ES3640e MFP

EFI Configuration Guide

Copyright

ES3640e MFP EFI Configuration Guide

P/N 59377201, Revision 1.1

June, 2005

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki assumes no responsibility for the results of errors beyond its control. Oki also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki.

While all reasonable efforts have been made to make this document as accurate and helpful as possible, we make no warranty of any kind, expressed or implied, as to the accuracy or completeness of the information contained herein.

3 | Copyright

All other terms and product names may be trademarks or registered trademarks of their respective owners, and are hereby acknowledged.

Legal Notices

APPLE COMPUTER, INC. ("APPLE") MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE APPLE SOFTWARE. APPLE DOES NOT WARRANT, GUARANTEE, OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE APPLE SOFTWARE IN TERMS OF ITS CORRECTNESS, ACCURACY, RELIABILITY, CURRENTNESS, OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE APPLE SOFTWARE IS ASSUMED BY YOU. THE EXCLUSION OF IMPLIED WARRANTIES IS NOT PERMITTED BY SOME STATES. THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

IN NO EVENT WILL APPLE, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, AND THE LIKE) ARISING OUT OF THE USE OR INABILITY TO USE THE APPLE SOFTWARE EVEN IF APPLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. Apple's liability to you for actual damages from any cause whatsoever, and regardless of the form of the action (whether in contract, tort [including negligence], product liability or otherwise), will be limited to $50.

PANTONE® Colors displayed in the software application or in the user documentation may not match PANTONE-identified standards.þ Consult current PANTONE Color Publications for accurate color. PANTONE® and other Pantone, Inc. trademarks are the property of Pantone, Inc.þ © Pantone, Inc., 2001.

Pantone, Inc. is the copyright owner of color data and/or software which are licensed to Electronics for Imaging, Inc.,þto distribute for use only in combination with the products, or software of Electronics for Imaging, Inc. þPANTONE Color Data and/or Software shall not be copied onto another disk or into memory except as part of the delivery of the Electronics for Imaging, Inc., products or software.

This product includes software developed by the Apache Software Foundation (http://www.apache.org/).

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 B Declaration of Conformity
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

Industry Canada Class B Notice
This Class B digital apparatus complies with Canadian ICES-003.

Avis de Conformation Classe B de l'Industrie Canada

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

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 Gerät wurde sowohl einzeln als auch in einer Anlage, die einen normalen Anwendungsfall nachbildet, auf die Einhaltung der Funkentstörbestimmungen geprüft. Es ist jedoch möglich, dass die Funkentstörbestimmungen unter ungünstigen Umständen bei anderen Gerätekombinationen nicht eingehalten werden. Für die Einhaltung der Funkentstörbestimmungen einer gesamten Anlage, in der dieses Gerät 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.

Die Einhaltung zutreffender Bestimmungen hängt davon ab, dass geschirmte Ausführungen benützt werden. Für die Beschaffung richtiger Ausführungen ist der Betreiber verantwortlich.

Software License Agreement

YOU SHOULD CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE USING THIS SOFTWARE. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT USE THE SOFTWARE. INSTALLING OR USING THE SOFTWARE INDICATES THAT YOU AGREE TO AND ACCEPT THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ACCEPT THE TERMS OF THIS AGREEMENT YOU MAY RETURN THE UNUSED SOFTWARE FOR A FULL REFUND TO THE PLACE OF PURCHASE.

License

Oki grants you a non-exclusive license to use the Software and accompanying documentation ("Documentation") included with the Product. The Software is licensed, not sold. You may use the Software solely for your own customary business or personal purposes. You may not rent, lease, sublicense or lend the Software or use the Software in any time sharing, service bureau, or similar arrangement.

You may not make or have made, or permit to be made, any copies of the Software or portions thereof, except one (1) copy for backup or archive purposes in support of your use of the Software as permitted hereunder. You may not copy the Documentation. You may not attempt to localize, translate, disassemble, decompile, decrypt, reverse engineer, discover the source code of, modify, create derivative works of, or in any way change any part of the Software.

The terms, conditions, and restrictions in the License Agreement apply to all bug fixes, patches, releases, release notes, updates, and upgrades related to the Software.

Proprietary Rights

You acknowledge and agree that all rights, title and interest, including all intellectual property rights, in and relating to the Software, Documentation and all modifications and derivative works thereof are solely owned by and shall remain with EFI and its suppliers. Except for the express limited license granted above to use the Software, no right or license of any kind is granted. You receive no rights or license under any patents, copyrights, trade secrets, or trademarks (whether registered or unregistered). You agree not to adopt, register, or attempt to register any EFI trademark or trade name ("EFI Mark") or any confusingly similar mark, URL, internet domain name, or symbol as your own name or the name of your affiliates or products, and not to take any other action which impairs or reduces the trademark rights of EFI or its suppliers.

Confidentiality

The Software is confidential, proprietary information of EFI and you may not distribute or disclose the Software. You may, however, permanently transfer all of your rights under this Agreement to another person or legal entity provided that: (1) such a transfer is authorized under all applicable export laws and regulations, including the U.S. Export Administration Regulations, (2) you transfer to the person or entity all of the Software and Documentation (including all copies, updates, upgrades, prior versions, component parts, the media and printed materials, and this Agreement); (3) you retain no copies of the Software and Documentation, including copies stored on a computer; and (4) the recipient agrees to the terms and conditions of this Agreement.

5 | Copyright

Remedies and Termination

Unauthorized use, copying, or disclosure of the Software, or any breach of this Agreement will result in automatic termination of this license and will make available to EFI other legal remedies. In the event of termination, you must destroy all copies of the Software, Documentation, and all component parts thereof. All provisions of this Agreement relating to disclaimers of warranties, limitation of liability, remedies, damages, governing law, jurisdiction, venue, and EFI's proprietary rights shall survive termination.

Limited Warranty and Disclaimer

EFI warrants to the original purchaser ("Customer") for thirty (30) days from the date of original purchase from EFI or its authorized retailer that the Software will perform in substantial conformance to the Documentation when the Product is used as authorized by EFI's specifications. EFI warrants the media containing the Software against failure during the above warranty period. EFI makes no warranty or representation that the Software will meet your specific requirements, that the operation of the Software will be uninterrupted, secure, fault-tolerant, or error free, or that all defects in the Software will be corrected. EFI makes no warranty, implied or otherwise, regarding the performance or reliability of any third party products (software or hardware. THE INSTALLATION OF ANY THIRD PARTY PRODUCTS OTHER THAN AS AUTHORIZED BY EFI WILL VOID THIS WARRANTY. IN ADDITION, USE, MODIFICATION, AND/OR REPAIR OF THE PRODUCT OTHER THAN AS AUTHORIZED BY EFI WILL VOID THIS WARRANTY.

EXCEPT FOR THE ABOVE EXPRESS LIMITED WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, EFI MAKES AND YOU RECEIVE NO WARRANTIES OR CONDITIONS ON THE SOFTWARE, EXPRESS, IMPLIED, STATUTORY, OR IN ANY OTHER PROVISION OF THIS AGREEMENT OR COMMUNICATION WITH YOU, AND EFI SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT OF THIRD PARTY RIGHTS.

Limitation of Liability

TO THE MAXIMUM EXTENT PERMITTED BY LAW, EFI AND ITS SUPPLIERS SHALL NOT 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 SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE OR FAILURE OF THE SOFTWARE, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THIS LIMITATION WILL APPLY EVEN IF EFI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. YOU ACKNOWLEDGE THAT THE PRICE OF THE PRODUCT REFLECTS THIS ALLOCATION OF RISK. BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

You are hereby notified that Adobe Systems Incorporated, a Delaware 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 any software, font programs, typefaces, and/or trademarks licensed or supplied by Adobe. Such provisions are made expressly for the benefit of Adobe and are enforceable by Adobe in addition to EFI. ADOBE WILL HAVE NO LIABILITY WHATSOEVER TO YOU FOR ANY ADOBE SOFTWARE OR TECHNOLOGY LICENSED HEREUNDER.

Export Controls

EFI's Products are subject to U.S. export laws and regulations, including the U.S. Export Administration Regulations, as well as foreign export laws and regulations. You agree that you will not use, distribute, transfer, export, or re-export any portion of the Product or the Software in any form in violation of any applicable laws or regulations of the United States or the country in which you obtained them.

U.S. Government Restricted Rights:

Use, duplication, or disclosure of the Software by the United States Government is subject to restrictions as set forth in FAR 12.212 or DFARS 227.7202-3 -227.7202-4 and, to the extent required under U.S. federal law, the minimum restricted rights as set out in FAR 52.227-14, Restricted Rights Notice (June 1987) Alternate III(g)(3)(June 1987) or FAR 52.227-19 (June 1987). To the extent any technical data is provided pursuant to the Agreement, such data is protected per FAR 12.211 and DFARS 227.7102-2 and to the extent explicitly required by the U.S. Government, is subject to limited rights as set out in DFARS 252.227.7015 (November 1995) and DFARS 252.227-7037 (September 1999). In the event that any of the above referenced agency regulations are modified or superceded, the subsequent or equivalent regulation shall apply. The name of the Contractor is Electronics for Imaging.

General

The rights and obligations of the parties related to this Agreement will be governed in all respects by the laws of the State of California exclusively, as such laws apply to contracts between California residents performed entirely within California. The United Nations Convention on Contracts for the International Sale of Goods and any other similar convention does not apply to this Agreement. For all disputes related to this Agreement, you consent to the personal and exclusive jurisdiction and venue of the state courts in San Mateo County, California and the federal court for the Northern District of California. This Agreement is the entire agreement held between us and supersedes any other communications or advertising with respect to the Software. If any provision of this Agreement is held invalid, such provision shall be deemed modified to the extent necessary to be enforceable and the other provisions in this Agreement shall continue in full force and effect.

If you have any questions, please see EFI's web site at www.efi.com.

Electronics for Imaging

303 Velocity Way

Foster City, CA 94404

Contents

Chapter 3: Preparing for Fiery Setup

Chapter 4: Performing Setup from the Printing Unit Control Panel

Chapter 5: Setting up the Fiery from a Windows

Computer

Chapter 6: Configuring Fiery WebTools

Chapter 7: Administering the Fiery

Appendix A:Troubleshooting

About the Documentation

This manual is part of a special set of Fiery Network Controller for ES3640e MFP documentation that includes the following manuals for users and system administrators. Most are available as Acrobat PDF (Portable Document Format) files on the User Documentation CD.

- The *User Software Installation Guide* describes how to install software from the User Software CD to enable users to print to the Fiery, and also describes setting up printing connections to the Fiery.

- The *Configuration Guide* explains basic configuration and administration of the Fiery for the supported platforms and network environments. It also includes guidelines for setting up UNIX, Windows NT 4.0/2000/Server 2003, and Novell NetWare servers to provide printing services to users.

- The *Printing Guide* describes the printing features of the Fiery for users who send jobs from their computers.

- The *Color Guide* provides information on managing the color output of the Fiery. It explains how to calibrate your Fiery and take advantage of the Fiery ColorWise® color management system, as well as features in Fiery ColorWise Pro Tools™.

- The *Fiery Color Reference* addresses concepts and issues associated with managing color output of the Fiery and outlines key workflow scenarios. In addition, it offers information on printing color documents from popular Microsoft Windows and Apple Mac OS applications.

- The *Job Management Guide* explains the functions of the Fiery job management utilities, including Command WorkStation™, Command WorkStation LE™, and DocBuilder Pro™, and how you can use them to monitor and control jobs on the Fiery. This manual is intended for an operator or administrator, or a user with the necessary access privileges, who monitors and manages job flow, performs color calibration, and troubleshoots problems that may arise.

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

Introduction

This manual is intended for anyone who is responsible for integrating the Fiery into a business environment that includes networked personal computers. After the Fiery and client workstations are set up, individual users can print to the Fiery as a high-performance PostScript printer.

This manual describes how to set up network servers and clients to use the Fiery and how to install user software and set up printing from Microsoft Windows and Apple Mac OS computers. For general information on using your computer, your software, or your network, see the manuals that accompany those products.

Note: The term "Fiery" is used in this manual to refer to the Fiery Network Controller for ES3640e MFP. The name "Aero" is used in illustrations to represent the Fiery. The term "Windows" is used to refer to Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP, and Windows Server 2003, wherever appropriate. "Setup" is used to refer to configuring the Fiery for proper performance in your network environment, including settings that affect all jobs. The administrator can perform Setup from the WebSetup and Command WorkStation.

The Fiery includes support for the Fiery WebTools™ and software for Command WorkStation, which allow an operator to manage all jobs sent to the ES3640e MFP. Although it may not be the case at all sites, the documentation for this product assumes the presence of an operator who controls and manages jobs sent by users from remote workstations.

Any additional connectivity or administrative features specific to the printer are described in the *Printing Guide* or the *Readme file.*

About this manual

This manual covers the following topics:

• Basic configuration of the Fiery to support printing over AppleTalk, TCP/IP, and IPX (Novell) networks

• Administering network printing

• Configuring Novell and Microsoft Windows NT 4.0/2000/Server 2003 servers and UNIX systems to provide Fiery printing services

• Using the Fiery in mixed network environments

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

This manual is organized as follows:

• Chapter 1 illustrates the supported network configurations and shows the network connectors on the ES3640e MFP.

• Chapter 2 provides guidelines for setting up Windows network servers and UNIX systems for printing to the Fiery and for using Fiery WebTools.

• Chapter 3 describes how to prepare for Fiery Setup, including planning system security through access levels.

• Chapter 4 describes Fiery configuration (Setup) from the Control Panel.

• Chapter 5 describes Fiery Setup from a Windows computer.

• Chapter 6 describes setting up the Fiery for Fiery WebTools.

• Chapter 7 summarizes some administrative features of Fiery software that are available for IPX/SPX, TCP/IP, and AppleTalk networks, and offers troubleshooting hints.

• Appendix A describes issues that may occur in setting up the Fiery and offers solutions.

Note: Administrator features described in other manuals are summarized on .

Chapter 1:
Connecting to
the Network

This chapter summarizes the stages in setting up the Fiery, and includes diagrams that refer you to other chapters or other manuals for completing your installation. Check those references to find the information you need quickly.

Fiery on the network

When the Fiery is connected to a network, it behaves as a networked PostScript printer. The built-in Ethernet interface on the printer supports the following network protocols (rules that enable computers on a network to communicate with each other):

• 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 port 9100 is the printer server port number to publish print connections between the print server and a remote computer. The http protocol is commonly used for Web pages on the Internet and on intranets. The http protocol also supports IPP printing.

• IPX/SPX (Novell)

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

These protocols are supported on 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.

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

1

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 to a functioning network**

  Prepare a network node for the Fiery—obtain cable, route it to the location where the printer will be installed, and attach the cable to the network interface. For details, see page 3-58.

- **Configuring the network server**

  When network servers are required, you need to configure those servers to provide client access to the Fiery as a PostScript printer. For information on configuring network servers in Windows and UNIX network environments, see Chapter 2.

- **Setting up the Fiery**

  Configure the Fiery for your particular printing and network environment. First read Chapter 2, and then see subsequent chapters for details.

- **Preparing client workstations for printing**

  Install the files needed for printing, install additional user software, and connect the client to the Fiery over the network. These steps are described in the *User Software Installation Guide*, and some information is also provided in Chapter 2.

- **Administering the Fiery**

  Monitor and maintain system performance and troubleshoot problems that arise. For details, see Chapter 7 of this manual and the *Job Management Guide*.

Summary of Fiery network installation

CONNECTION
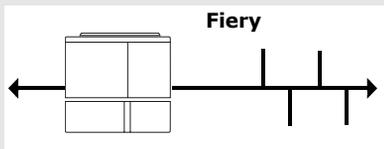
Prepare a network node. Connect the Fiery to the network. If you use a computer running Command WorkStation software, connect it to the network.

SERVER CONFIGURATION
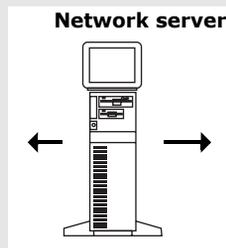
Configure UNIX, Windows NT 4.0/2000/Server 2003, and IPX (Novell) servers to specify Fiery print queues and Fiery users.

No special configuration of AppleShare servers is required.

FIERY SETUP
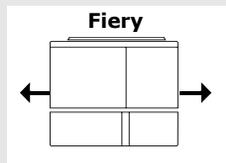
On the printer Control Panel, configure, at a minimum, the Server Setup, Network Setup, and Printer Setup.

CLIENT SETUP
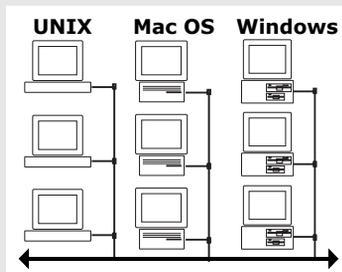
At each workstation that will print to the Fiery:

• Install the appropriate printer files and connect to one or more queues.

• For computers that will use them, install Fiery utilities and an Internet browser.

• Verify the Fiery in the list of printers and run a test print.

Fiery available on the network

Quick path to installation

The diagrams on the following pages show typical systems you can use to print and run 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" in the upper-left corner 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 your network uses more than one protocol or more than one type of workstation, combine the setups listed for each component of your system. Multiple protocols (shown in the diagrams as parallel lines) can run on the same cable. A solid connection from the Fiery with an arrow indicates that other supported network types can be operational at the same time.

The protocols used in these diagrams are indicated as follows:

IPX (Novell)

AppleTalk

**TCP/IP
(lpd, nbt, or
http)**

Parallel

Other
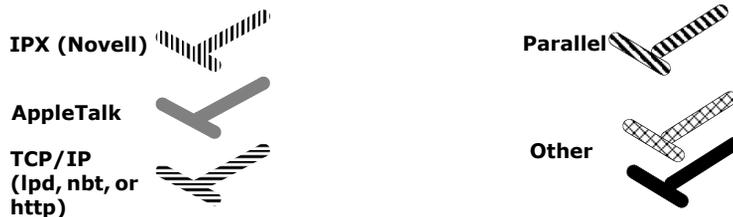
Mac OS environment with AppleTalk

Key to setup:

1 Mac OS computer   *User Software Installation Guide*

2 Fiery Setup   Chapter 4

Fiery built into the printer

2

TCP/IP (http) for Fiery WebTools

AppleTalk

Mac OS computer

1

Mac OS computer

1

Mac OS computers can print directly

Mac OS computer

1

AppleTalk protocol
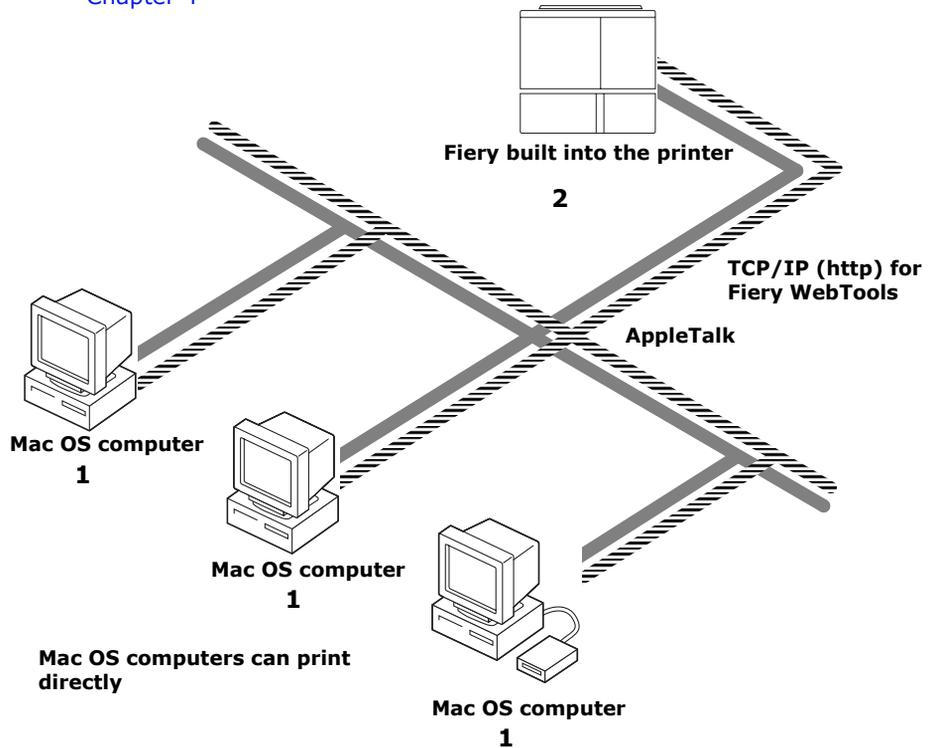
TCP/IP

Printing on this network

Mac OS computers can print directly using the AppleTalk protocol.

