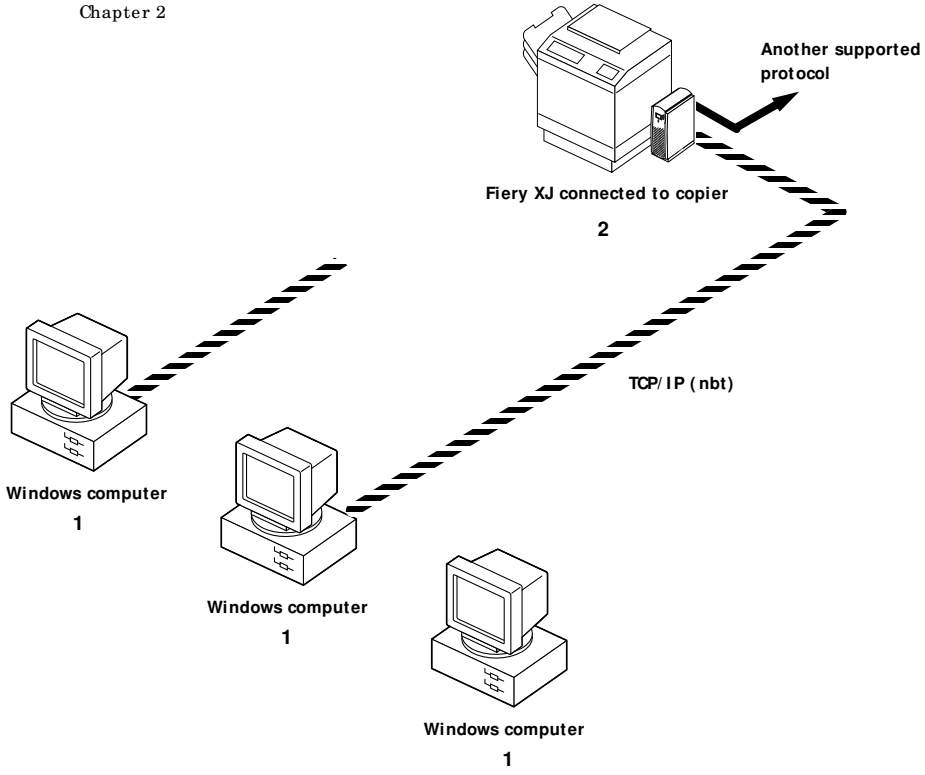
For running Fiery utilities and WebTools

A Windows NT 4.0 computer with TCP/IP loaded

Windows computers using Windows printing

Key to setup:

1 Windows computer	*Getting Started*
2 Fiery XJ Setup	Chapter 2



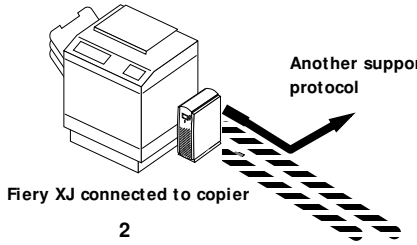
For Windows printing
Windows computers
Windows (SMB) printing enabled

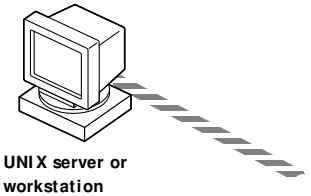
TCP/IP (nbt) protocol

UNIX workstations and Windows NT 4.0 computers on a TCP/IP network

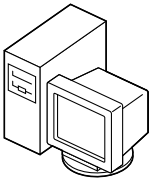
Key to setup:

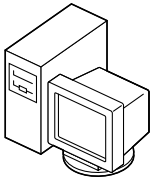
1 UNIX server/host	page 3-27
2 Fiery XJ Setup	Chapter 2
3 UNIX workstation	page 3-28
4 TCP/IP client	*Getting Started*, page 3-24
5 Windows NT 4.0 client	page 3-24





TCP/IP (lpd and http)





Printing on this network

UNIX workstations with the TCP/IP (lpd) protocol can print directly and act as host for shared printing

TCP/IP clients can print through UNIX server or directly; requires TCP/IP and the lpr print service loaded

For running Fiery utilities

Requires Windows NT 4.0 computer on same network with TCP/IP loaded

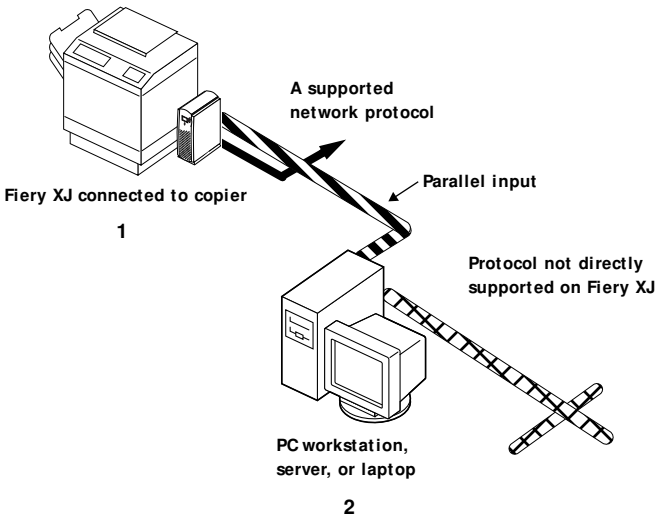
For running Fiery WebTools

Requires Windows or Mac OS computer on same network with TCP/IP loaded

Fiery XJ parallel port connection

Key to setup:

1 Fiery XJ Setup	Chapter 2
2 Windows computer	*User Guide*



With the parallel port enabled, the Fiery XJ can accept and print jobs sent to its parallel port.

The rest of this chapter and the next chapter describe the parts of an installation that are performed on the Fiery XJ itself. This chapter describes the physical network connections. Chapter 2 summarizes Fiery XJ Setup and other administrative functions available from the Control Panel.

Before you begin

The following steps should be completed before you configure the Fiery XJ and the workstations that will print to the Fiery XJ. A service technician will have performed some initial installation.

TO PREPARE FOR FIERY XJ CONFIGURATION:

1. **Print a copier test page to make sure the copier is functioning normally.**
2. **Turn off the copier and connect the interface cable from the copier to the Fiery XJ.**
3. **To confirm this connection, turn on the copier and the Fiery XJ and print a Test Page from the Control Panel.**

   To print a Test Page, press the Menu button on the Control Panel to display the Functions menu. (See "Fiery XJ Setup from the Control Panel" on page 2-2.) Choose Print Pages, and then Test Page.
4. **With both the copier and the Fiery XJ turned off, connect the network cable to the Fiery XJ, as described in the next section.**

   The network should already be installed and operational.
5. **Turn on the copier and then the Fiery XJ.**
6. **Prepare network servers to share Fiery XJ user software and to enable networked users to print to the Fiery XJ, and proceed to Setup.**

   See Chapters 2 and 3 for details.

Ethernet cable connection

The Fiery XJ supports Ethernet cabling of three types:

- Thinnet (thin coaxial Ethernet cable or 10Base2)

  Uses an external transceiver to attach to the AUI (Attachment Unit Interface) connector on the Ethernet interface of the Fiery XJ.

- Thicknet (thick coaxial Ethernet cable or 10Base5)

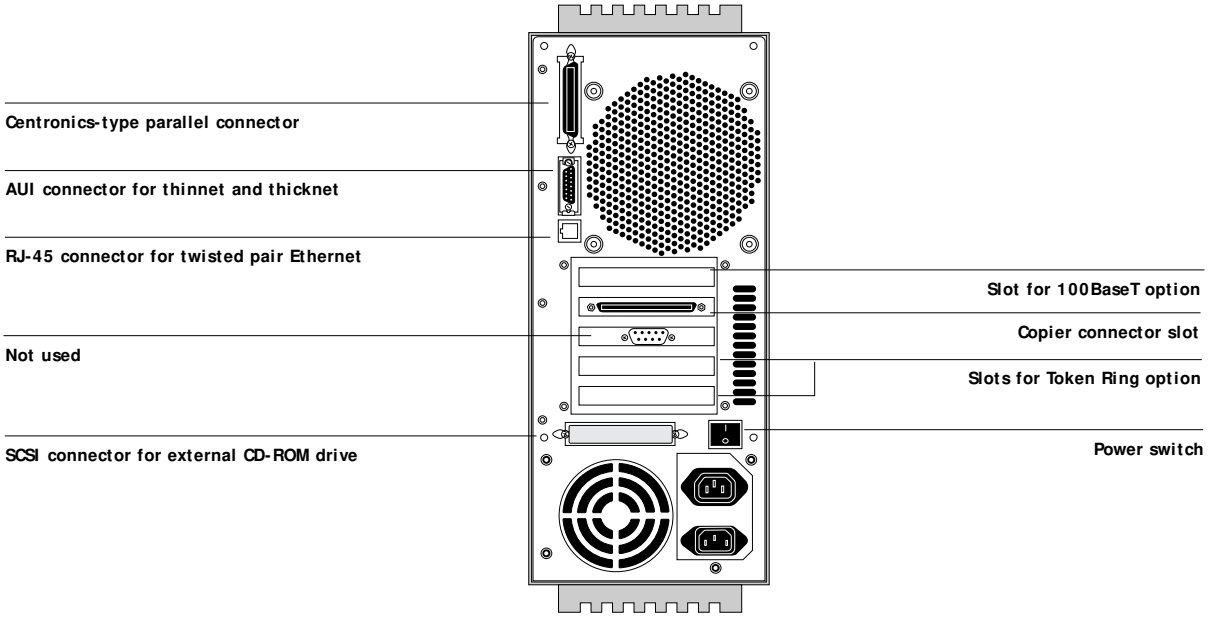
  Connects directly to the AUI connector on the Ethernet interface of the Fiery XJ.

- Unshielded Twisted Pair (UTP) defined as Category 5 for use with 100BaseT, or as Category 3 or Category 5 for use with 10BaseT.

  Uses an 8-pin RJ-45 connector that plugs into the RJ-45 socket on the Fiery XJ.

NOTE: The 100BaseT type supported by the Fiery XJ is 100BaseTX, also known as Fast Ethernet. If an Ethernet hub is used, it must be a 100BaseTX hub.The term "100BaseT" is used to refer to 100BaseTX.

Back view of the Fiery XJ



Shut down the Fiery XJ before attaching it to any network device. Do not attach cables to more than one Ethernet connector; only one Ethernet connection can be made at any one time.

If the Token Ring option is installed, you can attach a cable to the RJ-45 connector on the Token Ring board and attach a second cable, for an Ethernet connection, to the motherboard. For more information on Token Ring, see Appendix A.

TO USE THINNET CABLE:

1. **With the Fiery XJ turned off, connect the transceiver to the AUI connector on the back of the Fiery XJ. Slide the latch to lock the transceiver connection.**
2. **Connect the thinnet cable to the BNC connector on the transceiver.**

   NOTE: If the external transceiver has an SQE switch, make sure the switch is set to OFF. It should be set to OFF at all times. The functions controlled by the SQE switch are not required for use with the Fiery XJ.
3. **Configure network servers for printing and then proceed to Setup.**

TO USE THICKNET CABLE:

1. **With the Fiery XJ turned off, connect the thicknet cable connector to the AUI connector on the back of the Fiery XJ. Slide the latch to lock the connector.**
2. **Configure network servers for printing and then proceed to Setup.**

TO USE UTP CABLE FOR 100BASET OR 10BASET:

1. **With the Fiery XJ turned off, connect the RJ-45 cable connector to the Ethernet RJ-45 socket on the back of the Fiery XJ.**
2. **Configure network servers for printing and then proceed to Setup.**

   NOTE: 100BaseT is available as an option. Contact your authorized Fiery XJ dealer for more information.

Parallel cable connection

In addition to receiving print jobs over Ethernet and Token Ring, the Fiery XJ can accept print jobs from a Windows computer through its high-speed parallel port. This connection is advantageous for portable computers and for workstations on dedicated networks using protocols other than AppleTalk, TCP/IP, or IPX.

The parallel port connection can be active at the same time as the network ports.

NOTE: The parallel port cannot be used to connect the Fiery XJ with Fiery utilities.

TO USE PARALLEL CABLE:

1. **With the Fiery XJ and the Windows computer turned off, attach the parallel cable to the parallel port of the Fiery XJ.**

   See the illustration on page 1-13 for the location of the parallel port.

2. **Connect the other end of the cable to the parallel port on the Windows computer.**

3. **Turn on the computer and the Fiery XJ.**

4. **Proceed to Setup.**

   NOTE: Use only the parallel cable supplied with your Fiery XJ.

   To print to the parallel port, you need to set up the parallel port connection. See "Parallel Port Setup options" on page 2-14. For information on setting up printing, see *Getting Started*; for printing to the parallel port, see the *User Guide*.

Chapter 2: Performing Setup from the Control Panel

The Fiery XJ BP100 Color Server fits into a variety of work environments. To prepare for printing at your site, you need to do some initial configuration to specify the network environment and the kind of printing you will do.

About Fiery XJ Setup

Setup is required the first time the Fiery XJ is turned on after new system software is loaded. In this initial Setup, you (or the service technician who loads the software) choose the language you want to use for Control Panel screens.

Initial Setup from the Control Panel

In initial Setup, you must configure at least Server Setup, Network Setup, and Printer Setup, in that order, from the Control Panel.

If you don't configure the remaining Setups, the Fiery XJ uses default settings. These defaults allow the Fiery XJ to reach the Idle state, but might not allow users to print to the Fiery XJ. You need to make settings appropriate for the printing environment at your site.

Network server setup requirements

On NetWare or Windows NT 4.0 networks, the network servers must be configured for printing to the Fiery XJ *before* you enter network settings on the Fiery XJ. The diagrams on pages 1-4 through 1-9 give chapter references for network server setup.

You need a live network connection so that the Fiery XJ can query the network for zones, servers, and server-based queues.

Whenever the configuration of servers, printers, or the network itself changes at your site, you can alter individual settings to correspond to the changed environment. Likewise, if printing needs or administrative requirements change, you can alter the corresponding settings.

NOTE: Changing network or port settings may require that you make changes in more than one Setup menu.

Fiery XJ Setup from the Control Panel

Setup, performed from the Control Panel right after powering on or rebooting the Fiery XJ, configures the Fiery XJ to communicate with other devices and manage print jobs sent to it.

There are six groups of Setup options:

- Server Setup to specify system options
- Network Setup to specify all the active network systems that will transmit print jobs to the Fiery XJ
- Printer Setup to specify the way print jobs and queues are managed
- PS Setup to specify PostScript settings
- Color Setup to specify color settings
- Job Log Setup to specify how the Fiery XJ handles its log of printed jobs

Other Setup options allow you to calibrate the Fiery XJ, to create and change an administrator password, and to clear the jobs queued on the Fiery XJ.

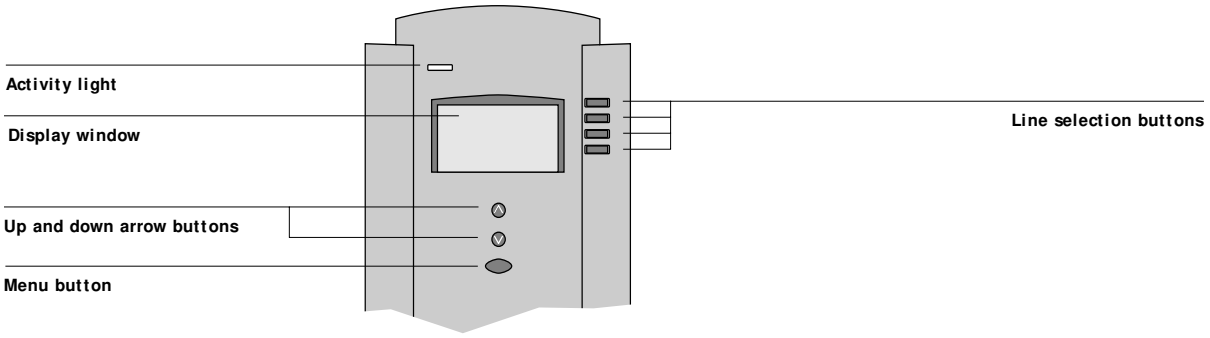
Accessing Setup options

The Control Panel on the front of the Fiery XJ enables you to set options and view information about jobs printed to the Fiery XJ.

