

Xerox DocuColor 4

Administrator Guide

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Preface

Thank you for purchasing the **DocuColor 4**.

This guide is intended for anyone who is responsible for integrating the DocuColor 4 LP/CP into a business environment that includes networked personal computers. After the DocuColor 4 LP/CP and client workstations are set up, as described in the User Guide and the Setup Guide, individual users can print to the DocuColor 4 LP/CP as a high-performance color PostScript printer. Additionally, the DocuColor 4 CP can be used as a copier.

August, 1999

Caution on Copying

Copying certain documents may be illegal in your country.

Penalties of fines or imprisonment may be imposed on those found guilty of this. The following are examples of items that may be illegal to copy in your country.

- Currency
- Banknotes and cheques
- Bank and government bonds and securities
- Passports and identification cards
- Copyright material or trademarks without the consent of the owner
- Postage stamps and other negotiable instruments

This list is not inclusive and no liability is assumed for either its completeness or accuracy. In case of doubt, contact legal counsel.

Certifications

Certifications . . . in Europe

The CE marking that is applied to this product symbolizes Xerox Europe Declaration of Conformity with the following applicable Directives of the European Union as of the dates indicated:

January 1, 1995: - Council Directive 73/23/EEC amended by Council Directive 93/68/EEC, approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: - Council Directive 89/336/EEC, approximation of the laws of the member states related to electromagnetic compatibility.

A full declaration, defining the relevant Directives and references standards, can be obtained from your Xerox Europe representative.

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Changes or modifications to this equipment not specifically approved by Xerox Europe may void the user's authority to operate this equipment.

Shielded cables must be used with this equipment to maintain compliance with the EMC Directive (89/336/EEC).

WARNING

In order to allow this equipment to operate in proximity to Industrial, Scientific and Medical (ISM) equipment, the external radiation from ISM equipment may have to be limited or special mitigation measures taken.

Radio Frequency

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

Changes or modifications to this equipment, not specifically approved by the Xerox Corporation may void the user's authority to operate this equipment.

Shielded cables must be used with this equipment to maintain compliance with FCC regulations.

Energy Star Compliance

Energy Star

Xerox Corporation designed this product to comply with the guidelines of the ENERGY STAR program of the Environmental Protection agency. As an ENERGY STAR Partner, Xerox has determined that this copier model meets the ENERGY STAR guidelines for energy efficiency.

Environmental Choice

Terra Choice Environmental Services, Inc., of Canada has verified that this Xerox product conforms to all applicable Environmental Choice EcoLogo requirements for minimized impact to the environment.

Auto power- off Feature

To save the power consumption, this product has a auto power-off feature which enables the product to automatically enter the power-off mode if the product remains idle for 15 minutes (default setting).

For detailed information, see "About Configuration".

Electrical Safety

Use the power cord supplied with your Xerox printer/copier.

Do not use a ground adaptor plug to connect the printer/copier to a power source receptacle that lacks a ground connection terminal.

Plug the power cable directly into a properly grounded electrical outlet. Do not use an extension cord. If you do not know whether an outlet is grounded, ask an electrician to check the outlet.

WARNING: You may get a severe electrical shock if you do not connect the grounding conductors properly.

- Do not place the printer/copier where people may step on the power cable. Do not place objects on the power cable.
- Do not override or disable electrical or mechanical interlocks.
- Do not obstruct the ventilation openings. These openings are provided to prevent overheating of the printer/copier.

WARNING: Do not push objects into slots and openings on the copier. Making a contact with the voltage point or shorting out a part could result in fire or electrical shock.

If you notice unusual noises or odors, switch off the printer/copier power immediately. Disconnect the power cable from the electrical outlet. Call an authorized Xerox service representative to correct the problem.

If any of the following conditions occur, switch off the printer/copier power immediately, disconnect the power cable, and call an authorized Xerox service representative.

- The power cable is damaged or frayed.
- Liquid is spilled into the printer/copier.
- The printer/copier is exposed to water.
- Any part of the printer/copier is damaged.

Disconnect Device

DocuColor 4 LP (Printer only)

The power cord is the disconnect device for this printer. The power cord is attached to the printer as a plug-in device at the back of the printer. In the event it is necessary to remove all electrical power from the printer, disconnect the power cord from the power receptacle at the back of the printer.

DocuColor 4 CP

The power cord is the disconnect device for this printer/copier. The power cord is attached to the scanner as a plug-in device that services both the printer and scanner. In the event it is necessary to remove all electrical power from the printer/copier, disconnect the power to the scanner.

Laser Safety

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This equipment complies with safety standards. With specific regard to laser safety, the equipment complies with performance standards for laser products set by government agencies as a Class 1 laser product. It does not emit hazardous light; the beam is totally enclosed during all modes of customer operation and maintenance.

When performing various operator functions, you may see laser warning labels. These labels are for the service mode and are placed on or near panels or shields that require a tool for removal. These panels are not permanently removed.

Maintenance Safety

- Do not attempt any maintenance procedure that is not specifically described in the documentation supplied with your printer/copier.
- Do not use aerosol cleaners. The use of supplies that are not approved may cause poor performance and could create a dangerous condition.
- Use the supplies and cleaning materials only as directed in this manual. Keep all of these materials out of the reach of children.
- Do not remove the covers or guards that are fastened with screws. There are no parts that you can maintain or service behind these covers.
- Do not perform any maintenance procedures unless you have been trained to do them by a Xerox representative or a procedure is specifically described in one of the printer/copier manuals.

Operational Safety

Your Xerox printer/copier and supplies were designed and tested to meet strict safety requirements. These include safety agency examination, approval, and compliance with established environmental standards.

Your attention to the following safety guidelines will help ensure the continued safe operation of your printer/copier.

- Use the materials and supplies specifically designed for your printer/copier. The use of unsuitable materials may result in poor performance and possibly a hazardous situation.
- Follow all warnings and instructions marked on, or supplied with, the printer/copier.
- Place the printer/copier in a room that provides adequate space for ventilation and servicing.
- Place the copier printer/copier on a level, solid surface (not on a thick pile carpet).
- Do not place the printer/copier near a heat source.
- Do not place the printer/copier in direct sunlight.
- Do not place the printer/copier in line with the cold air flow from an air conditioning system.
- Do not put containers of coffee or other liquids on the printer/copier.
- Do not block or cover the slots and openings on the printer/copier. Without adequate ventilation, the printer/copier may overheat.
- Do not attempt to override electrical or mechanical interlock devices. Be careful when working in areas identified with this warning symbol. These areas may be very hot and could cause personal injury.



If you need any additional safety information concerning the printer/copier or materials, contact your authorized Xerox dealer.

Ozone Safety

This product will produce ozone during normal operation. The ozone produced is heavier than air and is dependent on copy volume. Providing the correct environmental parameters as specified in the Xerox installation procedures will ensure that the concentration levels meet safe limits.

If you need additional information about ozone, please request the Xerox publication *Ozone* (part number 600E74140) by calling 1-800-828-6571 in the United States and Canada.

Types of Manuals

This manual is part of the set of DocuColor 4 LP/CP documentation that includes the following manuals for users and system administrators:

Setup Guide

This guide contains procedures from unpacking the printer/copier, confirming simple operations, troubleshooting and routine care of the printer/copier.

Administrator Guide (this manual)

This guide explains basic configuration and administration of the DocuColor 4 LP/CP for the supported platforms and network environments. It also includes guidelines for setting up Windows NT[®] and NetWare servers to provide PCL and PostScript[™] printing services to clients.

User Guide

This guide describes how to install software to enable users to print to the DocuColor 4 LP/CP. Specifically, it describes installation of PCL and PostScript[™] printer/copier drivers, printer/copier description files, and other user software provided on the DocuColor 4 LP/CP User Software CD. It also explains how to connect each user to the network, and how to set printing options and print to the DocuColor 4 LP/CP from Windows[®] and Mac OS computers.

Screens Displayed

Actual screens may not be identical to those shown in this manual.

In the following cases, please refer to the associated manual.

- Cannot print.
- An error message is displayed.

Setup Guide

- To add another computer that is to use the printer/copier.
- To print with color adjustments.

User Guide

- To change the network environment.
- To view the settings list or a list of fonts installed.

Administrator Guide

About this Manual

This manual includes guidelines on the following topics:

- Basic configuration of the DocuColor 4 LP/CP to support printing over AppleTalk, TCP/IP, and IPX (Novell) networks
- Setting up a parallel port connection
- Configuring Novell and Windows NT servers to provide DocuColor 4 LP/CP printing services
- Administering network printing
- Using the DocuColor 4 LP/CP in mixed network environments
- Installing the hard disk drive, additional memory, or alternate language EPROM's



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

Conventions

Certain conventions are used to convey special meanings in this manual, as follows:



indicates a particularly important item.



indicates a supplied item.



indicates a referenced item.

Bold is used to show menus or menu items as they are displayed on the control panel of the printer/copier.

Network Administration Features

DocuColor 4 LP/CP software offers several important features that affect you as a network or printer/copier administrator:

- Direct (native) support of NDS with NetWare 4.x
- NetWare 4.x can also be supported in bindery emulation.



NDS is an abbreviation for either Novell Directory Services or NetWare Directory Services. The two names are used interchangeably.

- Simultaneous NetWare 4.x and NetWare 3.12 connections supported
One NetWare 4.x NDS tree and up to eight NetWare 3.12 bindery servers (or NetWare 4.x servers in bindery emulation mode) can be connected to the DocuColor 4 LP/CP.
- Fiery WebTools (Status, WebSpooler, WebDownloader, WebLink, and WebSetup)
Fiery WebTools allow you to manage the DocuColor 4 LP/CP from the Internet or from your company's intranet.
- Job tracking
Job Logs list all jobs sent to the printer.
- Support for PCL and PostScript
PCL, and PostScript are standard with the DocuColor 4 LP/CP. PostScript 3 fonts are also included.



PCL is not available on Mac OS computers.

- Support for Windows (SMB) printing
Windows printing, also known as SMB (Server Message Block) printing, allows you to print on TCP/IP networks using built-in Microsoft networking support and without additional network software. Printing using SMB allows you to print from your computer to a particular connection (Hold, Print, or Direct) on the DocuColor 4 LP/CP.

Before You Begin

Before using the DocuColor 4 LP/CP, follow these general steps:

- ❶ Confirm that the system administrator has completed printer/copier Setup as described in this manual.
- ❷ Find out what printer/copier defaults the administrator specified in Setup.

These default settings can affect the results of your print jobs. Check with your administrator or operator for information on these default settings.

- ❸ Confirm that the user software is installed correctly on your workstation, as described in the *User Guide*.
- ❹ Find out what your access privileges are.
Your system or site administrator may or may not have set a password on the printer/copier. If a password has been set, it will be required to perform job management with WebSpooler or printer/copier setup with WebSetup.

Levels of access and control

The DocuColor 4 LP/CP can be password protected, providing a level of control for printer/copier administrators. The password determines whether a user can modify Setup options, and whether a user has control over print jobs in the WebSpooler queues, or copy jobs from the scanner.

By default there is no printer password. Once an Administrator password has been set, users are required to enter it to access Setup menus or to access the WebSetup screens.

The copier has a factory preset password for the System Administrator of 9999. For security reasons, the System Administrator should change this password as soon as possible. This Administrator password restricts access to copier configuration settings. For more information see section 5 of this guide.

Print connections

If your DocuColor 4LP has a hard disk drive, you can print to the Print Hold queues as well as the Direct connection. If your DocuColor 4LP does not have a hard disk drive, only the Direct connection is available for printing. All docuColor 4 CP products include a hard drive.

Direct connection

Jobs sent to the DocuColor 4 LP/CP Direct connection remain at the sending workstation until the DocuColor 4 LP/CP is ready to print. They are transmitted to the printer and processed as soon as any prior job is finished printing.

Jobs sent to the Direct connection appear in the display of current jobs in WebSpooler, but they cannot be selected for reprinting, moving, or deletion, providing a measure of security for sensitive files. If you plan to download fonts to the DocuColor 4 LP/CP via the network, you must download them to the Direct connection.



You cannot use the Direct connection for lpr printing over TCP/IP. You can, however, use this connection for downloading fonts.

Queues

Print queues (Print queue and Hold queue) are available on the printer/copier. A queue is a storage area on the printer's hard disk that is reserved for print jobs. Queues are particularly useful when many print jobs are being sent to the printer. When a job is printed to the Print queue or the Hold queue, it is stored on the DocuColor 4 LP/CP hard disk rather than the user's hard disk, quickly freeing up the user's workstation.