For using Fiery Utilities

Fiery utilities can be used with the AppleTalk protocol. To use ColorWise Pro Tools, TCP/IP is required.

For using Fiery WebTools

A Mac OS computer with TCP/IP (http) loaded.

Windows computers in a Novell environment

Key to setup:

1 NetWare server
2 Fiery Setup
3 NetWare client   *User Software Installation Guide*
4 Windows computer with SPX

Another supported protocol

Fiery built into the printer
2

NetWare server
1

IPX

TCP/IP (http) for Fiery WebTools

IPX

Windows computer: NetWare client
3

Windows computer: NetWare client
3

Windows computer: NetWare client running SPX
3, 4

IPX protocol

SPX protocol (TCP/IP or AppleTalk possible)

Printing on this network

All Windows computers can print through the NetWare server.

For using Fiery WebTools

A Windows computer with TCP/IP (http) loaded.
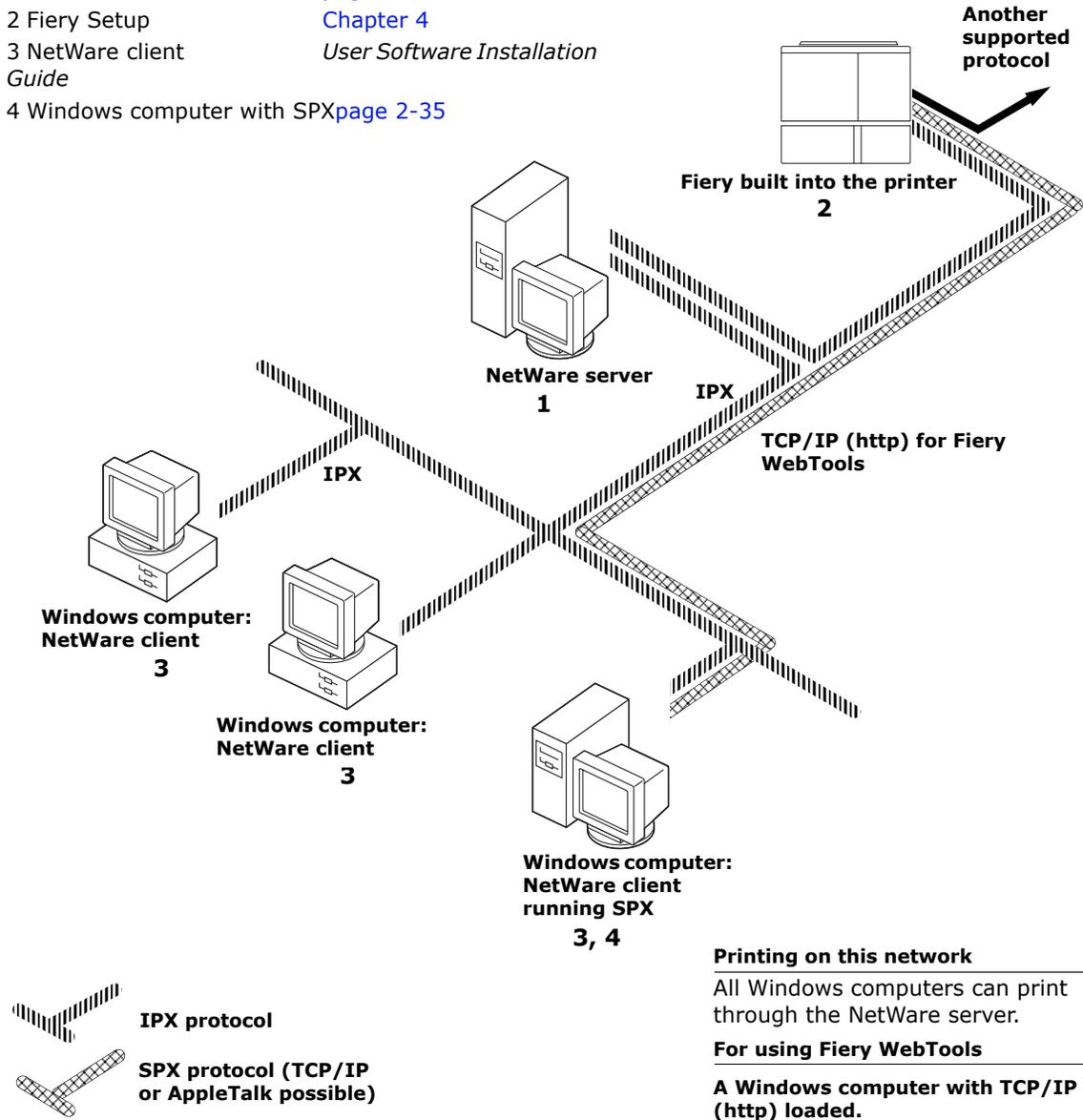
Windows NT 4.0/2000/Server 2003 Server environment

Key to setup:

1 Windows Server   page 2-28
2 Fiery Setup   Chapter 4
3 Windows client   page 2-30

Another supported protocol

Windows NT 4.0/2000/XP /Server 2003 Workstation or
Windows NT 4.0/2000/Server 2003 Server acting as print server   **1**

Fiery built into the printer

2

LAN with NETBEUI, etc.

TCP/IP (lpd) for printing TCP/IP (http) for Fiery WebTools TCP/IP for Fiery utilities

Windows computer

3

Windows computer

3

Windows computer with TCP/IP loaded

1

NETBEUI or other protocol available on the clients and the server

TCP/IP

Printing on this network

Windows clients can print using a protocol available on the Windows NT 4.0/2000/Server 2003 print server.

Windows computers can print using TCP/IP with the lpd protocol.

For running Fiery utilities and Fiery WebTools

A Windows computer with TCP/IP loaded.

Windows computers using Windows printing

Key to setup:

1 Windows computer *User Software Installation Guide*

2 Fiery Setup Chapter 4

Another supported protocol

Fiery built into the printer

2

TCP/IP (nbt)

Windows computer
1

Windows computer
1

Windows computer
1

For Windows printing

Windows (SMB) printing enabled on the Fiery.

Windows NetBios and TCP/IP enabled on the computer.
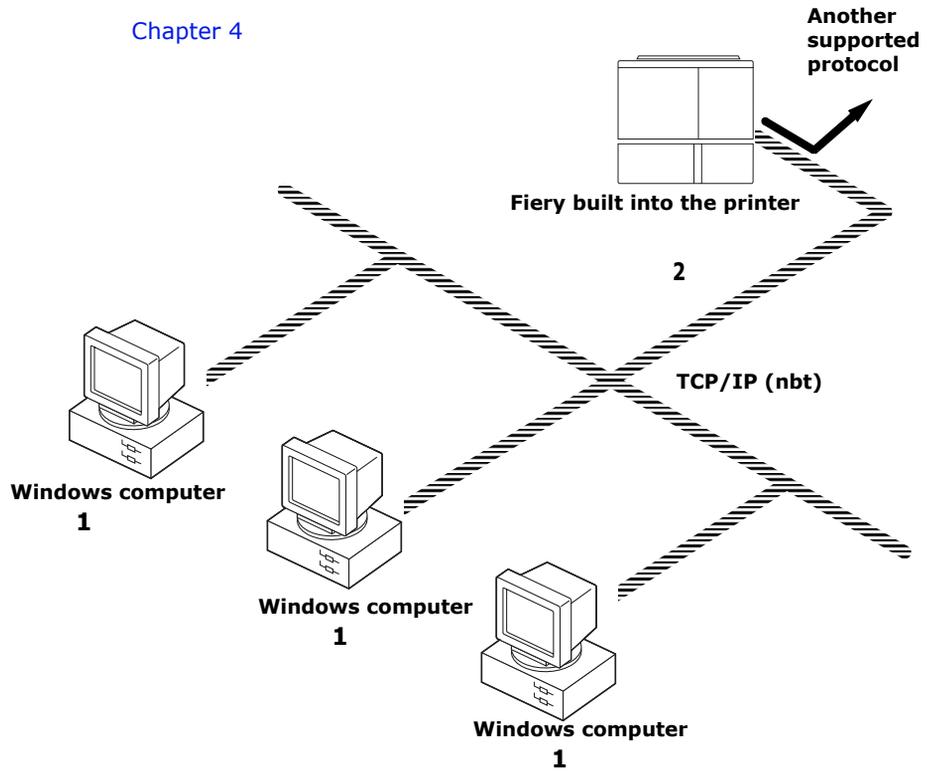
TCP/IP (nbt) protocol

UNIX workstations and Windows computers on a TCP/IP network

Key to setup:

1 UNIX server/host   page 2-44
2 Fiery Setup   Chapter 4
3 UNIX workstation   page 2-44
4 TCP/IP client   *User Software Installation*
Guide, Chapter 4
5 Windows client   page 2-30

Another supported protocol

Fiery built into the printer

2

UNIX server or workstation
1, 3

TCP/IP (lpd, http, and ipp)
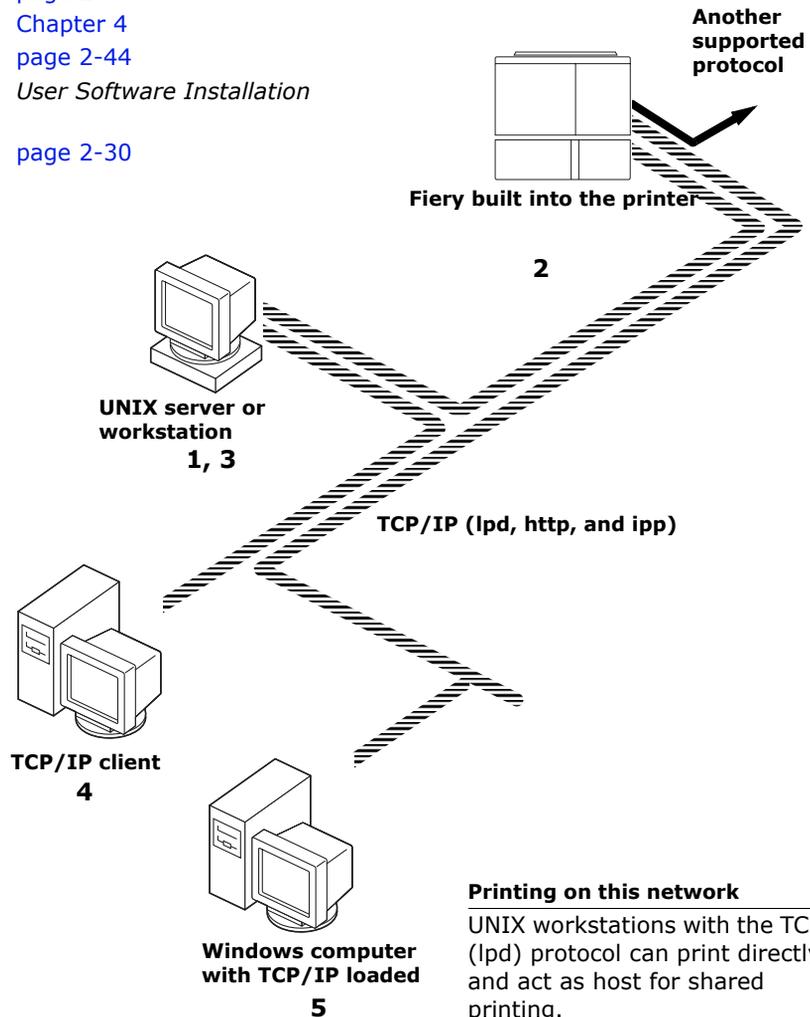
TCP/IP client
4

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.

Windows computer with TCP/IP loaded
5

For running Fiery utilities and Fiery WebTools

TCP/IP (lpd) protocol

Fiery parallel port connection

Key to setup:

1 Fiery Setup	Chapter 4
2 Windows computer	*Printing Guide*

A supported network

Fiery built into the printer
1

Parallel input

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

Protocol not directly supported on Fiery

Parallel

PC workstation, server, or laptop
2
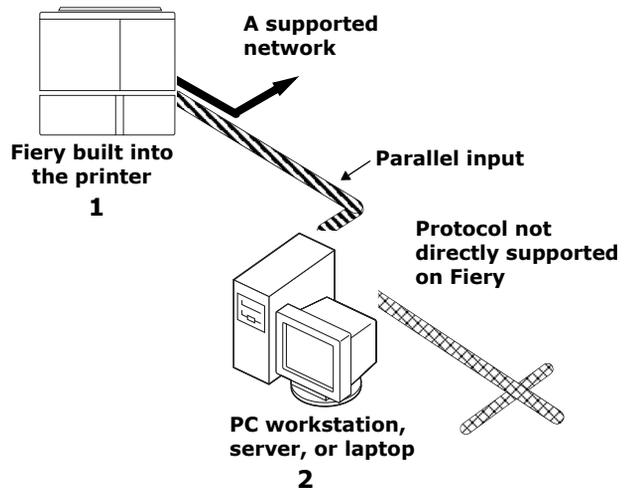
Connecting network cable to the Fiery

In this section, the back panel of the printer is illustrated, followed by information for connecting to the Ethernet port.

Side view of the printer

RJ-45 Ethernet (10/100Base T)
Remove protective cover before connecting cable

Parallel Port

USB Port
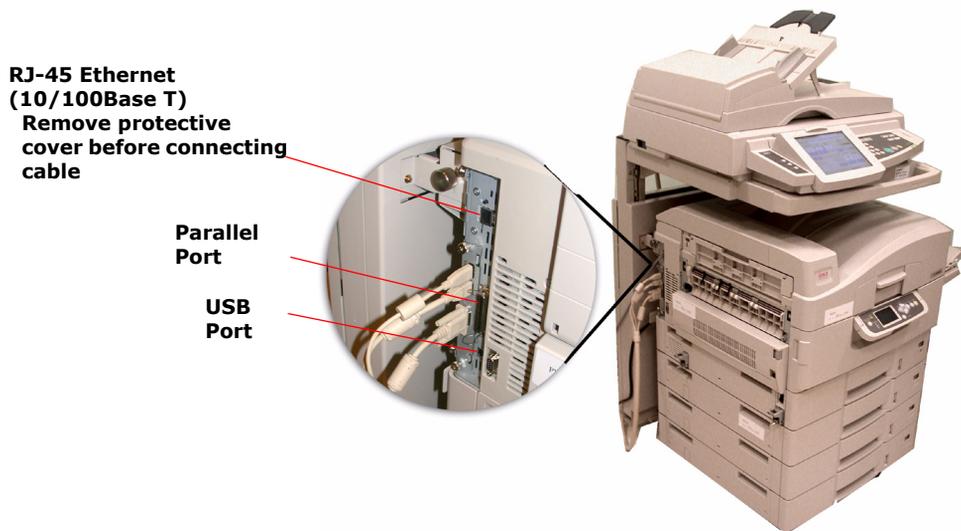
Ethernet connection

For Ethernet connections, the Fiery supports cabling, defined as Category 5 for use with 100BaseT; or as Category 3, Category 4, or Category 5 for use with 10BaseT. The cable uses an 8-pin RJ-45 connector that plugs into the RJ-45 socket on the ES3640e MFP.

Note: The 100BaseT type supported by the Fiery 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.

1

To connect to the Ethernet port

- **Connect the network cable to the RJ-45 connector on the back of the printer.**

    You must use a Category 5 unshielded twisted pair cable network cable for 100BaseT.

    Parallel cable connection

    The Fiery 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 with Command WorkStation or other Fiery utilities.

To use parallel or USB cable

1. **With the ES3640e MFP and the Windows computer turned off, attach the parallel or USB cable to the parallel or USB port of the printer.**

    For the location of the parallel and USB ports, see the illustration on .

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

3. **Turn on the computer and the ES3640e MFP.**

4. **Proceed to Setup.**

Chapter 2: Setting up Network Servers

This chapter describes environments that typically include one or more network servers—Novell NetWare servers and Windows NT 4.0/2000/Server 2003 servers—that share printing to the Fiery. It describes setting up servers that use IPX/SPX or TCP/IP protocols for communicating with the Fiery. In addition, it includes guidelines for setting up direct communication from Windows NT 4.0/2000/XP/Server 2003 workstations or UNIX workstations, where a network server is optional. This chapter also outlines the requirements for users to print to the Fiery and run Fiery utilities and Fiery WebTools.

The Fiery can accept jobs concurrently from NetWare, Windows NT 4.0/2000/Server 2003, and AppleShare servers, as well as jobs sent directly from Windows or UNIX workstations. Because AppleShare servers require no special configuration, they are not discussed in this chapter, except for use in a Windows NT 4.0/2000/XP/Server 2003 environment (see "Fiery on a TCP/IP network with Windows NT 4.0/2000/XP/Server 2003/ Server 2003" in the following section).

If your network is based on Windows NT 4.0/2000/Server 2003, proceed to the following section. For information on UNIX workstations, proceed to .

Fiery on a TCP/IP network with Windows NT 4.0/2000/XP/Server 2003/Server 2003

When a Windows NT 4.0/2000/XP/Server 2003 computer is configured to connect to the Fiery using TCP/IP, it can print directly to the Fiery. If the computer shares the printer over the network, it is acting as a print server to Windows clients. Client computers print to the Fiery by printing to the Windows NT 4.0/ 2000/Server 2003 print server. You can then monitor and control printing at the Windows NT 4.0/2000/Server 2003 server computer.

Typical system combinations are:

• Print server running Windows NT 4.0/2000/Server 2003 Server; clients running Windows NT 4.0/2000/XP/Server 2003 Workstation and Windows 98/Me

• Print server running Windows NT 4.0/2000/XP/Server 2003 Workstation and clients running Windows 98/Me

With TCP/IP protocols loaded, you can run Fiery utilities and Fiery WebTools from a Windows computer.

Tips for experts—Windows with TCP/IP

Setting up printing from Windows using TCP/IP protocols is similar to setting up UNIX workstations with TCP/IP. When TCP/IP network connections are made from Windows NT 4.0/2000/XP/ Server 2003 workstations, note the following:

• **Make sure you have a valid IP address for the Fiery and any workstations that will print to it or run the Fiery utilities.**

• **In Fiery Setup, enable TCP/IP and enter the IP address, subnet mask, and gateway address for the Fiery.**

Enter these addresses manually or use DHCP or BOOTP protocols to assign them dynamically.

• **Make sure the Fiery name and address are listed in a domain name server (DNS) or host name database used by your system.**

• **Make sure the system host table includes the correct internal name for the Fiery as a remote printer.**

For more information, see .

• **For Windows, install the appropriate printer driver files on the Windows NT 4.0/2000/Server 2003 server.**

For more information, see the *User Software Installation Guide*.

• **Repeat the installation for all users who print to the Fiery.**

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

2

Configuring a Windows NT 4.0/2000/Server 2003 server to communicate with the Fiery

To configure a Windows NT 4.0/2000/Server 2003 server to communicate with the Fiery, follow these general steps. More detail is provided in subsequent sections in this chapter and in your Microsoft documentation.

• **Load the TCP/IP network protocol on the server and configure it with an IP address, subnet mask, and gateway.**

• **Enter the host name of the Fiery in the host name database used by your system (see page 2-29).**

• **Perform Fiery Setup.**

• **On the Windows NT 4.0/2000/Server 2003 server, create a printer for each Fiery print connection, install the appropriate printer drivers, and (optionally) share the printer on the network (see page 2-30).**

• **Enter the host name and remote printer name of the Fiery in the printer connection. For more information, see page 2-45.**

• **If the Windows NT 4.0/2000/Server 2003 server is also a workstation, install Fiery utilities (see the *User Software Installation Guide*).**

Adding the Fiery to the TCP/IP network

If your TCP/IP network consists of Windows NT 4.0/2000/Server 2003 servers and Windows clients, follow the procedures in this section. If the network includes UNIX workstations, also see the procedures on .

To add the Fiery to a TCP/IP network with a Windows NT 4.0/2000/Server 2003 server

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

   For installations that do not have a network administrator or central host name database, add the Fiery to the hosts file on the Windows NT 4.0/2000/Server 2003 server. Also add it to the hosts file on any workstations that have TCP/IP loaded and will use the Fiery utilities.

   The Windows NT 4.0/2000/Server 2003 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.

   To determine the IP address and server name of your system, print a Configuration page (see).

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

2. **Perform Fiery Setup to support TCP/IP printing.**

   Enter the options in Protocol Setup (IP address of the Fiery, subnet mask, and gateway address).