It comprises the following parts:

- Display window—shows status information and options for setting up the Fiery XJ
- Line selection buttons—select a setting and proceed to the next option
- Up and down buttons
- Menu button (escape key)
- Cancel button
- Activity light—indicates normal or problem activity

Fiery XJ Control Panel



The *User Guide* describes the online display screens in detail. This chapter describes only the screens you might see when performing Setup.

TO ACCESS SETUP WHEN THE FIERY XJ IS AT IDLE:

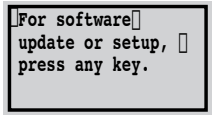
1. **Make sure the information screen on the Control Panel reads Idle.**

   If Printing or Ripping appears, the Fiery XJ is processing, and you must wait until the system finishes and reaches the Idle state.

2. **Press the Menu button on the Control Panel to go to the Functions menu.**

3. **Scroll with the down arrow and press the line selection button next to Reboot Server.**

   After automatic start-up diagnostics, the Fiery XJ displays the setup message screen.

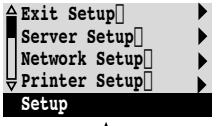


4. **At the setup message, press any key.**

5. **Choose Run Setup to access all Setup menus.**

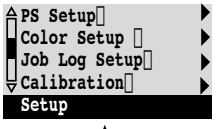
   The Install Software and Format Disk commands are for service technicians.

   If an Administrator password has been set on the Fiery XJ, you are prompted to enter it before you can perform Setup (see page 2-44).



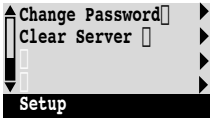
6. **Press the line selection button to choose a Setup menu or command.**

   Press the down button to view the second and third screens of the main Setup menu.



7. **Choose setups in the same order as they appear in the menu: Server Setup, Network Setup, Printer Setup, PS Setup, Color Setup, and then Job Log Setup.**

   The sequence is important for first-time Setup. Later, just go directly to the menu you want to change. However, if you make changes in Network Setup, you may need to change some settings in Printer Setup as well.



8. **Set an Administrator password to protect your Setup from unauthorized alteration.**

TO ACCESS SETUP WHEN THE FIERY XJ IS OFF:

1. **Make sure the Fiery XJ is connected to the copier and to the network you will use.**
2. **Turn on the Fiery XJ.**

   The startup diagnostics are performed.
3. **At the startup message, press any key.**
4. **Continue with step 5 from the previous procedure.**

Review the settings described in this chapter. For more information on calibration and Control Panel screens other than those in Setup, see the *User Guide*.

About the Control Panel Setup interface

When you perform Setup from the Control Panel, you select one menu after another and enter information about your Fiery XJ and your network and printing environment.

In each Setup screen, the last line of the display window tells you the name of the current Setup menu. Most of the menus you see are shown on the Control Panel Map, a flowchart that can be printed from the Control Panel.

TO PRINT THE CONTROL PANEL MAP:

1. **At the Control Panel, press the Menu button to access the Functions menu.**
2. **Press the button for Print Pages.**

   The Control Panel displays the first four types of pages you can print. To see the remaining types of pages, press the down button.
3. **Press the button for Control Panel Map.**

Types of Setup screens

There are two types of Setup options:

Multiple choice questions

You are given choices (for example, Yes or No, or a list of options from which to choose). Only one choice is displayed at a time, in highlighted text. The currently selected (or the default) value appears first.

Use the up and down buttons to scroll through the selections, and choose OK when the correct information is displayed.

Information entry options

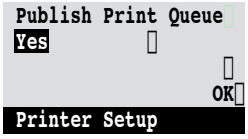
You must specify the information for your site. For example, the printer name or IP address.

In that case, use the up and down buttons to scroll the alphanumeric symbols to make your selection.

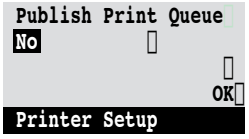
The cursor position is highlighted, and two of the line selection buttons become left and right arrow buttons. Arrows appear on the display window next to the corresponding buttons. Use these buttons to move between positions for entering information.

NOTE: When you enter text, enter it from left to right, as the left arrow button acts as a delete key as well as a cursor-moving key. This is indicated in the display by the delete symbol (⌫).

Example: Multiple choice



Press up or down to display the other option or options.

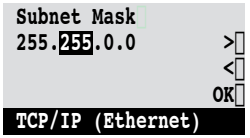


When the setting you want is displayed, press the button beside OK to continue.

Example: Information entry with fields

From the starting position, press the right arrow button to move the cursor to the right.

The next field is selected. Press up or down to change the number.



When the correct number is displayed, press the right arrow button to move to the third field. Press the left arrow button to go back and edit, or press OK to select the choice and continue.

Example: Information entry with individual characters

From the starting position, press up or down to enter the first character.

When the correct character is displayed, press the right arrow button to move the cursor to the next position.

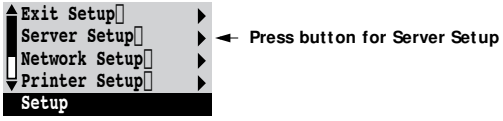
Press up or down to enter a character in the second position.
The delete button erases the current character and moves the cursor to the left.
Pressing OK enters what is currently displayed.

NOTE: If you make a mistake during Setup, you can always use the Menu button to cancel without saving changes. If you are viewing a Setup screen, pressing the Menu button cancels what you are doing in the current screen to bring you to the next higher level menu. You may need to press Menu more than once to return to the top level for the particular Setup procedure with which you are working. Once at the top level, you can enter the current Setup again, or exit without making changes.

When you have entered all the settings or made all the changes you want, you need to save the changes. You are usually prompted to do so. If you choose Yes, your settings overwrite previous settings. If you choose No, your previous settings are retained. If necessary, the Fiery XJ reboots after you exit from the Setup menu.

Server Setup options

The Server Setup menu lets you specify system information that pertains to the Fiery XJ itself and all users. Accessing the menu is described on page 2-2.



When you choose Server Setup, the options appear in sequence, as described below. Default values, where applicable, appear in square brackets. Words shown in italics indicate that a product- or site-specific value is displayed.

Server Name
Default server name

Use this option to give the Fiery XJ a name (up to 10 characters long). This is the name that will appear in the Chooser on an AppleTalk network.

Also enter this name when you configure the connection for Fiery Downloader on IPX/SPX networks (see *Getting Started*).

NOTE: Do not use the device name (r2) as the server name. Also, if you have multiple Fiery XJ servers and give them the same name, a unique number is appended to the name that appears in the list of available servers. Although this routes jobs correctly, it may be inconvenient to users and is not a recommended practice.

System Date

Use this option to change the system date. Enter the date in the standard form for your usage. The date is used on the cover page and in Job Logs.

System Time

Use this option to change the system time. Enter the time based on the 24-hour clock in the form HH:MM (Hours:Minutes). The time is used on the cover page and in Job Logs.

Print Start Page
No/Yes [No]

Use this option to specify whether the Fiery XJ should print a start page every time it is powered on or rebooted. The start page displays information about the Fiery XJ, including the server name, current date and time, printer mode, amount of memory installed in the Fiery XJ, last calibration date, network protocols enabled, and connections published.

Use Character Set
Macintosh/DOS/Windows [Macintosh]

Use this option to specify whether the Control Panel should use the Macintosh, DOS, or Windows character set for displaying filenames. This is important if filenames include accented or composite characters (such as é, ü, or æ).

For mixed-platform networks, choose the option that gives the best overall representation of the special characters you use.

Enable Printed Queue
Yes/No [Yes]

Select Yes if you want to enable the Printed queue, which creates a storage location on the Fiery XJ disk for recent jobs that were printed from the Print queue. Users with Administrator access to Fiery WebSpooler can reprint jobs from the Printed queue without sending them to the Fiery XJ again. If you select No, jobs are deleted from the Fiery XJ disk immediately after they are printed.

Jobs Saved in Printed Queue
1-99 [10]

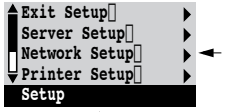
This option appears only if Enable Printed Queue is set to Yes. Specify the number of jobs to be stored in the Printed queue. Note that jobs in the Printed queue take up space on the Fiery XJ hard disk. If disk space is low, use a smaller value for saved jobs.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in the Server Setup; select No to return to the main Setup menu without making any changes.

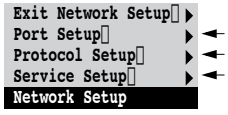
Network Setup options

Network Setup configures the Fiery XJ to receive print jobs over the network systems that will be used at your site.



In the Setup menu, choose Network Setup.

The Network Setup menu includes three submenus that let you choose port types, protocols, and network services. You must perform Port Setup and enable at least one port.



For each item you enable, you are prompted to enter settings for that item. Default values, where applicable, appear in square brackets.

In Network Setup you specify network addresses and names to be used by workstations, servers, and the Fiery XJ when they communicate with each other.

You need to display and select options only for the network systems that are currently used at your site. If your network requirements change, you can change Network Setup at any time.

If the Fiery XJ is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job. When the parallel port and one or two network ports are enabled, print jobs can be received over all of those ports at the same time.

The available network types, and the Setup areas that pertain to them, are summarized in the following tables.

For this Network or Connection Type:	Use this Port Setup:	Use this Protocol Setup:	Use this Service Setup:
AppleTalk over Ethernet	Ethernet Setup	AppleTalk Setup	AppleTalk printing (PAP) is enabled automatically.
TCP/IP over Ethernet	Ethernet Setup	TCP/IP Setup: Ethernet Setup	LPD Setup Web Services Setup Windows Setup
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)
Parallel	Parallel Port Setup	—	—

If the Token Ring option is installed, you have these additional options:

For this Network or Connection Type:	Use this Port Setup:	Use this Protocol Setup:	Use this Service Setup:
TCP/IP over Token Ring	Token Ring Setup	TCP/IP Setup: Token Ring Setup	LPD Setup Web Services Setup Windows Setup
IPX/SPX over Token Ring	Token Ring Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)

TO ACCESS NETWORK SETUP OPTIONS:

1. **Confirm that the network cable is connected to the Fiery XJ.**

   During Network Setup, the Fiery XJ queries the network for zones, servers, and server-based queues. If you perform Network Setup without a connected and functioning network, default settings are used that may not meet your needs.

2. **Choose Network Setup from the main Setup menu.**

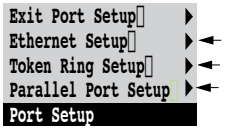
3. Choose Port Setup from the Network Setup menu.
4. To use Ethernet, choose Ethernet Setup from the Port Setup menu, and enter the appropriate settings.
5. If the Token Ring option is installed, choose Token Ring Setup and enter the appropriate settings.
6. To print to the parallel port, choose Parallel Port Setup from the Port Setup menu, and enter the appropriate settings.
7. When you have finished entering port settings, choose Exit Port Setup and then choose Protocol Setup.
8. Enter the appropriate settings for the protocol or protocols you will use.
9. When you have finished entering protocol settings, choose Exit Protocol Setup and then choose Service Setup.
10. Enter the appropriate settings for the services you will use.

The options are described in detail in the following pages.

TO EXIT NETWORK SETUP:

1. When you have finished entering service settings, choose Exit Network Setup.
2. Choose Yes when prompted to save changes.
3. From the main Setup menu, choose another Setup or choose Exit Setup.

Port Setup options



You can enable Ethernet and parallel communication simultaneously. If the Token Ring option is installed, you can also enable Token Ring. To configure the Fiery XJ, choose each port type you use and enter the settings for that port. Since network setups are nested, the names of higher-level menus are shown in this chapter to the left of each menu heading.

Network Setup ▶
Port Setup ▶

Ethernet Setup

Enable Ethernet
Yes/No [Yes]

Select Yes if you have Ethernet cabling connected to the Fiery XJ.

Ethernet Speed
Auto Detect/100 Mbps/10 Mbps [Auto Detect]

The Ethernet Speed options appear only if the 100BaseT option is installed.

Select Auto Detect if your network environment is mixed, or if you do not know the network speed. If you know the speed of the network to which the Fiery XJ is attached (10 Mbps or 100 Mbps), select it.

Network Setup ▶
Port Setup ▶

Token Ring Setup

Enable Token Ring
Yes/No [No]

Select Yes if the Fiery XJ is to be connected to a Token Ring network.

Maximum Frame Size
(bytes)
4202/2154/1130/632 [4202]

Select the maximum frame size recommended by the network administrator at your site. If you are uncertain of the setting to use, select the default value (4202).

Enable Source Routing
Yes/No [Yes]

Select Yes if your network supports source routing.

Source Routing
Request All Route
Yes/No [Yes]

This option appears only if you enabled Source Routing. Select Yes if you want the Request packet to travel to its destination by all routes.

Source Routing
Respond All Route
Yes/No [No]

This option appears only if you answered No to the previous option. Select Yes if you want the Response packet to return by all routes to the originating computer.

Parallel Port Setup options

You must enable the parallel port in order to enter the Parallel Port Setup options and print to the parallel port.

Network Setup ▶
Port Setup ▶

Parallel Port Setup

Enable Parallel Port
No/Yes [No]

Select Yes if you want to print through the parallel port. You can connect a single Windows computer to the parallel port and print directly to the Fiery XJ.

NOTE: Enabling the parallel port does not conflict with using Ethernet or Token Ring communication with the Fiery XJ.

Port Timeout in Seconds
5-60 [5]

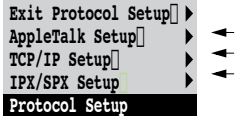
This option appears only if Enable Parallel Port is set to Yes. Your setting determines how long the Fiery XJ waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery XJ cannot receive new jobs through the parallel port, but it can continue to receive network print jobs.

Ignore EOF Character
Yes/No [Yes]

This option appears only if Enable Parallel Port is set to Yes. This option specifies that the Fiery XJ should ignore end-of-file (EOF) messages in a file. This option must be set to Yes to print PostScript files in binary format (not ASCII). When this option is set to Yes, the Fiery XJ uses the parallel port timeout value to determine when the end of the file has been reached. If you experience printing problems, set this option to No.

When you have configured the port options, choose another port type, or choose Exit Port Setup and proceed to Protocol Setup.

Protocol Setup options



To configure the Fiery XJ, choose each protocol and enter the settings for that protocol. You can enable AppleTalk, TCP/IP, and IPX/SPX communication simultaneously.

Network Setup ▶
Protocol Setup ▶

AppleTalk Setup

Enable AppleTalk
Yes/No [Yes]

Select Yes if you have an AppleTalk network connected to the Fiery XJ. This setting enables the Fiery XJ to communicate over AppleTalk networks.

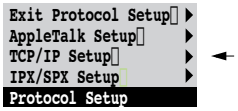
AppleTalk Zone

List of zones

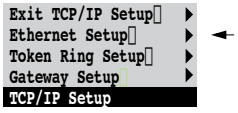
The Fiery XJ searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the Fiery XJ to appear. If your segment has only one zone, the Fiery XJ is assigned to that zone automatically.

The message "No AppleTalk zone found" may mean your network has no zones, or the network cable is not connected (see page 4-4). Choose OK.

TCP/IP Setup options



To configure the Fiery XJ for TCP/IP, choose TCP/IP Setup.



Choose Ethernet Setup and enter the appropriate settings. Choose each network type you use (Ethernet and/or Token Ring) and enter the appropriate settings. Token Ring Setup appears as an option only if you have enabled Token Ring in Port Setup. If your network uses a gateway, enter the gateway address in Gateway Setup.

NOTE: If TCP/IP is running on *both* an Ethernet and a Token Ring network, it is assumed that the two networks are already routed to each other. The Fiery XJ does not function as a router.

TCP/IP Setup with Ethernet

Network Setup ▶
Protocol Setup ▶
TCP/IP Setup ▶

Ethernet Setup

Enable TCP/IP for Ethernet
Yes/No [No]

Select Yes if you have a TCP/IP network connected to the Fiery XJ over Ethernet cabling.

If you use Token Ring, enabling TCP/IP for Token Ring is required for enabling the Fiery WebTools.

NOTE: If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from Windows NT 4.0 workstations using TCP/IP protocols. At the same time, enabling TCP/IP enables the network layer that lets you use Fiery utilities from Windows 95 computers using IPX/SPX protocols.

IP Address
[127.0.0.1]

Enter the Fiery XJ IP address for Ethernet. The Fiery XJ is shipped with the IP address set to the loopback address, which is an internal address used for network checking. If you plan to print with TCP/IP, you must first assign the Fiery XJ a unique network IP address. For information about setting up printing with TCP/IP, see Chapter 3.