- **Print queue** - Files sent to the Print queue are spooled to the printer's hard disk drive. The DocuColor 4 LP/CP prints jobs from the Print queue in the order in which they were received.
- **Hold queue** - Files sent to the Hold queue remain on the printer's hard disk drive until they are printed or deleted using WebSpooler. (For more information see the *User Guide*.)
- **Printed queue** - The Printed queue is a job storage area on the DocuColor 4 LP/CP disk; it contains the most recent jobs printed from the Print queue. The Printed queue makes it convenient to reprint those jobs. A Setup option enables this queue and determines the maximum number of jobs retained in it at any given time. Reprinting jobs in this queue requires WebSpooler and an Administrator password, if one has been set.

Password

You can implement a password on the printer/copier as a means of controlling access to DocuColor 4 LP/CP functions. The Change Password option, which enables you to set or change the Administrator password, can be set in the System Setup menus, or it can be set in WebSetup screens. Once set, users must enter the password in order to access the printer's Setup menus, to access WebSetup screens, and to use Administrator controls of WebSpooler.

Also, copier password limits access to the machine. See Section 5 for more detailed information.

Fiery WebTools

Fiery WebTools, software that allows you to remotely manage your printer/copier and print jobs via the Internet or your company's intranet, come pre-installed on the DocuColor 4 LP/CP. Fiery WebTools are supported on Mac OS, Windows 95/98, and Windows NT 4.0 computers. To enable use of Fiery WebTools, you must do the following in Setup:

- Set Enable TCP/IP to Yes.
- Set an IP address for the DocuColor 4 LP/CP.
- Enter a TCP/IP gateway address and subnet mask, if they are used.



The WebDownloader is not available on Mac OS computers.

Control level scenarios

Printer/Copier access and control features are described below. Choose the scenario that best matches your site requirements.



It is recommended that you set an Administrator password to prevent unauthorized changes to system settings.



No designated administrator

All users have access to all printer functions. On the copier, the Administrator password is always enabled.

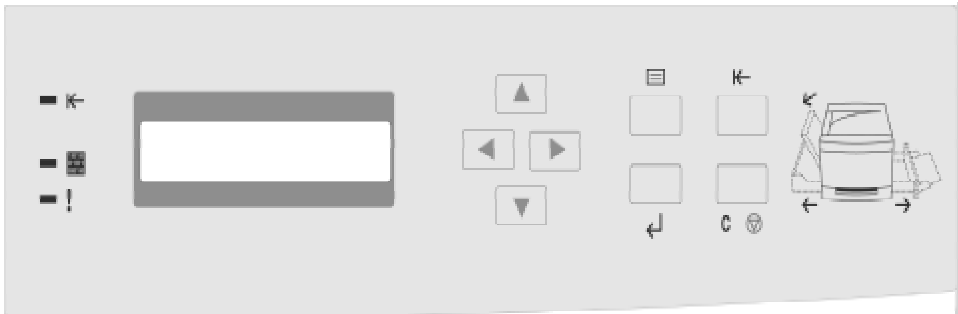


A designated administrator

Only an administrator has access to all system functions, including configuration Setup, clearing the job log and printed queues, formatting the printer's hard disk, performing color calibration, and managing all jobs from remote workstations via WebSpooler.

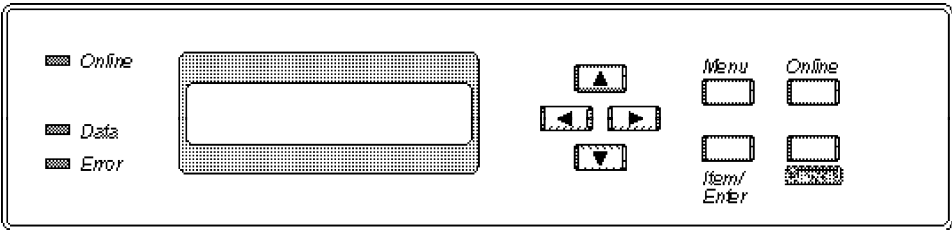
Wordless Printer Control Panel

This section describes the wordless control panel.



Worded Printer Control Panel

The printer worded control panel described throughout the documentation is displayed here.



Activity Lights

The activity lights indicate the status of the printer/copier. They are described in the table below. The table shows the light displayed on the worded control panel as well as the one found on the wordless control panel.









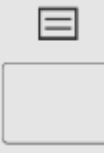



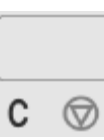



| Wordless Control Panel Light | Worded Control Panel Light | Indicates: |
|------------------------------|----------------------------|---|
| | Online | Online LED - On when the printer is online (ready to accept and process new jobs), and off when the printer is offline or the power is off. |
| | Data | Data LED - Blinking when receiving, processing or printing data and off in Power Save mode, when the printer is offline, or the power is off. |
| | Error | Message LED - On when the printer requires a service call. Blinking when the printer requires operator intervention (e.g., load paper). |

Printer Display Window

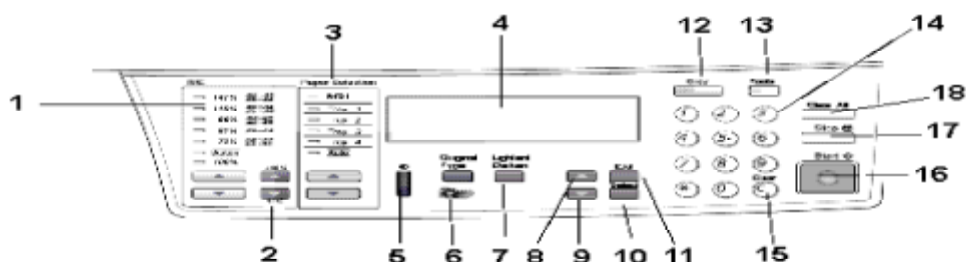
The LCD window on the control panel displays status messages.



Printer Buttons

The buttons and their functions are described here.

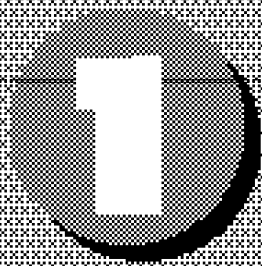
| Wordless Control Panel Button | Worded Control Panel Button | Indicates : |
|---|---|---|
|  |  | Down arrow - In a fixed-length list, takes you to the next item in the list. When entering numbers or text, decrements to the next number or character. Hold down the button to decrement rapidly. |
|  |  | Up arrow - In a fixed-length list, takes you to the previous item in the list. When entering numbers or text, increment to the previous number or character. Hold down the button to increment rapidly. |
|  |  | Right arrow - When entering numbers or text, advances the cursor. |
|  |  | Left arrow - When entering numbers or text, backspaces and deletes |
|  |  | Menu button - From Ready or Power Saver mode, enters the setup menus. In Setup menu, advances from one menu to the next. From a setup menu option, returns to the previous setup menu. |
|  |  | Item/Enter button - Accepts an option and advances to the next choice. When the printer is in Ready mode, pressing takes the printer offline. |
|  |  | Cancel button - In Setup menus, exits menus entirely, returning to Ready. While printing, Cancel stops printing or processing the current job. |
|  |  | Online button - From Ready or Power Saver mode, enters Online (Menu) mode. From Online (Menu) mode, pressing returns to offline. |

Copier control panel



| Name | Description |
|---|---|
| (1) [Reduce/Enlarge] buttons | Use the buttons to select a zoom ratio from the list, or use [Auto] for automatic selection. The selected zoom ratio indicator lights. |
| (2) [Zoom] buttons | Use the buttons to adjust the zoom ratio between 50% and 200% with 1% increments. The selected zoom ratio appears on the display. |
| (3) [Paper Supply] buttons | Use the buttons to select a paper tray. The selected paper tray indicator lights and its size appears on the display. |
| (4) Display | The display indicates the state of various settings as well as the machine. |
| (5) Contrast | Use it to adjust the contrast of the display. |
| (6) [Original Type] button | Use this button to select an image quality of the document. When you press this button, the color mode selection screen appears on the display. |
| (7) [Lighten Darken] button | Use this button to adjust the copy density. When you press this button, the copy density selection screen appears on the display. |
| (8) (previous) button  | Use this button to select the previous item in relation to the current item. |
| (9) (next) button  | Use this button to select the next item in relation to the current item. |

| Name | Description |
|-------------------------|--|
| (10) [Select] button | Use this button to set (confirm) selection of a function. |
| (11) [Exit] button | Use this button to cancel the selected function. Also, in the Tools screen where there are multiple levels of selections, pressing this button moves one level up the hierarchy. |
| (12) [Copy] button | Use this button to switch to the copy mode. |
| (13) [Tools] button | Use this button to confirm or change functions/settings of the machine. When you press this button, the Tools screen appears on the display. |
| (14) Numeric buttons | Use these buttons to enter number of copies or a pass code. Also, use them when you need to enter a number at a function setting. |
| (15) "C" button | Use this button to return the entered number to 1. Also, when you are entering a pass code, pressing this button deletes the last character. |
| (16) [Start] button | Use this button to start copying. |
| (17) [Stop] button | Use this button to stop the copy operation being under way. |
| (18) [Clear All] button | Use this button to reset the machine and return all settings to their default values (that is, when the power is turned on). |



Connecting to the Network

This chapter summarizes the stages in setting up a Xerox DocuColor 4 LP/CP and includes diagrams that refer you to other chapters or other manuals for completing your installation.



The printer/copier on the network

1

The built-in 10BaseT/100BaseT Ethernet interface on the DocuColor 4 LP/CP supports the following network protocols:

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

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

- IPX/SPX (Novell)

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

These protocols (rules that enable computers on a network to communicate with each other) are supported on the Windows and Mac OS, and can run concurrently on the same Ethernet cable. Workstations that use other protocols can print through a server that uses one of the protocols mentioned, or they can print to the DocuColor 4 LP/CP parallel port.

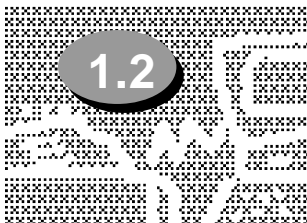
When you add a DocuColor 4 LP/CP to a network, it is assumed that a network administrator will have already installed a network cabling system and connected workstations and servers.

- **Token Ring**

Xerox Corporation provides as an option the Token Ring Card. Token Ring can operate at 4 or 16 Mbps.

The Token Ring is mounted internally and connects to the PCI port on the EFI controller.

Configuring the Token Ring is accomplished using the Control Panel.



Stages of installation on the network

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

1

- **Physically connecting the DocuColor 4 LP/CP to a functioning network**

Prepare a network node for the DocuColor 4 LP/CP- network cable and route it to the location where the DocuColor 4 LP/CP will be installed, and attach the cable to the network interface of the DocuColor 4 LP/CP.



See page 5 for details.

- **Configuring network servers**

When network servers are required, you need to configure those servers to provide client access to the DocuColor 4 LP/CP as a color PostScript or PCL printer/copier.



See Chapter 4 for information on configuring network servers in Windows environments.

- **DocuColor 4 LP/CP Setup**

Configure the DocuColor 4 LP/CP for your particular printing and network environment.



See Chapter 2 for details.

- **Client setup**

Install the files needed for printing, install additional user software, and connect the client to the DocuColor 4 LP/CP over the network. These steps are described in the *User Guide*.

- **System administration**

Monitor and maintain system performance and troubleshoot problems that arise.



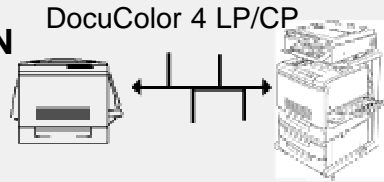
See Chapter 6 and the User Guide for details.

1.2 Stages of installation on the network

1

Summary of DocuColor 4 LP/CP network installation

CONNECTION



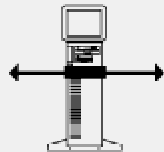
Prepare a network node.
Connect the DocuColor 4 LP/CP to the network.

NETWORK

SERVER

CONFIGURATION

Network Server

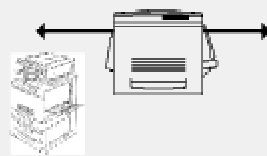


Configure Windows NT and IPX (Novell) servers to specify DocuColor 4 LP/CP print queues and DocuColor 4 LP/CP users. No special configuration or AppleShare server is required.