Installing the Fiery as a shared printer

The first step in creating a printer is installing the printer driver files, which give your applications access to printer features. You can use the installation instructions in the *User Software Installation Guide* for every workstation that will print directly and independently to the Fiery. However, if you are an administrator running a Windows NT 4.0/2000/Server 2003 server or Windows NT 4.0/2000/XP/Server 2003 workstation, you can also create a printer and share it with clients on the network. This allows clients who do not have permission to establish an independent network connection to the Fiery to print through the server.

You can specify sharing of the printer during installation of the Fiery printer files. If you have not yet installed the Fiery printer files on the Windows NT 4.0/2000/Server 2003 print server computer, do so now, following the instructions in Chapter 1 of the *User Software Installation Guide*. During installation, enter the information necessary to share the Fiery.

If you have already installed the Fiery printer files on the computer you are using as a Windows NT 4.0/2000/Server 2003 print server, see your Windows documentation for information about sharing the Fiery.

If more than one Fiery print connection is published (for example, if both the Print queue and the Hold queue are published), you may want to create a printer for each print connection, so that you and other users can print to each connection directly. When prompted to specify the printer name, enter a name that indicates the Fiery print connection.

Configuring clients of a Windows NT 4.0/2000/Server 2003 server

Each client of a Windows NT 4.0/2000/Server 2003 server is already using a network protocol to communicate with the server. Each client can print to the Fiery if it has been shared by a

2

Windows NT 4.0/2000/Server 2003 server, or Windows NT 4.0/ 2000/XP/Server 2003 computer. In that case, the client does not have to use the same network protocol to connect to the Windows NT 4.0/2000/Server 2003 server as the server uses to communicate with the Fiery.

To connect and print to the Fiery shared by a Windows NT 4.0/2000/Server 2003 server

• **Windows 98/Me: Before printing, double-click the Windows NT 4.0/2000/Server 2003 server icon in the Network Neighborhood window, and then double-click the printer name.**

You are prompted to set up the printer. When you choose to set it up, the Add Printer Wizard dialog box appears. Follow the procedures in Chapter 1 of the *User Software Installation Guide*.

• **Windows NT 4.0/2000/XP: Before printing, connect to the print server computer and select the Fiery. 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 appear dimmed, and are unavailable for changing. When a client chooses Print, the job is transmitted to the Windows NT 4.0/2000/Server 2003 print server, and from there to the selected print connection on the Fiery. The job is listed in the Print Manager on the client workstation, and the administrator can track it in the Fiery window in the Print Manager on the Windows NT 4.0/2000/Server 2003 print server.

Configuring Windows computers without a Windows NT 4.0/2000/Server 2003 server

If your network does not have a Windows NT 4.0/2000/Server

2

2003 server, Windows workstations can still print to the Fiery. This method of printing is called Windows, or SMB printing. In this type of network environment, computers running Windows 98/Me and Windows NT 4.0/2000/XP/Server 2003 workstations operate in a peer-to-peer environment and communicate directly with the Fiery when users send print jobs.

Many of the same prerequisites for setting up printing through a Windows NT 4.0/2000/Server 2003 server also apply to setting up Windows printing where a server is not present. The prerequisites are summarized in the following list, and you can find more detail in your Microsoft documentation.

- **Print a Configuration page (see page 5-143).**

  Use the information on this page to determine the current Fiery settings.

- **Load the TCP/IP network protocol on the computer.**

  Windows 98/Me: Load File and printer sharing for Microsoft Networks.

  Windows 2000/XP: Load Client for Microsoft Networks.

- **In the Windows Network Control Panel, verify the Workgroup name of the computer. Make sure that the Workgroup name is the same as the one listed in Fiery Setup.**

- **Windows 98/Me: In the File and printer sharing for Microsoft Network Properties dialog box, specify Automatic or Enabled for Browse Master, and select Yes for LM Announce.**

- **Windows 2000/XP: In the Client for Microsoft Networks Properties dialog box, configure the computer to allow file sharing, and then restart the computer.**

- **Ping the Fiery to verify TCP/IP communication is successful (see page 2-47).**

- **Insert the ES3640e MFP Driver CD and wait for it to autorun.**

If the CD does not start automatically, click [Start]→ [Run] and enter E:\Setup (where E is your CD-ROM drive) in the Open field, then click on [OK].

Fiery on a NetWare network

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

• NetWare—NDS (Novell Directory Services)

• Servers running NetWare in bindery emulation mode

The term "Netware" is used to refer to Netware 4.x, 5.x, and 6.x.

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.

Note: The iPrint feature available with NetWare 6.x is not supported.

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

NetWare clients print to the Fiery through the Novell network server. Server setup and client network setup are outlined in this chapter, client printing setup is described in the *User Software Installation Guide*, and printing is described in the *Printing Guide*.

The Fiery can receive print jobs from NetWare clients over Ethernet network topologies. During Fiery Setup, you select the frame type or types that will be used for communication between the Fiery 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.

2

Tips for experts—IPX networks

Setting up the Fiery is similar to setting up any other PostScript printer on the network.

The Fiery with IPX connections has the following characteristics:

- **A minimum connection to the Fiery consists of a NetWare file server, a NetWare print server, and a NetWare queue.**

- **A single directory tree and up to eight bindery servers can be configured simultaneously.**

- **The Fiery 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.**

Overview of IPX printing to the Fiery

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.

You must give the NetWare queue names a specific extension corresponding to the Fiery print connection, as follows:

_print

_hold

_direct

Note: These extension names must be in English and in all lowercase letters.

You do not need to rerun Setup when you add or remove a NetWare queue; however, you should restart the Fiery after you create or remove a queue.

When the Fiery 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. For example, jobs from the NetWare queue with the _print extension are sent to the Fiery Print queue. 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 networked users can print to the Fiery from their workstations, and the Fiery 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 and in your NetWare documentation.

- 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 installations, set up an NDS connection (see page 2-38).

- For NetWare in emulation mode, set the bindery context (see page 2-38).

- For NetWare in bindery emulation, set up a file server, print server, and print queue for the Fiery (see page 2-39).

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

The functions you perform on the Novell server, the Fiery, and the client workstation are summarized in the following tables. The first table applies to NDS connections, and 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	In Setup from Command WorkStation	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
	Protocol Setup
	    IPX/SPX Setup—select frame types
	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 PQs that you set up on the NetWare FS (associated with the PS selected in NDS Setup).
		
		For running Fiery utilities:
		
		Configure the connection to the Fiery.

Configuring a bindery connection

On Bindery FS	In Setup from Command WorkStation	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
	 Protocol Setup
	   IPX/SPX Setup—select
	   frame types
	 Service Setup
	   PServer Setup and
	 Bindery Setup
	   Add FS (up to 8)
	   Set Polling Interval
		Install user software.
		
		 For printing:
		
		 Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in Bindery Setup).
		
		 For running Fiery utilities:
		
		 Configure the connection to the Fiery.

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 that defines the location of the object in the directory tree. For the Fiery, 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 such as PCONSOLE, NETADMIN, or NetWare Administrator.

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.

Setting the NetWare bindery context

You can connect only one directory tree to the Fiery. If you need

2

to connect additional NetWare servers, you can do so by using bindery emulation. You can connect up to eight bindery servers to the Fiery.

Note: The file server you select must not be in the same tree as the one you selected in NDS Setup.

In order to set up the NetWare server in bindery emulation mode for printing to the Fiery, 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 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.

Setting up a NetWare print queue for bindery

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

As with NDS, you can create several NetWare entities on a Novell server, and you can then select them in Network Setup.

Setting up NetWare Windows clients for printing

Before setting up client workstations for printing, perform Network Setup (see page 4-66), and verify that the settings reflect the entities you created in the NetWare administrator utilities (see page 2-36).

Note: For printing to the Fiery, connect all Windows clients to a 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.

After the Novell server and the Fiery 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 98/Me workstations, load both the IPX/SPX-compatible protocol and the Client for NetWare Networks from the Network Control Panel.

On Windows NT 4.0/2000/XP/Server 2003 workstations, install Client Services for NetWare. Use the CSNW option in the Control Panel to set printing options and specify a preferred NetWare server.

• Setting up the Fiery as a PostScript printer by installing a PostScript printer driver and the Fiery 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.

• Installing Fiery software, such as color reference files.

For details, see the *User Software Installation Guide*.

Fiery on a NetWare network with NDPS

The Fiery supports printing over a NetWare 5.x or later network running either the TCP/IP protocols or the IPX protocol. For pure IP printing, the Fiery takes advantage of features in NDPS (Novell Distributed Print Services). For IPX printing, the Fiery supports the PServer service in Bindery emulation or through NDS (Novell Directory Services). For more information on IPX-based printing, see "Fiery on a NetWare network" on page 2-34.

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.

NDPS is not like earlier queue-based versions of NetWare printing. Instead, you use an NDPS Manager and a Printer Agent, which control the tasks previously handled by a print queue, print server, and spooler. You can also make the printer driver available for clients to download from Windows 98/Me and Windows NT 4.0/2000/XP/Server 2003 computers.

During Fiery Setup, you select the frame type or types that will be used for communication between the Fiery 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.

Tips for experts—NetWare networks

Setting up the Fiery in an NDPS environment is similar to setting up any other PostScript printer on the network. When setting up the Fiery in such an environment, refer to the following information:

- **Make sure you have a valid IP address for the Fiery and for any workstations that will print to it or run Fiery utilities.**

- **In Fiery Setup, enable TCP/IP and enter the IP address, subnet mask, and gateway address for the Fiery. You can enter these manually or use DHCP or BOOTP protocols to assign the addresses dynamically.**

- **Bidirectional communication features in NDPS are not supported on the Fiery.**

Configuring a NetWare server for printing with NDPS

Before you begin

The following procedure assumes NDPS has been installed during NetWare 5.x or later installation and that a Broker is running on the server. Unless you have manually unloaded the Broker, it loads and runs when you install NDPS. Make sure you are using the latest NetWare service pack and Novell gateway. Finally, create an

NDPS Manager. For more information, see your NetWare documentation.

In Fiery Setup, make sure you have enabled TCP/IP and LPD printing on the Fiery. You can ping the Fiery to verify that TCP/IP communication is successful.

Setting up the Fiery printer driver

You first need to create a directory for Windows NT 4.0/2000/XP/Server 2003 or a folder for Windows 98/Me in the NetWare server for NDPS to install the corresponding printer driver files from the User Software CD.

To set up the printer driver for Windows NT 4.0/ 2000/Server 2003

1. **Log on to the Novell file server as a superuser or Administrator.**

2. **Create a directory called Fiery in the following location:**

   SYS:ndps\resdir\Prndrv\NT4 for Windows NT 4.0

   SYS:ndps\resdir\Prndrv\2000 for Windows 2000

   SYS:ndps\resdir\Prndrv\XP for Windows XP

   SYS:ndps\resdir\Prndrv\Server 2003 for Windows Server 2003

3. **From the Driver CD, copy the contents of the following folder to the Fiery directory:**

   DRIVERS\ENGLISH\NT4\PS for Windows NT 4.0

   DRIVERS\ENGLISH\WIN2K_XP\PS for Windows 2000

   DRIVERS\ENGLISH\WIN2K_XP\PS for Windows XP and Windows Server 2003"

To set up the printer driver for Windows 98/Me

1. **Log on to the Novell file server as a superuser or Administrator.**

2. **In the SYS:ndps\resdir\Prndrv\Win98/Me directory, create a directory called Fiery.**

3. **From the User Software CD, copy the contents of the ENGLISH\WIN_98/ps/folder to the Fiery directory.**

Setting up the Fiery on a NetWare network

Depending on the security needs at your organization, you can set up the Fiery as a Public Access printer or a Controlled Access printer. The following procedure describes setting up a Public Access printer. You can then convert the printer to Controlled Access if necessary. For more information, see your NetWare documentation.

To set up the Fiery as a Public Access printer

1. **In NetWare Administrator, double-click the NDPS Manager object you created.**

2. **In the Details window for the NDPS Manager object, click Printer Agent List.**

   The list of Printer Agents appears.

3. **Click New.**

4. **In the Printer Agent (PA) Name field, enter a name.**
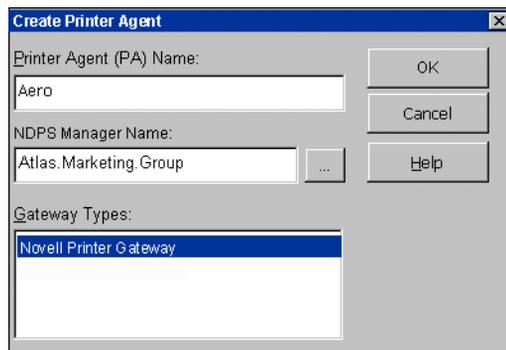
5. **Under Gateway Types, select Novell Printer Gateway, and click OK.**

6. **In the Configure Novell PDS for Printer Agent dialog box, select "((NONE))", and click OK.**

7. **In the Configure Port Handler dialog box, choose "Remote LPR on IP" as the connection type, and click Next.**

8. **For Host Address, enter the IP address of the Fiery.**

9. **For Printer Name, enter the name of the Fiery print connection you want users to print to, and click Finish.**

   This name must be either print or hold.

10. **In the Select Printer Drivers dialog box, select the printer driver for Windows 98/Me and the driver for Windows NT 4.0/2000/XP/Server 2003.**

11. **Click Continue, and then click OK.**

Fiery on a network with UNIX workstations

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

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 job management tools, along with the other Fiery utilities and WebTools, are unavailable 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 can use the job management tools to manage print jobs that originate from all workstations on the network.

Tips for experts—UNIX workstations

Setting up the Fiery in a UNIX environment has the same

requirements as setting up any printer or new device:

- **A distinct IP address is required for the Fiery as well as for each workstation on the network.**

- **A name must be selected for the Fiery that goes with the IP address.**

- **The IP address of the Fiery must be registered for the network in a host name database, and also on the Fiery itself.**

- **At least one print connection (Print or Hold) must be published.**

The following information applies especially to the Fiery:

- **The Fiery contains a printer controller that understands lpd protocols.**

- **The Fiery has a remote printer name you must use in order to communicate with it successfully.**

For details, see the following section.

Important note about the remote printer name

Whichever UNIX system you use, the name used for the remote printer (or rp in the /etc/printcap file) in configuring the Fiery must be one of the following:

print

hold

The remote printer name is also used when setting up a Windows NT 4.0/2000/XP/Server 2003 workstation or Windows NT 4.0/2000/Server 2003 server to connect to the Fiery over TCP/IP. Enter the remote printer name when you set up your Windows NT 4.0/2000/Server 2003 printer, as the "Name of printer or print queue on that (lpd host) server" in the Add LPR Compatible Printer dialog box.

For the Windows 2000/XP printer driver, enter the remote printer name for Queue Name under LPR Settings in the Configure Standard TCP/IP Port Monitor dialog box.

Setting up the Fiery on TCP/IP networks

Every machine (host) on a TCP/IP network, including the Fiery, must have a unique 32-bit internet address (IP address). Contact your network administrator to obtain an address for the Fiery. Workstations on a TCP/IP network can print directly to the Fiery as a remote printer, or can print to a Windows NT 4.0/2000/Server 2003 server or UNIX workstation acting as a print server. Since the Fiery spools jobs and acts as a print server, there is no advantage in placing another print server between a workstation and the Fiery. If you choose to do so, however, there is no difference in setup except that a client machine does not have its own spooling area.

To set up Fiery printing on UNIX systems

1. **Specify the appropriate settings in Fiery Network Setup.**

   Enter a valid IP address, subnet mask, and gateway address for the Fiery.

2. **Specify the appropriate settings in Fiery Printer Setup.**

   Publish the Print queue, Hold queue, and/or Direct queue.

To set up TCP/IP for communication with the Fiery

1. **A superuser (with root login) must add the Fiery 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 name you assigned.**

3. **Make the Fiery 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 Windows computer on the network, at the MS-DOS command prompt, type:

ping <IP address>

Type the Fiery IP address assigned in Fiery Network Setup.

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

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

- **On a UNIX system running SunOS 4.x or other BSD-based variant, use the lpr command to send a job to the Fiery.**

- **On a UNIX system running Solaris 2.x or any System V implementation of UNIX, use the lp command to send a job to the Fiery.**

- **Windows NT 4.0/2000/XP/Server 2003 users with the TCP/IP protocol loaded can send print jobs to the Fiery from their applications or from a command prompt.**

  When Windows NT 4.0/2000/XP/Server 2003 users print from applications, they can set print options with the driver but not from the UNIX 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 4.0/2000/ XP/Server 2003 workstation that has TCP/IP protocols loaded, you can use Command WorkStation or Fiery Downloader not only to view the list of jobs and to print and remove jobs but also to download fonts and files directly to the Fiery. For more information on these job management tools, see the *Job Management Guide*.

Even without the Fiery utilities, you can do the following:

• Set up the Fiery to print a log of printed jobs automatically after every 55 jobs.

• Print a Job Log manually at any time from the Command WorkStation Functions menu (see the *Job Management Guide*).

**Chapter 3:
Preparing for
Fiery Setup**

'To prepare for printing at your site, you must do some initial Fiery configuration, or Setup, to specify the network environment and the kind of printing you will do. Before you perform Setup, you must decide the levels of access you will implement for your site. Administrators and operators must also understand how Fiery system software is structured in order to configure and use the Fiery system correctly.

Levels of access and control

When you configure the Fiery during Setup, you (as system administrator) implement a particular level of control by enabling or not enabling print connections, passwords, and access to WebTools. The level of control you implement can range from minimum to moderate to maximum—or none at all.

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

• Maximum 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 Fiery hard disk until the operator decides it is time to print them. In addition, only the administrator and operator have access to job management tools. This is the recommended level of control.

Note: The term "job management tools" is used in this manual to refer to Command WorkStation and Command WorkStation LE.

Fiery print connections

The Fiery supports three print connections: Hold queue, Print queue, and Direct connection. These print connections can be enabled, or "published," to users on the network when you

ES3640e MFP EFI Configuration Guide - 49

configure Printer Setup. All published connections are constantly checked for the presence of jobs. The Print queue and Direct connection give remote users more direct access to the Fiery than the Hold queue. Therefore, do not publish the Print queue and the Direct connection in environments where maximum control is desired.

In addition, you can enable the Printed queue, which is a storage area for the most recent jobs from the Print queue. The Printed queue makes it convenient to reprint those jobs. In Setup, you can enable the Printed queue and specify the maximum number of jobs retained in the queue (see). Reprinting jobs in the Printed queue requires the job management tools.

Note: To use the Fiery utilities and Fiery WebTools, you must enable at least one of the print connections.

Hold queue

Jobs sent to the Hold queue are spooled to the Fiery hard disk for printing at a later time or for reprinting. Because the Hold queue is a storage place, jobs sent to it cannot proceed through the printing process until the operator intervenes using the job management tools (see the *Job Management Guide*).

Print queue

This is the standard Fiery queue. Jobs sent to the Print queue are processed and printed in the order they are received. Jobs prioritized by an operator with the job management tools and jobs sent via the Direct connection can take priority over jobs sent to the Print queue.

Direct connection

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

Note: The Direct connection is not supported for LPR printing.

Jobs sent to the Direct connection are not stored on the Fiery hard disk, and cannot be selected for reprinting, moving, or deletion. 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 download fonts to the Fiery, you must publish the Direct connection.

Passwords

You can implement passwords as a means of controlling access to Fiery functions. The Fiery allows you to set the following passwords in Setup:

- Administrator—remotely from Command WorkStation, or locally from the Control Panel
- Operator—from Command WorkStation or Fiery WebSetup

Note: By default, *no* passwords are set on the Fiery. 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), and job control. We *strongly recommend* that you set *at least* an Administrator password to protect the Fiery from random or accidental changes to Setup.

Administrator 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, controlling print jobs from the job management tools, overriding job settings, clearing the Fiery of all job data, performing calibration, defining default color profiles, and setting default values for print options.

Operator privileges

Operator control includes control of print jobs from the job management tools, including the ability to override job settings.

Guest privileges (no password)

No password is needed for a user to log in as a Guest from the job management tools. A Guest can view the status of active jobs but cannot make changes to jobs or to the Fiery state.

WebTools

The Fiery supports Internet or intranet access with WebTools from

Windows and Mac OS computers. To enable the use of WebTools, you must do the following in Setup:

• Enable TCP/IP.

• Set an IP address, subnet mask, and gateway address for the Fiery.

• Enable Web Services.

For more information, see Chapter 6.

You can set passwords to control access to WebTools features. If you do not specifically set these passwords, all users have access to all WebTools functions (see page 3-52). WebTools include Status, WebLink, WebScan, WebDownloader, and WebSetup.