Subnet Mask
[255.255.255.0]

This option lets you modify the subnet mask for printing with TCP/IP over Ethernet. The subnet mask is set to 255.255.255.0 by default. If you set the IP address and you need to set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Be sure to confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

TCP/IP Setup with Token Ring

Enable TCP/IP for Token Ring, and enter the IP address and subnet mask. Then, if your TCP/IP network has a gateway, and users outside the gateway plan to print to the Fiery XJ using TCP/IP, choose Gateway Setup and enter the gateway address (see page 2-19).

Network Setup ▶
Protocol Setup ▶
TCP/IP Setup ▶

Token Ring Setup

Enable TCP/IP for Token Ring
Yes/No [No]

Select Yes if you have a TCP/IP network connected to the Fiery XJ over Token Ring.

If you use Token Ring, enabling TCP/IP for Token Ring is required for enabling the Fiery WebTools.

NOTE: If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also lets you use the Fiery utilities from Windows NT 4.0 workstations using TCP/IP protocols. At the same time, enabling TCP/IP enables the network layer that lets you use the Fiery utilities from Windows 95 computers using IPX/SPX protocols.

IP Address
[127.0.0.1]

Enter the Fiery XJ IP address for Token Ring. The Fiery XJ is shipped with the IP address set to the loopback address, which is an internal address used for network checking. If you plan to print with TCP/IP, you must first assign the Fiery XJ a unique network IP address. For information about setting up printing with TCP/IP, see Chapter 3.

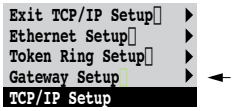
Subnet Mask
[255.255.255.0]

This option lets you modify the subnet mask for printing with TCP/IP over Token Ring. The subnet mask is set to 255.255.255.0 by default. If you set the IP address and you need to set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Be sure to confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

Gateway



If your TCP/IP network has a gateway, and users outside the gateway plan to print to the Fiery XJ using TCP/IP, choose Gateway Setup and enter the gateway address here.

The gateway address applies to either a Token Ring or an Ethernet network. If TCP/IP is running on *both* an Ethernet and a Token Ring network, the gateway address you enter must be in the same subnet as either the Ethernet or the Token Ring address.

Network Setup ▶
Protocol Setup ▶
TCP/IP Setup ▶

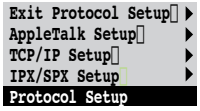
Gateway Setup

Gateway Address
[127.0.0.1]

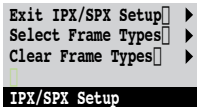
Use this option to set the gateway address for printing with TCP/IP. By default, the loopback address, 127.0.0.1, is set. (The loopback address is a specially reserved address that allows for certain TCP/IP diagnostic tests to be run without being connected to a network.)

After setting the gateway address, proceed to setup Token Ring, if applicable, or choose Exit TCP/IP Setup and proceed to Service Setup.

IPX/SPX Setup options



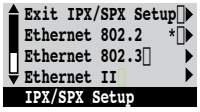
To configure the Fiery XJ for IPX/SPX protocols, choose IPX/SPX Setup from the Protocol Setup menu.



Select Frame Types

Choose Select Frame Types. You must choose at least one frame type to enable IPX/SPX protocols. The Fiery XJ supports the following frame types for IPX/SPX:

- for Ethernet—Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP
- for Token Ring—Token Ring and Token Ring SNAP



The frame selection screen allows you to make multiple selections. Depending on your Port Setup selection, only Ethernet frame types, only Token Ring frame types, or all frame types are displayed. Press the line selection button beside each frame type used on your IPX/SPX network. An asterisk (*) appears beside each selected frame type. (Press the line selection button again to deselect a frame type.) Use the up and down buttons to scroll to additional frame types. The Fiery XJ binds to each frame type as you select it.

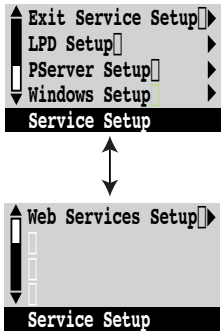
When you have selected all the frame types used, choose Exit IPX/SPX Setup.

Clear Frame Types

If you selected several frame types by mistake, you can clear them all at once by choosing Exit IPX/SPX Setup, then choosing IPX/SPX Setup and selecting Clear Frame Types.

For protocols other than IPX/SPX, the frame type is automatically enabled and does not require setup, as follows:

With this protocol:	And these printing services:	This frame type is automatically enabled:
AppleTalk	PAP (Printer Access Protocol)	Ethernet SNAP
TCP/IP with Ethernet	LPD (Line Printer Daemon)	Ethernet II
TCP/IP with Token Ring	LPD (Line Printer Daemon)	Token Ring SNAP



Service Setup options

Network Service Setup has options for TCP/IP and IPX/SPX networks.

- LPD Setup enables lpd printing on TCP/IP networks.
- For IPX/SPX networks, PServer Setup allows you to enter the names of the Novell objects that are concerned with Fiery XJ print jobs.
- Windows Setup enables the Microsoft SMB (Server Message Block) protocol, which supports peer-to-peer printing, also known as Windows printing or SMB printing.
- Web Services Setup enables the http protocol and, therefore, use of the Fiery WebTools.

PServer is a program in the Fiery XJ that can service the Novell print queues assigned to the Novell print servers you have set up for printing to the Fiery XJ. When you choose PServer Setup and enable PServer, you can set up NDS (Novell Directory Services), Bindery Services, or both. NDS is used with NetWare 4.x; Bindery Services are used with NetWare 3.x or with NetWare 4.x in bindery emulation mode.

NOTE: Due to the number of options involved, PServer Setup is discussed last in this section, after Web Services Setup.

LPD Setup options

Network Setup ▶
Service Setup ▶
LPD Setup ▶

Enable LPD
Yes/No [Yes]

Select Yes to allow lpd printing. See "Setting up the Fiery XJ on TCP/IP networks" on page 3-29 for more information.

Windows Setup options

Network Setup ▶
Service Setup ▶
Windows Setup ▶

Enable Windows Printing

Yes/No [No]

Enabling Windows Printing enables SMB (Server Message Block), the built-in file and printer sharing protocol built into Windows. Enabling SMB allows the Fiery XJ to be listed on the network so that Windows clients can print to a particular print connection (Print or Direct) on the Fiery XJ without any other networking software. For information on how to set up a Windows computer for Windows printing, see *Getting Started*. Windows printing runs via TCP/IP, so TCP/IP must be configured on the Fiery XJ and on all workstations that use Windows printing.

Use WINS Name Server
Yes/No [No]

Broadcasts from SMB devices cannot be routed without a WINS name server. Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

WINS IP Address
[127.0.0.1]

This option appears only if you choose Yes for WINS Name Server. The address is set to the loopback address. Replace this with the correct IP address for the WINS Name Server. Obtain the correct address from your network administrator.

Server Name
Default Name

The server name is the name that will appear on the network for accessing the Fiery XJ via SMB. The default name is the same as the server name assigned in Server Setup (see page 2-8).

Server Comments

Server comments (optional) can contain information about the printer.

Workgroup or Domain

Enter the workgroup or domain you want the Fiery XJ to appear in.

Web Services Setup

Network Setup ▶
Service Setup ▶
Web Services Setup ▶

Enable Web Services
Yes/No [No]

Select Yes if TCP/IP is enabled on the Fiery XJ and on user workstations, and you wish to make the Fiery WebTools available to users (see page 3-26). The Fiery WebTools include:

- Fiery WebSpooler
- Status
- Installer

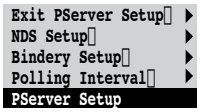
A Java-enabled Web browser and a valid IP address are required for each user. See *Getting Started* for details on browser choice and workstation requirements.

PServer Setup options

Network Setup ▶
Service Setup ▶
PServer Setup ▶

Enable PServer
Yes/No [No]

Select Yes if you have a Novell network connected to the Fiery XJ.



Choose NDS Setup if your network uses NetWare 4.x in native mode. Choose Bindery Setup if your network uses NetWare 3.x or uses NetWare 4.x in bindery emulation mode.

If your network uses *both* NDS and Bindery, set up NDS first. Setting up NDS after Bindery will overwrite Bindery Setup.

If your network uses both NDS and Bindery, and uses NetWare 4.x servers in bindery emulation, note that the Fiery XJ cannot service NDS and bindery emulation servers on the same NDS tree.

Network Setup ▸
Service Setup ▸
PServer Setup ▸

NDS Setup

Before entering NDS settings, be sure the Fiery XJ is connected to the network and you have already configured an NDS directory tree with a Printer, a Print Server, and one or more Print Queue objects for Fiery XJ jobs (see page 3-4). To perform NDS Setup you may need permission to browse the NDS tree. If access to the Print Server is restricted, you'll need a login password.

The main objective of NDS Setup is to specify the Print Server object. In addition, you can indicate the location of the Fiery XJ print queues.

Note that the terms NetWare server, Novell server, and IPX server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

Enable NDS
No/Yes [No]

Select Yes if the NetWare servers you will use to print to the Fiery XJ are running NetWare 4.x in native mode.

Select NDS Tree
List of trees

Use the up and down buttons to browse the list of NDS trees available to the Fiery XJ. Choose OK when you have displayed the tree that contains the Printer, Print Server, and print queue objects you have previously defined for the Fiery XJ.

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings afterwards. If you don't want to continue, you can exit NDS Setup by pressing the Menu button to escape.

Is user login needed
to browse NDS tree?
Yes/No [No]

Select No if no password is required to browse the tree. You can proceed to navigate to the Print Server object.

Select Yes if network permissions require that you log in to browse the NDS tree and see the Print Server object you want to select. If you select Yes, you are prompted to navigate to the User Login object.

Navigate the NDS
tree to the User
Login object.

This message is displayed if you selected Yes for the previous option. Choose OK and browse the NDS tree as described in the following paragraphs.

NDS Tree name
Object list, "..."

Browsing to find the User Login object begins with the NDS tree that you selected previously (with Select NDS Tree). Use the up and down buttons to scroll a list of objects in the tree beneath the [Root] in the hierarchy, or use the navigation symbol ".." to go up one level at a time.

In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol ".." to go up one level.

With an object selected, choose OK to travel down the tree, or choose ".." to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects directly below it.

Continue to browse the NDS tree until the User Login object is displayed in the second line. Choose OK.

Enter Password

Enter the login password for the NDS tree, using the up and down buttons to select characters, and the left and right arrow buttons to move the cursor. Choose OK.

Navigate the NDS tree to the Print Server.

Press OK to browse the NDS tree to the Print Server object.

Browsing to find the Print Server object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol ".." to go up one level.

With a container object selected, choose OK to travel down the tree, or choose ".." to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects directly below it.

When the Print Server is displayed in the second line, choose OK.

Enter Print Server Password

Enter the Print Server password, using the up and down buttons to enter characters, and the left and right arrow buttons to move the cursor. Choose OK. (If no password is required, choose OK.)

Server should look for print queues in: Entire NDS Tree/Specified subtree [Entire NDS Tree]

By default, the Fiery XJ searches the entire NDS tree for Fiery XJ print connections. This option lets you restrict the search for Fiery XJ print jobs to a subtree (the Print Queue root) in which the Fiery XJ print connections have been defined. This makes the search more efficient. Select Entire NDS tree if the tree is small. Select Specified subtree to restrict the search and specify the subtree.

If you select Entire NDS tree, choosing OK returns to PServer Setup. Proceed with Bindery Setup (see page 2-38), set the Polling Interval (see page 2-43), or choose Exit PServer Setup to return to the Service Setup menu.

Browse to the root of the Print Queue subtree.

This message is displayed if you selected Specified subtree in the previous option. Choose OK to browse the NDS tree to the Print Queue subtree.

Browsing to find the container object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current container. The second line contains:

- A list of objects directly below your current location
- The symbol ".." to go up one level
- The symbol "." to select the current container object (displayed in the top line) without traveling down the tree

With an object selected, choose OK to travel down the tree, or choose ".." to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects contained within.

When the container that contains print queues is displayed in the second line, choose OK. In the next screen, choose "." and choose OK to select the object in the top line.

When the Fiery XJ displays the container name, choose OK to return to PServer Setup.

Proceed with Bindery Setup (see page 2-38), set the Polling Interval (see page 2-43), or choose Exit PServer Setup to return to the Service Setup menu.

Bindery Setup options

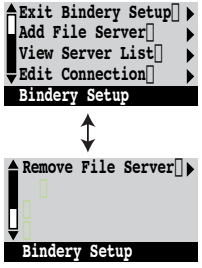
Network Setup ▶
Service Setup ▶
PServer Setup ▶

Bindery Setup

Use Bindery Setup if you have already configured one or more bindery servers (file servers running NetWare 3.x or NetWare 4.x in bindery emulation) with a Print Server and a Print Queue for Fiery XJ jobs. Before entering bindery settings, be sure the Fiery XJ is connected to the network and the NetWare file server is running. If Guest Login is not supported, you'll need a valid user name and password.

NOTE: The terms NetWare server, Novell server, and IPX file server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

Bindery Setup menu



Because you can set up more than one Novell server to handle Fiery XJ print jobs, an additional menu is displayed for this purpose. The options are:

- Add File Server— creates a new file server connection to the Fiery XJ. You can set up a maximum of eight file server connections. After you have finished adding a new server, you return to the Bindery Setup menu, and you can set up another server if you wish.
- View Server List— displays the list of file servers that have already been selected to communicate with the Fiery XJ.
- Edit Connection—lets you change the NetWare Print Server that will print to the Fiery XJ.
- Remove File Server—lets you disconnect the Fiery XJ from a file server to which it is currently connected. Remove a file server when you want to reduce the number of connections to the Fiery XJ or re-assign the connection to a different NetWare file server.
- Exit Bindery Setup—after you added all servers, viewed a list of file servers, or removed a file server from the list.

NOTE: If you change your mind about any of the menus you have selected, you can use the Menu button to escape and return to the main Bindery Setup menu. To cancel all changes you must exit Network Setup and select No to Save Changes.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Add File Server

This option gives you two ways to add a Novell NetWare file server.

Select File Server
From List/Search by Name [From List]

You may select the file server from a scrollable list, or by a name search. Choose From List if your network doesn't have a large number of file servers. Select Search by Name if the number of file servers is so large that scrolling through the list would take a long time.

If you selected **From List**:

Add Server
[list of all servers]

The Fiery XJ obtains a list of NetWare file servers by querying the IPX network. Use the up and down buttons to select a NetWare file server from the list. Choose the server on which you have configured a print server and print queue to handle Fiery XJ print jobs.

If you selected **Search by Name**:

Enter First Letters of Server Name

Use the up and down buttons to enter the first letters of the name of the file server you want to use, and choose OK.

Add Server
[list of servers matching the search]

This option is displayed if you entered letters to search. Scroll to select the server you want from the list.

Once you have chosen a file server, the Fiery XJ immediately tries to log in as a guest without a password. If it succeeds, it skips to the NetWare Print Server option.

If you try to add a file server but all Fiery XJ connections are already being used, you are prompted to remove a file server (see "Remove File Server" on page 2-32).

File Server Login
administrator/ supervisor/ Enter Login Name [supervisor]

This option appears only if a password is required for login or if there is no guest account or the guest account is restricted. Choose Enter Login Name to enter your own login name and password or to log in as a guest. Choose administrator or supervisor if you have those privileges.

Enter Your Login Name
[guest]

This option and the next appear only if you selected Enter Login Name for the File Server Login. Enter your login name or select guest.

Enter Your File Server Password

Enter the password for logging in to your NetWare file server. If you enter the password incorrectly, you are prompted to re-enter it.

NetWare Print Server
Print Server Name

Select the name of the print server that you have configured in the NetWare utility PCONSOLE. This is the print server that will route print jobs to the Fiery XJ from computers on IPX networks.

Enter Your Print Server Password

This option appears only if your NetWare print server is set up to require you to log in with a password. Enter your print server password.

Choose Add Server again until you have connected each NetWare file server you have configured for printing to the Fiery XJ. When you have added all the IPX file servers for your site, choose Exit Bindery Setup.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

View Server List

Supported Servers

This option lets you view the list of file servers currently connected to the Fiery XJ, that is, servers you have added in Bindery Setup. You are notified if there are none. When you choose OK, you return to the Bindery Setup menu.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Edit Connection

On each connected NetWare file server, you have defined a print server to handle Fiery XJ print jobs. Use this option to change the print server assigned to the Fiery XJ.