PRINTER

SETUP

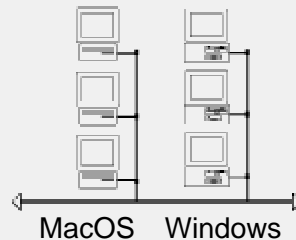
DocuColor 4 LP/CP



From the DocuColor 4 LP/CP control panel, configure System Setup, Printer Setup, Network Setup, PS Setup, and PCL Setup.

CLIENT

SETUP



At each workstation that will print to the DocuColor 4 LP/CP:

Install the appropriate printer/copier drivers and printer/copier description files, and connect to one or more print connections.

For computers that will use the WebTools, install an Internet browser.

Verify the DocuColor 4 LP/CP in the list of printers and run a test print.

DocuColor 4 LP/CP available on the network



Quick path to installation

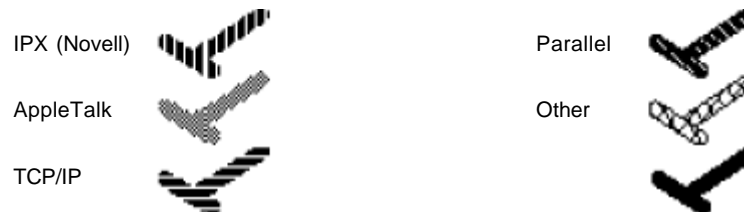
1

The diagrams in the following pages show typical systems that can be used for printing and for using Fiery WebTools. To use the diagrams, find the page with your preferred platform and network type. Then look up the setup procedures in the pages and books referred to in the keys.

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

If the network uses more than one protocol or more than one type of workstation, combine the setups listed for each component of your system. Note that multiple protocols (shown in the diagrams as parallel lines) can run on the same cable. A solid connection from the DocuColor 4 LP/CP 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:



1.3 Quick path to installation

1

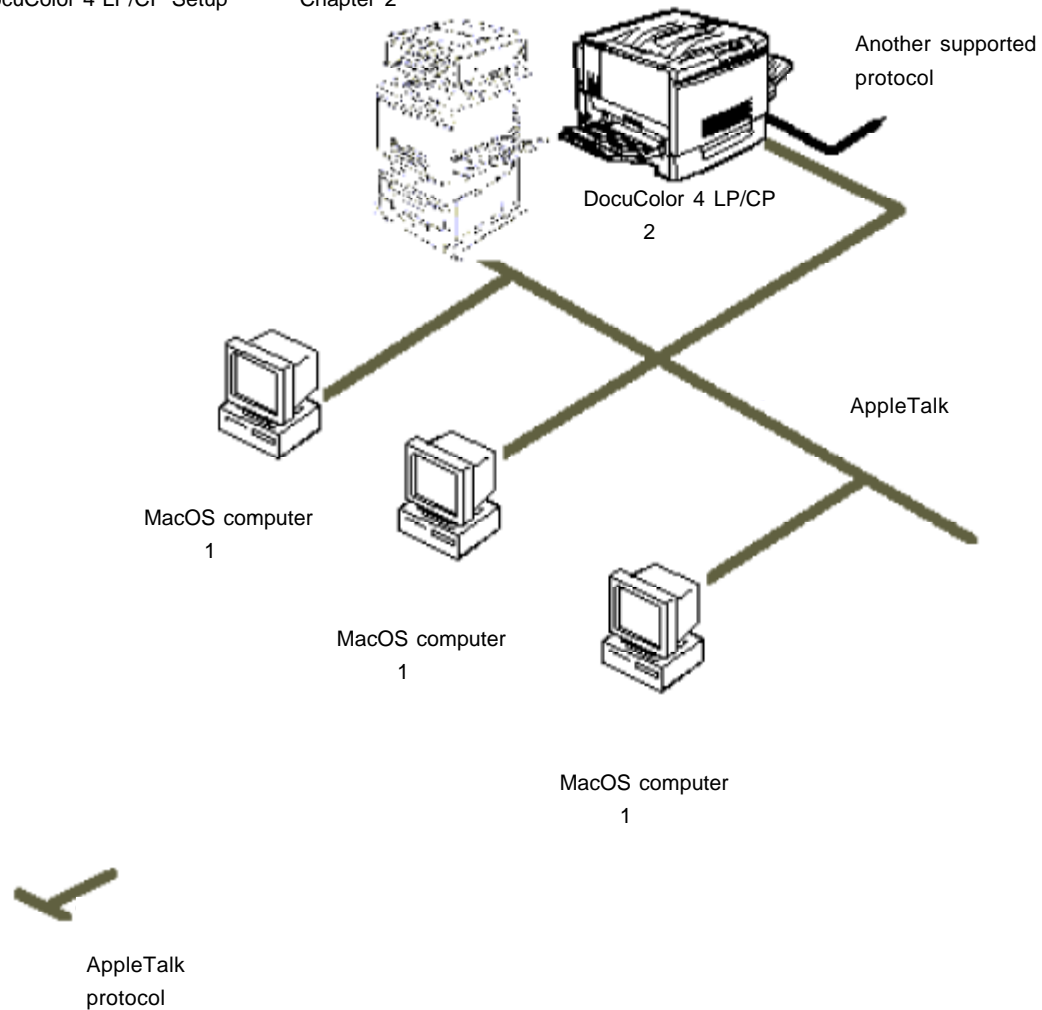
Mac OS environment with AppleTalk

Key to setup:

1 Mac OS computer

2 DocuColor 4 LP/CP Setup

User Guide
Chapter 2



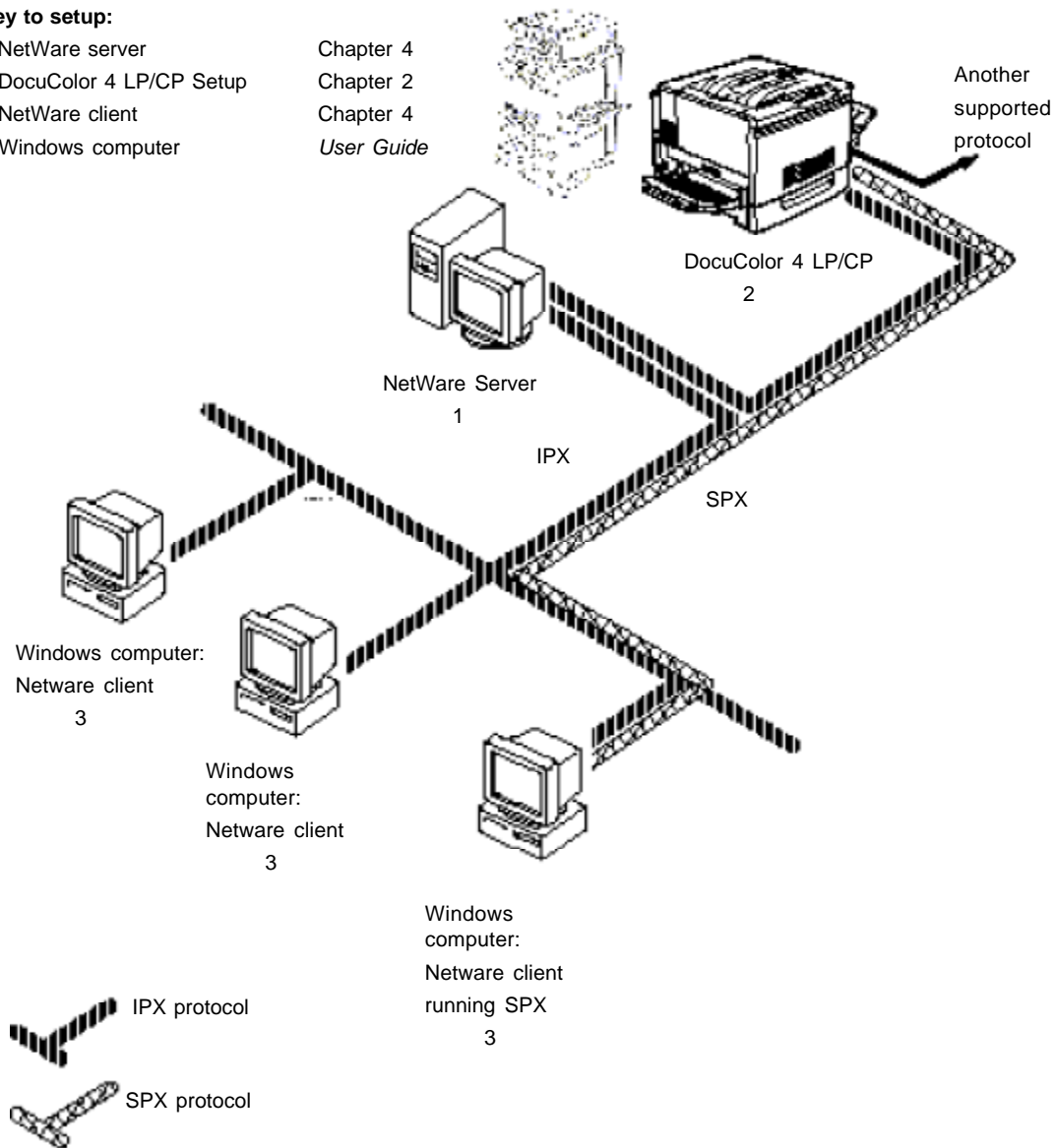
Windows computers in a Novell environment

1

Key to setup:

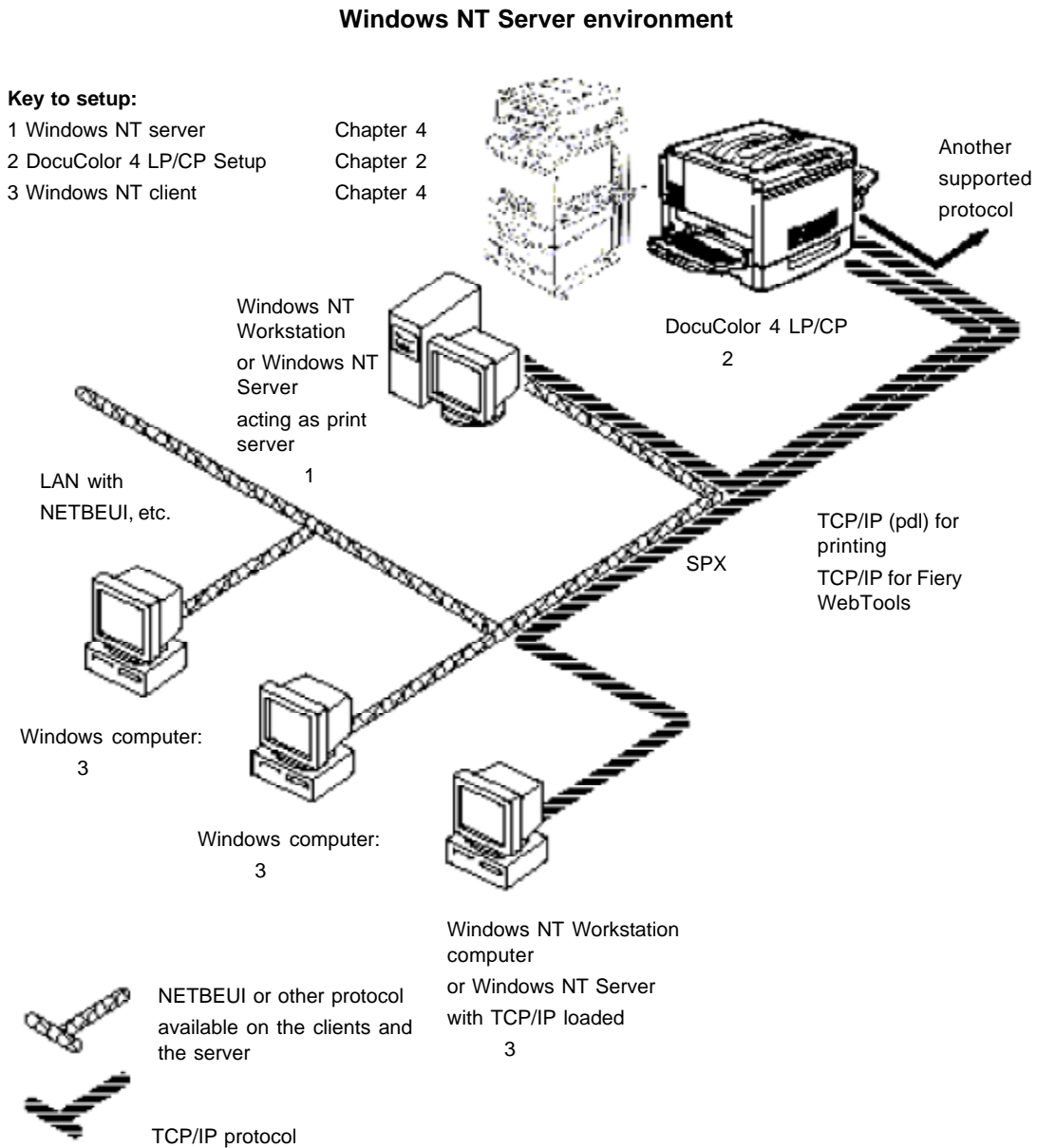
- 1 NetWare server
- 2 DocuColor 4 LP/CP Setup
- 3 NetWare client
- 4 Windows computer