Status

The Status WebTool provides you with current information on the jobs processing and printing on the Fiery. It is not affected by passwords. For more information, see Chapter 8 of the *Printing Guide*.

WebLink

WebLink provides all users with a link to an address on the Internet. To change the WebLink Internet address, see page 6-145. This function requires the Administrator password, if one has been set (see "Passwords" on page 3-52).

Note: If you do not set the Administrator password, any user can change the WebLink address, which affects all users. For this reason, we *strongly recommend* that you set an Administrator password.

WebScan

With WebScan, you can retrieve scanned documents from a computer on the Internet or your organization's intranet. It is not affected by passwords. For more information, see Chapter 6 of the *Printing Guide*.

WebDownloader

WebDownloader allows you to print PostScript, EPS, PDF, and TIFF files directly to the Fiery without first opening the file in an application. It is not affected by passwords.

WebSetup

WebSetup allows you to view and modify Fiery Setup options from a remote workstation. This function requires an Administrator password. For more information, see Chapter 5.

Note: WebSetup is supported on Windows computers only.

Control level scenarios

Typical scenarios of access and control, ranging from minimum control to maximum control, are described in this section. Choose the scenario that best matches your site requirements, and refer to the corresponding number in the following table for guidance on how to configure your system for those requirements.

Note: We *strongly recommend* that you set *at least* an Administrator password to prevent unauthorized changes to system settings.

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

   All users have equal access to all system functions including Setup, clearing the Fiery, deleting printer fonts, setting the WebLink address, performing calibration, printing to all Fiery print connections, and managing all jobs from the job management tools.

2. **An administrator but no operator**

   Only an administrator can perform Setup, calibration, and other administrator functions, but all other system functions are accessible to all users, including printing to all Fiery print connections, and managing all jobs from the job management tools.

3. **An administrator and an operator**

   Only an administrator can perform Setup, calibration, and other administrator functions, and only an operator or administrator can control jobs from the job management tools. Users can print to all published Fiery print connections.

4. **An administrator and an operator; no WebTool access**

   Only an administrator can perform Setup, calibration, and other administrator functions, and only an operator or administrator can control jobs from the job management tools. Users can print to the Hold queue and Print queue, but not to the Direct connection.

3

The operator controls all job flow, but jobs sent to the Print queue may not require operator intervention. There is no access to WebTools.

5. **An administrator and an operator; operator controls all jobs; no WebTool access (Maximum control)**

   Only an administrator can perform Setup, calibration, and other administrator functions, and only an operator or administrator can control jobs from the job management tools. Users can print only to the Hold queue. The administrator and the operator have complete control of job flow. There is no access to WebTools.

Use these settings in Setup	1 (Minimum)	2	3	4	5 (Maximum)
Enable Direct connection	✔	✔	✔		
Enable Print queue	✔	✔	✔	✔	
Enable Web Services	✔	✔	✔		
Set an Administrator Password (*strongly recommended*)		✔	✔	✔	✔
Set an Operator password			✔	✔	✔

About Setup

Setup configures the Fiery to communicate with other devices and manage print jobs. You must perform Setup the first time you turn on the Fiery, or if the internal hard disk drive has just been replaced. An initial Setup using default settings is adequate for allowing users to print to the Fiery and use the WebTools. When your network or user printing environment changes, you can change Setup options accordingly.

The first time you perform Setup, you must use the printer's Control Panel. Configure, at a minimum, Server Setup, Network Setup, and Printer Setup, in that sequence. After the initial Setup, you can change Setup options from the printer's Control Panel (page 4-61) or Command WorkStation. Most Setup options can be set using any of these methods.

If you do not configure the remaining Setups, the Fiery uses default settings. You need to make settings appropriate for the printing environment at your site.

Network server setup requirements

For Novell and Windows NT 4.0/2000/Server 2003 (using TCP/IP) networks, you must configure the network servers for printing to the Fiery *before* you configure Fiery network settings in Setup. For chapter references to information about network server Setup, see the diagrams in Chapter 1.

To configure network settings in Setup, you must have a live network connection, so the Fiery can query the network for zones, servers, and server-based queues.

Whenever the configuration of the Fiery, the printer, or the network itself changes at your site, you can alter individual settings to correspond to the changed environment. Changing network or port settings may require that you also make changes to other Setup options.

Note: You must configure the Fiery with the correct Windows NT 4.0/2000/Server 2003 domain name. This is especially important for Windows printing, also known as SMB printing.

Note: The Fiery does not support the Windows 2000/Server 2003 Active Directory Service. When you use the Fiery in a Windows 2000/Server 2003 server environment, assign the Fiery to a Domain or Workgroup.

Ensuring the printer connection

Complete the following steps *before* you configure the Fiery and the workstations that will print to the Fiery. A service technician will have performed some initial installation.

To prepare for Fiery configuration

1. **Print a printer Test Page to verify the printer is functioning normally.**

2. **With the the printer turned off, connect the network cable to the the printer, as described in Chapter 1.**

   The network should already be installed and operational.

3. **Turn on the printer.**

   Proceed to Fiery Setup, described in Chapter 4.

**Chapter 4:
Performing
Setup from
the Printing
Unit Control
Panel**

Setup is required the first time the MFP is turned on after
installation or if the hard disk drive has just been replaced. In this
initial Setup, you (or the service technician) choose the language
for the Printing Unit Control Panel menus and messages. If you do
not configure a particular Setup option, the Fiery uses default
settings. Make sure the settings are appropriate for the printing
environment at your site.

Fiery Setup from the Printing Unit Control Panel

Setup performed from the Control Panel configures the Fiery to
communicate with other devices and manage print jobs sent to it.

Setup provides these groups of options:

- *Server Setup* to specify system options

- *Network Setup* to specify all the active network systems that
  transmit print jobs to the Fiery

- *Parallel Setup* to determine if and how the parallel port is used

- *USB Setup* to determine if and how the USB port is used

- *Printer Setup* to specify how print jobs and queues are managed

- *PS Setup* to specify PostScript settings

- *PCL Setup* to specify PCL settings

- *Color Setup* to specify color settings

- *Job Log Setup* to specify how the Fiery handles its log of printed
  jobs

- *PrintMe Setup* to specify the PrintMe settings

- *Custom Process* to specify special custom color settings

- *Change Password* to create and change the administrator
  password

- *Language* to select the required language for the display panel and various printed reports

- *Clear Server* clears all print jobs from the server

- *Factory Defaults* restores factory default settings

Printing Unit Control Panel

The Control Panel on the front of the printing unit allows you to set options and view information about jobs printed to the Fiery.
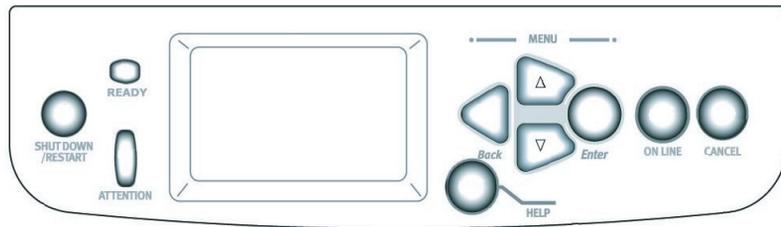
Use the Control Panel to view status information, print special pages, and set up printing. While most elements in the Control Panel display have counterparts in Command WorkStation, you can view current functions on the Control Panel even when Command WorkStation is not connected to the server or is not running.

Safety warnings

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

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

Accessing Setup options

To access Setup when the Fiery is Idle

1. **With the printing unit in the 'Ready' state, press the ▲ or ▼ keys until the Admin Setup Menu is displayed, then press the ENTER key.**

2. **If an administrator password has been set up you will be prompted for it. Enter the correct administrator password and press the ENTER key to gain access to the Setup menus.**

   Press the ▲ or ▼ keys to choose each character of the password and press ENTER to advance to the next character. Pressing ENTER after the last character completes password entry.

   For first-time Setup, you must perform at least these Setups in this order:

   1 – Server Setup
   2 – Network Setup
   3 – Printer Setup

   After the administrator password has been successfully entered if necessary, these and other Setup menus can be accessed using the ▲ or ▼ keys. Press the ENTER key to select the required menu when its name is displayed.

   After performing these Setups, you can continue with the remaining Setups, or exit Setup and save your changes.

About the Control Panel Setup interface

When you perform Setup from the Control Panel, you select one menu after another using the ▲ or ▼ keys and pressing ENTER to select the required menu. In each menu enter information about your Fiery and your network and printing environment.

Types of Setup screens

There are two types of Setup options:

Multiple choice questions	Cycle through the available choices using the ▲ or ▼ keys. When your required choice is displayed press the ENTER key to select it. The choice currently in operation is indicated by an asterisk (*).
Information entry options	For text or numerical entries, cycle through the available characters or digits using the ▲ and ▼ keys. When the required character or digit is displayed press the ENTER key to select it.
	For address fields in dotted decimal notation, each field is entered using the ▲ or ▼ keys. Pressing the ENTER key completes the current field and advances to the next one. Pressing ENTER after the last field completes the address entry.

When you have entered the settings, you must 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 system restarts after you exit from the Setup menu.

Server Setup options

The Server Setup menu lets you specify system information that pertains to the Fiery and all users. To access the menu, follow the instructions on .

When you choose Server Setup, the options appear in sequence, as follows. 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

Enter a name for the Fiery (up to 15 characters long). This name appears in the Chooser on an AppleTalk network.

System Date

Enter the correct system date in the form DD/MM/YY. The date appears on the Job Log.

System Time

Enter the correct system time. Enter the time based on the 24-hour clock in the form HH:MM (Hours:Minutes). The time appears on the Job Log.

Time Zone

Specify the correct time zone. Select from a list of major cities and standard time zones.

Location

Specify where the MFP is located e.g. Office, 4th Floor.

Print Start Page

Yes/No [Yes]

Specify whether the Fiery should print a start page every time it restarts. The start page displays information about the Fiery, including the server name, current date and time, amount of memory installed in the Fiery, network protocols enabled, and connections published.

Use Character Set

Macintosh/DOS/Windows [Macintosh]

Specify whether the Control Panel and Command WorkStation should use the Macintosh, DOS, or Windows character set for displaying file names. This is important if file names include accented or composite characters (such as é or æ).

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

Enable Printing Groups

Yes/No [No]

Specify whether to enable printer groups for Member Printing. If you enable this option, you must use Command WorkStation to define user groups and passwords. Users must then enter their group name and password when they print.

Enable Printed Queue

Yes/No [Yes]

Specify whether to enable the Printed queue, which creates a storage location on the Fiery disk for recent jobs that were printed from the Print queue. Users with Administrator or Operator access to the job management tools can reprint jobs from the Printed queue without resending them to the Fiery. If you select No, jobs are deleted from the Fiery 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. Jobs in the Printed queue take up space on the Fiery hard disk. If disk space is low, use a smaller value for saved jobs.

Preview While RIP

Enable/Disable the preview of page thumbnails during RIP on the command workstation.

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

When you perform Network Setup, you configure the Fiery to receive print jobs over the network systems used at your site.

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

The Network Setup menu includes three submenus that allow you to choose port types, protocols, and network services. You must perform Port Setup and enable at least one port. When multiple ports are enabled, print jobs can be received over all of those ports at the same time. If the Fiery is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job.

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

You should 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.

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

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 Port 9100 Setup IPP Setup
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)
Parallel	Parallel Port Setup	—	—

To access Network Setup options

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

   During Network Setup, the Fiery 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 as described on .**

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. **To print to the parallel port, choose Parallel Port Setup from the Port Setup menu, and enter the appropriate settings.**

6. **When you have finished entering port settings, choose Exit Port Setup, and then choose Protocol Setup.**

7. **Enter the appropriate settings for the protocol or protocols you will use.**

8. **When you have finished entering protocol settings, choose Exit Protocol Setup, and then choose Service Setup.**

9. **Enter the appropriate settings for the services you will use.**

The options are described in detail in the following section.

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, USB and parallel communication simultaneously. To configure the Fiery, 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

Ethernet Setup

Port Setup

Enable Ethernet

Yes/No [Yes]

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

Ethernet Speed

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

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 is attached (10Mbps or 100 Mbps), select it.

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.

Admin Setup

Parallel Port Setup

Parallel Setup

Enable Parallel Port

Yes/No [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.

Port Timeout in Seconds

5–60 [5]

This option appears only if Enable Parallel Port is set to Yes. Your setting determines how long (in seconds) the Fiery waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery 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 should ignore end-of-file (EOF) messages in a file. This option must be set to Yes to print Post-Script files in binary format (not ASCII); under normal circumstances, it should be set to No. When this option is set to Yes, the Fiery 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.

Protocol Setup options

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

Network Setup **AppleTalk Setup**

Protocol Setup **Enable AppleTalk**

Yes/No [Yes]

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

AppleTalk Zone

List of zones

The Fiery 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 to appear. If your segment has only one zone, the Fiery 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 Appendix A).

TCP/IP Setup options

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

Choose Ethernet Setup and enter the appropriate settings. Choose each network type you use (Ethernet) and enter the appropriate settings.

When you set an IP address, subnet mask, or gateway address for the Fiery during Setup, you can allow the Fiery to get these addresses automatically from a DHCP or BOOTP server. First, turn on or restart the Fiery and allow it to reach Idle. Make sure the DHCP or BOOTP server is running, and then perform Fiery Setup.

TCP/IP Setup with Ethernet

Network Setup   **Ethernet Setup**

Protocol Setup   **Enable TCP/IP for Ethernet**

TCP/IP Setup   **Yes/No [Yes]**

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

Note: If you are using TCP/IP for printing from Windows computers, enabling TCP/IP here also enables you to use Fiery utilities from Windows computers using TCP/IP protocols.

Enable Auto IP Configuration

Yes/No [Yes]

Select Yes to allow the Fiery to obtain its Ethernet IP address by searching the network. Depending on your network and the proto-col you select in the following option (DHCP or BOOTP), the IP address can change. Select No to assign the Fiery a static IP address. If you select No, you proceed to the IP Address option, where you manually set the IP address.

Select protocol

DHCP/BOOTP [DHCP]

This option appears only if you answered Yes to Enable Auto IP Configuration. Select the protocol over which the Fiery should search for its IP address. Both DHCP and BOOTP allow the Fiery to obtain the Ethernet IP address and Subnet Mask automatically.

Depending on your network, the Fiery might be assigned a different address after you restart the Fiery. With the DHCP setting, the Fiery can be assigned a different address even if it is not restarted. Make sure the network is already configured properly for the protocol you select.

Auto Gateway Address

Yes/No [Yes]

Use this option to assign the gateway address automatically for printing with TCP/IP.

IP Address

[127.0.0.1]

Enter the Fiery IP address for Ethernet. This IP address, unlike an IP address set automatically, remains the same if you restart the Fiery. You must change the default to a valid address for your network. For information about setting up printing with TCP/IP, see Chapter 2.

Subnet Mask

This option lets you modify the subnet mask for printing with TCP/IP over Ethernet. 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: Confirm the subnet mask setting with your network administrator before proceeding. In some cases, the required setting may be different from that listed.

Gateway Address

[127.0.0.1]

This option appears only if you answered No to Auto Gateway Address.

Use this option to set the gateway address for printing with TCP/IP. If your network uses a gateway, you must change the default to a correct gateway address for your network.

DNS Setup

Network Setup

Protocol Setup

DNS Setup

DNS Setup

Enable DNS

Yes/No [No]

Select Yes to allow the Fiery to resolve a name to an IP address.

Auto DNS IP

Yes/No [No]

Select Yes to allow the Fiery to resolve a name to an IP address automatically.

Primary DNS Server

IP Address

255.255.255.255

This option only appears if you have selected No to Auto DNS IP. Specify the IP address of the primary DNS server. Repeat this for Secondary DNS Server.

Domain Name

Enter the DNS domain name.

Host Name

Enter the DNS host name of the Fiery.

Security Setup options

Use the IP Filtering and IP Port Setup options for Security Setup.

Using IP Filtering options, you can set controlled access to the Fiery by specifying IP address(es) that the Fiery permits or rejects receiving. This prevents unlimited access to the Fiery over your network and ensures network security in your environment.

Using IP Port Setup options, you can close unnecessary ports and help reject inbound access from the network.

Network Setup
Protocol Setup
Security Setup

IP Filtering

By default, the Fiery permits all IP addresses. To control access, you can set an IP address or a range of IP addresses.

Enable IP Filtering

Yes/No [No]

Select Yes to allow the Fiery to enable IP filtering and proceed to the subsequent IP filtering settings.

Default Policy

Accept/Deny [Accept]

If you selected Yes to enable IP filtering, this option appears.

Select Accept to accept, or Deny to reject, IP addresses other than the IP addresses you specify at this setup.

Add Filter

IP Filter Type

IP Address/IP Range [IP Address]

Select IP Address to permit or reject individual IP addresses. Select IP Range to specify a range of IP addresses to be permitted or rejected. Up to 16 IP addresses can be specified.

Note: Do not enter "0.0.0.0" or "255.255.255.255".

Delete Filter

Yes/No [No]

This option allows you to delete IP addresses individually or by range.

Edit Filter

Yes/No [No]

This option allows you to make changes to IP addresses or a range of IP addresses to be permitted or rejected.

If you selected Yes to enable IP filtering, these options appear. Add, delete, and edit filters as required. To add filters, enter the IP address, IP range, and accept the filter policy.

IP Port Setup. All ports not listed in the following setup options are closed. Supported protocols are listed in parenthesis after the port number.

Configure IP Ports

Yes/No [Yes]

Select Yes to proceed to the subsequent IP Port settings.

20-21 (FTP)

Enabled/Disabled [Enabled]

Select Enable to enable the 20-21 (FTP) ports.

23 (Telnet)

Enabled/Disabled [Enabled]

Select Enable to enable the 23 (Telnet) port.

80 (HTTP)

Enabled/Disabled [Enabled]

Select Enable to enable the 80 (HTTP) port. (Fiery WebTools and IPP printing)

137-139 (NetBIOS)

Enabled/Disabled [Enabled]

Select Enable to enable the 137-139 (NetBIOS) ports. (SMB printing)

161-162 (SNMP)

Enabled/Disabled [Enabled]

Select Accept to enable the 161-162 (snmp) ports. (Command WorkStation)

515 (LPD/Fiery Tools)

Enabled/Disabled [Enabled]

Select Accept to enable the 515 (lpd) port. (Fiery WebTools and LPD printing)

631 (IPP)

Enabled/Disabled [Enabled]

Select Enable to enable the 631 (IPP) port. (IPP printing)

9100-9103 (Port 9100)

Enabled/Disabled [Enabled]

Select Enable to enable the 9100-9103 (Port 9100) ports. (Port 9100 printing)

EFI Ports

Enabled/Disabled [Enabled]

Select Accept to enable EFI ports 8021-8022. (Fiery utilities and printer driver Two-Way Communication feature)

Oki Ports

Enabled/Disabled [Enabled]

Select Accept to enable Oki ports. (Oki utilities and printer driver Two-Way Communication feature)

IPX/SPX Setup options

To specify the frame types the Fiery uses for IPX/SPX protocols, choose IPX/SPX Setup from the Protocol Setup menu. You must choose at least one frame type to enable IPX/SPX protocols. The Fiery supports the following frame types for IPX/SPX:

- **For Ethernet—Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP**

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

Select Frame Types

Enable IPX Auto Frame Type

Yes/No [No]

Specify whether the Fiery should try to bind to all available frame types automatically. The Fiery does so whether or not all frame types are appropriate. To determine the frame types that were successfully bound, save your changes, exit Setup, restart the Fiery, and print a Configuration page. The Configuration page lists only one of the frame types that were successfully bound.

If you answer No to this option, you can select frame types manually. You must choose at least one frame type to enable IPX/SPX protocols.

The frame selection screen allows you to make multiple selections. Depending on your Port Setup selection, only Ethernet frame types or all frame types are displayed.

Press [ENTER] for each frame type used on your IPX/SPX network. An asterisk (*) appears beside each selected frame type. Press the line selection button again to cancel a selected frame type. Use the up and down arrow buttons to scroll to additional frame types. The Fiery 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

You can clear all frame types at once by choosing Exit IPX/SPX Setup, choosing IPX/SPX Setup, and then choosing Clear Frame Types.

Service Setup options

PServer is a program in the Fiery software that services the Novell print queues assigned to the Novell print servers set up for printing to the Fiery. When you choose PServer Setup and enable PServer, you can set up NDS (Novell Directory Services), Bindery Services, or both.