Choose File Server
[File server name]

From the list of connected NetWare file servers, choose the file server whose print server you wish to change.

NetWare Print Server
[List of print servers on selected file server]

Choose the name of the print server that you now wish to use. This is the print server that will route print jobs to the Fiery XJ from computers on IPX networks.

If you change your mind, press the Menu button to return to the Bindery Setup menu without making a change.

Enter Your Print Server Password

This option appears only if your NetWare print server is set up to require you to log in with a password. Enter your print server password.

The Bindery Setup menu is displayed again. You can edit other connections, choose another Bindery Setup option, or choose Exit Bindery Setup.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Remove File Server

Remove support for [File server name]

Allows you to select a NetWare file server from a list of connected file servers and remove the connection to it. You are notified that you have removed the connection, and the Bindery Setup menu is displayed again. If you change your mind and don't want to remove any of the file servers, press the Menu button.

You can choose another Bindery Setup option (such as adding another file server) or choose Exit Bindery Setup and proceed to set the polling interval.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Exit Bindery Setup

Choose Exit Bindery Setup after you have viewed a list of IPX file servers, removed a file server from the list or connected all the configured NetWare file servers. After you select Exit Bindery Setup, you return to the PServer Setup menu.

Polling Interval options

Network Setup ▶
Service Setup ▶
PServer Setup ▶

Polling Interval

Whether you are using NDS or Bindery services, you may choose Polling Interval from the main PServer Setup menu. If you do not reset the interval, the default value of 15 seconds is used.

NetWare Server Poll Interval in Seconds
1-3600 [15]

Specify the interval, in seconds, at which the Fiery XJ communicates with the Novell print server to see if there are print jobs waiting.

NOTE: If you select a short interval, the amount of network traffic increases. This may slow down other network jobs.

Exit Service Setup

This returns you to the main Network Setup menu.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in Network Setup; select No to return to the main Setup menu without making any changes.

Fiery XJ print connections

In Fiery XJ Printer Setup you decide how the Fiery XJ manages print jobs by deciding which print connections should be "published" to users over the network. All published connections are constantly checked for the presence of jobs. If you don't want users to print to a connection, don't publish it.

The Fiery XJ publishes two types of connections: the Direct connection and the Print queue. At least one connection to the Fiery XJ must be published.

Direct connection

Jobs are transmitted to the Fiery XJ Direct connection only when the Fiery XJ is ready to print. They remain at the sending workstation until the Fiery XJ is ready, and are processed as soon as a prior job is finished, before the next queued job is processed.

Jobs sent to the Direct connection are not stored on the Fiery XJ hard disk. The jobs appear in display of current jobs in Fiery WebSpooler and Fiery Spooler, but they cannot be selected for reprinting, moving, or deletion. Therefore the Direct connection provides a measure of security for sensitive files. If you plan to download fonts to the Fiery XJ via the network, you must publish the Direct connection.

NOTE: You cannot use the Direct connection for lpd printing over TCP/IP. You can, however, use the Direct connection for downloading fonts.

Queues

A queue is a storage area for print jobs. Queues are particularly useful when many print jobs are being sent to the Fiery XJ. When a job is printed to a queue on the Fiery XJ, it is stored on the Fiery XJ hard disk rather than the user's hard disk, quickly freeing up the user's workstation.

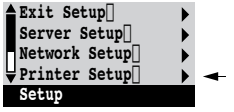
Remote users can print only to published connections. However, job storage areas for all queues exist on the server, so that administrators or other users of Fiery WebSpooler and Fiery Spooler can move or copy jobs to the Print queue, whether or not the Print queue is published.

The Fiery XJ hard disk supports up to two queues (Print and Printed). Users may print to only the Print queue.

- **Print queue**—This is the standard Fiery XJ queue. The Fiery XJ prints jobs from the Print queue in the order in which they were received.
- **Printed queue**—The Printed queue is a job storage area on the Fiery XJ disk; it contains the most recent jobs printed from the Print queue. The Printed queue makes it convenient to reprint those jobs. A Server Setup option enables this queue and governs the maximum number of jobs retained in it at any given time (see page 2-9). Reprinting jobs in this queue requires Fiery WebSpooler or Fiery Spooler.

Printer Setup options

Printer Setup configures the connections and printing behavior associated with a particular printing device. For more information on Fiery XJ print connections, see page xiv of the Introduction.



1. **In the main Setup menu, choose Printer Setup.**
2. **Enter the options appropriate to the printing requirements at the site.**
3. **When you have finished, save changes.**

Printer Setup includes:

- Publishing the Direct connection
- Publishing the Print queue

In the list of options that follows, default values, where applicable, appear in square brackets.

Publish Direct Connection
Yes/No [Yes]

This option enables users to print (or download) jobs to the Fiery XJ without spooling. Note that jobs printed to the Direct connection are not saved in the Printed queue.

If you plan to download fonts from any system to the Fiery XJ, you must publish the Direct connection. If you do not want users to print to Direct, choose No.

Publish Print Queue
Yes/No [Yes]

This option enables users to print (or download) jobs to the Print queue. Jobs that are printed to the Print queue are spooled to the Fiery XJ disk and printed on a first-in, first-out basis. Only queues published in the Printer Setup are available to remote users.

- If you are printing to the Fiery XJ over a TCP/IP network, you must publish the Print queue.
- If you are printing to the Fiery XJ over the parallel port, you must publish a queue or publish the Direct connection.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in the Printer Setup; select No to return to the main Setup menu without making any changes.

PostScript Setup options

PS (PostScript) Setup options allow you to set defaults for both the Fiery XJ and the copier. Most of these defaults can be overridden on a job-by-job basis. See the *User Guide* for more information.

TO ACCESS POSTSCRIPT SETUP OPTIONS:

1. **In the main Setup menu, choose PS Setup.**
2. **Enter the options appropriate to the printing requirements at the site.**
3. **When you have finished, save changes.**

In the list of options that follows, default values, where applicable, appear in square brackets.

Color Mode
CMYK/Grayscale [CMYK]

Specify whether you will be printing color (CMYK) or Grayscale images to the Fiery XJ by default. CMYK gives you full color prints. Select CMYK as the Color Mode before performing calibration on the Fiery XJ. Grayscale converts all colors into shades of gray.

Page Order
Forward/Reverse [Reverse]

Forward prints pages in the order received, so that the last page is on the top of the stack and the first page is on the bottom. Reverse prints jobs in reverse order, so that the first page is on the top of the stack and the last page is on the bottom.

Paper Sizes
US/Metric [US]

Specify whether to print on US paper sizes (for example, letter, legal, tabloid), or Metric paper sizes (for example, A4, A3) by default. When no page size is defined within a PostScript file, jobs are printed on Letter paper if you selected US, or A4 paper if you selected Metric.

Convert Paper Sizes
No Letter/11x17->A4/A3 A4/A3->Letter/11x17 [No]

Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you selected Letter/11x17->A4/A3, a letter size document would automatically be printed on A4 paper. If you select No, the server only prints the document if it finds a media source in the size specified by the file.

Print Cover Page
No/Yes [No]

Use this option to specify whether the Fiery XJ prints a cover (job summary) page at the end of each print job. If you select Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurred and the Print to PS Error option is set to Yes, the status entry will be the PostScript error message.

Allow Courier Substitution
Yes/No [Yes]

Specify whether to substitute Courier for fonts that are unavailable when you download PostScript files to the Fiery XJ, or when you print a document for which you do not have the corresponding printer font. If this option is set to No, jobs with fonts that are not available on the Fiery XJ hard drive generate a PostScript error and do not print.

Print to PS Error
No/Yes [No]

Use this option to specify whether the Fiery XJ should print the available portion of a print job when it encounters a PostScript error. Select Yes to print the portion of the job that was processed before the error occurred; select No to cancel the print job entirely when a PostScript error is encountered. Leave this option at No unless you encounter printing problems.

NOTE: If you download fonts, set this option to No.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in PS Setup; select No to return to the main Setup menu without making any changes.

Color Setup options

Color Setup allows you to set the parameters the Fiery XJ uses to control color output. Most of these parameters can be overridden on a job-by-job basis. See the *User Guide* for more information.

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

The Fiery XJ uses a default simulation for SWOP-Coated output. You can change the simulation target by downloading a file from the User Software CD to the Fiery XJ. The other simulations available are Euroscale (the European press standard) and DIC (the Japanese press standard). See the *User Guide* for more information.

TO ACCESS COLOR SETUP OPTIONS:

1. **In the main Setup menu, choose Color Setup.**
2. **Enter the options appropriate to the printing requirements at the site.**
3. **When you have finished, save changes.**

In the list of options that follows, default values, where applicable, appear in square brackets.

Rendering Style
Photographic/ Presentation/ Solid [Presentation]

The CRD (Color Rendering Dictionary) used defines how color will be converted from RGB data to printed output. Photographic, designed for images, retains the relative balance between colors to maintain the overall appearance of the image. Presentation, designed for bright colors, produces the saturated prints needed for most business presentations, but handles photographic images the same way as the Photographic CRD. Solid, designed for spot colors, retains the absolute value of each color. This is particularly useful for images such as corporate logos.

Save Changes
Yes/ No [Yes]

Select Yes to activate any changes made in Color Setup; select No to return to the main Setup menu without making any changes.

Administrative functions in the Setup menu

The remaining options in the Setup menu are intended to help you manage print jobs and color output but are not required for printing:

- In **Job Log Setup** you specify whether you want the Fiery XJ to print and clear its log of printed jobs automatically. See the next section for details.
- **Calibration** enables you to calibrate the Fiery XJ and preview the results of calibration. It also lets you remove a calibration. See the *User Guide* for a detailed explanation of calibration.
- **Change Password** enables you to create or change an Administrator password on the Fiery XJ so that casual users cannot enter the Setup menus and change Fiery XJ settings without permission.
- **Clear Server** clears all queued print jobs from the server—jobs in the Fiery XJ Print, and Printed queues. Clear Server also clears the Job Log. If an Administrator password has been set, unauthorized users will not see this command (or any of the administrative or Setup options).

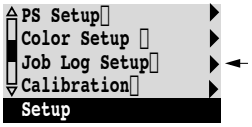
NOTE: If you keep Job Logs, be sure to print or export the Job Log before you choose Clear Server.

Job Log Setup

The Job Log is a record of all jobs processed or printed on the Fiery XJ, whether they originate from a user workstation, a networked server, the Fiery XJ, or a computer attached to the parallel port. The Job Log can be printed at any time from the Control Panel or Fiery WebSpooler.

The printed Job Log lists accounting information about each job including user name, document name, time and date printed, and number of pages. If you print with the Adobe printer drivers provided for Windows 95 and Mac OS computers, you can also enter job-specific notes that appear in the Job Log. See the *User Guide* for details.

By default, the Job Log is not printed or cleared automatically. You can change these defaults in Job Log Setup. You can also clear the Job Log from the Fiery WebSpooler.



Scroll to the second screen of the main Setup menu and choose Job Log Setup.

Enter the options as described below. When you have finished, save changes.

Job Log Setup options

Default values for the following options, where applicable, appear in square brackets.

Auto Print Job Log Every 55 Jobs
Yes/No [No]

Use this option to specify whether you want the Fiery XJ to print the Job Log after every 55 jobs. If accounting for each printed page is important at your site, and an administrator checks the printed output, set the Job Log for automatic printing.

Auto Clear Job Log Every 55 Jobs
Yes/No [No]

Use this option to specify whether to clear the Job Log after every 55 jobs. If you do not enable this option, and do not clear the Job Log from the Fiery XJ or from a remote workstation, the Fiery XJ saves a record of all jobs.

In addition to Auto Clearing, the Job Log (together with all queued jobs) is also cleared when you choose Clear Server from the main Setup menu, when system software is reinstalled, or when a new version of system software is installed on the Fiery XJ.

NOTE: If Auto Print Job Log Every 55 Jobs is set to No, setting this option to Yes has no effect.

Job Log Page Size
Tabloid/A3 Letter/A4 [Tabloid/A3]

Select the paper size for printing the Job Log. Regardless of page size, 55 jobs are listed on a page. The paper size used depends on the Default Paper Sizes setting in PS Setup. If the Default Paper Sizes setting is US, the Job Log is printed on tabloid or letter size paper, with tabloid the default.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in Job Log Setup; select No to return to the main Setup menu without making any changes.

Calibration

The Calibration menu lets you calibrate the Fiery XJ from the copier glass using AutoCal™ (automatic calibration). The Calibration menu also lets you remove the current calibration. When the Fiery XJ is calibrated, a color correction curve is applied to every color document that is processed for printing.

TO PREPARE FOR CALIBRATION:

1. **If this is the first time you are setting up the Fiery XJ, complete Server Setup, Network Setup, and Printer Setup before you perform a calibration. Save Setup changes and boot up to Idle.**

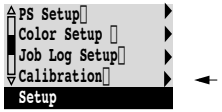
   Color Mode must be set to CMYK to perform calibration (see page 2-36).

2. **When the Fiery XJ is at Idle, turn the power switch off.**

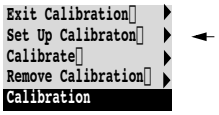
3. **Turn on the Fiery XJ.**

4. **When the Setup message appears, press any key.**

5. **Scroll to the second screen of the main Setup menu and choose Calibration.**



6. **Choose Set Up Calibration.**



At the Tray menu, choose the source of Letter/A4 paper for printing color patch pages, either a regular paper tray or the Bypass tray (manual feed).

7. **Choose Calibrate, and perform calibration as described below.**

8. **When you have finished, save changes.**

Calibrate

Calibration options are summarized below. See the *User Guide* for calibration procedures and a more detailed explanation of calibration options.

You can print a Configuration page at the server to find out when the Fiery XJ was last calibrated. The Start page also contains this information. (To print a Configuration page from the Fiery XJ at Idle status, press the Menu button to display the Functions screen, scroll down to select Print Pages, and select Configuration.)

NOTE: If any problems arise during calibration, press the Menu button to escape to the Calibration menu.

Select Target
***Copier target*/Linear [Copier target]**

The copier target (the exact name will vary) calibrates the Fiery XJ to its defined optimums. The linear target calibrates the Fiery XJ to a generic standard. Using the copier target is strongly recommended.

Print Measurement Page
Yes/No [Yes]

Choose this option to print a page of known color data for measurement. You are notified that the copier is printing a measurement page without calibration.

The Fiery XJ prints a page of graduated colors that you place on the copier glass.

Measure Page
Yes/No [Yes]

Select Yes to measure the colors on the measurement page.

Position the Kodak Gray Scale strip (included in your Fiery XJ media pack) and the measurement page on the copier. If you don't use the Kodak Gray Scale strip, the Fiery XJ performs AutoCal 1, measuring only the color strips. If you do use the Kodak Gray Scale strip, the Fiery XJ performs AutoCal 2, which measures the gray tones (to correct for possible drift in the scanner) as well as the color strips. The copier scans the page and creates an internal measurements file.

If you select No, measurement is skipped and Print Comparison Page is displayed.

Print Comparison Page
Yes/No [Yes]

Specify Yes if you want the Fiery XJ to print a page with two versions of a set of test images, one version using a calibration based on your most recent measurements and the selected target, and one with no calibration.

Apply/Overwrite Calibration?
Yes/No [Yes]

Choose Yes if you are satisfied with the calibration shown in the comparison page. The newest calibration overwrites any previous one.

Choose No to return to the main Calibration Setup menu.

This affects all users. Continue?
Yes/No [Yes]

This is a reminder that calibration is a global setting; if you overwrite calibration, every print job is affected by the new calibration.

If you choose Yes, calibration is overwritten and you return to the main Calibration menu. If you are finished, choose Exit Calibration. The Fiery XJ reboots.

If you choose No, calibration is not overwritten, and you return to the main Calibration menu.

Remove Calibration

Choose Remove Calibration when you wish to return the copier to its default state. You do not need to remove a calibration before applying a new calibration.

This affects all users. Continue?
Yes/No [Yes]

This option is a reminder that calibration is a global setting; if you remove calibration, every print job is affected by your action.

If you choose Yes, the current calibration is removed and you return to the main Calibration screen. If you are finished, choose Exit Calibration. The Fiery XJ reboots.

If you choose No, the calibration is not removed, but you still return to the main Calibration screen.