Chapter 4
Chapter 2
Chapter 4
User Guide



1.3 Quick path to installation

1

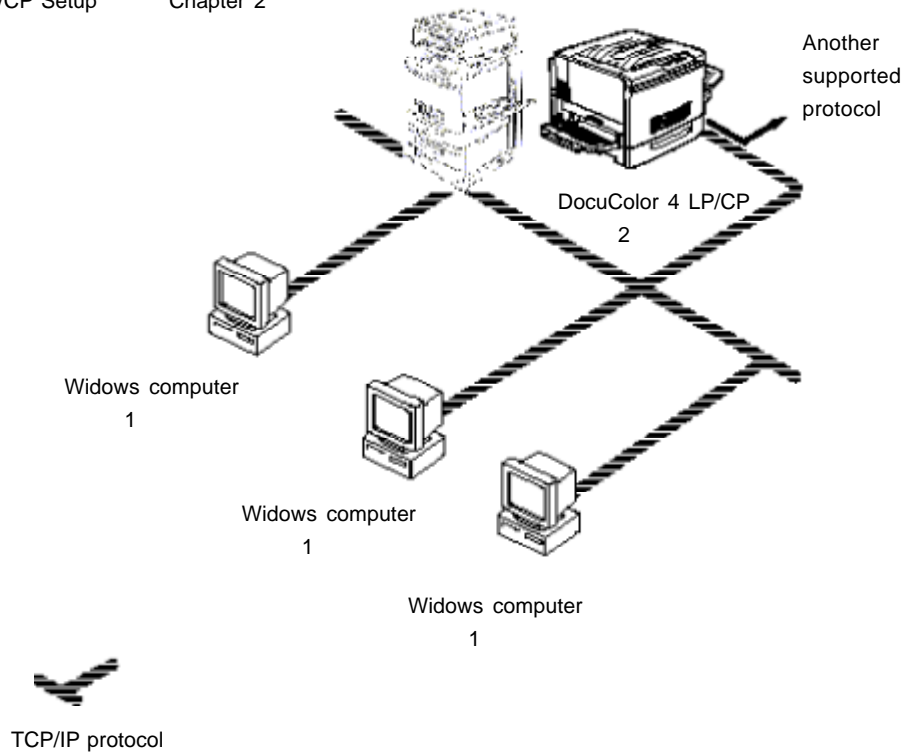


Windows computers using Windows (SMB) printing

1

Key to setup:

- | | |
|---------------------------|-------------------|
| 1 Windows computer | <i>User Guide</i> |
| 2 DocuColor 4 LP/CP Setup | Chapter 2 |



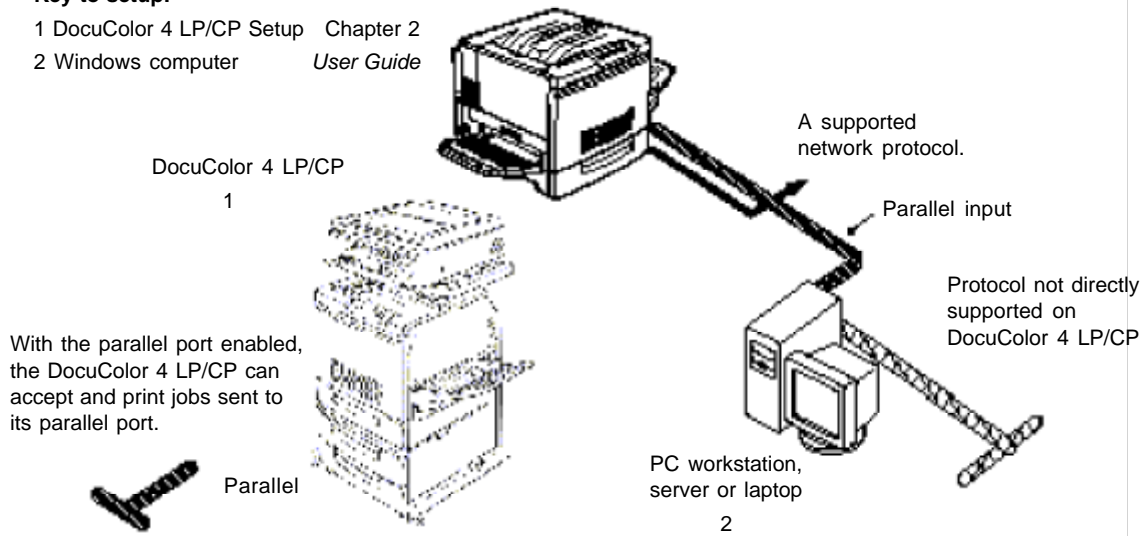
1.3 Quick path to installation

1

DocuColor 4 LP/CP parallel port connection

Key to setup:

- 1 DocuColor 4 LP/CP Setup Chapter 2
- 2 Windows computer User Guide



The rest of this chapter and the next cover installation as performed on the DocuColor 4 LP/CP itself. This chapter describes the physical network connections and summarizes DocuColor 4 LP/CP Setup and other administrative functions available from the control panel.



Parallel cable is an options with DocuColor 4 CP. The Cable can be purchased from Xerox. Request Part # 98 4330.



Before You Proceed

To prepare for DocuColor 4 LP/CP configuration:

The following steps should be completed before you configure the DocuColor 4 LP/CP and the workstations that will print to the it. A service technician will have performed some initial installation.

1

- 1 Print a test page to make sure the DocuColor 4 LP/CP printer/copier is functioning normally.



"Printing information pages" on page 41.

- 2 With the DocuColor 4 LP/CP turned off, connect the network cable to the DocuColor 4 LP/CP, as described in the next section.

The network should already be installed and operational.

- 3 Prepare network servers to share DocuColor 4 LP/CP user software and to enable networked users to print to the DocuColor 4 LP/CP, and proceed to Setup.



Chapters 2, 3 and 4 for details.

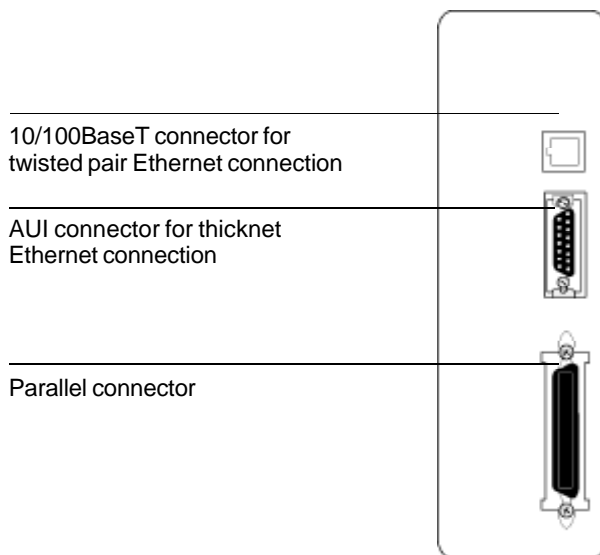
The DocuColor 4 LP/CP supports Ethernet cabling of three types:

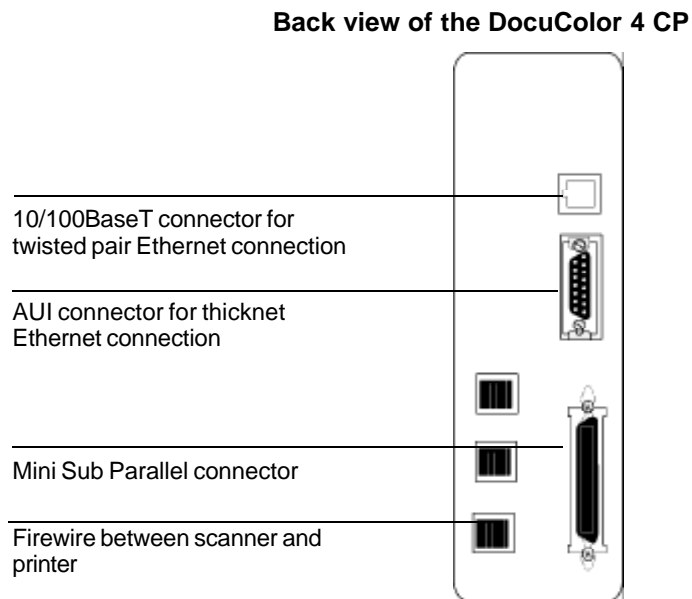
- **Thinnet** (thin coaxial Ethernet cable or 10Base2)
Uses an external transceiver to attach to the AUI (attachment unit interface) connector on the Ethernet interface of the DocuColor 4 CP.
- **Thicknet** (thick coaxial Ethernet cable or 10Base5)
Connects directly to the AUI connector on the Ethernet interface of the DocuColor 4 LP/CP.
- **Unshielded Twisted Pair (UTP)**, defined as Category 5 for use with 100BaseT or defined as Category 3 or Category 5 for use with 10BaseT
Uses an 8-pin RJ-45 connector that plugs into the RJ-45 socket on the DocuColor 4 LP/CP.
Unshielded Twisted Pair is also used for Token Ring.



The 100BaseT type supported by the DocuColor 4 LP/CP is 100BaseTX, also known as Fast Ethernet. If an Ethernet hub is used, it must be a 100BaseTX hub. The term “100BaseT” is used in this manual to refer to 100BaseTX.

Back view of the DocuColor 4 LP





1

Shut down the printer/copier before attaching the DocuColor 4 LP to any network device. Do not attach cables to more than one Ethernet connector; only one Ethernet connection can be made at any one time.

Token Ring Support with DocuColor 4 LP/CP

The DocuColor 4 LP/CP supports Token Ring networks with the optional token ring adapter card;

Token Ring PCI PCBA Part# 45000052

Token Ring supports: AppleTalk, TCP/IP, and IPX networks simultaneously. Fiery WebTools, WebSpooler, and Web Downloader are also accessible from the token ring environment.

Printing types supported: IPX/SPX, SMB, TCP/IP, LPR

All configurations for the above printing methods are the same as 10/100 based networks setup, only IP subnets within their respective segments will change according to the particular LAN configurations.

Token Ring Installation

Be sure machine is turned off and power is unplugged! Also be sure to properly ground yourself, as you will be working with sensitive electrostatic equipment. Facing the front of the machine, pull off the right side panel located near the existing Ethernet port on the rear of the machine. Insert the Token Ring board, in the respective PCI slot. Secure the board with the two screws provided with the card. Close the cover, and boot the system. Go into systems setup, I/O Port Setup, and disable Ethernet, and enable Token Ring. Ethernet must be turned off, and should not run simultaneously with Token Ring. Configure token ring port speed, 4, 16, or auto detect. Proceed with your local LAN configuration setup.

To use thicknet cable:

- ❶ With the DocuColor 4 LP/CP turned off, connect the thicknet cable connector to the AUI connector on the back of the DocuColor 4 LP/CP. Press on the latch to lock the connector.
- ❷ Configure network servers for printing and then proceed to “Setting up the Print Functions”.

To use UTP cable for 100BaseT or 10BaseT:

- ❶ With the DocuColor 4 LP/CP turned off, connect the RJ-45 cable connector to the RJ-45 socket on the back of the DocuColor 4 LP/CP.
- ❷ Configure network servers for printing and then proceed to “Setting up the Print Functions”.



Parallel cable connection

1

In addition to receiving print jobs over Ethernet, the DocuColor 4 LP/CP can accept print jobs from a Windows computer through its high-speed, bi-directional parallel port. This connection is advantageous for portable computers and for workstations that use 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.

*** To use parallel cable:

- 1 With the DocuColor 4 LP/CP and the Windows computer turned off, attach the parallel cable to the parallel port of the DocuColor 4 LP/CP.



The illustration on pages 12 and 13 for the location of the parallel port.