LPD Setup options

Network Setup

Service Setup

LPD Setup

Enable LPD

Yes/No [Yes]

Select Yes to allow lpd printing. For more information, see "Setting up the Fiery on TCP/IP networks" on page 2-46.

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.

Choose NDS Setup if your network uses NetWare in native mode. Choose Bindery Setup if your network uses NetWare in bindery emulation mode.

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

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

Network Setup

Service Setup

PServer Setup

NDS Setup

Before entering NDS settings, make sure the Fiery is connected to the network and that you have configured an NDS directory tree with a Printer, Print Server, and one or more Print Queue objects for Fiery jobs (see page 2-39). To perform NDS Setup, you may need permission to browse the NDS tree. If access to the Print Server is restricted, you 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 print queues.

Note: 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

Yes/No [No]

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

Select NDS Tree

List of trees

Use the arrow buttons to browse the list of NDS trees available to the Fiery. Press [ENTER] when you have displayed the tree that contains the Printer, Print Server, and Print Queue objects you previously defined for the Fiery.

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 later. If you do not want to continue, press the Back button to exit NDS Setup.

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 User Login object.

This message is displayed if you selected Yes for the previous option. Choose Yes 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 arrow buttons to scroll through 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, printer Enter to travel down the tree, or choose ".." to go up the tree. When you select an object and press Enter, that object is 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 and press Enter.

Enter Password

Enter the login password for the NDS tree, using the up and down arrow buttons to select characters, and the Enter button to advance the cursor. Press Enter to complete the password entry.

Navigate NDS Tree to the Print Server.

Choose Yes 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, press Enter to travel down the tree, or choose ".." to go up the tree. When you select an object and press Enter, that object is displayed on the top line, and the second line lists objects directly below it.

When the Print Server is displayed in the second line, press Enter.

Enter Print Server Password

Enter the Print Server password, using the up and down arrow buttons to enter characters, and the Enter button to advance the cursor. Press Enter to complete the entry. (If no password is required, just press Enter.)

Server should look for print queues in:

Entire NDS Tree/Specif. Subtree [Entire NDS Tree]

By default, the Fiery searches the entire NDS tree for Fiery print connections. This option lets you restrict the search for Fiery print jobs to a subtree (the Print Queue root) in which the Fiery print

connections have been defined. This makes the search more efficient. Select Entire NDS Tree if the tree is small. Select Specif. Subtree to restrict the search and specify the subtree.

If you select Entire NDS Tree, pressing Enter returns to PServer Setup. Proceed with Bindery Setup (see), set the Polling Interval (see), 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 Specif. Subtree in the previous option. Choose Yes 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, press Enter to travel down the tree, or choose ".." to go up the tree. When you select an object and press Enter, 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, press Enter. In the next screen, choose "." and press Enter to select the object in the top line.

When the Fiery displays the container name, press Enter to return to PServer Setup.

Proceed with Bindery Setup (see below), set the Polling Interval (see), or choose Exit PServer Setup to return to the Service Setup menu when prompted.

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 in bindery emulation) with a Print Server and a Print Queue for Fiery jobs. Before entering bindery settings, be sure the Fiery is connected to the network and the NetWare file server is running. If Guest Login is not supported, you 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 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. 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, where you can set up another server.**

- **View Server List—displays the list of file servers that have already been selected to communicate with the Fiery.**

- **Edit Connection—lets you change the NetWare Print Server that will print to the Fiery.**

- **Remove File Server—lets you disconnect the Fiery 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 or reassign the connection to a different NetWare file server.**

- **Exit Bindery Setup—lets you exit this menu after you have 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, use the Menu button to escape and return to the main Bindery Setup menu. To cancel all changes, 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 does not have a large number of file servers.

Choose 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**: | If you selected **Search by Name**:

Add Server	**Enter First Letters of Server Name**
List of all servers	Use the up and down arrow buttons to enter the first letters of the name of the file server you want to use, and then press Enter.
The Fiery obtains a list of NetWare file servers by querying the IPX network. Use the up and down arrow 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 print jobs.	**Add Server**
	List of servers matching the search
	This option is displayed if you entered letters to search. Scroll through the list to select the server you want.

Once you have chosen a file server, the Fiery 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 connections are already in use, you are prompted to remove a file server (see "Remove File Server" on page 4-89).

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 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.

NetWare Print Server

Print Server Name

Select the name of the print server that you configured in the Net-Ware utility PCONSOLE. This print server will route print jobs to the Fiery from computers on IPX networks.

Print Servr 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. 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 allows you to view the list of file servers currently connected to the Fiery—that is, servers you have added in Bindery Setup. You are notified if there are none. When you press Enter, 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 print jobs. Choose this option to change the print server assigned to the Fiery.

Choose File Server

File server name

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

NetWare Print Server

List of print servers on selected file server

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

If you do not want to make any changes, press the Menu button to return to the Bindery Setup menu.

Enter Your Print Server Password

This option appears only if your NetWare print server is password-protected. 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

This option 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 do not 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.

Exit Bindery Setup

Choose Exit Bindery Setup after you view a list of IPX file servers, remove a file server from the list, or connect 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 use NDS or Bindery services, 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 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.

Windows Setup options

Network Setup

Service Setup

Windows Setup

Enable Windows Printing

Yes/No [Yes]

Enabling Windows Printing enables Server Message Block (SMB), the file and printer sharing protocol built into Windows. Enabling SMB allows the Fiery to be listed on the network so that Windows clients can print to a particular print connection (Hold, Print, or Direct) on the Fiery without any other networking software. For information on setting up a Windows computer for Windows printing, see the *User Software Installation Guide.* Windows printing runs via TCP/IP, so you must configure TCP/IP on the Fiery and on all computers that use Windows printing.

Use Automatic Configuration

Yes/No [No]

This option appears if you chose DHCP or BOOTP as the protocol for automatically obtaining the IP address of the Fiery.

Choose Yes and the Fiery uses a WINS name server and automatically obtains its IP address. Make your choice and proceed to the Server Name option.

Choose No to proceed to the Use WINS Name Server option, where you specify whether to use a WINS name server, and then to the WINS IP Address option, where you specify its IP address.

Use WINS Name Server

Yes/No [No]

Broadcasts from SMB devices cannot pass across a router 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. Change the default address to 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 via SMB. The default name is the same as the server name assigned in Server Setup (see).

Server Comments

Server comments (optional) can contain information about the printer. These comments are listed in the Fiery Properties in Network Neighborhood and can be up to 15 characters.

Set Domain Name

Select from list/Enter manually [Select from list]

This option provides two ways to specify the workgroup or domain in which you want the Fiery to appear.

If you selected **Select from list**:If you selected **Enter manually**:

Choose Domain	**Workgroup or Domain**
List of domains	Enter the name of the workgroup or domain. For more information about entering text and characters, see on page 4-63.
Select the workgroup or domain from the list.	

Web Services Setup

Network Setup

Service Setup

Web Services Setup

Enable Web Services

Yes/No [Yes]

Select Yes to make the WebTools available to users (see page 6-144). TCP/IP must be enabled on the Fiery and on user workstations. The WebTools include Status, WebLink, WebScan, WebDownloader, and WebSetup.

A Java-enabled Web browser and a valid IP address are required for each user. For details on browser choice and workstation requirements, see the *User Software Installation Guide*.

IPP Setup

Network Setup

Service Setup

IPP Setup

Enable IPP

Yes/No [Yes]

Select Yes to enable printing with the Internet Printing Protocol (IPP). You must enable Web Services. For information on setting up user computers to use IPP printing, see the *User Software Installation Guide*.

Port 9100 Setup

Network Setup

Service Setup

Port 9100 Setup

Enable Port 9100

Yes/No [No]

This option enables applications to open a TCP/IP socket to the Fiery at Port 9100 to download a print job.

Port 9100 Queue

Direct/Print Queue/Hold Queue [Print Queue]

Specify the Fiery print connection for downloading jobs to Port 9100. Only the print connections you have enabled in Printer Setup are available.

E-mail Setup

Network Setup

Service Setup

E-mail Setup

Enable E-mail Services

Yes/No [No]

This option enables the Fiery to use e-mail as a means of communication for a variety of purposes. The Fiery serves as a messenger between the printer and the e-mail recipient.

Enable Print via E-mail

Yes/No [No]

Choose Yes to enable printing through e-mail.

Outgoing Server

[127.0.0.1]

Enter the IP address of the server on your network that handles outgoing e-mail.

Incoming Server

[127.0.0.1]

Enter the IP address of the server on your network that handles incoming e-mail.

Server Type

POP3/IMAP [POP3]

Choose the type of mail server.

Fiery E-mail User Name

Enter the user name of the e-mail account. This is typically the part of the e-mail address that precedes the @ symbol. For example, in the address pat@test.com, the user name is pat.

Fiery E-mail Domain Name

Enter the name of the domain in which the user has an account. This is typically the part of the e-mail address that follows the @ symbol. For example, in the address pat@test.com, the domain name is test.com.

Note: The domain name can contain no more than 20 characters.

Account Name

Enter the account name. This is the internal name your network recognizes, which is not necessarily the same as User Name.

Password

Enter the password for the e-mail account.

Administrator E-mail User Name

Enter the administrator name of the administrator e-mail account. This is typically the part of the e-mail address that precedes the @ symbol. For example, in the address pat@test.com, the administrator e-mail user name is pat.

Administrator E-mail Domain Name

Enter the name of the domain in which the administrator has an account. This is typically the part of the e-mail address that follows the @ symbol. For example, in the address pat@test.com, the domain name is test.com.

Note: The domain name can contain no more than 20 characters.

The administrator authorizes a unique e-mail address to remotely administer Fiery E-mail Services via e-mail. If an error occurs while you are executing a job to e-mail, the e-mail service sends an error message to that administrator e-mail address. The administrator can authorize additional e-mail addresses as administrators from this e-mail address.

Timeout (sec)

30–300 [60]

Enter the length of time, in seconds, the Fiery should try to connect to each e-mail server before determining that the connection is unsuccessful.

Polling Interval (sec)

1–3600 [15]

If you have enabled auto-checking for new messages in the previous option, enter the interval in seconds at which the Fiery should automatically check for new e-mail.

Max Scan File Size (MFP models only)

0–15000 [1000]

Specify the maximum scan file size the Fiery can send as an attachment. If the scan file exceeds this maximum or is 0, the file is automatically sent as a URL.

FTP Setup

Network Setup

Service Setup

FTP Setup

Enable Scan to FTP (MFP models only)
Yes/No [Yes]
This option enables users to scan jobs from the Fiery to an FTP site.

Enable Proxy Setup

No/Yes [No]

Select Yes to enable the following proxy server setup options for security purposes when scanning to an FTP site. Select No to return to the main Network Setup menu.

Proxy Server IP Address

127.0.0.1

Enter the IP address of the proxy server on your network. This option appears only if you have selected Yes to Enable Proxy Setup.

Proxy Server Port Number

0-9999 [0]

Enter the port number of the proxy server on your network. This option appears only if you have selected Yes to Enable Proxy Setup. This port number must be entered at the Fiery when scanning jobs to a secure FTP site.

Proxy Server Timeout (sec)

0-999 [0]

Enter the length of time, in seconds, that the Fiery should try to connect to each proxy server before determining that the connection is unsuccessful. This option appears only if you have selected Yes to Enable Proxy Setup.

Proxy Server User Name

Enter the user name for the proxy server. This option appears only if you have selected Yes to Enable Proxy Setup.

Proxy Server User Password

Enter the user password for the proxy server. This option appears only if you have selected Yes to Enable Proxy Setup.

SNMP Setup

Network Setup

Service Setup

SNMP Setup

Enable SNMP

Yes/No [Yes]

This option enables the SNMP communication over a TCP/IP or IPX connection. Selecting No disables any access to remote Setup through Fiery WebSetup and Command WorkStation.

SNMP Read Community Name

[public]

This option appears if you select Yes for Enable SNMP.

This option allows you to change the SNMP Community Name ("public" by default) for read access. Once it is changed, the new community name must be entered to read any information through remote Setup. Up to 32 ASCII characters, including spaces, can be used for the community name.

SNMP Write Community Name

[public]

This option appears if you select Yes for Enable SNMP.

This option allows you to change the SNMP Community Name ("public" by default) for write access. Once it is changed, the new community name must be entered to write any information through remote Setup. Up to 32 ASCII characters, including spaces, can be used for the community name.

Note: For the two options above, a space at the beginning or end of the name is automatically deleted from the name entered. When an invalid character is entered or no name is specified, the default "public" is used for the community name. A name consisting only of spaces is invalid.

Network Setup

Service Setup

Exit Service Setup

This returns you to the main Network Setup menu. Choose Exit Network Setup.

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.

Printer Setup options

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

To access printer setup options

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.**

In the following list of options, default values, where applicable, appear in brackets.

Note: To allow users to access the Fiery utilities and WebTools or print to the Fiery over a TCP/IP network, you must publish at least the Hold queue or the Print queue.

Publish Direct Connection

Yes/No [Yes]

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

Note: If you plan to download fonts to the Fiery, you must publish the Direct connection.

Publish Print Queue

Yes/No [Yes]

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

Note: To print to the Fiery over the parallel port, you must publish a queue or publish the Direct connection.

Publish Hold Queue

Yes/No [Yes]

Use this option to allow users to print (or download) jobs to the Hold queue. Jobs in the Hold queue can only be printed by copying or moving the jobs to the Print queue with the job management tools.

Parallel Connection

Print Queue/Hold Queue/Direct Connection [Print Queue]

Use this option to determine where jobs printed to the parallel port are sent. Only the print connections that you published are displayed.

This option appears only if you selected Yes for the Enable Parallel Port option in Network Setup. If only one of the print connections is published, this option does not appear and parallel port jobs are automatically printed to that 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 allows you to set defaults for the Fiery. Users can override most of these defaults on a job-by-job basis. However, users printing from UNIX or DOS command lines cannot override defaults from their applications. Therefore, you must set defaults in PostScript Setup. For information about these defaults, see the *Printing Guide*.

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.

Default Paper Sizes

US/Metric [US in the United States, Metric elsewhere]

Specify whether to print on US paper sizes (for example, Letter, Legal, 11x17), or Metric paper sizes (for example, A4 or 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 select Letter/11x17->A4/A3, a letter size document is automatically printed on A4 paper.

Note: This option works in conjunction with the Default Paper Sizes option. For example, if Convert Paper Sizes is set to Letter/11x17->A4/A3, and Default Paper Sizes is set to US, then jobs are printed A4/A3 size. This also includes Fiery system pages such as the Start Page, Test Page, and Job Log.

Print to PS Error

Yes/No [No]

Specify whether the Fiery 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 set to No unless you encounter printing problems.

Allow Courier Substitution

Yes/No [Yes]

Specify whether to substitute Courier for fonts that are unavailable when you download files to the Fiery, 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 unavailable on the Fiery hard disk generate a PostScript error and do not print. This setting does not apply to PDF files; font substitution occurs automatically in PDF files.

Print Cover Page

Yes/No [No]

Specify whether the Fiery prints a cover page (job summary) 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 occurs and the Print to PS Error option is set to Yes, the cover page lists the PostScript error message instead of the job status.

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.

PCL Setup options

PCL Setup allows you to set defaults to control printer output. These defaults can be overridden by the user from within an application, but they determine how a job will be printed in the absence of other information.

Note: PCL printing is supported for Windows computers only. Mac OS computers must use the PostScript driver.

To access PCL setup options

1. **In the main Setup menu, choose PCL 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.

Paper Size

A3/A4/11x17/Letter [A4]

Specify the default paper size that the Fiery uses to print PCL jobs.

Default Orientation

Portrait/Landscape [Portrait]

This option determines whether the text or image will be oriented along the short edge of the paper (portrait) or along the long edge of the paper (landscape).

Form Length (lines)

5-128 [60]

This option sets the number of lines to be printed per page.

Font Size (pt)

4.0-999.75 [012.00]

When the number selected in Font Number represents a proportionally spaced scalable font, the Font Size option appears, allowing you to determine the point size (height) of the default font.

Font Pitch (char/in)

0.44-99.99 [010.00]

When the number selected in Font Number represents a fixed pitch scalable font, the Font Pitch option appears, allowing you to determine the width of scalable type. Pitch is measured by characters per inch, so 10-pitch type fits ten characters per inch.

Symbol Set

ASCII/Roman-8/ECMA-94 L1/PC-8... [Desktop]

This option lets you choose the symbol set that best matches the needs of users printing to the Fiery.

Font Source

Internal/ Softfont [Internal]

Specify the font source to be enabled.

Font Number

0-999 [0]

The font number designates the default font for the Fiery.

To determine font numbers, print the internal PCL Font List. The standard fonts are listed in order. The font numbers, however, are not displayed.

Paper Size for System Pages

US/Metric [US in United States, Metric elsewhere]

Specify the paper size that PCL system pages print on. System pages are pages that you print from the Control Panel, such as the PCL Font List.

Save Changes

Yes/No [Yes]

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

Color Setup options

Color Setup allows you to set defaults the Fiery uses to control color output. Mac OS and Windows users who use the printer drivers provided on the User Software CD can override most of these defaults on a job-by-job basis. However, users printing from UNIX or DOS command lines cannot override defaults from their applications. Therefore, you must set defaults in Color Setup.

The preferred method for setting color defaults is to use Color Setup, part of the ColorWise Pro Tools. The color options are described in this section for your reference. For more information about these defaults, see the *Printing Guide* and the *Color Guide*.

Note: In addition to the defaults described in this section, additional settings are available to Mac OS and Windows users from the printer drivers.

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 following list of options, default values, where applicable, appear in square brackets.

RGB Source Profile

EFIRGB/sRGB (PC)/Apple Standard/None [EFIRGB]

The RGB source is the color space used to control color for conversion from monitor to printed output. EFIRGB is based on the reference points used in the creation of the Fiery software. sRGB is based on an average of a large number of PC monitors. Apple Standard is the standard reference point for Apple's ColorSync software.

Rendering Style

Photographic/Presentation/Abs. Colorimetric/Rel. Colorimetric [Presentation]

The color rendering dictionary (CRD) defines how colors are converted from the RGB color space to device CMYK. 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. Absolute Colorimetric provides the closest match to the CMYK device being simulated, including rendering the paper color as the background. Relative Colorimetric provides a close match to the CMYK device being simulated, regardless of the media used.

CMYK Simulation Profile

SWOP-Coated (EFI)/DIC (EFI)/Euroscale (EFI)/None [SWOP-Coated (EFI) in North America, Euroscale (EFI) elsewhere]

CMYK simulation allows color correction to simulate printed output on a commercial press, so that the Fiery output can be used for proofing. The SWOP-Coated standard is used in the United States, DIC in Japan, and Euroscale in Europe. Custom simulations are user defined and named. The simulations provided with the Fiery have the designation "EFI" after their names.

If users create and load custom simulations on the Fiery with ColorWise Pro Tools, these also appear in the list of simulations. A custom simulation can be selected as the default simulation. For more information about custom simulations, see the *Color Guide*.

CMYK Simulation Method

Quick/Full (Source GCR)/Full (Output GCR) [Full (Output GCR)]

Quick simulation assumes that the printer toners match the printer's inks, and all changes affect only one color (C, M, Y, or K) at a time. Full (Source GCR) simulation allows for more flexibility in matching toner to ink and all changes interact to maintain a better color balance. Full (Output GCR) offers accurate proofing by providing a colorimetric conversion of all four plates. In this simulation method, the black (K) plate is mixed into the CMY plates, then reseparated based on the Output profile.

RGB Separation

Output/Simulation [Output]

This option defines how the Fiery processes RGB jobs. Select Output for RGB jobs that you print to the final output device. Select Simulation to simulate an output device that is not the device to which you are printing.

Use Media-Defined Profiles

Yes/No [Yes]

Specify whether to use the Media-Defined Profiles feature. Setting this option to Yes allows the Fiery to select an Output Profile according to a media type specified for the job. It also allows multiple output profiles to be applied to a Mixed Media job according to specified media types. Setting this option to No disables the feature, and a profile selected in the Output Profile option or in the ColorWise Pro Tools becomes the Fiery default Output Profile.

Output Profile

Default profile

Specify the default output profile to use for printing. Additional profiles can be created and downloaded to the Fiery with Color-Wise Pro Tools.

Use Media-Defined Profiles

Yes/No [Yes]

Specify whether to use the Media-Defined Profiles feature. Setting this option to Yes allows the Fiery to select an Output Profile according to a media type specified for the job. It also allows multiple output profiles to be applied to a Mixed Media job according to specified media types. Setting this option to No disables the feature, and a profile selected in the Output Profile option or in the ColorWise Pro Tools becomes the Fiery default Output Profile.