Exit Calibration

When you choose Exit Calibration, the Fiery XJ reboots.

Change Password

Change Password enables you to set or change the Administrator password for the Fiery XJ. This password determines whether a user can modify the Setup options. See page xiii for information on Administrator access privileges.

When the Fiery XJ is installed, there is no password. If you do not create an Administrator password, users are not required to enter a password to modify the Setup. If an Administrator password has been set previously, you are required to enter it when you run Setup. Use the up and down buttons to select the characters and the left and right arrow buttons to move between them (see page 2-6).

Scroll to the third screen of the main Setup menu and choose Change Password.

Enter and confirm the password as described below.

New Password

Use the up and down buttons to select the characters and the left and right arrow buttons to move between them. Enter characters from left to right, since the left arrow line selection button is a delete key. The password can be any combination of letters and numbers up to 19 characters. Choose OK when you are done. Be sure to write down the password. The only way to remove a password that you can't remember is to reinstall system software.

Verify New Password

Enter the new password again exactly as before to verify that you have entered it correctly. If you make a mistake, you are prompted to enter the password again. The new password is effective after you save changes and reboot the Fiery XJ.

Clear Server

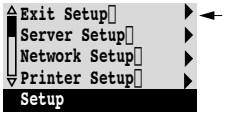
Clear Server enables you to clear all queued print jobs from the server—jobs in the Fiery XJ Print and Printed queues. Clear Server also clears the Job Log. If you keep Job Logs, print or export the Job Log before you choose Clear Server.

Jobs can also be deleted, individually or as a group, from Fiery WebSpooler.

Scroll to the third screen of the main Setup menu to choose Clear Server.

Choose Clear Server to clear all queued print jobs and the Job Log from the server. You are asked to confirm your selection.

Exit Setup



Choose Exit Setup from the first screen of the main Setup menu when you have finished making Setup changes.

The Fiery XJ reboots and any changes you saved during the Setup take effect.

Printing the Configuration page from the Control Panel

The Configuration page lists all the settings in effect from the current Setup. After you have finished running Setup, print a Configuration page to confirm your settings.

There are other pages you can print from the Control Panel of the Fiery XJ, including Test Page, Job Log, Control Panel Map, color charts, and font list. For information on these pages, see the *User Guide*.

TO PRINT THE CONFIGURATION PAGE:

1. **At the Control Panel, press the Menu button to access the Functions menu.**
2. **Choose Print Pages.**
3. **Select Configuration.**

You may want to post the current Configuration page near the server for quick reference. Some of the information on this page should be conveyed to remote users; for example, users sending print jobs will need to know the current printer default settings.

Chapter 3: Setting up Network Servers

This chapter describes environments that typically include one or more network servers—Novell NetWare servers and Windows NT 4.0 servers—that will share printing to the Fiery XJ. It describes setting up servers that use IPX/SPX or TCP/IP protocols for communicating with the Fiery XJ. In addition, it includes some guidelines for setting up direct communication from Windows NT 4.0 workstations and UNIX workstations, where a network server is optional. The chapter also outlines the requirements for network clients to print to the Fiery XJ and to run the Fiery utilities and Fiery WebTools.

If your network is based on Windows NT 4.0, skip to page 3-18. For information on UNIX workstations, skip to page 3-27.

NOTE: Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

Fiery XJ on an IPX network

The NetWise™ features built into the Fiery XJ supports the following network operating environments:

- NetWare 4.x—NDS (Novell Directory Services)
- NetWare 3.x—Bindery services
- Servers running NetWare 4.x in bindery emulation mode

The term "bindery server" is used to refer to a Novell file server running NetWare 3.x, or running NetWare 4.x in emulation mode. The term "NDS" is used to describe components of a NetWare operating system running NetWare 4.x in native mode.

NetWare clients print to the Fiery XJ through the Novell network server. Server setup and client network setup are outlined here. Client printing setup is described in *Getting Started,* and printing is described in the *User Guide.*

The Fiery XJ can accept jobs concurrently from NetWare, Windows NT 4.0, and AppleShare servers, as well as jobs sent directly from Windows NT 4.0 or UNIX workstations. NetWare clients on Mac OS or Windows NT 4.0 computers can print either via the NetWare server or directly.

The Fiery XJ can receive print jobs from NetWare clients over the Ethernet or Token Ring network topologies. (Appendix A describes the Token Ring option.) During Fiery XJ Setup, you select the frame type or types that will be used for communication between the Fiery XJ and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

In addition to printing, Fiery Downloader is available to Windows 95 users only via IPX/SPX and to Windows NT 4.0 users only via TCP/IP. Fiery Spooler is available to both Windows 95 and NT 4.0 users only via TCP/IP. With Fiery Downloader, Windows 95 workstations are communicating with the Fiery XJ directly, not through the NetWare server.

Tips for experts—IPX networks

Setting up the Fiery XJ is similar to setting up another PostScript printer on the network. The following information is all that experienced network administrators need.

The Fiery XJ with IPX connections has these characteristics:

- **Both NetWare 3.x and NetWare 4.x are supported directly. NetWare 4.x is also supported through bindery emulation.**
- **A minimum connection to the Fiery XJ consists of a NetWare file server, a NetWare print server, and a NetWare queue.**
- **A single directory tree (for NetWare 4.x) and up to eight bindery servers can be configured simultaneously.**

  This limit is the same regardless of whether the Fiery XJ is connected to the network via Ethernet, via Token Ring, or both.

- **The Fiery XJ looks for print jobs on one NetWare print server per bindery server.**
- **Each print server can store jobs for any print connection on the Fiery XJ.**
- **Windows 95 workstations (whether a Novell server is present or not) can use IPX/SPX protocols for communicating with the Fiery XJ directly to use Fiery Downloader.**

  However, Windows 95 users must use Fiery Spooler via TCP/IP only.

Overview of IPX printing to the Fiery XJ

NetWare file servers support the creation of print queues, which are storage areas for print jobs. When a client on a remote computer decides to print, the job is directed to a print queue on the NetWare file server and spooled to the NetWare server disk, freeing up the client workstation.

The queues on the NetWare server must be named to match the Direct connection and Print queue on the Fiery XJ. The NetWare queue names should be given an extension corresponding to the Fiery XJ print connection, as follows:

_print
_direct

NOTE: The extension names must be in all lowercase and must be in English.

There is no need to rerun Setup when adding or removing a NetWare queue; however you should reboot the Fiery XJ after a queue is created or removed.

When the Fiery XJ is configured to connect to a NetWare server, it polls the NetWare server for jobs in each of its queues. If jobs are found, they are automatically transferred over the network to the matching connection on the Fiery XJ. For example, jobs from the NetWare queue with the _print extension are sent to the Fiery XJ Print queue, and so on. While a job is processed and printed, a record of the job is being created. You can access the Job Log containing these records at any time.

Configuring a NetWare server for printing

The following sections explain how to set up a NetWare file server so that networked users can print to the Fiery XJ from their workstations, and the Fiery XJ can obtain print jobs from the NetWare server.

For *each* NetWare file server that you configure, follow these general steps. More detail is provided in subsequent sections.

- Make sure the server is connected to a functioning IPX network.
- Log in as the Supervisor on a PC connected to the NetWare file server.
- For NetWare 4.x installations, set up an NDS connection (see page 3-6).
- For NetWare 4.x in emulation mode, set the bindery context (see page 3-9).
- For NetWare 3.x and for NetWare 4.x in bindery emulation, set up a file server, a print server, and a print queue for the Fiery XJ (see page 3-12).

With bindery services, you can route all Fiery XJ print jobs through the same NetWare file server, or you can configure more than one file server to handle Fiery XJ jobs.

The functions you perform on the Novell server, on the Fiery XJ, and on the client workstation, are summarized in the following tables. The first table applies to NDS connections, the second to bindery connections.

Complete the operations in the left column, then the center column, then the right column.

Configuring an NDS connection

Abbreviations:

FS = file server

PS = print server

PQ = print queue (on the NetWare server)

On NDS FS:	On Fiery XJ Control Panel:	On client workstation:
In NETADMIN: Create NDS PQs Create NDS printer and assign PQs Create PS and assign the printer Configure users of the PQs	**Port Setup** Ethernet Setup and/or Token Ring Setup **Protocol Setup** IPX/SPX Setup—select frame type(s) **Service Setup** PServer Setup and NDS Setup Select Root Browse to select PS Specify PQ search root (optional) Set Polling Interval	Install user software For printing: Connect client to PQ(s) that you set up on the NetWare FS (associated with the PS selected in NDS Setup) For running the Fiery utilities: Configure the connection to the server

Configuring a bindery connection

On Bindery FS:	On Fiery XJ Control Panel:	On client workstation:
In PCONSOLE: Select NetWare FS (up to 8) For each FS: Configure PS Configure PQ Configure users of the PQ	**Port Setup** Ethernet Setup and/or Token Ring Setup **Protocol Setup** IPX/SPX Setup—select frame type(s) **Service Setup** PServer Setup and Bindery Setup Add FS (up to 8) Set Polling Interval	Install user software For printing: Connect client to PQ(s) that you set up on the NetWare FS (associated with the PS selected in Bindery Setup) For running the Fiery utilities: Configure the connection to the server

Setting up an NDS connection

In NDS, all NetWare entities (objects) are organized in a hierarchical tree structure. Objects have a name, properties, and a context which defines the location of the object in the directory tree. For the Fiery XJ you are mainly concerned with defining a printer, a print server object and one or more print queue objects. Objects are created in NetWare administrator programs (PCONSOLE or NETADMIN which are text-based, or NetWare Administrator which has a graphical user interface and context-sensitive help).

The top-level tree object is known as the [Root] object. The name of the [Root] object is also the name of the tree. Below the [Root] are other objects: either containers (which consist of other objects) or leaf objects (which do not contain other objects). Access to objects is controlled by rights that are defined as properties of each object. Rights are established by network administrators.

NOTE: The procedures that follow work with all versions of NetWare 4.x. With NetWare 4.11 or later, you can combine the procedures using the Print Services Quick Setup dialog box.

TO CREATE AN NDS PRINT QUEUE:

1. **Start NetWare Administrator and select the container in which you are going to define the print queue for the Fiery XJ.**
2. **Choose Create from the Object menu.**
3. **In the New Object dialog box, select Print Queue.**
4. **In the Create Print Queue dialog box, select Directory Service Queue.**
5. **Enter a name for the Netware print queue with the extension for the Fiery XJ connection: Astro_print, for example.**

   See page 3-3 for queue naming conventions.

6. **Click the browser button to select a print queue volume.**

7. **In the Select Object dialog box, double-click a container object in the Directory Context list and browse until the volume you want appears in the Objects list.**

   This volume holds the actual files while they are queued for printing, so make sure it has enough disk space.

8. **Select the volume in the Objects list, and choose OK.**

9. **In the Create Print Queue dialog box, click Create.**

10. **Click Details for Print Queue.**

11. **Enable guest access and/or create users.**

    You must enable at least guest access for the queue to be usable. You can also create registered users.

TO CREATE AN NDS PRINTER AND ASSIGN A NETWARE PRINT QUEUE TO THE PRINTER:

1. **Start NetWare Administrator and select the container in which you are going to define the NDS printer for the Fiery XJ.**

2. **Choose Create from the Object menu.**

3. **In the New Object dialog box, select Printer.**

4. **Enter a name for the printer.**

   You can define additional properties for the printer at this point.

5. **Click Create.**

6. **In Printer Details, click Assignments. Click Add.**

7. **In the Select Object dialog box, browse the containers until the Netware queue you want is listed in the Objects list.**

8. **Select the print queue you created for the Fiery XJ and choose OK.**

9. **From the Printer dialog box, select Configuration and select Other/Unknown as the Printer Type and PostScript as the Banner Type.**

TO CREATE AN NDS PRINT SERVER AND ASSIGN A PRINTER:

1. **Start NetWare Administrator and select the container in which you are going to define the NDS print server for the Fiery XJ.**
2. **Choose Create from the Object menu.**
3. **In the New Object dialog box, select Print Server.**
4. **Enter a name for the print server.**
5. **Select Define Additional Properties.**
6. **Click Create.**
7. **In the Print Server dialog box, click Assignments.**
8. **Select Add and select the printer (object) you want to assign to the print server.**
9. **In the Select Object dialog box, browse the Directory Context list until the printer you want is listed under Objects.**
10. **Select the printer and click OK.**

The remaining setup is performed on the Fiery XJ. An outline follows; for more detailed information, see page 2-10.

COMPLETING SETUP ON THE FIERY XJ:

1. **With the Fiery XJ connected to the Novell network, restart the Fiery XJ to perform Setup.**

   For access to Setup, see page 2-1.

2. **In the Network Setup, choose Port Setup and enable the port you will use for printing to the Fiery XJ.**

   This can be Ethernet, Token Ring (if you have installed the Token Ring option), or both.

3. **Choose Protocol Setup and configure the protocols you will use.**
4. **Choose IPX/SPX Setup to select the frame type(s) that will be used between the NetWare server(s) and the Fiery XJ.**

5. **Choose Service Setup, choose PServer Setup, and choose NDS Setup.**
6. **Identify the NDS tree on which the printer, print server, and print queue have been defined.**
7. **Select the user login object.**
8. **Identify the defined print server.**
9. **Finally, to restrict the search for the print queues you've defined, browse to a container object that contains the print queue or queues.**

Setting the NetWare 4.x bindery context

You can connect only one directory tree to the Fiery XJ. If you need to connect additional NetWare 4.x servers, you can do so by using bindery emulation, which causes the 4.x server to behave like and be accepted as a NetWare 3.x server.

NOTE: The file server selected must not be in the same tree as that selected in NDS Setup.

Up to eight bindery servers, whether in native 3.x mode or in 4.x emulation, can connect to the Fiery XJ.

If your server is using NetWare 3.x, proceed to "Setting up a NetWare print queue for bindery" on page 3-12.

In order to set up the NetWare 4.x server in bindery emulation mode for printing to the Fiery XJ, the network administrator must do the following:

- Determine the Directory Services path to the container in which the print server and the print queue for the Fiery XJ will be created.

  The container defines the "bindery context" for your network structure.
- Edit the network startup file to set the bindery context.
- Activate the new bindery context.

This section describes the second and third steps. Given the variety of possible network structures, it is impractical to suggest a bindery context that applies to every network.

TO SET THE BINDERY CONTEXT:

1. **Establish a connection with the server which will have the Fiery XJ queue.**

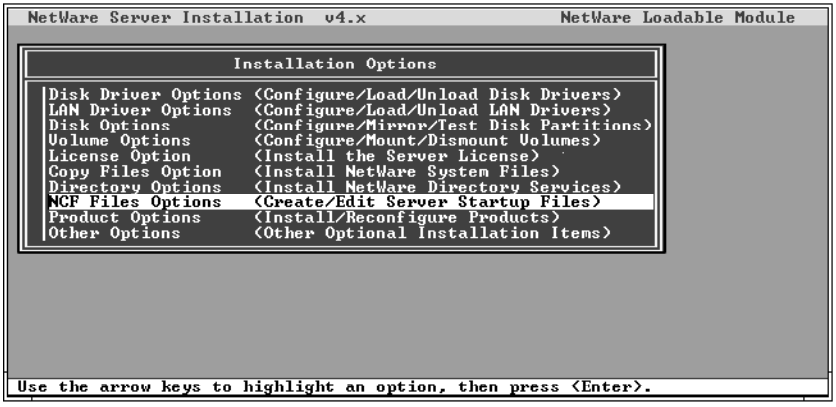
   This is best done by the network administrator using PSERVER from the server console. It can also be done remotely using the RCONSOLE utility.

2. **At the NetWare prompt type** load install**.**

   The NetWare Server Installation window is displayed.

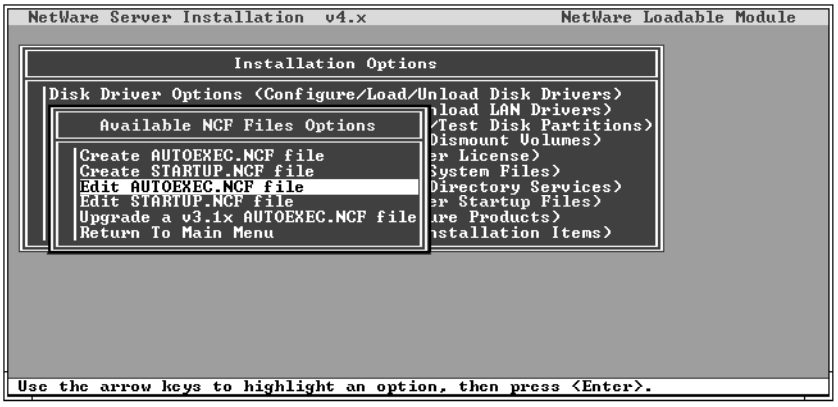
3. **Use the down arrow key to select Maintenance/Selective Install.**

   The Installations Options menu is displayed.