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

- 3 Turn on the computer and the DocuColor 4 LP/CP.

- 4 Proceed to "Setting up the Print Functions".



To print to the parallel port, you need to set up the parallel port connection (see "Parallel Port Setup").



For information on setting up printing to the parallel port, see the User Guide.



Parallel cable is an optional item for DocuColor 4 CP. It is a mini Centronics cable available from Xerox as part number 98S4330.





Performing Setup from the Printer Control Panel

The control panel on the top of the printer enables you to set options and view the status of the printer and print jobs.

This chapter provides information about:

- Using the printer control panel
- Setting up the printer for parallel printing
- Setting up the printer for network printing
- Printing information pages
- What to do if you have difficulty printing

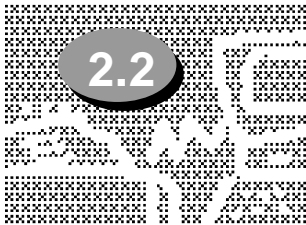
Initial printer setup for network printing must be performed at the printer control panel. When network communication settings have been established, additional Setup options can also be specified from a client computer using WebSetup. WebSetup provides remote access to the printer's setup menu options — System Setup, Network Setup, and Printer Setup — in a graphical user interface.



For information on setting up the printer/copier for WebTool access see the procedures described in the User Guide.

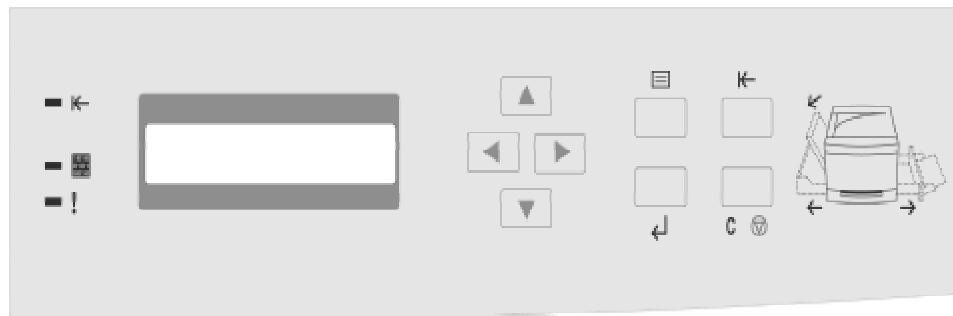
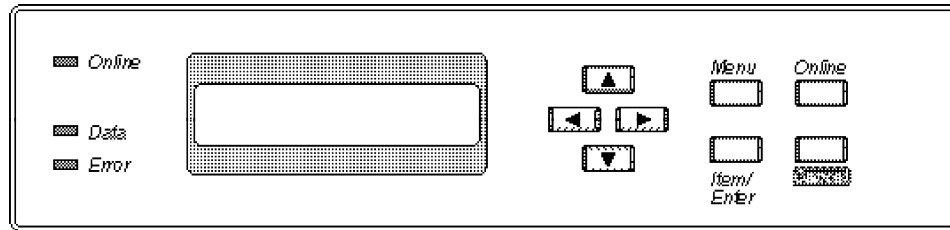


For instructions on how to use WebSetup to configure printer/copier setup options, see Chapter 3.



Using the printer control panel





This section describes the functions of the printer control panel, illustrated below:



2

2.2.1 Activity lights

The activity lights indicate the status of the printer/copier.

| This light: | Indicates: |
|---|---|
|  Online | Online LED — On when the printer/copier is online (ready to accept and process new jobs), and off when the printer/copier is offline or the power is off.  <i>When the printer/copier is offline, you cannot print.</i> |
|  Data | Data LED — Blinking when receiving, processing or printing data and off in Power Save mode, when the printer/copier is offline, or the power is off. |
|  Error | Message LED — On when the printer/copier requires a service call. Blinking when the printer/copier requires operator intervention (e.g., load paper). |

2.2 Using the printer control panel









2.2.2 Display window

The LCD window on the control panel displays status messages.



For more information on the display window, see Chapter 2 of the User Guide.

2.2.3 Buttons

| This button: | Indicates: |
|--|--|
|  | Down arrow — In a fixed-length list, takes you to the next item in the list. When entering numbers or text, decrements to the next number or character. Hold down the button to decrement rapidly. |
|  | Up arrow — In a fixed-length list, takes you to the previous item in the list. When entering numbers or text, increments to the previous number or character. Hold down the button to increment rapidly. |
|  | Right arrow — When entering numbers or text, advances the cursor. |
|  | Left arrow — When entering numbers or text, backspaces and deletes. |
| Menu  | Menu button — From Ready or Power Saver mode, enters the Setup menus. In Setup menus, advances from one menu to the next. From a setup menu option, returns to the previous setup menu. |
|  Menu / Enter | Item/Enter button — Accepts an option and advances to the next choice. When the printer is in Ready mode, takes the printer offline. |
|  Cancel | Cancel button — In Setup menus, exits menus entirely, returning to Ready. While printing, Cancel stops printing or processing the current job. |
| Online  | Online button — From Ready or Power Saver mode, enters Online (Menu) mode. From Online (Menu) mode, returns to Offline. |

This section describes how to set up the printer/copier using the printer control panel. After you set up the printer/copier the first time, you may later need to change setup information. For example, your network may change, or you may decide not to print a start page when you turn on the printer/copier. To change the printer setup at any time, follow the procedures outlined in this section.

To set up the printer/copier, turn on the machine and press the **Menu** button when the message **READY** or **POWER SAVER ON** appears in the display window.

- To advance through the list of Setup menus, press the **Menu** button.
- To view submenus, press the **Item/Enter** button.
- To accept a displayed option, press the **Item/Enter** button.



Before you change the setup, it's a good idea to print the current Configuration page, in case you need to restore the original settings later. For information on printing a Configuration page and other pages, see "Printing information pages" on page 42.

2.3.1 Top-level menus

When the printer/copier is not processing or printing a job, the control panel displays **READY** or **POWER SAVER MODE**. To view the top-level menu choices, press the **Menu** button. When you do so, you will cycle through these choices.

| At this screen: | Press Item/Enter: |
|-----------------------|---|
| CHECK AND PRINT | After you check one copy, prints remaining copies or processed jobs stored on the printer/copier disk. For details, see the <i>User Guide</i> . |
| PRINT PAGES FROM LIST | Displays the printer's resident pages. |

| At this screen: | Press Item/Enter: |
|--|---|
| RESETS | <ul style="list-style-type: none"> • With CLEAR LOG/QUEUES displayed, clears the Job Log and all print queues. • With FORMAT DISK displayed, formats the hard disk. • With RESET COLOR displayed, resets printer's color calibration to factory settings. • With RESTORE DEFAULTS displayed, returns all modifiable settings to their defaults. • With RESTART PRINTER displayed, reboots (restarts) the printer/copier. |
| SYSTEM SETUP ^{to} NETWORK SERVICES SETUP | The Setup menus enable you to specify information about the printer/copier and to set a password to limit access to printer Setup menus. (For more information, see “ <i>Main Printer Setup menus</i> ” below.) |
| VISUALCAL | Allows you to calibrate the printer's color production. For information on VisualCal color calibration see the <i>User Guide</i> . |
| COLOR ADJUSTMENT | Allows you to adjust the density and brightness of Dry Ink. For information on Color Adjustment see the <i>User Guide</i> . |
| PANEL LANGUAGE | Allows you to select a language for control panel pages and Fiery WebTools. See Section A.6 of Setup Guide. |

2.3.2 Main Printer Setup Menus

The following table lists the main Setup menus and their functions (for a complete list of top-level menus, see *page 22*).

I/O PORT SETUP, NETWORK PROTOCOL SETUP, and NETWORK SERVICES SETUP appear only for networked printers.

| Choose: | To specify: | See: |
|--------------|---|----------------|
| SYSTEM SETUP | System settings for the printer/copier; set or change the administrator password used to limit access to the Setup menus. | <i>page 24</i> |

2.3 Setting up the printer/copier

2

| Choose: | To specify: | See: |
|------------------------|--|----------------|
| PRINTER SETUP | Printer settings | <i>page 26</i> |
| PS SETUP | PostScript settings for the printer/ copier. | <i>page 27</i> |
| PCL SETUP | PCL settings for the printer/copier | <i>page 28</i> |
| I/O PORT SETUP | Settings for the network and/or parallel connections to the printer/ copier | <i>page 30</i> |
| NETWORK PROTOCOL SETUP | Settings for the network protocols | <i>page 32</i> |
| NETWORK SERVICES SETUP | Settings for the printing services | <i>page 35</i> |

2.3.3 System Setup

This section describes first-time setup if no password has been set.

SYSTEM SETUP

To advance to the PRINTER NAME screen, press **Item/Enter**.

PRINTER NAME

[DEFAULT PRINTER NAME]

Use this option to give the printer/copier a name. The printer/copier name can be up to 16 characters.

PRINT START PAGE

YES/NO [NO]

Use this option to specify whether the printer/copier should print a start page when it restarts to verify that it is working properly. The Start page contains such information as: printer name, enabled network protocols, amount of memory installed, and options installed on the printer/copier.

PUBLISH PRINTD Q

YES/NO [YES]

Use this option to enable recently printed jobs to be stored on the printer. The Printed queue makes it convenient to reprint those jobs.

JOBS TO SAVE

1-99 [10]

This option appears only if **PUBLISH PRINTED Q** is set to **YES**. Use this option to specify the number of jobs to be stored in the Printed Queue.

POWER SAVER (M)

30 MIN/60 MIN/120 MIN/180 MIN[30 MIN]

Use this option to select the length of time during which there is no printer/copier activity before the DocuColor 4 LP/CP/CP/CP switches to Power Saver mode. Full power mode is automatically restored when the printer/copier receives a network print job or any button on the printer or printer or copier control panel is pressed. Also refer to the copier password. Note that the scanner has its own power saver setting that is independent of the printer.



The copier and printer have separate energy saver selections. Refer to sections 5.2 to set copier power saver.

CHANGE PASSWORD

YES/NO [NO]

Use this option to set or change the administrator password for the printer/copier. In most cases, only the system administrator should have access to this password.

When you select **YES** in the **CHANGE PASSWORD** screen, you are prompted to enter the new password. Also refer to the copier password. Note that the scanner has its own Administrator password independent of the printer.

NEW PASSWORD

To enter a new password use the up arrow button to scroll through characters and the right arrow button to move from left to right, from character to character. To delete a character, use the left arrow button. The password can be any combination of letters and numbers up to 16 characters. When you are finished, press the **Item/Enter** button. Also refer to the copier password. Note that the scanner has its own Administrator password independent of the printer.

2.3 Setting up the printer/copier

2

VERIFY PASSWORD

To verify a new or existing password, you must enter the password again. If you make a mistake, you will be prompted to enter the password again. Note that the scanner has its own Administrator password independent of the printer.



The Copier and Printer have separate passwords. Refer to section 5.4 and 5.5 to set the copier password for user and system administrator.

2.3.4 Printer Setup

The Printer Setup options set the printer's page description language (PDL), paper size, and specify the ability to print under low Dry Ink conditions.

PRINTER SETUP

To advance to the PAGE DESC LANG screen, press **Item/Enter**.

PAGE DESC LANG

PS/PCL/AUTO [AUTO]

Use this option to select a default page description language for your printer. If you select **AUTO**, the printer will automatically detect and interpret the page description language used by the file.

DEFAULT PAPER

LETTER/A4 [A4]

Use this option to specify the default paper size to print on. Information pages from the **PRINT PAGES FROM LIST** menu (Menu Help, Configuration page, Test Pattern, PS or PCL Font list, Job Log and Test page) are printed on the default paper size set here.

DRY INK LOW

CONTINUE/STOP [CONTINUE]

Use this option to specify the behavior of the printer/copier when Dry Ink in a cartridge is low. Select **CONTINUE** to print even when Dry Ink is low; select **STOP** to stop printing when the Dry Ink is low. If Stop is selected and a print job is sent while Dry Ink is low, the printer/copier error light flashed. When the Dry Ink has been replaced, the job is printed.



Replace Dry Ink soon after the Dry Ink Low/Replace [Dry Ink color] message appears.

2.3.5 PostScript Setup

The PostScript setup menus enable you to set PostScript printing options.

PS SETUP

To proceed, press **Item/Enter**.