Pure Black Text/Graphics

On/Off [On]

The Pure Black Text/Graphics option optimizes black text and line art. This option also minimizes toner use for documents consisting of both color and black-only pages.

With this option On, black text and line art are printed with black toner only. With this option Off, black text and line art are printed using all four colors of toner. For more information, see the *Color Guide*.

Black Overprint

Text / Text/Graphics / Off [Text/Graphics]

With this option set to Text or Text/Graphics, black text and graphics overprints on colored backgrounds. With this option set to Off, black text and graphics knocks out color backgrounds. Generally this option should be Text or Text/Graphics.

Spot Color Matching

On/Off [On]

With this option On, the Fiery uses an internal lookup table to print the best equivalents of PANTONE colors. With this option Off, PANTONE colors are printed using the CMYK values defined in the original applications. For more information, see the *Color Guide*.

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 choices in the Setup menu are intended to help you manage print jobs and color output, but are not required for printing.

- **Job Log Setup** allows you to specify whether the Fiery prints and clears its log of printed jobs automatically.

- **Change Password** allows you to create or change an Administrator password on the Fiery so that casual users cannot enter the Setup menus and change settings without permission. The Administrator password also controls many functions available from the job management tools.

- **Clear Server** clears all queued print jobs from the server—jobs in the Fiery Print, Hold, and Printed queues. Clear Server also clears the Job Log, all jobs archived on the Fiery hard disk, the index of archived jobs, and all Fiery FreeForm masters and the index of Fiery FreeForm masters.

- **Factory Defaults** clears all queued jobs and resets the Fiery Setup options to the factory defaults. Once the Fiery is reset, you may need to reselect the language in which to display Setup menus and system messages.

To set Job Log options

1. In the main Setup menu, choose Job Log Setup.

2. Enter the options, as described in the following section.

3. When you have finished, save changes.

Job Log Setup

The Job Log is a record of all jobs processed or printed on the Fiery, whether they originate from a user workstation, a networked server, or the Fiery. You can print the Job Log from the Control Panel or from the job management tools.

The printed Job Log lists accounting information about each job, including user name, document name, time and date printed, and number of pages. Windows and Mac OS users can enter job-specific notes that appear in the Job Log.

By default, the Job Log is not printed or cleared automatically. You can change these defaults in Job Log Setup. You can also print and clear the Job Log from the job management tools.

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 the Fiery prints the Job Log after every 55 jobs. Setting the Job Log for automatic printing is useful if accounting for each printed page is important at your site.

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 or from a remote workstation, the Fiery saves a record of all jobs.

Note: If Auto Print Job Log is set to No, setting this option to Yes has no effect.

**Chapter 5:
Setting up the
Fiery from
a Windows
Computer**

After you perform initial Setup (Server, Network, and Printer
Setup) from the Control Panel, you can change most Setup
options from a Windows computer.

Accessing Setup

In addition to using the Control Panel, you can set up the Fiery
remotely. You can perform remote Setup from a Windows
computer using Command WorkStation.

To use the Setup applications (Command WorkStation), you must
enter the Fiery Administrator password. This is set either from the
local Setup at the Printer Control Panel, or remote Setup from
Command WorkStation.

Remote Fiery Setup

Remote Setup is performed from a Windows computer using
Command WorkStation.

To access WebSetup

1. **Start your Internet browser and enter the IP address of the Fiery.**

2. **Log in as Administrator.**

3. **When the Fiery home page appears, click WebSetup.**

**To access Setup from
Command WorkStation**

1. **Start Command WorkStation.**

2. **Log on as Administrator.**

3. **Choose Setup from the Server menu.**

    Regardless of how you access Setup remotely, the following dialog box appears.
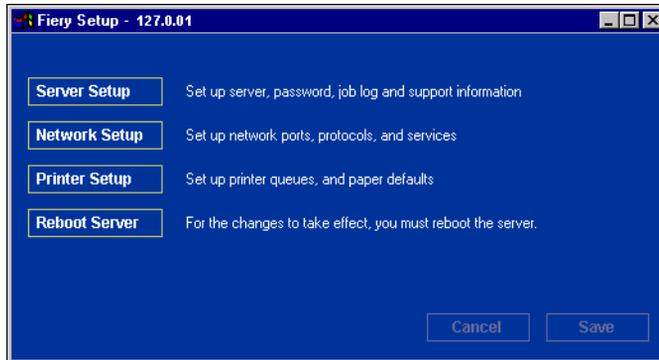
    Note: The interface of remote Setup from Command WorkStation and WebSetup is identical. The Setup illustrations in this chapter are displayed from Command WorkStation.

General Setup options

You can specify Fiery system settings that affect all users, such as the name of the Fiery, system date and time, passwords, and Job Log printing.
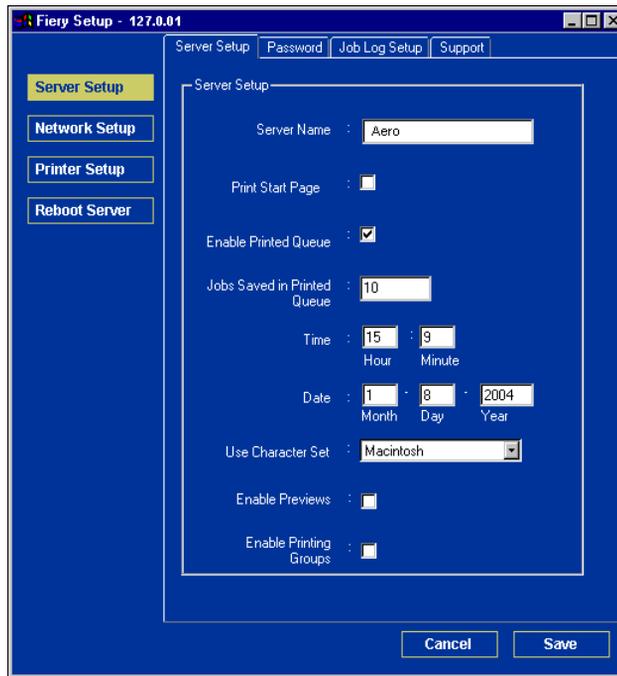
Server Name—Specify a name for the Fiery. This is the name that appears in the Chooser on an AppleTalk network.

Note: Do not use the device name (ES3640e MFP) as the server name. If you have more than one Fiery, do not assign them the same name.

Date and Time—Specify the system date and time, which are recorded on the Job Log.

Enable Printed Queue—Specify whether to enable the Printed queue, a storage location on the Fiery hard disk for recently printed jobs. You can reprint jobs from the Printed queue without resending them to the Fiery. If the Printed queue is not enabled, jobs are deleted from the Fiery disk immediately after they are printed.

Jobs Saved in Printed Queue—Specify the number of jobs to be stored in the Printed queue. Jobs in the Printed queue take up space on the Fiery hard disk.

Use Character Set—Specify whether the Control Panel and the job management tools should use the Macintosh, DOS, or Windows character set for displaying file names. This is important if a file name includes accented or composite characters (such as é or æ). For mixed-platform networks, select the setting that gives the best overall representation of the special characters you use.

Enable Preview—Specify whether a preview thumbnail should be displayed in Command WorkStation and Command WorkStation LE when a job is being processed. If you select Yes, the preview thumbnail is displayed in the Processing section of the Activity Monitor.

Enable Printing Groups—Specify whether to enable printer groups for Member Printing. If you enable this option, you must use Command WorkStation to define user groups and passwords. Users must then enter their group name into the Group Name option and their password into the Group Password option to print.

Support—Enter names, phone numbers, and e-mail addresses of contact people at your organization who provide support for the ES3640e MFP. This information is then available from the Support tab.

Job Log Setup
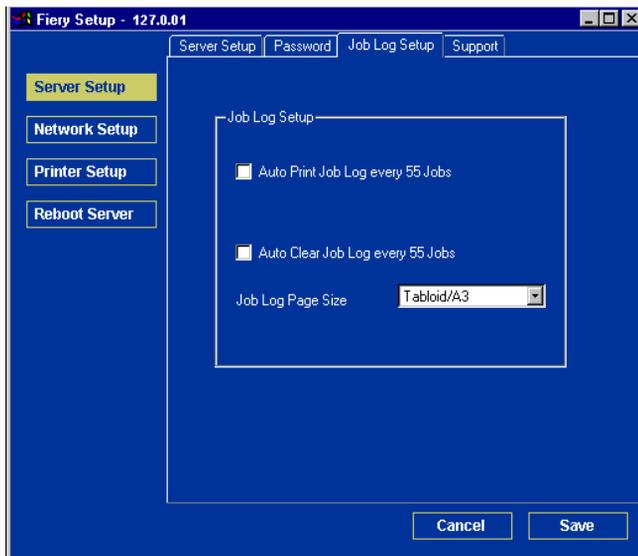
Auto Print Job Log Every 55 Jobs—Specify whether the Fiery prints the Job Log after every 55 jobs. The Job Log lists the last 55 jobs processed on the Fiery, with accounting information about each one, including user name, document name, time and date printed, number of pages, and other job information.

Auto Clear Job Log Every 55 Jobs—Specify whether the Fiery clears the Job Log after every 55 jobs. If you do not select this option, the Fiery saves a file containing a record of all jobs ever printed. Since this file takes up space on the Fiery hard disk, clearing the Job Log frees up additional disk space.

You can clear the Job Log manually at any time with the job management tools.

Job Log Page Size—Select a paper size for the printed Job Log.

Network Setup

Network Setup configures the Fiery to receive print jobs over the networks used at your site. If the Fiery is configured to enable

more than one protocol, it automatically switches to the correct protocol when it receives a print job. When multiple ports are enabled, print jobs can be received over all ports at the same time.

You can view and specify the following network settings in Network Setup:

- Adapters and ports— currently configured network adapters and port settings

- Protocols—including AppleTalk, IPX/SPX, and TCP/IP

- Print Services—including LPD printing (TCP/IP), NetWare printing (PServer), Windows print sharing (SMB), HTTP support (WWW), Internet Printing Protocol (IPP) printing, and Port 9100 printing

- E-mail Service— the Fiery E-mail Service

Adapters/Ports
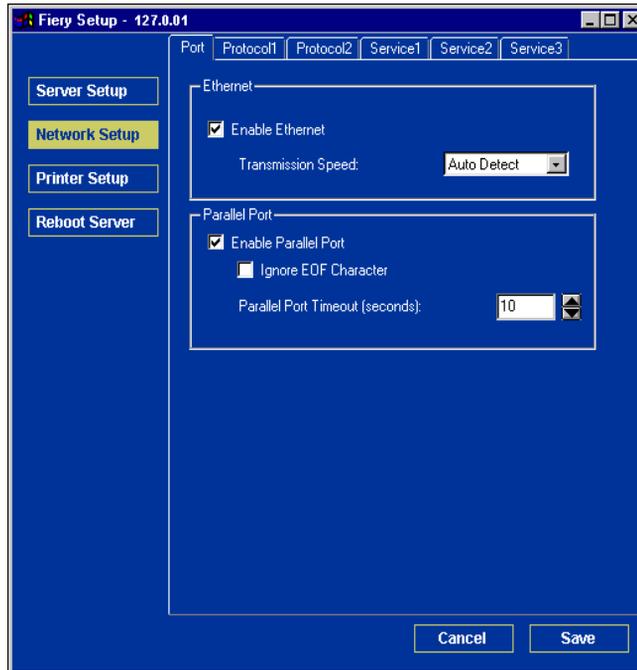
Ethernet (Port Setup)

Enable Ethernet—Select to connect the Fiery to an Ethernet network.

Transmission Speed—Choose Auto Detect if your network environment is mixed, or choose the speed of the network to which the Fiery is attached (10 Mbps or 100 Mbps).

Parallel Port (Port Setup)

Enable Parallel Port—Specify whether 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.

Note: Enabling the parallel port does not conflict with using Ethernet communication with the Fiery.

Ignore EOF Character—Available only if Enable Parallel Port is selected, this option specifies that the Fiery should ignore end-of-file (EOF) messages. Select this option to print PostScript files in binary format (not ASCII); under normal circumstances, this option should not be selected. When this option is selected, the Fiery uses the parallel port timeout value to determine when the end of the file has been reached.

Parallel Port Timeout (seconds)—Available only if Enable Parallel Port is selected, this setting determines how long the Fiery waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery cannot receive new jobs through the parallel port, but it can continue to receive network print jobs.

Protocols
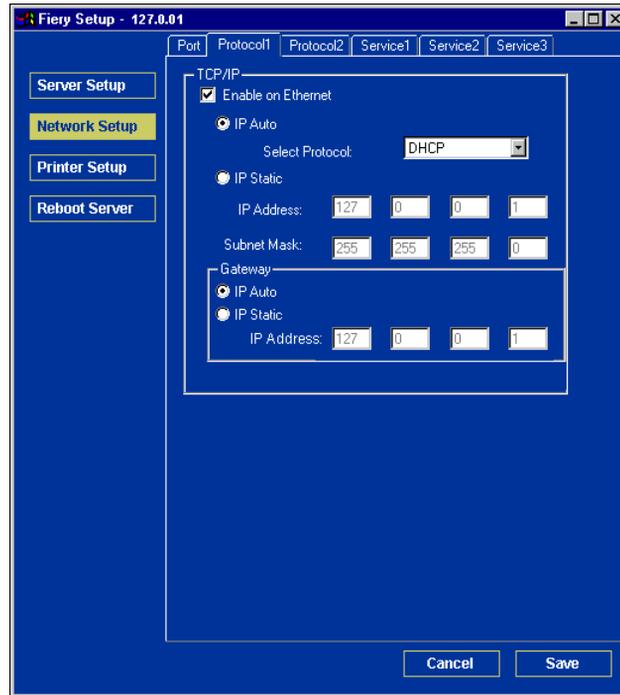
You can change TCP/IP, AppleTalk and IPX/SPX protocol settings for the Fiery. Change these settings on the Protocol1 and Protocol2 tabs.

TCP/IP

Specify TCP/IP settings. The current settings for IP address, subnet mask, and default gateway address are displayed. For information about setting up printing with TCP/IP, see Chapter 2.
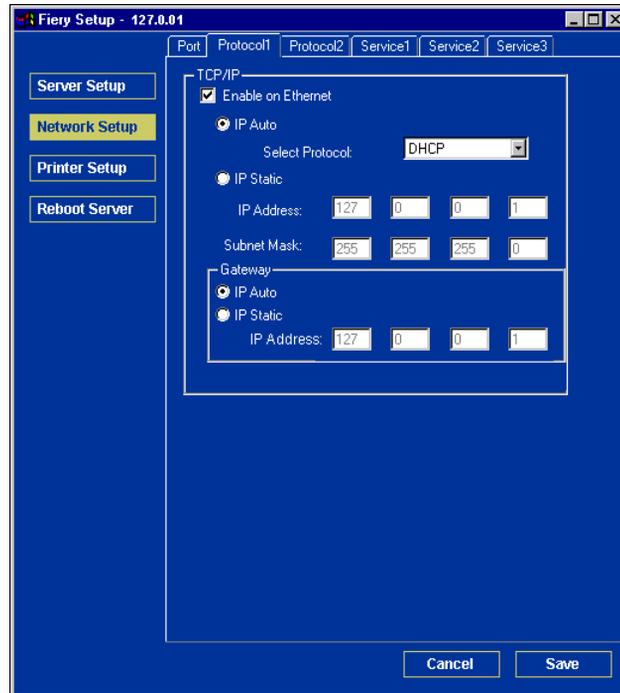
The Fiery requires a unique, valid IP address. You can set a static address or specify that the Fiery obtains the IP addresses automatically.

Note: If you specify the DHCP or BOOTP protocol, the Fiery restarts when you save your changes and exit Setup. Allow the Fiery to restart and return to Idle before printing a Configuration page or proceeding with any other operations.

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: Confirm the subnet mask setting with your network administrator before proceeding. In some cases, the required setting may be different from those listed.

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

Note: The Fiery stores assigned IP addresses, even if you later disable TCP/IP.

Note: If you must assign the Fiery IP address to another device, first set the Fiery address to a null address.

AppleTalk

The current AppleTalk zone is displayed in the Protocol2 tab.
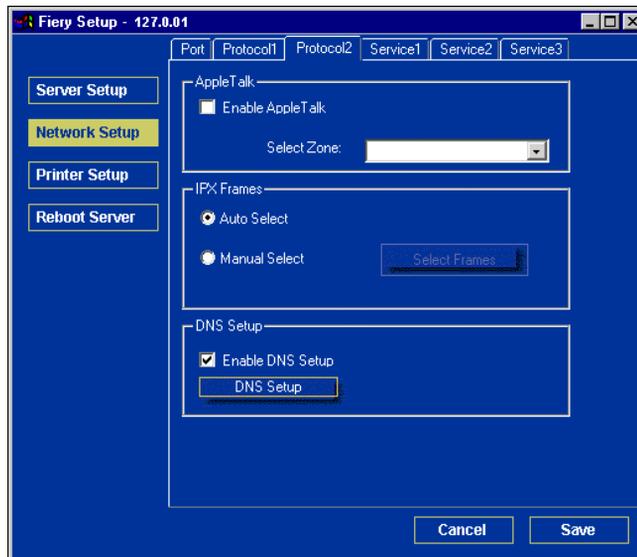
5

IPX/SPX

Use this option to specify IPX/SPX frame types.
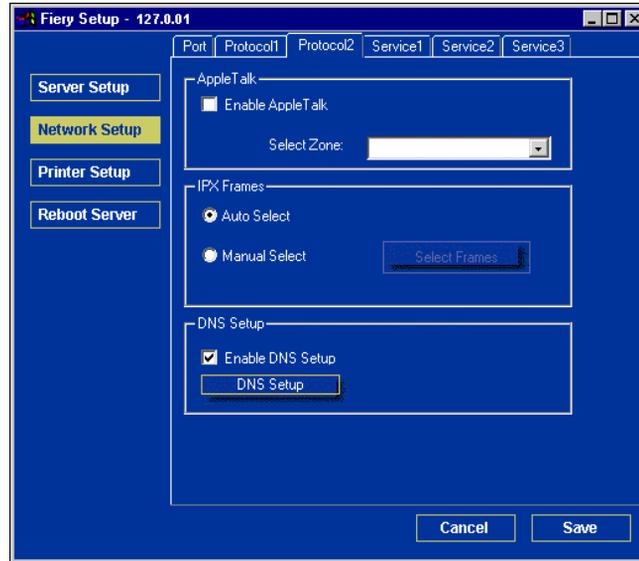
The Fiery supports the following Ethernet frame types for IPX/SPX: Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP. You can also allow the Fiery to select the frame type automatically.

DNS Setup

You can enable DNS Setup to allow the Fiery to resolve a name to an IP address.
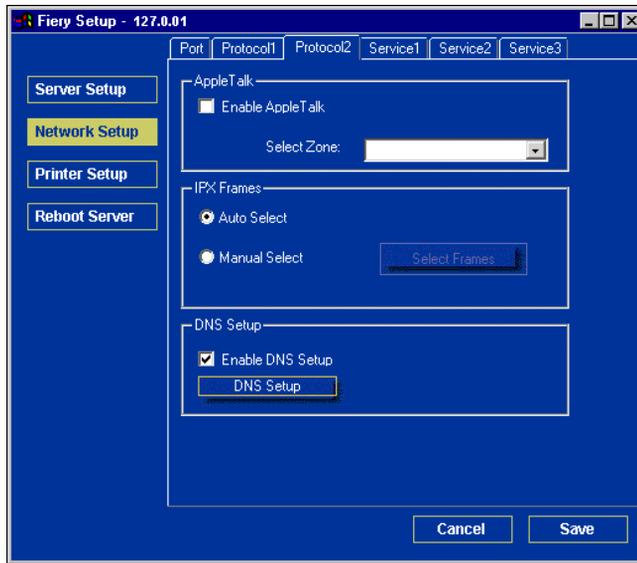
Services
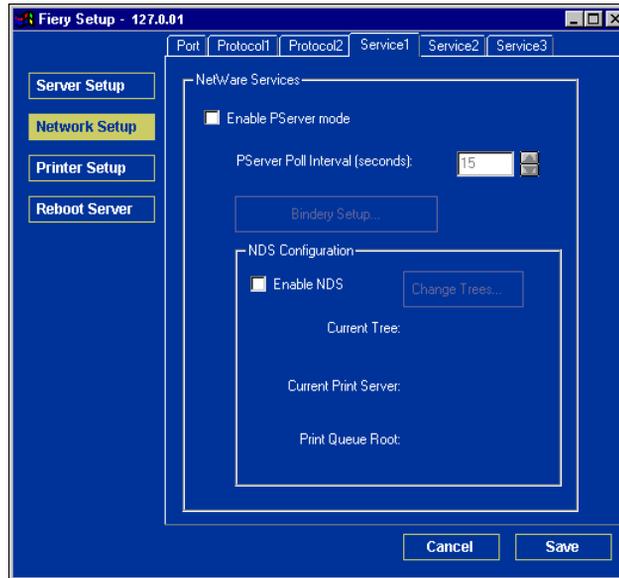
You can configure the following network services:

- LPD Printing (TCP/IP)—enable or disable LPD print services.