4. **Select NCF Files Options.**

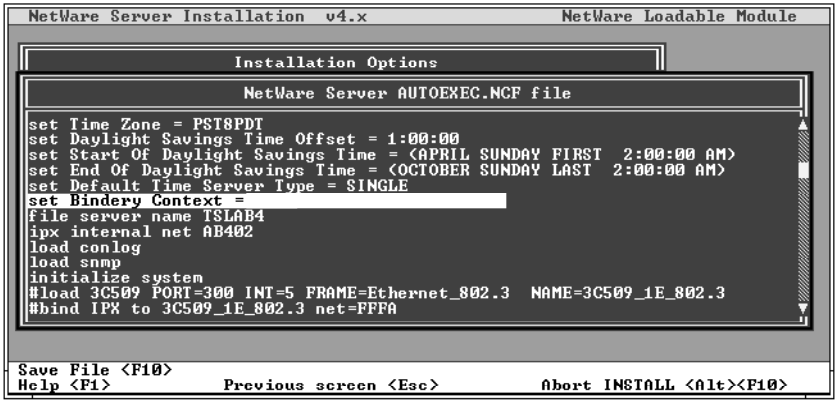
5. **On the menu of available NCF files, select Edit AUTOEXEC.NCF file.**



6. **Type a new line anywhere in the file as follows:**

   set Bindery Context = *enter your bindery context here*

   NOTE: After the "=" sign, type the bindery context obtained from the system administrator.



7. **Press Esc to close the window, and save changes.**

8. **Proceed to the next section to activate the bindery context.**

TO ACTIVATE THE BINDERY CONTEXT:

1. **If you cannot reboot the NetWare server at this point, type the `set` command manually at the server's colon prompt.**

   Use the same command as you entered in the AUTOEXEC.NCF file (in step 6 of the previous procedure).

2. **If you can reboot the NetWare server, the `set` command is loaded automatically.**

   You are ready to set up the Fiery XJ print server and print queue. See the next section for details.

Setting up a NetWare print queue for bindery

For NetWare 3.x and for 4.x in emulation, the NetWare print server and print queue for Fiery XJ are created and configured from NetWare Print Console (PCONSOLE), a NetWare utility that is stored in NetWare's PUBLIC directory.

As with NDS, first you create several NetWare entities on a Novell server, then you select them in Network Setup on the Fiery XJ Control Panel.

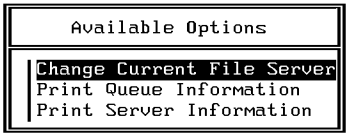
TO SET UP A NETWARE SERVER FOR PRINTING TO THE FIERY XJ:

1. **Log in to the NetWare server as the Supervisor.**

2. **At the NetWare MS-DOS prompt, type `pconsole`.**

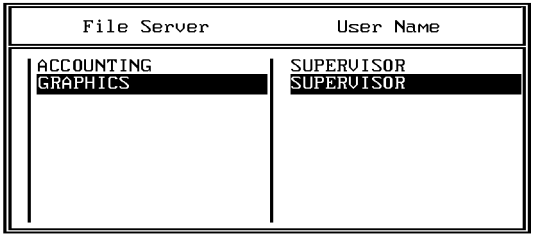
   If you are using NetWare 4.x in bindery mode, Print Console (PCONSOLE) has two modes. Press the F4 key to switch to Bindery mode.

   The Available Options menu is displayed.



3. **Choose Change Current File Server and press Enter.**

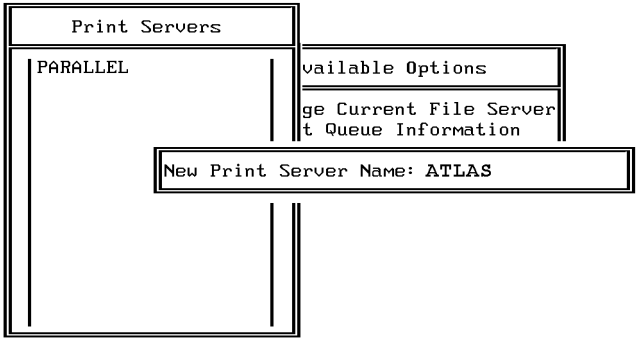
4. **Using the arrow keys, select the name of the file server you'll use for sharing Fiery XJ printing and press Enter.**



This is the file server you select later in Fiery XJ Network/PServer/Bindery Setup.

5. **Choose Print Server Information from the Available Options menu.**

6. **Press the Insert key, type a name for the new print server, and press Enter. Then press Esc.**

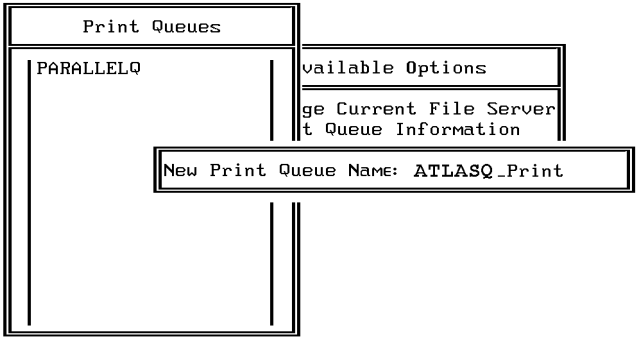


You must select the same print server here and in Fiery XJ Network/PServer/Bindery Setup. In this example, "Atlas" is the name of the print server.

7. **Choose Print Queue Information from the Available Options menu.**

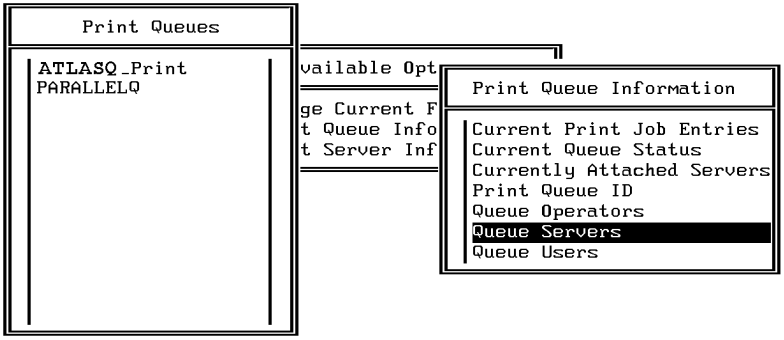
8. **Press the Insert key and type a name for a new Fiery XJ print queue. Press Enter.**

   See page 3-3 for queue naming conventions. In this example, "AtlasQ" is the name of the queue. The extension "_print" directs jobs to the Print queue on the Fiery XJ (as opposed to the Fiery XJ Direct connection).



9. **Make sure the print queue name you created is selected in the list of Print Queues, and press Enter.**

   The Print Queue Information menu is displayed.

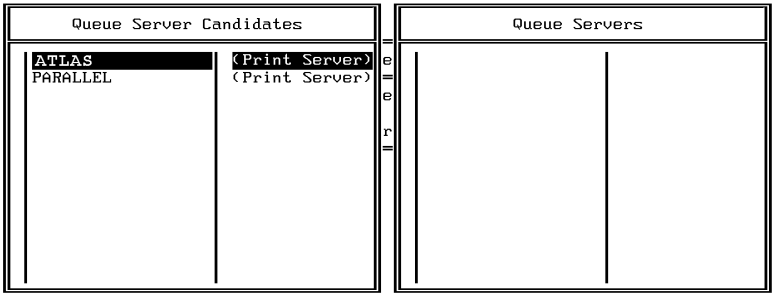


10. **In the Print Queue Information menu, choose Queue Servers, and press Enter.**

    A blank Queue Servers list is displayed.

11. Press the Insert key.

The Queue Server Candidates list is displayed.



12. Use the arrow keys to select the name of the print server you created in step 6 and press Enter.

The server name you select will appear in the Queue Servers list.

You have associated the selected Fiery XJ queue with the print server you created in step 6.

NOTE: The Fiery XJ obtains jobs from all queues defined for a print server, and all jobs from one file server go to the same queue on the Fiery XJ.

13. If you wish to set up a print queue on another file server, press Esc to close the windows until only the Available Options menu is displayed. Repeat the steps beginning with step 3.

The Fiery XJ can support up to eight file servers on Ethernet or Token Ring or both.

14. If you have configured all the servers you need, press Esc to exit all Print Console windows.

15. Choose Yes or press Return to save changes to Print Console.

Setting up NetWare Windows clients for printing

Before setting up client workstations for printing, make sure you perform Network Setup on the Fiery XJ Control Panel (see page 2-10), and that the settings reflect the entities you created in the NetWare administrator utilities (see page 3-4).

NOTE: For printing to the Fiery XJ, connect all Windows clients to a Novell NetWare server and permit them to connect to the Netware print server or servers on which you defined a NetWare print queue for the Fiery XJ.

After the Novell server and the Fiery XJ have been set up, client setup consists of:

- Installing the networking protocol, binding it to the network adapter card, and permitting the client to log in to the NetWare file server.

  On Windows 95 workstations, both the IPX/SPX-compatible protocol and the Client for NetWare Networks should be loaded from the Network Control Panel.

  On Windows NT 4.0 workstations, Client Services for NetWare should be installed. Use the CSNW option in Control Panel to set printing options and specify a preferred NetWare server.

- Setting up the Fiery XJ as a PostScript printer by installing a PostScript printer driver and the Fiery XJ PPD (PostScript printer description).

- Adding a network port and connecting the workstation to one or more NetWare queues that have been defined for the Fiery XJ.

  See *Getting Started* for details on how to connect Windows 95 and Windows NT 4.0 workstations.

- Installing Fiery XJ software, such as color reference files.

  See *Getting Started* for details.

Configuring Windows 95 workstations for the Fiery utilities

To run Fiery Downloader, a Windows 95 workstation on an IPX network must have IPX/SPX protocols loaded and bound to the network driver. There should be a NetWare server on the network.

Before you begin, for Windows 95, install the IPX/SPX-compatible protocol and Microsoft TCP/IP.

NOTE: To use Fiery Spooler with Windows 95, you cannot use IPX/SPX. You must use TCP/IP.

TO INSTALL THE FIERY UTILITIES:

1. **Configure your NetWare server and perform Fiery XJ Setup.**
2. **Insert the Fiery XJ User Software CD in the client workstation and install the Fiery utilities.**

   See *Getting Started* for installation instructions.
3. **Before running the Fiery utilities, print a Configuration page.**

   See page 2-46 for details on printing the Configuration page.
4. **Start the Fiery utilities and configure the connection (*Getting Started*).**

Fiery XJ on a TCP/IP network with Windows NT 4.0

When a Windows NT 4.0 computer is configured to connect to the Fiery XJ using TCP/IP, it can print directly to the Fiery XJ. If the computer shares the printer over the network, it is acting as a print server to Windows NT 4.0 clients. Client machines print to the Fiery XJ by printing to the Windows NT 4.0 print server. Printing can then be monitored and controlled at the Windows NT 4.0 server machine.

With TCP/IP protocols loaded, you can run these utilities from Windows NT 4.0 or Windows 95:

- Fiery Spooler
- Fiery WebTools

With TCP/IP, you can run Fiery Downloader from Windows NT 4.0 only.

If there are many Mac OS computers or other PostScript printers at the site, the Windows NT 4.0 server can also use AppleTalk protocols for printing to the Fiery XJ. You can load AppleTalk on the Windows NT 4.0 server as an alternative to TCP/IP (see page 3-25).

Tips for experts—Windows NT 4.0 with TCP/IP

Setting up printing from Windows NT 4.0 using TCP/IP protocols is similar in some respects to setting up UNIX workstations with TCP/IP. When TCP/IP network connections are made from Windows NT 4.0 workstations, note the following:

- **Make sure you have a valid IP address for the Fiery XJ and for any workstations that will print to it or run the Fiery utilities.**
- **In Fiery XJ Network Setup > Protocol Setup > TCP/IP Setup > Ethernet Setup (or Token Ring Setup), enable TCP/IP and enter the IP address for the Fiery XJ. Also enter the Subnet mask and Gateway address.**
- **Make sure the Fiery XJ name and address are listed in a domain name services (DNS) or hosts name database used by your system.**
- **Make sure the system host table includes the correct internal name for the Fiery XJ as a remote printer. See page 3-28 for more information.**

- **For Windows NT 4.0, install the Fiery XJ PostScript printer description on the Windows NT 4.0 server (see *Getting Started*).**

  The Windows NT 4.0 PostScript printer driver is automatically installed with Windows NT 4.0. The Fiery XJ PostScript printer description is provided on the User Software CD.

- **Repeat the installation for everyone who prints to the Fiery XJ.**

  Each server and workstation running the Fiery utilities with TCP/IP also needs the TCP/IP protocol and the Fiery utility software.

  The Installer installs a blank configuration (Efinl.ini) file. When you run a utility for the first time, you enter information that is used to configure the Efinl.ini file automatically. See *Getting Started* for more information.

Configuring a Windows NT 4.0 server to support the Fiery XJ

To configure a Windows NT 4.0 server to communicate with the Fiery XJ, follow these general steps. More detail is provided in subsequent sections.

- Load the TCP/IP network protocol (see the next section).
- Enter the host name of the Fiery XJ in the host database used by your system (see page 3-21).
- On the Fiery XJ Control Panel, perform Server Setup (see page 2-8), Network Setup (page 2-10), Printer Setup (page 2-35), PS Setup (page 2-36), and Color Setup (page 2-38).
- On the Windows NT 4.0 server, create a printer for each Fiery XJ print connection, install the appropriate printer drivers (if necessary) and (optionally) share the printer on the network (see page 3-22).
- Enter the host name and remote printer name of the Fiery XJ in the printer connection. See page 3-28 for more information.
- If the Windows NT 4.0 server is also a workstation, install the Fiery utilities (see *Getting Started* and page 3-24).

TO ADD TCP/IP NETWORK SERVICES:

1. **Log in to the Windows NT 4.0 server as Administrator.**
2. **In the Control Panel, double-click the Network icon.**

   The Network Settings dialog box appears.
3. **Click the Services tab, and click Add.**
4. **In the Select Network Service dialog box, select Microsoft TCP/IP Printing and click OK.**
5. **In the Windows NT Setup dialog box, specify the location of your Windows NT 4.0 software files and click Continue.**

   Insert your Windows NT 4.0 system software CD and specify the CD-ROM drive's volume; or, if the files reside on your hard drive or on the network, specify the appropriate path.
6. **Click the Protocols tab and configure the Windows NT 4.0 server with its own IP address, subnet mask, and default gateway.**

   For Windows NT 4.0 configuration options you can use with various host name systems, see your Windows NT 4.0 documentation.
7. **When you are finished configuring TCP/IP, click Apply, and close the Network control panel.**
8. **Restart your computer.**
9. **Add the Fiery XJ to the network (see the next section).**

Adding the Fiery XJ to the TCP/IP network

If your TCP/IP network consists of Windows NT 4.0 servers and Windows NT 4.0 clients, use the directions in this section. If the network also includes UNIX workstations, also check the directions on page 3-29.

TO ADD THE FIERY XJ TO A TCP/IP NETWORK WITH A WINDOWS NT 4.0 SERVER:

1. **On the Fiery XJ Control Panel, perform Server Setup, Network Setup and Printer Setup to support TCP/IP printing.**

   Enter the options in Protocol Setup (IP address of the Fiery XJ, Subnet mask, and Gateway address).

2. **Register the IP address of the Fiery XJ in the host name database used by your system.**

   For installations that don't have a network administrator or a central host name database, add the Fiery XJ to the `hosts` file on the Windows NT 4.0 server. Also add it to the `hosts` file on any workstations that have TCP/IP loaded and will use the Fiery utilities.

Adding an entry for the Fiery XJ to the Windows NT 4.0 hosts file

The `hosts` file maps remote devices to IP addresses. Host names are used in TCP/IP environments to locate IP addresses. Users can then communicate with any device over TCP/IP by using the host name rather than having to remember its IP address.