PRINT TO PS ERR

YES/NO [NO]

Use this option to specify whether to print the portion of a print job processed before a PostScript error is encountered. Select **YES** to print the portion of the job that was processed and a description of the PostScript error, which may help you troubleshoot the error; select **NO** to cancel printing when a PostScript error is encountered.

COVER PAGE

YES/NO [NO]

Use this option to specify whether a Cover (job summary) page will be printed at the end of each print job. Select **YES** to print a page with the name of the user who sent the job, the document name, the number of pages printed, and the status of the job.

If a PostScript error occurred and **PRINT TO PS ERR** is set to **YES**, the error message will be printed on the Cover page, along with the job status.

2.3.6 PCL Setup

The PCL Setup menus enable you to set PCL printing options on PCL jobs sent to the printer without formatting instructions.



PCL is available only when printing from Windows computers.

PCL SETUP

To proceed, press **Item/Enter**.



The PCL Setup options in this section apply to unformatted ASCII text files.

DEF ORIENTATION

LANDSCAPE/PORTRAIT [PORTRAIT]

Use this option to specify the default orientation of the print job on the paper. Select **PORTRAIT** to print text across the short dimension on a Portrait orientation page; **LANDSCAPE** to print text across the long dimension on a Landscape page.

FORM LENGTH

5-128 [60 LINES]

Use this option to specify the number of lines of text per page to print.



Form length varies according to the orientation of the paper.

The next setting and the remaining settings in this section apply to ASCII text files on a per job basis.

FONT NUMBER

0-45 [0]

Use this option to specify which PCL font to print. For a complete list of available PCL fonts and their corresponding font numbers see *Appendix B of the User Guide*.

PITCH (CHAR/IN)

0.44-99.99 [10.00]

Use this option to specify the pitch, or number of fixed-space, PCL characters per horizontal inch to print.

FONT SIZE (PT)

4.0-999.75 [12.00]

Use this option to specify the point size of the font to print.

SYMBOL SET

ISO-4, ISO-6, ISO-11, ISO-15, ISO-17, ISO-21, ISO-60, ISO-69, PC-8, WIN 3.0, ROMAN-8, WIN-L1, WIN-L2, WIN-L5, DESKTOP, PS TEXT, PC-8TK, PC 852, PC 850, PC-8DN, ISO L1, ISO L2, ISO L5, LEGAL [PC-8]

Use this option to specify the PCL Symbol set to print.

A symbol set is a specific set of symbols provided by a font. In general, each set is designed with a unique application in mind. The PC-8 symbol set, for example, was designed to support US IBM PC applications.



VisualCal color calibration and Color Adjustment screens, which appear next in the sequence of screens, are described in the User Guide.

2.4.1 I/O Port Setup

The I/O Port Setup menus allow you to specify and set up the printer port type, including Ethernet or parallel port.

I/O PORT
SETUP

To advance to the next screen, press **Item/Enter**.

2.4.2 Ethernet

ETHERNET
OFF/ON [ON]

Select ON to enable Ethernet network communication.

ETHERNET SPEED
AUTO DETECT/10 TWISTED PAIR/100 [AUTO DETECT]

Select AUTO DETECT to automatically detect the speed at which data can be transferred over the Ethernet network, or optionally specify the speed and cabling of your Ethernet network.

2.4.3 Parallel Port Setup

In addition to receiving print jobs over Ethernet, the printer can receive print jobs from a computer through the high speed parallel port.

PARALLEL PORT
OFF/ON [ON]

Use this option to enable printing through the parallel port.

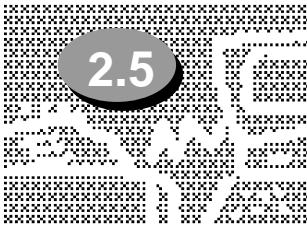
I/O TIMEOUT
0-300 SECONDS [30 SECONDS]

If parallel port is set to ON, use this option to specify how long the printer waits without receiving data from the parallel port before deciding that the current job is complete. During the timeout, the printer cannot receive new jobs through the parallel port, but it continues to receive network print jobs.

IGNORE EOF
YES/NO [YES]

If PARALLEL PORT is set to ON, use this option to specify that the printer/copier should ignore end-of-file (EOF) messages in a file. To print PostScript files in binary format (not ASCII), this option must be set to YES. When this option is set to YES, the printer uses the value you entered for the parallel port timeout to determine when it has reached the end of the file.

2



Specifying network protocol options

2.5.1 Network Protocol Setup

Network Protocol Setup options are used to specify and setup TCP/IP Ethernet, AppleTalk, and IPX (Novell) network protocols.

NETWORK PROTOCOL SETUP

Press **Item/Enter** to proceed.

TCP/IP Ethernet (DocuColor 4 CP only function)

Enable Auto IP - Yes/No - AUTOIP is the module that handles automatic TCP/IP configuration for the system

Enable DHCP - Yes/No

Enable BootP - Yes/No

Enable Rarp - Yes/No

AUTOIP

AUTOIP is the module that handles automatic TCP/IP configuration for the system. It uses a set of standard discovery protocol - RARP, BOOTP and DHCP.

RARP

RARP, reverse address resolution protocol, is specified in RFC 903. It is an ancient protocol for a client to query for its IP address. The RARP server maintains a database of each client's IP address and its hardware address. When the client boots up, it sends the RARP server its hardware address, and the server returns the client's IP address in the reply.

RARP protocol only works for clients on the same segment as the RARP server. (Very few machines use this protocol)

BOOTP

Given the little information RARP provides, a new protocol, BOOTP, specified in RFC 1542, was designed to allow clients to query for more information. In addition to the IP address, a client may request additional information through the use of BOOTP options (RFC 2132). The administrator sets up a database on the BOOTP server so that the server can return the requested information along with the IP address of the client.

Option may be unanswered if the server doesn't have the information in its database. With the help of BOOTP relay agents, BOOTP can work across segments. The client just talks to the agent on its segment and the agent will be the relay to the actual BOOTP server.

DHCP

DHCP, or dynamic host configuration protocol (specified in RFC 2131), is an extension to BOOTP that allows dynamic allocation of IP addresses. Unlike BOOTP or RARP where clients get the IP address once and for all, DHCP assigns "leases" to the assigned IP addresses. The client is required to renew its lease with the server in order to keep its address. If a lease expires, the DHCP server reclaims the address and is free to assign it to another client. Other than this, DHCP works the same way as BOOTP. They share the same packet structure and options. DHCP can also work across segments by using DHCP relay agent, which is really just a BOOTP relay agent. DHCP is widely used by Windows machines.

TCP/IP Setup

TCP/IP-ETHERNET

YES/ NO [NO]

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



For more information on setting up TCP/IP printing using Ethernet, see Chapter 4.



The following options are displayed only if TCP/IP-Ethernet is set to YES.

ETH. IP ADDRESS

[127.000.000.001]

Use the arrow buttons to assign the printer/copier an Ethernet IP address. Press **Item/Enter** to accept your selection.

ETH. SUBNET MASK

[255.255.255.000]

This option lets you modify the subnet mask for printing with TCP/IP over Ethernet. The subnet mask is set to 255.255.255.000 by default. If you set the IP address and you need to set the subnet mask, enter one of the following values:

- 255.000.000.000 if the IP address starts with a number less than 128
- 255.255.000.000 if the IP address starts with a number from 128 through 191
- 255.255.255.000 if the IP address starts with a number greater than 191



On the LCD and in the descriptive text, the terms IPX, IPX (Novell), and NetWare are used somewhat interchangeably. In fact, IPX refers to the network protocol, NetWare to the network operating system software that uses IPX protocols; Novell has created and trademarked this network operating system.



For more information on setting up Novell printing see “Setting up the DocuColor 4 LP/CP on an IPX network”.

Novell Frame Types

The next screens enable you to select the Ethernet frame type used for communication between your NetWare file server (or NetWare file servers if you connect to more than one) and the printer.

SELECT NOVELL
FRAME TYPES

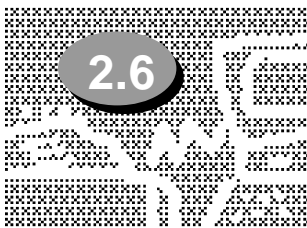
Press **Item/Enter** to advance to the Novell frame type screens.

ETHERNET 802.3
YES/NO [NO]
Select YES to enable Ethernet 802.3

ETHERNET 802.2
YES/NO [NO]
Select YES to enable Ethernet 802.2.

ETHERNET II
YES/NO [NO]
Select YES to enable Ethernet II.

ETHERNET SNAP
YES/NO [NO]
Select YES to enable Ethernet SNAP.



2.6

Network Services Setup

The Network Services Setup menus allow you to establish network services for your printer.

NETWORK SERVICES SETUP

To advance to the ENABLE PSERVER screen, press **Item/Enter**.

ENABLE PSERVER

YES/NO [NO]

This screen does not appear if Novell is not enabled.

Select **YES** if you have a Novell network connected to the printer and if you have already configured a NetWare printer, a print server, and one or more print queue objects for print jobs. Pserver allows you to enter the names of the Novell objects that are concerned with printing to the DocuColor 4 LP/CP.

Pserver is a program on the printer that services all the Novell print queues that are assigned to this printer. If you select **YES** to enable Pserver, you can proceed to configure NetWare Directory Services (NDS) and/or Bindery services.

2

2.6.1 NDS Setup

ENABLE NDS

YES/NO [NO]

NetWare Directory Services (NDS) is used with Netware 4.x. Select **YES** to enable NDS.



The following screen appears only if NDS is enabled.

CHANGE SETTINGS?

YES/NO [NO]

Select **YES** to specify or change NDS settings.

NDS TREE

Use the up and down arrows to select a tree from the NDS tree list and press **Item/Enter**. If you select a tree for which earlier NDS settings exist, the following alert screen appears:

NEW TREE DELETES BINDERY SETUP

This alert message warns you that your previous Bindery settings if any will be deleted.

DEL BIND SETUP? YES/NO [NO]

Select **YES** if you wish to delete Bindery settings.

LOGIN TO BROWSE? YES/NO [NO]

Select **YES** if a login is required to browse the NDS tree. Navigation trees enable you to find the login object for the file server on the NDS tree you wish to log in to. Select **NO** if a login is not required for browsing.

FIND LOGIN OBJECT

If you selected **YES** in the previous screen, you may start to browse. Press **Item/Enter**.

[CURRENT PATH]

Use the up and down arrows to scroll through options. To display objects below the level of the selected object, press **Item/Enter**.

The current path of the previously selected object appears in the top line of the LCD display. The first item in the scrollable Object list appears in the second line. Use the arrow buttons to browse the NDS objects listed in the display.

The "." option moves you up one level on the tree; pressing **Item/Enter** puts the previous second line object on the top line and displays the next lower level object on the tree on the second line. When you see the login object in the second line, press **Item/Enter**. From any screen, press **Item/Enter** to accept an object, or **Menu** to escape.

LOGIN OBJECT

Use the up and down arrow buttons to select a login name and press **Item/Enter**.

ENTER PASSWORD

Use the arrow buttons to enter the password. Press **Item/Enter** to accept the password.

BROWSE TREE TO PRINT SERVER

To begin navigating to the Print Server, press **Item/Enter**.

[NDS TREE NAME]

The NDS tree name appears in the top line of the LCD display. The first item at a level below the tree name appears in the second line. Use the arrow buttons to browse the NDS objects listed in the display. Press **Item/Enter** to accept an object.

[CURRENT PATH]

The current path of the previously selected object appears in the top line of the LCD display. The first item in the list of objects at the next level down appears in the second line. Use the arrow buttons to browse the NDS objects listed in the display.

After choosing an object, press **Item/Enter** to display the next lower level objects. Choose ‘..’ and press **Item/Enter** to go up the tree. When you see the name of the print server, press **Item/Enter** and PRINT SERVER will appear in the first line indicating that the listed entry has been chosen.

PRINT SERVER

Use the up and down arrow buttons to scroll through the list of available print servers. After selecting a server, press **Item/Enter**. If the print server login requires a password, the ENTER PASSWORD screen appears. If a password is not required, the PRINT Q SEARCH screen appears.

ENTER PASSWORD

Use the arrow buttons to enter the password. Press **Item/Enter** to accept the password.

PRINT Q SEARCH

ENTIRE NDS TREE/SUBTREE [ENTIRE NDS TREE]

Press **Item/Enter** if you want the printer to search the entire NDS tree for the print queue object. Use the arrow buttons to designate a subtree object. The printer will search for queues below this object. Press **Item/Enter**.