- NetWare Printing (PServer)—specify NDS and Bindery services (see page 5-126).

- Windows Print Sharing (SMB)—enable or disable SMB print services.

- HTTP Support (WWW)—enable or disable support for Fiery WebTools.

- Port 9100—enable or disable support for Port 9100 printing.

- E-mail Service—specify the Fiery E-mail Service.

- FTP Service—enable or disable FTP services.

LPD Printing

Enable LPD Printing Service—Select to enable or disable LPD printing services.

Enable Web Services—Select to enable or disable web services.

Enable FTP Services—Select to enable or disable FTP services.

5

NetWare Printing options

Use this option to specify NDS and Bindery services.

**To specify the NDS tree setting from remote Fiery
Setup**

1. **Select Enable NDS and click Change Trees.**

2. **In the NDS Configuration dialog box that appears, double-click an
   NDS tree in the Available Trees list.**
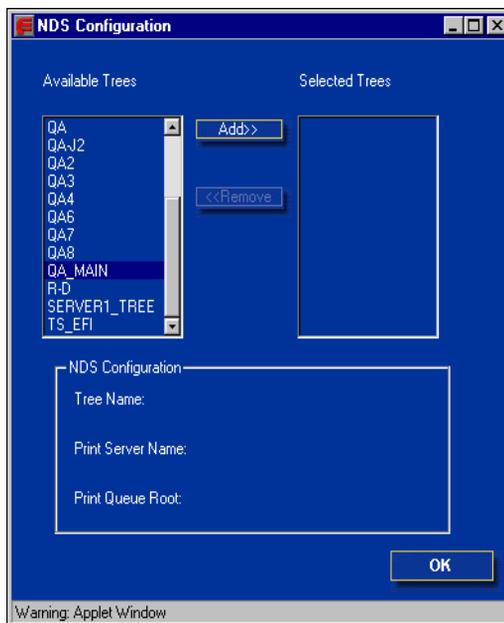
3. **In the Select User Login window, select Use Default User Information or enter your password, and click Next.**

4. **Navigate to the NDS container, select it, and click Next.**

    If necessary, enter the password.

5
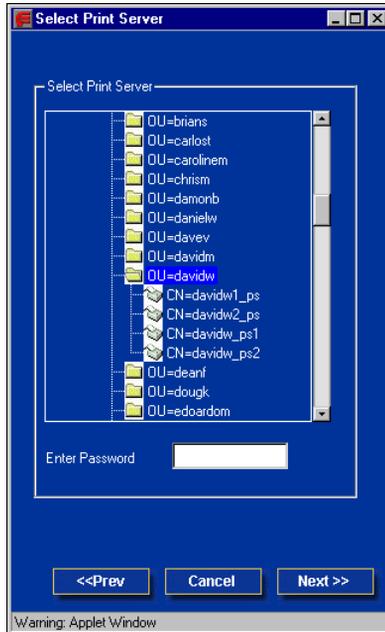
5. **Select Use Default Print Queue Root, or navigate to the Print Queue Root and click Finish.**
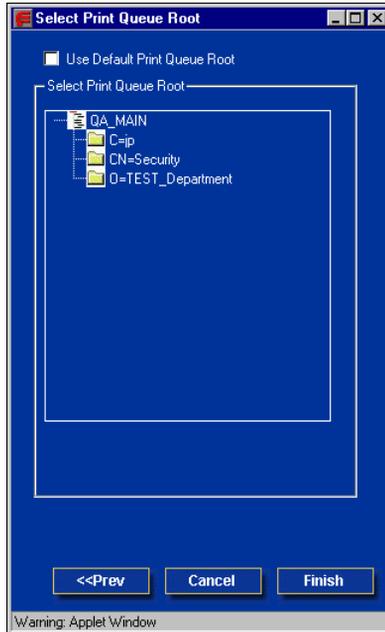
6. **Click OK.**

   The NDS Configuration dialog box appears, displaying information about the print server.
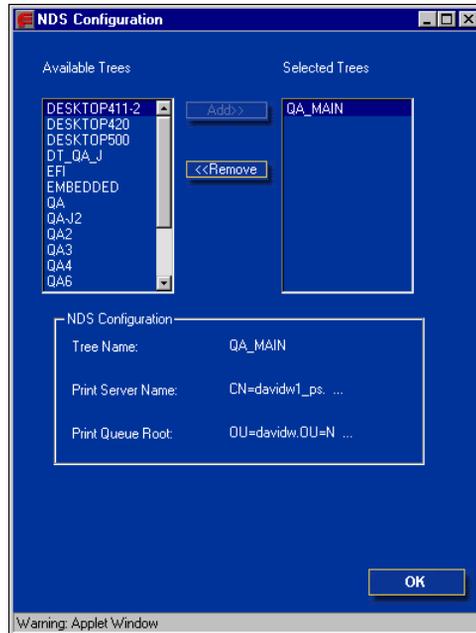
   Bindery Setup. Use this option to specify Bindery services.

To add bindery connections from remote Fiery Setup

1. **Select Enable PServer mode from the Service1 tab.**

2. **Click Bindery Setup.**

3. **Select a file server from the Available Servers list.**
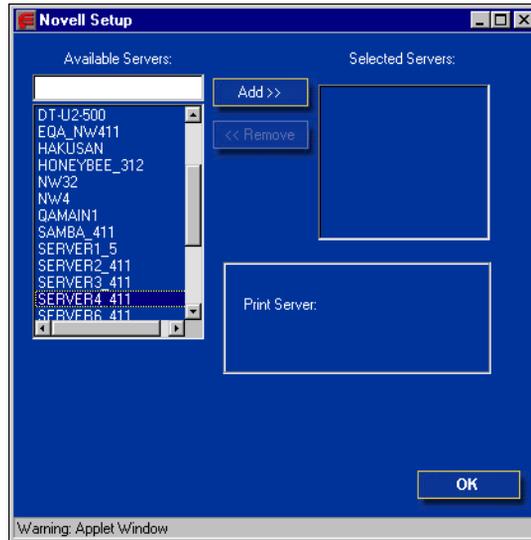
If the File Server User Name and Password dialog box appears, enter the appropriate user name and password to log on to the selected file server.

4. **Select a print server from the list and click Finish.**

If necessary, enter the appropriate password in the Print Server Password dialog box to log on to the selected file server.

The name of the newly added server appears in the Selected Servers list.

5. **When you finish adding servers, click Finish.**

To remove bindery connections from remote Fiery Setup

1. **Select Enable PServer mode from the Service1 tab.**

2. **Click Bindery Setup.**

   The Novell Setup dialog box appears.

3. **Make your selection in the Selected Servers list.**
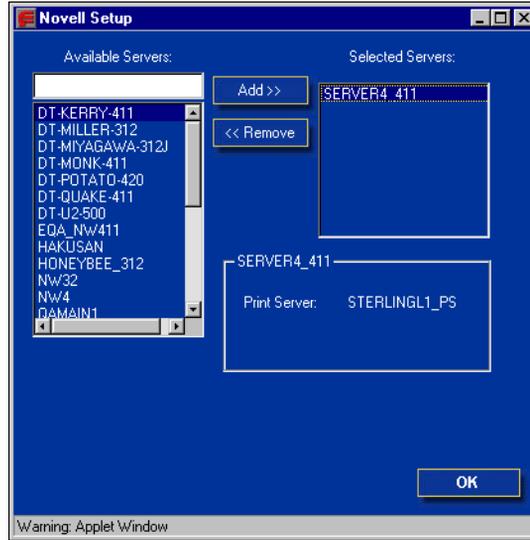
4. **With the file server selected in the Selected Servers list, click Remove.**

5. **Click OK.**

PServer Poll Interval . Specify the polling interval (in seconds)

for NetWare printing.
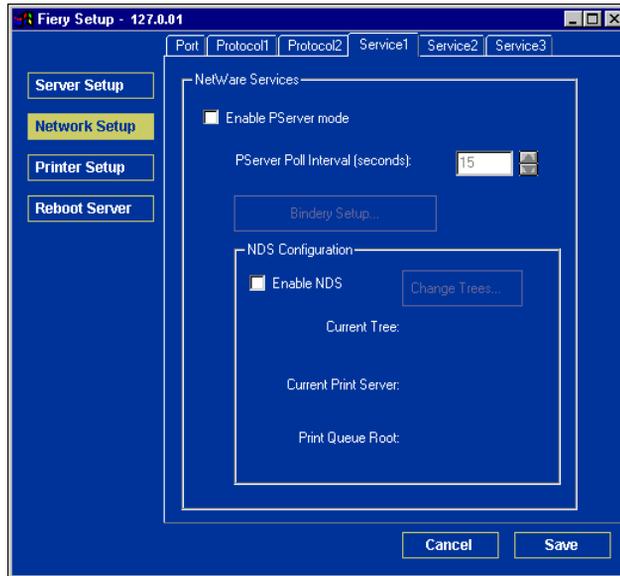
Windows print sharing with Server Message Block (SMB)

To set up the Windows printing service, text fields may include uppercase letters, numerals, spaces, and the following characters:

- _ . ~ ! @ # $ % ^ & ( ) { } \ ' , "

Note: Lowercase letters are *not* allowed, except in the Comment field.
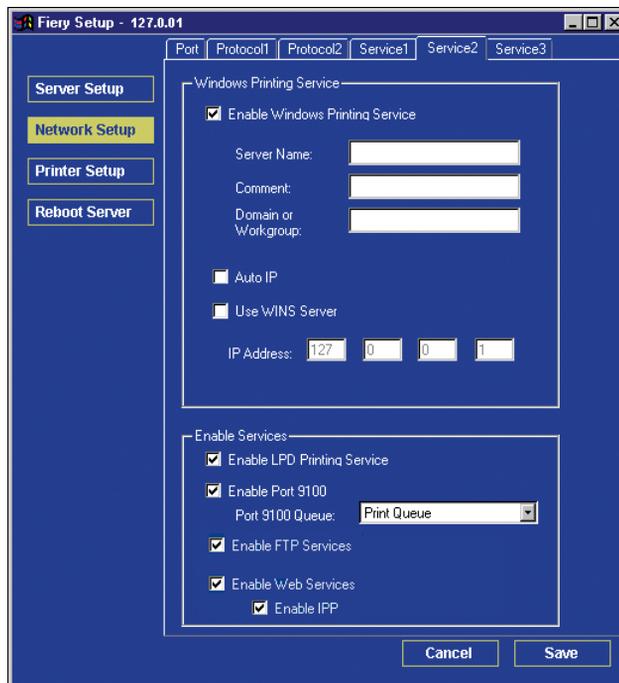
Enable Windows Printing Service—Select to enable SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB lists the Fiery on the network so that Windows clients can print to a particular print connection (Hold, Print, or Direct) on the Fiery without any other networking software. For information on setting up a Windows client for Windows printing, see the *User Software Installation Guide.*

Note: Windows (SMB) printing runs over TCP/IP, so you must configure TCP/IP on the Fiery and any computers that use Windows printing.

Server Name—Enter the server name that will appear on the network. You can use the same name as the server name assigned to the Fiery (see page 5-113), or choose another name.

Comment—Enter information about the printer, up to 15 characters. These comments are listed in the Properties of the Fiery in Network Neighborhood. Lowercase letters are allowed in this field.

Domain or Workgroup—Enter the workgroup or domain where the Fiery should appear.

Auto IP—If you have already enabled Auto IP in Protocol Setup, and selected either DHCP or BOOTP as the protocol for obtaining an IP address, select this option to allow the Fiery to obtain the IP address automatically for the WINS Name Server. If you do not select this option, use the following two options to specify whether to use a WINS Name Server and its IP address.

Use WINS Server—Select to use a WINS name server. Broadcasts from SMB devices cannot be routed beyond their original network segment without a WINS name server. Setting up a WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

IP Address—Enter the IP address of the WINS name server.

HTTP Connection Support (WWW)

Enable Web Services—Select to make the WebTools available to users (see page 6-145). TCP/IP must already be enabled on the Fiery and on users' computers. The WebTools include Status, WebLink, WebSetup, WebScan, and WebDownloader. A Java-enabled Web browser and a valid IP address are required for each user. For details on supported browsers and workstation requirements, see the *User Software Installation Guide*.

Enable Internet Printing Protocol (IPP)—Select to enable printing with the IPP. You must also enable Web Services. For information on setting up users' computers to use IPP printing, see Chapter 1 of the *User Software Installation Guide*.

Port 9100 printing
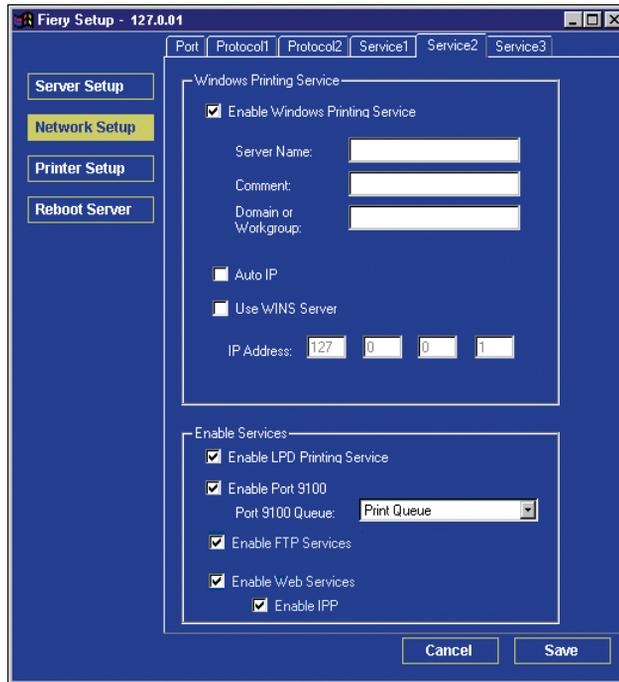
Enable Port 9100—Enables applications to open a TCP/IP socket to the Fiery at Port 9100 to download a print job.

Port 9100 Queue—Allows you to attach Port 9100 to any of the published Fiery print connections.

Email Services

E-mail Service Setup—Enabling e-mail services is required for all e-mail client services.

Enable Print via E-mail—If selected, print jobs sent via e-mail are accepted. If this option is cleared, print jobs sent via e-mail are ignored.

Incoming Mail Server—Specify the IP address or server name that communicates the appropriate mail server and contact information to the Fiery.

Server Type—Specify the e-mail protocol used to communicate with the incoming mail server.

Outgoing Mail Server—Specify the IP address or server name that communicates the appropriate mail server and contact information to the Fiery.

Note: You must define both an Incoming and Outgoing mail server. If an Outgoing mail server is not defined, the E-mail Service assumes that the incoming and outgoing server names are the same.

Timeout (seconds)—Specify the maximum amount of time that will elapse as the Fiery attempts to connect to the mail server.

Polling Interval—Specify how often the Fiery checks the mail server for relevant e-mail.

Mailbox Account Name—Enter the mailbox name specified on the mail server. This name tells the Fiery client mail service which account contains e-mail messages for the Fiery.

Note: The account name entered in this field must first be specified on the mail server by the administrator.

Fiery E-mail Address—Enter the name of the e-mail account. For example, pat@test.com.

Password—Enter a password for accessing the mailbox account on the mail server.

Verify Password (remote Setup only)—Reenter your password.

Administrator E-mail Address—Enter the address specified in Fiery setup.

The administrator authorizes a unique e-mail address to remotely administer e-mail services. If an error occurs while you are sending a job via e-mail, E-mail Service sends an error message to the Administrator E-mail Address specified. The administrator can authorize additional administrator e-mail addresses from this e-mail address.

Printer Setup options

From this dialog box, you can access the Printer Setup and Paper

Setup tabs.

Note: In the following illustrations, "Device name" represents the actual printer model, which is ES3640e MFP.

Printer connections

Specify whether to publish the Print queue, Hold queue, or Direct connection.
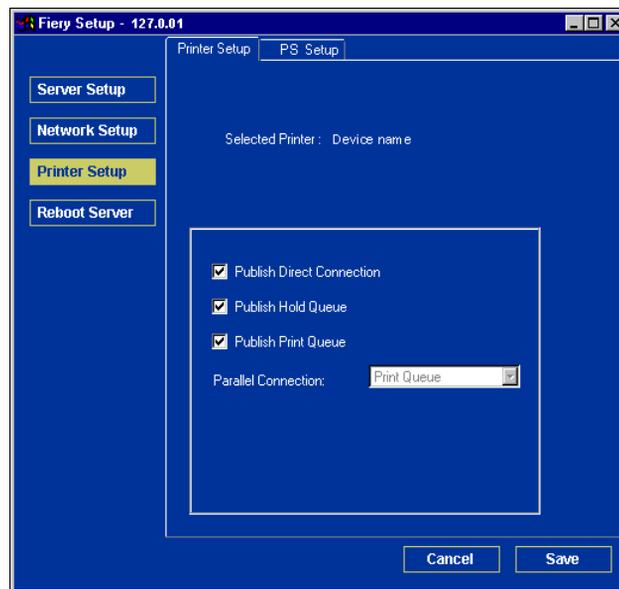
PS (PostScript) Setup

Convert Paper Sizes Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you select Letter/11x17->A4/A3, a letter size document is automatically printed on A4 paper.

Note: This option works in conjunction with the Default Paper Sizes option. For example, if Convert Paper Sizes is set to Letter/11x17->A4/A3, and Default Paper Sizes is set to US, then jobs are printed A4/A3 size. This also includes Fiery system pages such as the Start Page, Test Page, and Job Log.

Default Paper Sizes—Specify whether to print on US paper sizes (for example, Letter, Legal, Tabloid), or Metric paper sizes (for example, A4 or A3) by default. When no paper size is defined within a PostScript file, jobs are printed on Letter-size paper if you select US or A4 paper if you select Metric.

Print Cover Page—Specify whether to insert an identification sheet between print jobs.

Print to PS Error—Specify whether to print a error page if an error occurs during PostScript printing. When you choose No, errors are ignored

Allow Courier Substitution—Specify whether to substitute Courier for unavailable fonts. When you choose No, jobs requiring fonts unavailable on the Fiery hard disk generate a PostScript error and do not print. This setting does not apply to PDF files; font substitution occurs automatically for PDF files.

Print Master—Specify whether to generate a printout when creating a master. When you choose No, a master is created as a RIP and Hold job but is not printed.

Scale to Fit—Specify whether to print data formatted for one size page onto a different size page, without modifying the print data.

5

Setting up printing groups

The Fiery administrator can arrange users into groups and allow members of a group to print only if they supply a password at print time. This method of printing is known as Printing Groups, or Member Printing.

This section describes how to set up groups and passwords. For information on how to enable Printing Groups, see page 4-65. For more information on using the Printing Groups feature, see the *Printing Guide*.

Note: To change the Group Name or Group Password settings for a job that a user has already sent from the printer driver, use Command WorkStation.

To set up printing groups and passwords

1. **Select Printing Groups from the Command WorkStation Server menu.**

2. **Click Create.**

3. **In the Group Name field, enter a group name for the printing group.**

4. **In the Password field, enter a password for the group, and reenter the password in the Verify Password field.**

5. **Click Add to move the new group into the window.**

To change printing groups and passwords

1. **Select Printing Groups from the Command WorkStation Server menu.**

2. **Select the printing group name in the Printing Groups Setup dialog box and click Modify.**

3. **Make the necessary changes.**

4. **Click OK.**

To remove printing groups and passwords

1. **Select Printing Groups from the Command WorkStation Server menu.**

2. **Select the printing group name in the Printing Groups Setup dialog box and click Remove.**

3. **Click OK.**

Exiting Setup

When you have finished specifying Setup options, click OK and close the Setup dialog box. You are notified that the Fiery must be restarted for the new settings to take effect. You can restart now or later. If Command WorkStation is running, the connection to the Fiery is lost and you must log on again when the server restarts.

After you have completed Setup and restarted the Fiery for the first time, install the user software for printing on remote workstations, as described in the *User Software Installation Guide*. To confirm the network connection and your Setup, print a test job from a remote workstation.