A generic `hosts` file is added when you install TCP/IP support.

NOTE: If there is no system-wide host name database, use the following procedure to create a local `hosts` file. If there is a system-wide host database, skip the following procedure.

TO ENTER THE HOST NAME OF THE FIERY XJ:

1. **On the Windows NT server and on each client computer, navigate to the hosts file that you use for your network or for your local computer.**

   The path to a local hosts file will resemble the following:

   `c:\WINNT\system32\drivers\etc\hosts`

2. **Open the hosts file with any ASCII text editor such as Notepad (Windows) or Edit (DOS).**

3. **Type an entry for the Fiery XJ (IP address and host name) similar to the other entries in this file.**

   The Windows NT 4.0 hosts file provides compatibility with the UNIX hosts file. The hosts file is used as a local Domain Name Services (DNS) equivalent. It has the same format as the /etc/hosts file on UNIX servers. The format of the hosts entry is:

   IP Address<TAB>host name<TAB>#comments

   where <TAB> indicates that you press the Tab key.

   NOTE: Type the entry without any spaces, but substitute the values appropriate for your environment. before the IP address. It is recommended that the host name be the same name you gave to the Fiery XJ in the Server Setup on the Control Panel.

   A sample entry for the Fiery XJ as the remote computer/printer, in which the host name of the printer is defined as Astro is:

   127.0.0.1<TAB>Astro<TAB>#Marketing_printer

   To determine the IP Address and Server Name of your system, print a Configuration page from the Fiery XJ Control Panel (see page 2-46).

   NOTE: If the Fiery XJ has already been defined in an /etc/hosts file or equivalent host name database on a UNIX workstation on your network, it is recommended that you use the same host name here as you used for the name of the remote printer in the /etc/printcap file.

4. **Save the file as "hosts" and exit the application.**

Installing the Fiery XJ as a shared PostScript printer

The first step in creating a printer is installing the Windows NT PostScript printer driver and the current Fiery XJ PPD (PostScript printer description), which gives your applications access to some printer features.The installation instructions in *Getting Started* can be used for every workstation that will print directly and independently to the Fiery XJ. However, if you are an administrator running Windows NT 4.0 Server or Windows NT 4.0 Workstation, you can also create a printer and share it with Windows NT 4.0 clients on the network. When a printer is shared, Windows NT 4.0 clients who are not able or are not given permission to establish an independent network connection to the Fiery XJ can still print through the server.

You can specify sharing of the printer during installation of the Fiery XJ printer files. If you have not yet installed the Fiery XJ printer files on the NT 4.0 print server computer, do so now following the instructions in *Getting Started*. During installation, enter the information necessary to share the Fiery XJ.

If you have already installed the Fiery XJ printer files on the computer you are using as an NT 4.0 print server, use the following procedure to share the Fiery XJ.

TO MAKE THE FIERY XJ A SHARED POSTSCRIPT PRINTER ON A WINDOWS NT 4.0 COMPUTER:

1. **Click Start > Settings > Printers to open the Printers window.**
2. **Select the Fiery XJ.**
3. **Open the Properties dialog box (right-mouse click and choose Properties) and click the Sharing tab.**
4. **Select Shared and enter a share name for the Fiery XJ.**

   Use a DOS-compliant share name if your network includes Windows for Workgroups clients. Use a name that indicates the Fiery XJ print connection if you wish to publicize that information.
5. **Click OK.**

Setting up another printer

If more than one Fiery XJ print connection is published, you may wish to create a printer for each print connection so that you and other users can print to each connection directly.

TO SET UP ANOTHER PRINTER WITH WINDOWS NT 4.0:

1. **Click Start > Settings > Printers to open the Printers window, and then double-click Add Printer.**
2. **Using the instructions in "Setting up printing with Windows NT 4.0" in *Getting Started*, install another copy of the Fiery XJ printer files.**

   When prompted to specify the printer name, you may want to enter a name that indicates the printer's queue.

3. **Follow the instructions in "Completing the Windows NT 4.0 printer connection" in *Getting Started* to set up the new printer for TCP/IP and lpd printing.**

   In the first line of the Add LPR compatible printer dialog box, enter the same IP address or host name used for the first printer.

   In the second line of the Add LPR compatible printer dialog box, enter `print`. The queue name is case-sensitive; be sure to enter it in all lowercase.

Configuring Windows NT 4.0 clients

Each client of a Windows NT 4.0 server is already using a network protocol to communicate with the server. Each client can print to the Fiery XJ if it has been shared by a Windows NT 4.0 Server or Windows NT 4.0 Workstation computer. In that case, the client does not have to use the same network protocol to connect to the Windows NT 4.0 server as the server uses to communicate with the Fiery XJ.

TO CONNECT AND PRINT TO THE FIERY XJ SHARED BY THE WINDOWS NT 4.0 SERVER:

- **For Windows NT 4.0 Workstation clients, before printing, connect to the print server computer and select the Fiery XJ. Right-click and choose the Open command.**

  When prompted, click Yes to have Windows set up the printer.

  After clients have selected the printer, they can choose it from the Print Setup, Page Setup or Print dialog box of their application. Clients can change printing options for their own job, but printer properties are grayed and not available for changing. When a client chooses Print, the job is transmitted to the Windows NT 4.0 print server, and from there to the selected print connection on the Fiery XJ. The job is listed in the Print Manager on the client workstation, and the administrator can track it in the Fiery XJ window in the Print Manager on the Windows NT 4.0 print server.

Configuring Windows NT 4.0 workstations for the Fiery utilities

To run the Fiery utilities on a TCP/IP network, the workstation must be running Windows NT 4.0 Server or Windows NT 4.0 Workstation, with Microsoft TCP/IP protocols loaded and bound to the network driver.

TO ENABLE THE FIERY UTILITIES ON THE FIERY XJ:

1. **Perform Fiery XJ Setup and enable TCP/IP.**

   In Network Setup, choose Protocol Setup and perform TCP/IP Setup and Ethernet Setup. (Perform Token Ring Setup if the Token Ring option is installed.) Enabling TCP/IP automatically enables communication for the Fiery utilities.

2. **Set a valid, unique IP Address for the Fiery XJ, and then set the subnet mask and a gateway address if necessary.**

   Before you exit Network Setup, you can also choose Service Setup and enable Web Services (see page 3-26).

3. **Save changes after Setup.**

   Performing these steps once enables the connection for all users on the TCP/IP network.

   See *Getting Started* for information on installing the Fiery utilities and configuring the connection to the server.

Using AppleTalk with Windows NT 4.0

Windows NT 4.0 computers can also use AppleTalk for printing to the Fiery XJ. When creating a printer that you are sharing with AppleTalk users, do not "capture" the printer. Capturing the printer forces all users to print to the server rather than directly to the printer. If you capture the printer, Fiery XJ print connections will not appear in the Mac OS Chooser.

Loading the AppleTalk protocol on a Windows NT 4.0 server is very similar to loading TCP/IP. If you are only using AppleTalk, you do not need an IP address or a Windows NT hosts file entry for the Fiery XJ connections.

Mac OS users can print directly to the Fiery XJ and should install the AdobePS printer driver for the Mac OS and the Fiery XJ PPD. All of these installations are described in *Getting Started*.

For Windows NT 4.0 computers, use the Microsoft PostScript Printer driver provided with Windows NT 4.0 and the Fiery XJ PPD from the Fiery XJ User Software CD. Windows 95 clients should install the Adobe PostScript Printer driver from the Fiery XJ User Software CD.

Configuring the Fiery XJ and clients for Fiery WebTools

The Fiery WebTools provide access to many Fiery XJ functions via the Internet (or your company's intranet), providing additional flexibility in remote management. You can access the Fiery WebTools from a Mac OS, Windows 95, or Windows NT 4.0 computer.

TO SET UP FIERY WEBTOOLS ON THE FIERY XJ:

1. **Perform Fiery XJ Setup and enable TCP/IP.**

   In Network Setup, choose Protocol Setup and perform TCP/IP Setup and Ethernet Setup. (Perform Token Ring Setup if the Token Ring option is installed.)

2. **Set a valid, unique IP Address for the Fiery XJ, and then set the subnet mask. Set a gateway address if necessary.**

3. **Exit TCP/IP Setup and exit Protocol Setup.**

4. **Choose Service Setup, and choose Web Services Setup.**

5. **For Enable Web Services, select Yes.**

6. **Exit Service Setup and exit Network Setup, and select Yes at the Save Changes screen.**

7. **In Fiery XJ Printer Setup, confirm that Publish Print Queue is set to Yes.**

8. **Exit Printer Setup, and select Yes at the Save Changes screen.**

TO SET UP FIERY WEBTOOLS ON ANY WORKSTATION:

1. **Enable TCP/IP networking.**
2. **Make sure the workstation has a valid, unique IP address and subnet mask, and a gateway address if needed.**
3. **Make sure an Internet browser that supports the Java language and frames is installed and that Java is enabled.**

   See *Getting Started* for more information on supported browsers and on Fiery WebTools requirements.

TO ACCESS THE FIERY WEBTOOLS:

1. **Start the Internet browser.**
2. **Enter the IP address or DNS name of the Fiery XJ.**
3. **Press Return.**

   The Fiery XJ home page appears. Follow the directions given on the home page to launch or to find out more information about a particular WebTool.

4. **Use the Configure button to enable only certain WebTools for users.**

Fiery XJ on a network with UNIX workstations

When a UNIX workstation is configured with the lpd protocol, and connected to the Fiery XJ over a TCP/IP network, it can print directly to the Fiery XJ.

Setting up UNIX workstations requires an administrator with root privileges. After the initial configuration, UNIX users simply submit print jobs to a named printer.

The Fiery utilities and Fiery WebTools are not available on the UNIX platform. A Windows or Mac OS computer on the same network as the UNIX computer that is set up to use TCP/IP for printing to the Fiery XJ can use Fiery WebSpooler to manage print jobs that originate from all workstations on the network.

Tips for experts—UNIX workstations

Setting up the Fiery XJ in a UNIX environment has the same requirements as setting up any printer or new device:

- **A distinct IP address is needed for the Fiery XJ as well as for each workstation on the network.**
- **You select a name for the Fiery XJ that goes with the IP address.**
- **The IP address of the Fiery XJ must be registered for the network in a host database, and also on the Fiery XJ itself.**
- **The Print queue must be published.**

  Lpd printing to the Direct connection is not supported.

The following information applies especially to the Fiery XJ:

- **Fiery XJ is a printer controller that understands lpd protocols.**
- **Fiery XJ has a remote printer name you must use in order to communicate with it successfully.**

  See the next section for details.

Important note about the remote printer name

Whichever UNIX system you use, the name used for remote printer (or `rp` in the `/etc/printcap` file) in configuring the Fiery XJ must be `print`.

To help identify the printer on your network, you can append an extension to the end of the remote printer name, for example `print_r2`.

The remote printer or `rp` name is also used when setting up your Windows NT 4.0 workstation or server to connect to the Fiery XJ over TCP/IP. Enter the remote printer name when you set up your Windows NT 4.0 printer, as the "Name of printer on that (lpd host) machine" in the Add lpd compatible printer dialog box (see *Getting Started*).

Setting up the Fiery XJ on TCP/IP networks

Every machine (host) on a TCP/IP network, including the Fiery XJ, must have a unique 32-bit internet address (IP address). Contact your network administrator to obtain an address for the Fiery XJ. Workstations on a TCP/IP network can print directly to the Fiery XJ as a remote printer, or can print to a Windows NT 4.0 server or UNIX workstation acting as a print server.

TO SET UP FIERY XJ PRINTING ON UNIX SYSTEMS:

1. **Specify the appropriate settings in Fiery XJ Server Setup.**

   To access Fiery XJ Setup, see page 2-1.

2. **Specify the appropriate settings in Fiery XJ Network Setup.**

   Run the setups listed in the table on page 2-11 and enter a valid IP address, subnet mask and gateway address for the Fiery XJ.

3. **Specify the appropriate settings in Fiery XJ Printer Setup.**

   Publish the Print queue.

TO SET UP TCP/IP FOR COMMUNICATION WITH THE FIERY XJ:

1. **A superuser (with root login) must add the Fiery XJ to the network's IP host table or other system database of network printers.**

2. **In the file or utility used by your network, specify the remote printer name, the print server protocol, the queue, and the spool file for the Fiery XJ name you assigned.**

3. **Make the Fiery XJ available as a printer to other network users.**

4. **To verify the TCP/IP connection, ping the IP address or the host name. From any computer on the network, at the command prompt, type:**

   ```
   ping <IP address>
   ```

   Type the Fiery XJ IP address assigned in Fiery XJ Network Setup.

   After the Fiery XJ is set up as a network printer, you can also ping the name you gave to the Fiery XJ:

   ```
   ping <hostname>
   ```

The server should respond with a message such as

Reply from <IP address> ...

Some systems will respond with a continuous display of output from the IP address. To stop the output, type Control-C. You can use the ping command at any time.

TO PRINT TO THE FIERY XJ:

- **On a UNIX system running SunOS 4 or other BSD-based variant, use the lpr command to send a job to the Fiery XJ.**
- **On a UNIX system running Solaris 2 or any System V implementation of UNIX, use the lp command to send a job to the Fiery XJ.**
- **Windows NT 4.0 users with the TCP/IP protocol loaded can send print jobs to the Fiery XJ from their applications or from a command prompt.**

  Printing from applications uses the Windows NT PostScript driver. This gives Windows NT 4.0 users the ability to set print options, which is not possible from the command line.

Managing print jobs

UNIX network administrators can use UNIX utilities for viewing the list of jobs, and for printing and removing jobs that are spooled on UNIX servers. If the network includes a Windows NT 4.0 workstation that has TCP/IP protocols loaded, you can use Fiery Downloader to download fonts and files.

You can also use Fiery Spooler or Fiery WebSpooler to manage jobs from remote workstations. See the *User Guide* for more information.

Even without the Fiery utilities, you can:

- Set up the Fiery XJ to print a log of printed jobs automatically after every 55 jobs (see Job Log Setup on page 2-40)
- Print a Job Log manually at any time from the Functions menu on the Fiery XJ Control Panel (see the *User Guide*).

Chapter 4: Administering the Fiery XJ

This chapter provides tips on managing Fiery XJ printing, and includes some troubleshooting hints.

Administrator functions

Administration features are included with the user software and are built into the Fiery XJ itself. The following table describes where to find information on these features (page references refer to this manual).

For these operations:	And these tasks:	See:
Setting up network servers	Setting up servers to manage and share printing services	This manual
Connecting and setting up the Fiery XJ	Connecting the Fiery XJ and performing Fiery XJ Setup from the Control Panel. Setting up the Fiery XJ to allow user access to Fiery WebTools	This manual This manual, *Getting Started*, and *Release Notes*
Setting up the printing environment	Setting printer defaults, including modes, imaging, paper size handling, error handling. Setting printer model-specific options	Printer Setup, page 2-35 PS Setup, page 2-36 *User Guide*
Setting up the job environment	Publishing the Direct connection or the Print queue to end users on various platforms	Printer Setup, page 2-35, Chapter 3
Protecting integrity of users' jobs, maintaining consistency of Fiery XJ settings	Setting the Administrator password	Change Password, page 2-44
Setting up all new users	Setting up printing, including installing PostScript printer drivers and PPD files for the printer Installing optional user software Preparing users to access Fiery WebTools	*Getting Started*, *Release Notes*
Getting users started with printing	Printing to the Fiery XJ Setting job-specific options Using Fiery utilities	*User Guide*

For these operations:	And these tasks:	See:
Controlling the job flow	Using Fiery utilities and Fiery WebTools for managing job priorities, tracking current jobs, canceling jobs, reprinting from the Printed queue	*User Guide* *Release Notes*
Job accounting	Viewing, printing, and exporting the Job Log, user notes Setting automatic printing and clearing for the Job Log	*User Guide* page 2-39
Calibration and color management	Printing with CMYK simulations and calibrating the Fiery XJ Printing color samples and swatch pages	*Getting Started*
Maintaining optimum Fiery XJ performance	Tips Deleting jobs, clearing queues	page 4-2
Troubleshooting	Troubleshooting Fiery XJ Setup Printing, printer, and user software troubleshooting	page 4-3, also *User Guide*

Maintaining optimal Fiery XJ performance

The Fiery XJ does not require maintenance. Beyond the obvious requirements of servicing and maintaining the printer and replenishing consumables, there are a few things you can do that will improve the overall performance of your system:

- **Make the best use of your network connections**

  Publish only connections that will be used; the Fiery XJ constantly checks all published connections, even if they are inactive. Match the NetWare polling interval and the number of queues or connections to the demand for printing.