BROWSE TO PRINT Q SUBTREE ROOT

This message is displayed if you selected **SUBTREE** in the previous screen. To advance to the NDS browse screens, and browse to the print queue root, press **Item/Enter**.

Navigate the NDS objects as before. Press **Item/Enter** to display objects below the level of the selected object in the previous screen's second line.

When you see the print queue subtree object in the second line, press **Item/Enter**. In the next screen, scroll to display "." in the second line and press **Item/Enter** to end your search.

PRINT Q ROOT

The selected object is displayed. Press **Item/Enter** to accept.

2.6.2 Bindery Setup

The following screens are used for Bindery setup. Be sure that the printer is connected to the network and that you have already configured one or more Netware 3.x file servers with a print server and a print queue for print jobs. Note that you can also configure Netware 4.x servers to run in Bindery emulation mode, but you cannot add a 4.x server running in emulation mode that is on the tree you selected in NDS Setup.



For more information on setting up printing using Novell NetWare, see "onfiguring a NetWare server for printing".

The NetWare server must be running. You need a login name, and a password, if one has been set.

ENABLE BINDERY YES/NO [YES]

Use this option to enable bindery emulation services.

BINDERY SETTINGS

VIEW/CHANGE/SKIP/REMOVE FSERVER [VIEW]

Use the up and down arrow buttons to scroll through menu options. Select **VIEW** to display a list of Novell file servers already connected to the printer. Select **CHANGE** to display a list of all available servers in order to add one or change the print server setting. Select **REMOVE FSERVER** to display a list of connected servers that you can disconnect. Select **SKIP** to skip bindery options and advance to the **POLLING INT** screen.

CONNECTED SERVRS

After you choose **VIEW** in the **BINDERY SETTINGS** screen, use the up and down arrow buttons to view the list of connected servers. Press **Item/Enter** to skip the remaining bindery options and proceed to the **POLL INT** screen.

REMOVE FSERVER

After you choose **REMOVE FSERVER** in the **BINDERY SETTINGS** screen, use the up and down arrow buttons to scroll through the connected servers. After selecting a server to remove, press **Item/Enter**. The **POLL INT** screen is displayed next.

AVAILABLE SERVERS

After you choose **CHANGE** in the **BINDERY SETTINGS** screen, use the up and down arrow buttons to scroll through a list of all available servers. After selecting a server to add or modify, press **Item/Enter**. If a password is required to login to the server, the **FILE SERV R LOGIN** screen is displayed.

FILE SERV R LOGIN

SUPERVISOR

Use the up and down arrow buttons to scroll through options: **SUPERVISOR**, **ADMINISTRATOR**, or **ENTER LOGIN NAME**. Press **Item/Enter** to accept an option.

ENTER LOGIN NAME

[GUEST]

This screen is displayed only if **ENTER LOGIN NAME** is selected as file server login. Use the arrow buttons to enter the login name. Press **Item/Enter** to accept the password.

SERVER PASSWORD

Use the arrow buttons to enter the password.

PRINT SERVER**[LIST]**

Use the up and down arrow buttons to scroll through the list of print servers defined for the selected file server. After selecting a print server, press **Item/Enter**. If a password is required to log in, the **PSERVER PASSWORD** screen is displayed.

PSERVER PASSWORD

Use the arrow buttons to enter the password. Press **Item/Enter** to accept the password. If fewer than eight file servers are connected, the **ANOTHER FS?** screen is displayed. If the maximum number of file servers are connected, the **POLL INT (SEC)** screen is displayed.

ANOTHER FS?**YES/NO [YES]**

Select **YES** to redisplay a list of available servers you may connect to. Select **NO** to stop adding file servers and display the **POLLING INT** screen. You can connect the printer to a maximum of eight Novell files servers at once.

Polling interval**POLL INT (SEC)****1-999 [15]**

Use the up and down arrow buttons to specify the interval, in seconds, at which the printer communicates with the Novell server.



If you select a short interval, the amount of network traffic increases; this may slow down other network jobs.

2.6.3 SMB Setup

Server Message Block (SMB) is a point-to-point file sharing and printing protocol, and the default printing method of most Windows applications. SMB runs on top of TCP/IP and does not require IPX. When file and printer sharing for Microsoft clients is enabled, SMB can be run on Windows 95/98 and Windows NT.



For information on setting up SMB printing from your computer, see the User Guide.

ENABLE SMB

YES/NO [NO]

Use this option to enable network communication using SMB.

USE NAME SERVER

YES/NO [NO]

Select **YES** to designate a specific WINS (Windows Internet Name Server) server as an SMB server. You will then be prompted to enter this server's IP address.

NAME SERVER IP

[127.000.000.001]

Use the arrow buttons to enter the IP address of the WINS server you wish to use.

SERVER NAME

Use the arrow buttons to enter a name for the printer (SMB server).

SERVER COMMENT

Use the arrow buttons to enter a comment about the printer (SMB server). This name will identify the printer in the Windows Network Neighborhood. For example, "Production use only." Once set, this comment will appear in the second line of the LCD when the **SERVER COMMENT** screen is displayed. When the printer is selected on a client machine, the server comment will appear under the Details section of the Server information window.


DOMAIN NAME

Enter the workgroup or domain you want the DocuColor 4 LP/CP to appear in. Lowercase letters are not allowed.



Use the arrow buttons to enter the domain name or workgroup of the printer (SMB server).

There are several pages that reside in the printer's ROM that you can print from the control panel. This section contains instructions for printing these pages.

| Page: | Description: |
|--------------------------|--|
| PRINT CONFIGURATION PAGE | A page that gives the current device configuration and lists the selected options for all Setup menus |
| PRINT TEST PATTEN | A page that includes a test pattern used for engine diagnostic purposes. |
| JOB LOG | <p>A list of the most recently printed jobs. For information about using the WebSpooler to view and manipulate jobs in the Job Log, see the <i>User Guide</i>.</p> <p> <i>The Job Log is available only on printers with a hard disk drive.</i></p> |
| PCL FONT LIST | A list of PCL fonts resident on the printer |
| MENU HELP | A one-page overview of the control panel, its components, and how they work, including a list of top-level menus and a brief explanation of each menu |
| PS FONT LIST | A list of PostScript fonts resident on the printer |
| TEST PAGE | <p>A Test page that enables you to confirm that the printer is properly connected.</p> <p>This page includes samples of color so you can troubleshoot printing problems as well as such information as: printer name, enabled network protocols and amount of memory.</p> |

You can print an information page before you set up the DocuColor 4 LP/CP or at other times from the **READY** or the **POWER SAVE ON** screen.

◀◀◀ To print an information page:

- ❶ Turn on the machine and allow it to warm up.
Messages appear on the control panel as the DocuColor 4 LP/CP runs through its power-up tests.
- ❷ From the **READY** screen, press the **Menu** button on the printer control panel until the message **PRINT PAGES** is displayed.
- ❸ Press the **Item/Enter** button to display the name of the first information page.
- ❹ Press the up and down arrow buttons until you see the page you would like to print, and then press **Item/Enter**.
The DocuColor 4 LP/CP prints your selection.

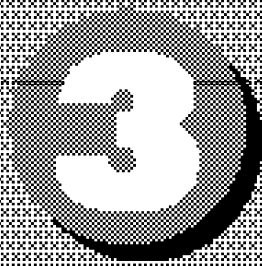


2.8

If you have difficulty printing

If you have difficulty printing, check the printer status, use the table below to try and resolve the problem, and try printing again.

| | | |
|---|--|--|
| None of the control panel lights are on, and nothing appears in the LCD. | The power switch has not been turned on. | Check the power switch. For more information, see the <i>Setup Guide</i> . |
| | The power cord is not securely attached. | Check the power cord. For more information, see the <i>Setup Guide</i> . |
| | There is no power to the electrical outlet itself. | Check and see if the outlet is turned on. |
| The data light neither blinks nor stays on constantly (it stays off) when a print job is sent over the network or the parallel connection, or a copy job is sent from a DocuColor 4 CP. | The interface cable is not connected properly. | Make sure the network or parallel cable connector is properly attached. For more information, see the <i>Setup Guide</i> . |
| | Either the printer driver is not installed, or the computer has not been correctly set up. | Check the settings on the host computer. For more information, see the <i>Setup Guide</i> . |

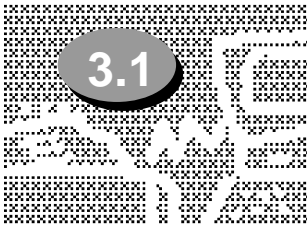


Performing Setup from WebSetup

Fiery WebSetup provides remote access to the printer's Setup menu options. You can use Fiery WebSetup to remotely view and modify the current configuration of your printer/copier. Almost all of the options in System Setup, Network Setup, and Printer Setup can be set using WebSetup.

Before you can access the Fiery WebTools you must complete the following:

- Initial printer/copier setup, specifically, setting the IP address, as well as its subnet mask and gateway address, if they are used.
- Client setup, specifically, enabling network communication, and installation of a recommended browser.



3.1

Setup from WebSetup

To access WebSetup you need an Internet browser and the IP address or DNS name of the DocuColor 4 LP/CP.

*** To access Fiery WebSetup:

- 1 Start your Internet browser application.
- 2 Enter the IP address or the DNS name of the DocuColor 4 LP/CP in the URL line of your browser.

Get the IP address or DNS name of the printer/copier from your network administrator.

3



The DocuColor 4 LP/CP home page appears. The individual Fiery WebTools are listed on the left. To display information about a particular tool, click the question mark next to its name.

3 Click **WebSetup**.

If a password has been set, you are prompted to enter it before you can access WebSetup.



3

The options that you can specify from Fiery WebSetup are grouped into three categories: System Setup, Network Setup, and Printer Setup. These are described in the following sections.

If you change a Setup option, the Cancel and Save buttons flash when you click to select another Setup category. You must click either **Save** or **Cancel** before you can proceed to another Setup category or exit Fiery WebSetup.

- Click **Save** to save a change made to a setting.
- Click **Cancel** to cancel a change.

3.1 Setup from WebSetup

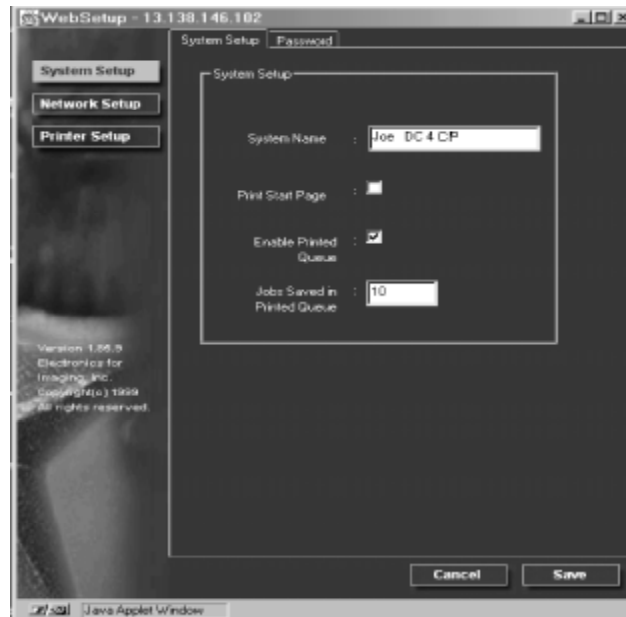
3.1.1 System Setup

In System Setup, you specify settings from two tabs: the System Setup tab and the Password tab.

*** To set System Setup options:

- Click the **System Setup** button.

3



System Setup tab

The options that you can set from the System Setup tab are described below.

System Name — The default name of the printer appears in this text field. Edit the default name here. This is the name you should enter when you configure a connection to the printer over AppleTalk.

Print Start Page — Select this option to print a start page each time the printer/copier is restarted.

Enable Printed Queue— Using a DocuColor 4 CP or, if your DocuColor 4LP has a hard disk drive installed, select this option to create a storage location on the hard disk for the most recent print jobs. Users with Administrator privileges can use the WebSpooler to reprint jobs in the printed queue without sending those jobs again.

Jobs Saved in Printed Queue— specify the number of jobs (from 1-99) to be saved in the Printed Queue.

Password tab

From the Password tab you can set an Administrator password or change the existing one for the printer only. Once an Administrator password has been set, users will be prompted for this password when they attempt to access WebSetup or WebSpooler.