5

Printing the Configuration page

The Configuration page lists the settings in effect for the current Setup. After you have performed Setup, print a Configuration page to confirm your settings.

The other pages you can print from Command WorkStation include the Test page, Job Log, color charts, and Font List. For information on these Fiery pages, see Chapter 2 of the *Job Management Guide*.

To print the Configuration page

1. **In Command WorkStation, choose Print Pages from the File menu.**

2. **Click Configuration.**

3. **Click Print.**

    Post the current Configuration page near the server for quick reference. Users need the information on this page, such as the current printer default settings.

6

Chapter 6: Configuring Fiery WebTools

Fiery WebTools allow you to manage your Fiery remotely from the Internet or from your company's intranet. The Fiery has its own home page, from which you can select a variety of functions, including Status, WebLink and WebDownloader.

For more information on using Fiery WebTools, see the *Printing Guide*.

Configuring the Fiery and clients for WebTools

The Fiery WebTools provide access to many Fiery functions via the Internet (or intranet), providing additional flexibility in remote management.

To set up WebTools on the Fiery

1. **In Fiery Network Setup, enable TCP/IP.**

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

3. **Enable Web Services.**

4. **In Fiery Printer Setup, confirm that the Print Queue is published.**

To set up WebTools on a computer

1. **Enable TCP/IP networking.**

2. **Assign the workstation a valid, unique IP address and subnet mask, and a gateway address if required.**

3. **Install an Internet browser that supports the Java language and frames.**

   Make sure Java is enabled. For more information on supported browsers and Fiery WebTools requirements, see the *User Software Installation Guide*.

6

To access WebTools

1. **Start your Internet browser.**

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

3. **Press Enter.**

   The Fiery home page appears.

4. **Click the name of a particular WebTool.**

5. **Click Configure to enable specific WebTools for users.**

Setting up Fiery WebTools

In order for network users to access and use Fiery WebTools, you must set certain Fiery options in Network Setup and Printer Setup. You also must prepare each user's workstation to communicate with the Fiery over the Internet or intranet.

For more information on Network Setup, see Chapter 2.

To set up Fiery WebTools on the Fiery

1. **Set Enable Ethernet to Yes in Network Setup>Port Setup > Ethernet Port Setup.**

2. **Set Enable TCP/IP for Ethernet to Yes in Network Setup>TCP/IP Ethernet Setup.**

3. **Set Enable Web Services to Yes in Network Setup >Network Service Setup>Web Services Setup.**

4. **Exit Network Setup. Choose OK to Save Changes.**

Setting the WebLink destination

You can change the pre-set WebLink destination; this function requires the Administrator password, if one has been set.

To change the WebLink destination

1. **Start your Internet browser.**

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

   The Fiery home page appears.

3. **Enter the Administrator password, if required, and click OK.**

4. **Press the Ctrl key as you click WebLink.**
   The Update WebLink dialog box appears.

5. **Enter the new WebLink address (URL) and click OK.**

Chapter 7: Administering the Fiery

This chapter provides tips on managing Fiery printing.

Administrator functions

Administration features are included with the user software and are built into the Fiery. 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	Connecting the Fiery and performing Fiery Setup	This manual
	Setting up the Fiery to allow user access to Fiery WebTools	This manual *Release Notes*
Setting up the printing environment	Setting printer defaults, including modes, imaging, paper size handling, error handling	Printer Setup, pages 4-98,5-138 PS Setup, pages 4-100 and 5-139 *Color Guide* *Printing Guide*
Setting up the job environment	Publishing the Direct connection, Print queue, or Hold queue to end users on various platforms	Printer Setup, Chapter 2, pages 4-98 and 5-139
Protecting integrity of users' jobs, maintaining consistency of Fiery settings	Setting the Administrator password	Passwords, page 7-149 Chapter 3

For these operations	And these tasks	See
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	This manual *Release Notes*
Getting users started with printing	Printing to the Fiery Setting job-specific options Using Fiery utilities	*Printing Guide* *Job Management Guide*
Controlling the job flow	Using Fiery WebTools, Command WorkStation and Fiery utilities and for managing job priorities, tracking current jobs, canceling jobs, printing jobs in the Hold queue, and reprinting from the Printed or Hold queue	*Printing Guide* *Job Management Guide*
Job accounting	Viewing, printing, and exporting the Job Log, user notes Setting automatic printing and clearing for the Job Log	*Job Management Guide*
Color management	Printing with CMYK simulations Printing color samples and swatch pages Installing color profiles	*Color Guide* *User Software Installation Guide*
Maintaining optimal Fiery performance	Tips Deleting jobs, clearing queues	page 7-156, and *Job Management Guide*
Troubleshooting	Troubleshooting Fiery Setup	Appendix A

Setting passwords

You can set or change the Administrator password for the Fiery. Anyone with the Administrator password can modify the Setup options, and control the flow and order of print jobs with the job management tools.

When the Fiery 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 or use the administrator functions in the job management tools. If an Administrator password has been set previously, you are required to enter it when you run Setup. Use the ▲ and ▼ keys to select the characters and the ENTER key to advance and complete (see "Types of Setup screens" on page 4-63).

Caution: If you decide to set an administrator password make sure you keep a careful note of it. If you lose or forget this password it cannot be recovered for you, and the internal hard disk drive containing the operating system and all settings will need to be replaced.

Passwords from the Control Panel

For more information on Administrator access privileges, see page 3-52. For information on controlling print jobs with the job management tools, see the *Job Management Guide*.

Note: The Operator password can be set and changed only from Fiery WebSetup, or Command WorkStation.

To change the Fiery password

1. **Scroll through the main Setup menu and choose Change Password.**

2. **Enter and confirm the password, as follows.**

New Password

Use the ▲ and ▼ keys to select the characters and the ENTER key to advance to the next character position. When the last character has been entered (ENTER key pressed) password entry is complete. The password can be any combination of letters and numbers up to 19 characters.

Caution:If you decide to set an administrator password make sure you keep a careful note of it. If you lose or forget this password it cannot be recovered for you, and the internal hard disk drive containing the operating system and all settings will need to be replaced.

Verify New Password

Reenter the new password, exactly as you entered it initially. If you make a mistake, you are prompted to enter the password again. The new password is effective after you save changes and restart the Fiery.

Passwords

You can set, change, and remove passwords for the Fiery. These passwords, specific to the Server process, have different uses than the Windows Administrator and Operator passwords. Keep track of the passwords you set for each.

Administrator—Controls access to Setup; Administrator privileges also include Operator privileges.

Operator—Controls access to job management functions via the job management tools.

Note: For more information on Fiery passwords and the access privileges they allow, see .

By default, *no* passwords are set. If you do not specifically set passwords, all users will have access to important functions such as Setup (including setting passwords) and job control. We *strongly recommend* that you set at least an Administrator password to protect the Fiery from unauthorized changes to Setup.
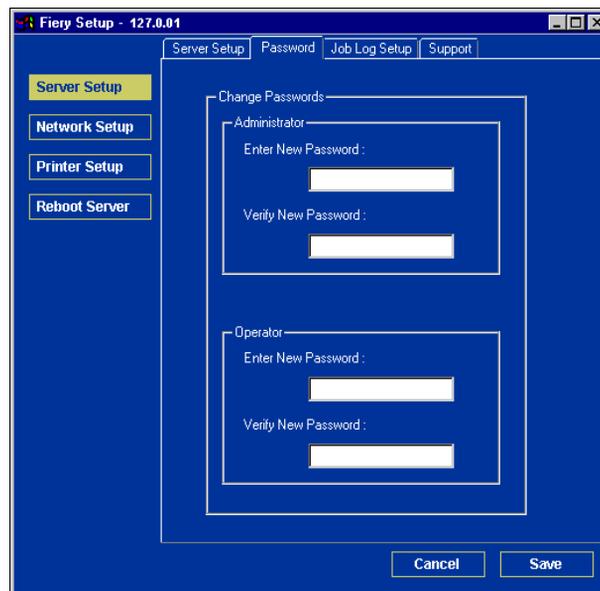
To set or change a password

1. **Select the password you want to change.**

2. **Type the password in both the Enter New Password and Verify New Password fields.**

   Passwords are case-sensitive and can be any combination of letters and numbers up to 19 characters. You must enter the password *exactly* the same way both times. The new password remains in effect until you change it.

   Caution:If you decide to set an administrator password make sure you keep a careful note of it. If you lose or forget this password it cannot be recovered for you, and the internal hard disk drive containing the operating system and all settings will need to be replaced.

To remove a password

1. **Select the password you want to delete.**

2. **Delete the asterisks (*) in both the Enter New Password and Verify New Password fields.**

Clearing the Fiery

The Clear Server command allows you to clear all queued print jobs from the Fiery—jobs in the Fiery Print, Hold, and Printed queues. Jobs can also be deleted, either individually or as a group, using the job management tools. Clear Server also clears all jobs archived on the Fiery hard disk, the index of archived jobs, all Fiery FreeForm masters, and the index of Fiery FreeForm masters.

To clear the Fiery, scroll through the Setup menu and choose Clear Server. You are asked to confirm your selection. If the Administrator password has been set, you are prompted to enter it.

Managing address books

The E-mail Service feature allows an administrator to import a list of e-mail addresses to the Fiery by sending e-mail messages to the Fiery.

Note: E-mail messages can be sent only from an administrator account.

The Fiery supports the following address books:

• **Admin**—includes users with administrative access. Administrative access allows you to modify the address book, get the current address book from the Fiery, and cancel or status any print job.

• **Print**—includes users who have print access. Only users whose e-mail addresses are in the Print address book are authorized to submit jobs via e-mail to the Fiery. Unauthorized users receive an e-mail reply that their job was not accepted by the Fiery for printing.

E-mail Service also allows the administrator to overwrite the address book, append new addresses, remove addresses, and retrieve current addresses on the Fiery.

When a print job is submitted via e-mail, the Fiery checks the Print address book. If the user's e-mail address does not match any entry in the Print address book, the job will not print. Instead, the user receives an e-mail stating that the print job was not accepted.

The default wildcard character "@" is stored in the Print address book. This allows any user to print to the Fiery until the administrator adds the first entry in the Print address book.

The administrator can manage the address books by sending an e-mail to the Fiery with command codes in the Subject and Message fields. The Fiery responds by e-mail to these commands with information about each request. When managing address books, see the following table.

Task	Administrator subject field	Administrator message field	Fiery e-mail response subject field	Fiery e-mail response message field
To retrieve a specific address book	#GetAddressBook *name of address book* For example: #GetAddressBook Admin		Address Book *name of address book* For example: Address Book Admin	List of addresses in the specified address book.
To add an address to an address book	#AddAddressTo *name of address book* For example: #AddAddressTo Print	name@domain For example: user@efi.com	Added to Address Book *name of address book* For example: Added to Address Book Print	List of addresses added to the address book. The Fiery also lists any addresses that cannot be added and includes the reason.
To clear an address book	#ClearAddressBook *name of address book* For example: #ClearAddressBook User		Address Book *name of address book* cleared or Address Book *name of address book* not cleared For example: Address Book User cleared	If the address book is not cleared, the reason is given.

Task	Administrator subject field	Administrator message field	Fiery e-mail response subject field	Fiery e-mail response message field
To delete an address from an address book	#DeleteAddressFrom *name of address book* For example: #DeleteAddressFrom User	name@domain For example: user@efi.com	Removed from Address Book *name of address book* For example: Removed from Address Book User	Deleted Address 1 Deleted Address 2 The Fiery also lists any addresses that cannot be deleted and includes the reason.
To receive help for Fiery e-mail services	#Help		RE: Help	Provides troubleshooting e-mail syntax.

Printing a Configuration page from the Control Panel

The Configuration page lists all the settings in effect in the current Setup. After you have finished running Setup, print a Configuration page to confirm your settings. You can also do this from Command WorkStation. (See).

After you make changes to Setup and choose Exit Setup, the system restarts. This allows the Fiery to recognize the new settings and display them properly on the Configuration page. Allow the system to restart and return to Idle before printing a Configuration page. In particular, the restart is necessary if you specified the DHCP or BOOTP protocol to obtain an IP address automatically for the Fiery.

Post the current Configuration page near the server for quick reference. Users need the information on this page, such as the current printer default settings.

Other information pages you can print include the Test Page, Font List, and Job Log. See Chapter 3 of the *Job Management Guide*.

To print the configuration page

1. **With the printing unit in the READY state, press the ▲ key to select the Print Information Menu, then press the ENTER key to select it.**

2. **Press the ▲ key to select Configuration, then press the ENTER key to print a configuration page.**

Maintaining optimal Fiery performance

The Fiery does not require maintenance. Beyond the obvious requirements of servicing and maintaining the MFP and replenishing consumables, you can improve the overall performance of your system by doing the following:

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

  Publish only connections that will be used; the Fiery 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.

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

  You can print recurring print jobs or jobs that are not urgent to the Hold queue. At low-traffic times, the administrator or a user of the job management tools with Operator privileges can move (or copy) all the Hold queue jobs to the Print queue for printing.

- **Reduce unnecessary two-way communication**

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

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

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

  An administrator can print or delete jobs that are in the Printed queue and Hold queue. Consider printing or offloading inactive jobs. If disk space on the Fiery is frequently low, you can disable the Printed queue (in Server Setup) and choose not to publish the Hold queue (in Printer Setup).

  To move or remove queued jobs, use the job management tools. When you free up disk space by removing inactive jobs, new jobs are spooled and printed more quickly.

Shutting down, rebooting, and restarting the ES3640e MFP

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

Shutting down and rebooting the printing unit

You may need to shut down the printer for service, or reboot the entire system. When you do so, fonts that have been downloaded to the hard disk are not deleted. Print jobs in the Hold queue, the Printed queue, and jobs that have been processed but not printed are not deleted; they will be available for printing when you restart the printer.

To shut down the MFP

1. **With the printing unit in the READY state, press the ▲ or ▼ keys to select the Shutdown Menu, then press the ENTER key to select it.**

2. **Press the ▲ or ▼ keys to select Shutdown, then press the ENTER key to shut down the entire system.**

To reboot the Fiery

1. **With the printing unit in the READY state, press the ▲ or ▼ keys to select the Shutdown Menu, then press the ENTER key to select it.**

2. **Press the ▲ or ▼ keys to select Reboot, then press the ENTER key to stop the Fiery and reboot the operating system.**

Restarting the Fiery

Restarting the Fiery resets the Fiery system software, but does not reboot the entire system. Network access to the Fiery is temporarily interrupted and all currently processing jobs are aborted.

To restart the Fiery

1. **With the printing unit in the READY state, press the ▲ or ▼ keys to select the Shutdown Menu, then press the ENTER key to select it.**

2. **Press the ▲ or ▼ keys to select Restart, then press the ENTER key to restart the Fiery without rebooting the operating system.**

A

Appendix A: Troubleshooting

This chapter provides troubleshooting tips.

Troubleshooting the Fiery

If you see startup error messages on Command WorkStation or if the Fiery does not reach the Idle state, contact your authorized service/support provider.

Troubleshooting during Setup from the Control Panel

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

Network Setup messages

After this Setup screen	This message	Means
Enable AppleTalk (Network Setup > Protocol Setup > AppleTalk Setup)	No AppleTalk zone found.	The Ethernet network cable is not attached to the connector on the ES3640e MFP, 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, you must connect the network cable to the Fiery before performing AppleTalk Setup. This could also mean that the AppleTalk network does not have zones. Zones are not required for printing to the Fiery. Press Enter to continue.
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	Enable at least one network port (Ethernet) in Port Setup before beginning Protocol Setup or Service Setup.
Frame Type selection (Network Setup > Protocol Setup > IPX/SPX Setup) Enable NDS (Network Setup > Service Setup > PServer Setup > NDS Setup)	Invalid frame size.	The network hub is not connected to a Novell machine when the Fiery 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 tries to bind. When this occurs, the network number defaults to zero.
	No NDS trees found.	No NDS trees were found on the Novell network. Check to see that the frame types on the Fiery are properly configured.

A

After this Setup screen	This message	Means
Select NDS Tree (Network Setup > Service Setup > PServer Setup > NDS Setup)	Warning! Selecting a new NDS tree deletes Bindery setup.	You have previously connected the Fiery 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 (Delete Bindery setup and continue?), bindery settings are deleted and have to be re-entered in Bindery Setup. To avoid deleting the bindery settings, select OK and choose No in the following message (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 Setup > Service Setup > PServer Setup > NDS Setup)	____ is empty.	The chosen container contains no sub-containers or objects relevant to the current mode of navigation.
Bindery Setup (Network Setup > 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.

After this Setup screen	This message	Means
Select File Server From List (Network Setup > 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.
	No NetWare file server found.	No file server was found when Fiery 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 Setup > Service Setup > PServer Setup > Bindery Setup)	File server name not found. Try again?	No file server with those letters was found when Fiery 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 Setup > Service Setup > PServer Setup > Bindery Setup)	No file server is selected.	No file server has been added in Bindery Setup.
Add File Server (Network Setup > 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.

After this Setup screen	This message	Means
Add Server, Enter Your Login Name, Enter Your File Server Password (Network Setup > Service Setup > PServer Setup > Bindery Setup)	No NetWare print server found.	No print server was found when Fiery 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 print jobs (see page 2-36).
Any Bindery Setup screen	Novell error code, followed by a message.	Novell NetWare has reported an error. Command WorkStation reports the error number and displays a brief message. For the most common errors (listed in the following table), a screen is displayed that allows 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 queries the network for Novell file servers and trees, and attaches to them temporarily. If a guest login is enabled, it is used. If not, you are prompted to log in from Command WorkStation.

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

• Enable a guest account on the NetWare server or tree for the purpose of setup.

A

• 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.

• 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.

• You have the appropriate permissions and login information, including user name and password, if necessary.

• The Fiery 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.

Novell error	Cause	Suggested action or exit
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 Back button returns to the PServer Setup screen.
nnn Notify IPX (Novell) Administrator.	Indicates other network errors when the Fiery is already connected to a file server. Something unexpected has happened and the user usually 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 error messages related to cancelling jobs and printing, including the Disk Full message and alerts to load media, see "Troubleshooting" in the *Job Management Guide*. These messages are reported by the job management tools.

You can turn on PostScript error reporting as a print option from Mac OS applications.

Printer not found

Most failures to find a printer on the network are due to conflicting or missing name or address settings for the Fiery. You must enter names in specific 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 in Fiery Setup.

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

    print

    hold

Note: If you change the DNS name (also known as the TCP/IP host name) of the Fiery, you must reconfigure one of the Fiery utilities on each workstation.

See the following table for the appropriate name.

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
Server Setup	Server Name option	Administrator defines name	Administrator defines name	page 4-64
Windows hosts file	host name	—	DNS name (TCP/IP host name)	page 2-26
Windows setup for TCP/IP	**lpd host name**	—	DNS name (TCP/IP host name)	page 2-26
	Name of printer on lpd host machine	—	**print** or **hold**	
UNIX /etc/printcap **file (BSD)**	rp **line**	—	**print** or **hold**	page 2-44
Solaris	lpadmin queuename	—	**print** or **hold**	
NetWare administration utility	print queues (must be all lowercase and in English)	_direct _print _hold	—	page 2-34

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
Add New Server dialog box, when configuring a Fiery utility	New Device	Utilities are not supported over IPX/SPX.	ES3640e MFP	*User Software Installation Guide*
	Server Name	Utilities are not supported over IPX/SPX.	DNS name (TCP/IP host name)	

Cannot connect to Fiery with Fiery utilities

If users cannot connect to the Fiery, check the following:

• Fiery Setup—the appropriate network protocol must be enabled, with the correct parameters (for example, for TCP/IP, the IP address), and you must publish either the Print queue or Hold queue.

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.

Cannot connect to the Fiery with Command WorkStation or Command WorkStation LE

If there is a problem connecting to the Fiery, an error message is displayed.

The problem can occur when:

• The printer is initially turned on

• The printer restarts

• You have changed settings affecting the server address and have not reconfigured the connection to the server

If you see this problem, try the following solutions, in this order:

• A remote workstation running Fiery utilities or Fiery WebTools may be interfering by obtaining status information. If possible, close the remote application, and try to connect again.

• Restart the Command WorkStation or Command WorkStation LE software and try to connect again.

• Check the configuration of the connection and modify it, if necessary, or delete the Efinl.ini file and start over with the process of configuring the connection, as described in Chapter 1 of the *User Software Installation Guide*.

• Restart the Fiery.

For information on other error conditions, see the *Job Management Guide*.

Index