  Review the published connections by printing a Configuration page. Eliminate the connections that are not being used. It is easy to re-establish them when needed. In general, network connections provide far superior throughput than a parallel port connection.

- **Leave some jobs that are less urgent to times when there is less network traffic or printing**

- **Reduce unnecessary two-way communication**

Large numbers of remote users running Fiery utilities from remote workstations, especially with frequent updates, may have a significant effect on Fiery XJ performance.

- **Make sure you have adequate disk space on the Fiery XJ**

  Periodically review the number of jobs being retained in the Printed queue.

  An administrator can print or delete jobs that are in the Printed queue. Consider printing or offloading inactive jobs. If disk space on the Fiery XJ is frequently low, you can disable the Printed queue (in Server Setup).

  To move or remove queued jobs, use Fiery Spooler or Fiery WebSpooler. When you free up disk space by removing inactive jobs, new jobs are spooled and printed more quickly.

  An internal hard drive upgrade may be available. Check with your service representative for more information.

Troubleshooting the Fiery XJ

Startup diagnostics are described in the *Installation and Service Guide* for service technicians. Contact your authorized service/support center if you see any startup error messages on the Fiery XJ Control Panel or if the Fiery XJ does not reach Idle status.

Troubleshooting during Setup from the Control Panel

The following section explains some error and alert messages that you may see during Fiery XJ Setup that might not be self-explanatory.

Network Setup messages

After this Setup screen:	This message:	Means:
Enable AppleTalk (Network Protocol Setup > AppleTalk Setup)	No AppleTalk zone found.	The Ethernet network cable is not attached to the connector on the Fiery XJ, or the network cable is not plugged into the hub or network. If your AppleTalk network has zones, and you want to specify a zone for the Fiery XJ, you must connect the network cable to the Fiery XJ before performing AppleTalk Setup. Also could mean that the AppleTalk network doesn't have zones. Zones are not required for printing to the Fiery XJ. Press OK to continue.

After this Setup screen:	This message:	Means:
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	Enable at least one network port (Ethernet or Token Ring) in Port Setup before beginning Protocol Setup or Service Setup.
Frame Type selection (Network Protocol Setup > IPX>SPX Setup)	Invalid frame size.	The network hub is not connected to a Novell machine when the Fiery XJ tries to bind.
	Warning! IPX network number is zero.	No other IPX machine can be found on the network, or the network hub is not connected to the network, when the Fiery XJ tries to bind. When this occurs, the network number defaults to zero.
Token Ring Setup	Can't autodetect the ring speed. No device on ring.	The Fiery XJ is trying to detect the current ring speed, but it is the only machine on the Token Ring network. Connect another machine to the Token Ring network first, before connecting the Fiery XJ.
Enable NDS (Network Service Setup > PServer Setup > NDS Setup)	No NDS trees found.	No NDS trees were found on the Novell network. Check to see that the frame types on the Fiery XJ are properly configured.
Select NDS Tree (Network Service Setup > PServer Setup > NDS Setup)	Warning! Selecting a new NDS tree deletes Bindery setup.	You have previously connected the Fiery XJ to a different NDS tree. NetWise supports only a single NDS tree connection. To avoid a potential conflict with an existing tree connection (for example, if the connection was made through a NetWare 4.x server in emulation mode), all bindery settings will be deleted. If you choose OK, and choose Yes in the following message screen (Delete Bindery setup and continue?), bindery settings are deleted and have to be re-entered in Bindery Setup. To avoid deleting the bindery settings, press the Menu key, or select OK and choose No in the following message screen (Delete Bindery setup and continue?). Repeat NDS Setup without changing the NDS tree, or exit to Bindery Setup to review your current bindery settings.
Navigating NDS tree (Network Service Setup > PServer Setup > NDS Setup)	___ is empty.	The chosen container contains no sub-containers or objects relevant to the current mode of navigation.

After this Setup screen:	This message:	Means:
Bindery Setup (Network Service Setup > PServer Setup > Bindery Setup)	If you also plan to use NDS, set up NDS before Bindery.	No NDS settings are present. You are reminded to perform NDS Setup before Bindery Setup in case your network includes both NDS and bindery servers.
Select File Server From List (Network Service Setup > PServer Setup > Bindery Setup)	Error. Cannot open bindery connection to NDS server.	Select this server through NDS setup or disable NDS and select it through bindery.
Select File Server From List (Network Service Setup > PServer Setup > Bindery Setup)	No NetWare file server found.	No file server was found when Fiery XJ queried the network to create a list of supported servers or a list of all servers. Check cable connections and make sure the NetWare server is turned on.
Enter First Letters of Server Name (Network Service Setup > PServer Setup > Bindery Setup)	File server name not found. Try again?	No file server with those letters was found when Fiery XJ queried the network. Check the name of the NetWare file server, check cable connections, and make sure the NetWare server is turned on.
View Server List, Edit Connection (Network Service Setup > PServer Setup > Bindery Setup)	No file server is selected.	No file server has been added in Bindery Setup.
Add File Server (Network Service Setup > PServer Setup > Bindery Setup)	All connections used. Remove server?	You have added the maximum number of bindery servers, which is eight. You now have the option of disconnecting one of those servers, so as to add another.
Add Server, Enter Your Login Name, Enter Your File Server Password (Network Service Setup > PServer Setup > Bindery Setup)	No NetWare print server found.	No print server was found when Fiery XJ queried the file server you selected. You must configure a print server and a print queue for every NetWare file server that will handle Fiery XJ print jobs (see page 3-4).

After this Setup screen:	This message:	Means:
Any Bindery Setup screen	Novell error code, followed by a message.	Novell NetWare has reported an error. The Control Panel reports the error number and displays a brief message. For the most common errors (listed in the following table), a screen is displayed that enables you to retry the action that evoked the error, such as adding a server. If that is not possible, you are prompted to notify the Novell administrator, who will need to troubleshoot the network. Consult NetWare Administrator documentation for further explanation of Novell error codes.

In Network Setup, when you configure the IPX (Novell) connection, the Fiery XJ queries the network for Novell file servers and trees, and attaches to them temporarily. If a guest login is enabled, it will be used. If not, you'll be prompted to log in from the Fiery XJ Control Panel.

If the selected NetWare file server or tree does not have a guest account, or if the guest account has expired or has been disabled by the NetWare supervisor, you will be prompted to notify the IPX (Novell) administrator. In that case, you (or the supervisor) have two options:

- Enable a guest account on the NetWare server or tree for the purpose of setup.
- Log in with a different account. At the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or enter another valid login name. When you are prompted for a password, enter the correct password for the account you named.

For any Novell error, make sure:

- Your IPX (Novell) network is connected to the Fiery XJ.
- The NetWare server you are trying to access is running.
- The Novell network has been configured with at least one print server and queue for the Fiery XJ.
- You have the appropriate permissions and login information, including username and password, if necessary.
- The Fiery XJ is configured with the correct frame types for communication with the desired Novell servers.

Novell error messages

Novell error:	Cause:	Suggested action or exit:
220 Guest account not available	The guest account, which you have chosen for initial login, has expired or has been disabled by the NetWare supervisor.	Enable a guest account on the NetWare server for the purpose of setup. Alternatively, log in to a different account. In the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or another valid login name. When you are prompted for a password, enter the correct password for the account you named.
222 Unable to log in to server. Password has expired for login name	The server has connected to a file server, but is unable to log in to the file server or print server because the password has expired for the login account name or the named print server.	Select a different login account or print server. The error screen exits to the File Server Login screen (if login to file server failed) or NetWare Print Server screen (if login to Print Server failed). Pressing the Menu button returns to the PServer Setup screen.
252 Unable to log in to server. Login does not exist.	The server has connected to a file server, but is unable to log in to the server because the selected login account does not exist on the file server.	Select a different login account. The error screen exits to the File Server Login screen. Pressing the Menu button returns to the PServer Setup screen.
255 Unable to connect to file server. File server is down or out of connections.	The Novell file server is down or out of connections. This error occurs while the server is trying to connect to the requested file server.	Select a different file server (or try to get someone else to log off). Pressing the Menu button returns to the PServer Setup screen.
nnn Notify IPX (Novell) Administrator.	Indicates other network errors when the Fiery XJ is already connected to a file server. Something unexpected has happened and the user generally cannot recover without intervention of the network administrator. Error #197 indicates that you have exceeded the number of login attempts permitted for this account on the NetWare file server. Error #255 usually indicates a hard failure.	Notify the Novell administrator and report the error number. The error screen exits to the PServer Setup screen.

Runtime error messages

For canceling jobs, calibration alerts, and error messages related to printing and calibration, see the *User Guide*.

See the *User Guide* for additional runtime error messages, including copier alerts to load media in trays or cassettes, and a Disk Full message. These messages are reported by the Control Panel and Fiery WebSpooler.

PostScript error reporting can be turned on as a print option from Mac OS applications that use a PostScript Level 2 or PostScript 3 driver or by setting the PS Setup option Print to PS error to Yes.

Check power and cable

This message indicates that the interface cable between the Fiery XJ and the copier is not connected, or a print job is ready but the copier is not turned on.

Printer not found—TCP/IP or IPX networks

Most failures to find a printer on the network are due to conflicting or missing name or address settings for the Fiery XJ. You must enter particular names in certain places. The required names are:

- TCP/IP host name (also known as the DNS name), which is defined by your organization.

  Enter the host name as the Server Name on the Control Panel.

- Remote printer (internal machine) name. Use one of the following:

  print
  print_r2

NOTE: If your network environment includes a UNIX server, make sure the remote printer name does not include a hyphen or slash character.

You must reconfigure one of the Fiery utilities on each workstation if you change the DNS name (also known as the TCP/IP host name) of the Fiery XJ.

Check the table below for the appropriate name to use.

In this location:	For this item:	IPX/SPX networks:	TCP/IP networks:	See:
Server Setup on Fiery XJ Control Panel	Server Name option	User-selected name	User-selected name	page 2-8
Windows NT hosts file	host name	—	DNS name (TCP/IP host name)	page 3-18
Windows NT setup for TCP/IP	lpd host name	—	DNS name (TCP/IP host name)	page 3-18 and *Getting Started*
	Name of printer on lpd host machine	—	queuename: print	
UNIX /etc/printcap file (BSD)	rp line	—	queuename: print	page 3-28
Solaris	lpadmin queuename	—	queuename: print	
NetWare administration utility	print queues (must be all lowercase and in English)	_direct _print	—	—
Add New Server dialog box, when configuring a Fiery utility	New Device	r2	r2	*Getting Started*
	Server Name	Server name of Fiery XJ as specified in Setup	DNS name (TCP/IP host name)	

Cannot connect to Fiery XJ with Fiery client utilities

If clients cannot connect to the Fiery XJ, check the following:

- Fiery XJ Setup—the appropriate network protocol must be enabled, with the correct parameters (for example, for TCP/IP, the IP address, etc.; for IPX/SPX, a correct frame type setting).

  Verify that in IPX/SPX Setup the IPX network protocol has bound to all the frame types in use by the NetWare servers that handle Fiery XJ print jobs.

  You can check these settings quickly by printing a Configuration Page.

- On the client workstation—the appropriate network protocol(s) must be loaded, and your Windows directory should contain a configured Efinl.ini file.

A

Appendix A: Token Ring Network Option

Token Ring is an alternative network architecture to Ethernet architecture. Token Ring networks offer a high resistance to failure and are commonly used in large or high-traffic network installations.

Token Ring networks operate by passing a network token around the electronic equivalent of a ring. The token is a data packet that circulates from one network node to another, controlling access to the network. In practice, each workstation is connected to a port on one or more media attachment units (MAUs) which act as network hubs for the ring connection.

This appendix describes the Token Ring option and Token Ring cable connections, and refers you to the remaining configuration that's required for printing to the Fiery XJ.

Fiery XJ Token Ring option

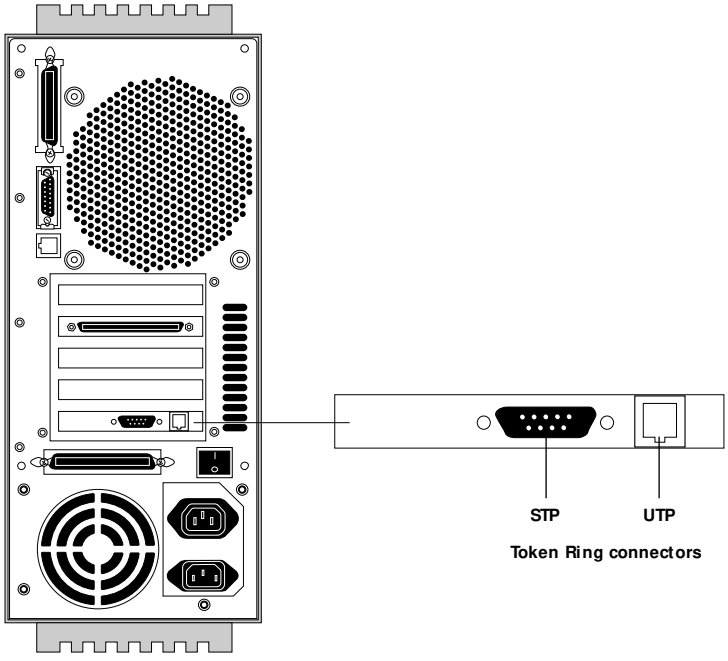
Fiery XJ system software supports Token Ring networks that use IPX and TCP/IP protocols. To use the Fiery XJ with a Token Ring network, an optional EFI Token Ring network interface card must be installed in the Fiery XJ chassis.

Connecting Token Ring hardware

The service/support center that installs the Fiery XJ usually installs the Token Ring option at the same time, and configures the Fiery XJ to enable printing.

The Token Ring option uses the EFI Token Ring card. Software drivers for the card are included in the Fiery XJ system software.

Back view of the Fiery XJ with the Token Ring option installed



Turn off the Fiery XJ before connecting it to any network device.

NOTE: Do not attach cable to both Token Ring connectors.

TO CONNECT UTP (UNSHIELDED TWISTED PAIR) CABLE TO THE FIERY XJ:

- **With the Fiery XJ turned off, connect cable from the Token Ring MAU to the Fiery XJ Token Ring card.**

  Configure the NetWare, Windows NT, or UNIX server to print to the Fiery XJ (see the next two sections). Then proceed to page 2-2 for Fiery XJ Setup.

TO CONNECT STP (SHIELDED TWISTED PAIR) CABLE TO THE FIERY XJ:

- **With the Fiery XJ turned off, connect STP cable from the Token Ring MAU to the DB-9 STP connector on the Token Ring card.**

Configure the NetWare, Windows NT, or UNIX server to print to the Fiery XJ (see the next two sections). Then, proceed to page 2-2 for Fiery XJ Setup.

IPX/SPX installations

If your network uses IPX/SPX protocols with Token Ring, configure at least one printer, one Fiery XJ Print Server and one Fiery XJ Print Queue on the NetWare server as described in "Configuring a NetWare server for printing" on page 3-4. You can configure up to eight bindery servers and one NDS tree connection to the Fiery XJ. This total is the same whether the Fiery XJ is connected by Token Ring, by Ethernet, or by both. For more information, see "Setting up an NDS connection" on page 3-6.

TCP/IP installations

If your network uses TCP/IP protocols with Token Ring, configure at least one printer and one Fiery XJ queue on a Windows NT server (see "Configuring a Windows NT 4.0 server to support the Fiery XJ" on page 3-19), or on a UNIX server (see "Setting up the Fiery XJ on TCP/IP networks" on page 3-29).

Setting up Token Ring on the Fiery XJ

Token Ring Setup on the Control Panel is similar to Ethernet Setup. From Network Setup, perform Port Setup, Protocol Setup, and Service Setup. The setups you need are summarized in the table on page 2-11.

NOTE: Connect the Token Ring cable before doing Fiery XJ Network Setup, so that the Token Ring card can configure itself properly.

Setting up NetWare Windows clients

Client setup is exactly the same as for IPX clients using Ethernet. See "Setting up NetWare Windows clients for printing" on page 3-16 for details.

Index

D

E

F

M

N

O

P

T