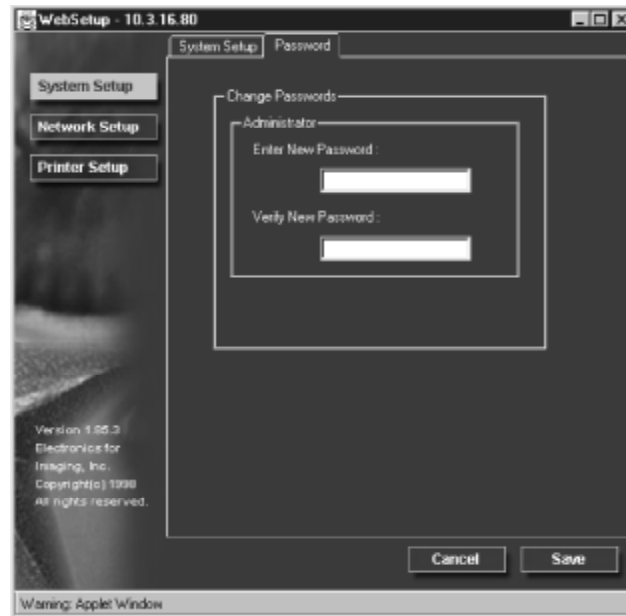


Changing this password does not affect the copier administrator password.

3.1 Setup from WebSetup

❖❖❖ To set or change the Administrator password:

- Click the **Password** tab.



Enter New Password — To set a new password, enter a password in the Enter New Password text field.

Verify Password—To verify a new password, enter the same password in the Verify New Password text field as you have entered in the Enter New Password text field.



You can also enter or change the Administrator password in the System Setup menus on the printer's control panel. By default no password is set on the DocuColor 4 LP/CP. It is recommended that a password be set to protect the printer/copier from accidental or incorrect changes to printer/copier Setup settings.

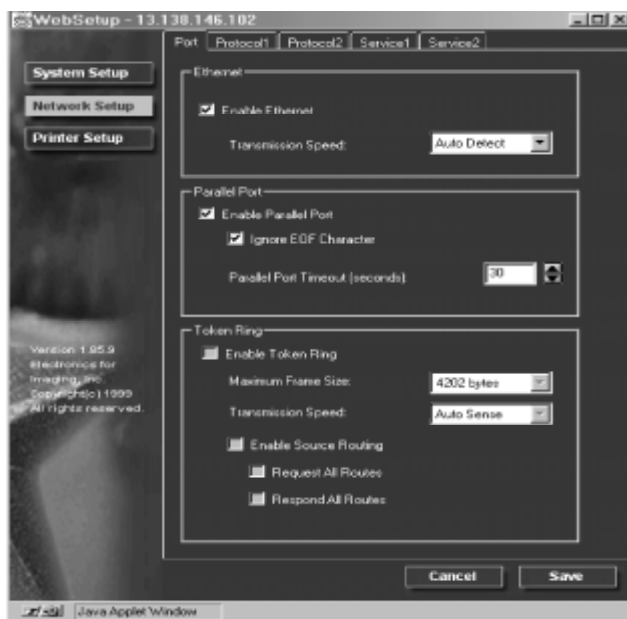
3

3.1.2 Network Setup

In Network Setup, you specify settings from four tabs: Port Setup, Protocol Setup, PServer Setup, and Service Setup.

◆◆◆ To set Network Setup options:

- Click the **Network Setup** button.



The Port Setup tab is the first tab displayed in Network Setup. After setting all the options in the Port Setup tab, click the next tab and continue to specify settings until you have made settings for all relevant options in the Network Setup category.

Port Setup tab

The options that you can set from the Port Setup tab are described below.

Enable Ethernet — Enable this option if the DocuColor 4 LP/CP is to be connected to an Ethernet network.

Transmission Speed — Select Auto Detect if your network environment is mixed, or select the speed (10 Mbps or 100 Mbps) of the network to which the DocuColor 4 LP/CP is attached.

Enable Parallel Port — Enable this option 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 DocuColor 4 LP/CP.

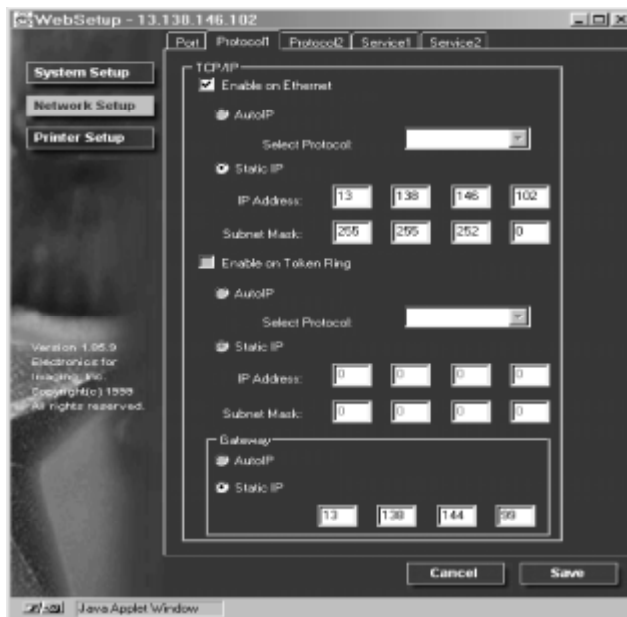


Enabling the parallel port does not conflict with Ethernet communication with the DocuColor 4 LP/CP.

Ignore EOF Character — Available only if Enable Parallel Port is enabled, this option specifies that the DocuColor 4 LP/CP should ignore end-of-file (EOF) messages. Enabling this option is required to print PostScript files in binary format (not ASCII); under normal circumstances, this option should not be enabled. When this option is enabled, the DocuColor 4 LP/CP uses the parallel port timeout value to determine when the end of the file has been reached.

Protocol Setup tab

The options that you can set from the Protocol Setup tab are described below.



3

The DocuColor 4 LP/CP can accept jobs via TCP/IP, AppleTalk, and IPX/SPX simultaneously. To configure the DocuColor 4 LP/CP, choose each protocol and enter the settings for that protocol.

Enable on Ethernet — Enable this option if you have a TCP/IP network connected to the DocuColor 4 LP/CP over Ethernet cabling.

You must enable TCP/IP for Ethernet to use the Fiery WebTools over Ethernet.

IP Address — Enter the DocuColor 4 LP/CP IP address for Ethernet. The DocuColor 4 LP/CP is shipped with the IP address set to the loopback address (127.000.000.001), which is an internal address used for network checking. If you plan to print with TCP/IP, you must first assign the DocuColor 4 LP/CP a unique network IP address.



For information about setting up printing with TCP/IP, see “Network Protocol Setup” on page 32.

Subnet Mask — If you need to set the subnet mask, enter one of the following values:

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

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

Gateway — If your TCP/IP network has a gateway, and users outside the gateway plan to print to the DocuColor 4 LP/CP using TCP/IP, enter the gateway address here. By default, the loopback address, 127.000.000.001, is set. Obtain the correct gateway address from your network administrator.

Enable AppleTalk — Enable this option if you have an AppleTalk network connected to the DocuColor 4 LP/CP. This setting enables the DocuColor 4 LP/CP to communicate over AppleTalk networks.

Select Zone — The DocuColor 4 LP/CP searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the DocuColor 4 LP/CP to appear. If your segment has only one zone, the DocuColor 4 LP/CP is assigned to that zone automatically.

If no AppleTalk zone can be found, your network may have no defined zones, or else the network cable has not been connected. Choose **OK**.



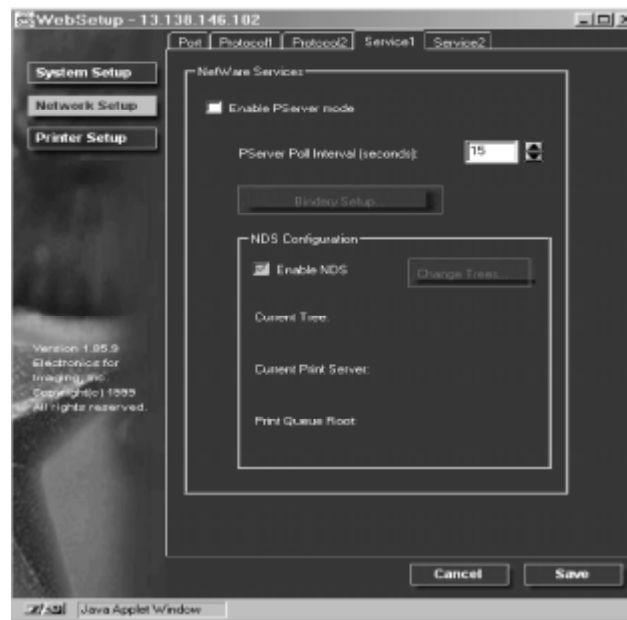
Refer to "Before You Proceed".

Select Frames — Click the **Select Frames** button to specify IPX frames used with NetWare. See your network administrator to verify which frame type to choose.

In the IPX Frames dialog box, select frames and use the **Add** and **Remove** buttons to specify the selected frames.

PServer Setup tab

IPX (Novell NetWare) options are set in the PServer Setup tab.



3

You can modify both NetWare 3.x (Bindery) and NetWare 4.x (NDS) configurations from Fiery WebSetup. Select the Enable NDS option if your network uses NetWare 4.x in native mode. Click **Bindery Setup** if your network uses NetWare 3.x or uses NetWare 4.x in bindery emulation mode.



If your network uses both NDS and Bindery, set up NDS first. Setting up NDS after Bindery will overwrite Bindery Setup. If your network uses both NDS and Bindery, including using NetWare 4.x servers in bindery emulation, the DocuColor 4 LP/CP cannot service NDS and bindery emulation servers on the same NDS tree.

PServer Setup (NetWare Services)

The Enable PServer mode option must be turned on if you have a Novell server connected. You can, however, change the PServer polling interval and then modify either Bindery Setup or NDS Configuration.



To set Enable PServer mode you must first specify an IPX frame type. This option is located in the Protocol Setup tab.

PServer Setup (NDS Configuration)

In initial setup, the DocuColor 4 LP/CP was connected to the network and an NDS directory tree, with a Printer, a Print Server, and one or more Print Queue objects. You can make any changes to that setup through WebSetup. To modify NDS Setup you may need permission to browse the NDS tree. If access to the Print Server is restricted, you'll need a login password.

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

- **Enable NDS**

NDS has already been enabled. Uncheck this box only to remove NDS support.

- **Change Trees...**

Click to open the Add NDS Tree window.

- **Add NDS Tree**

You can have only one NDS tree, so the following process is required to change trees:

- 1 Select the current NDS tree and click **Remove**.
- 2 Select the new NDS tree and click **Add**.

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings afterwards. To exit NDS Setup, choose **Cancel**.

- ③ Click **OK**.

The Select login user window appears.

- **Select Login User**

- ① Select the User Login object from the display in the Select Login User window.

- ② Enter a password if necessary.

- ③ Click **OK**.

The Select print server window appears.

- **Select Print Server**

- ① Select the print server from the display in the Select Print Server window.

- ② Enter a password if necessary.

- ③ Click **OK**.

The Select Print Queue Root window appears.

- **Select Print Queue Root**

- ① Select the print queue root from the display in the Select Print Queue Root window.

- ② Enter a password if necessary.

- ③ Click **Finish**.

The NDS Configuration window reappears, showing the new settings.

- Enter Print Server Password

- 1 Enter the Print Server password (if required).
- 2 Click **OK** to return to the WebSetup window.

PServer Setup (Bindery Setup)

Use **Bindery Setup** if you have already configured one or more bindery servers (file servers running NetWare 3.x or NetWare 4.x in bindery emulation) with a Print Server and a Print Queue for DocuColor 4 LP/CP jobs. Before entering bindery settings, be sure the DocuColor 4 LP/CP is connected to the network and the NetWare file server is running. You'll need a login name, and, if access to the file server or print server is restricted, you'll need a login password.



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.

Because you can set up more than one Novell server to handle DocuColor 4 LP/CP print jobs, Bindery Setup allows you to add or delete new file server connections and view the connections you have selected. The options are:

- Bindery Setup...

Click the Bindery Setup button to display the Add Connections Window.

- Add Connections

- 1 Click the server you want to add.
- 2 Click **Add**.
- 3 Enter your user name and password.
- 4 Click **OK**.

The Add Server password window appears.

- 5 Enter your name and password.

3.1 Setup from WebSetup

6 Click **OK**.

The Add Server window shows a list of print servers you can add.

- **Add Server**

1 Select a print server from the list on the left.

2 Enter a password if a password is required.

3 Click **Finish**.

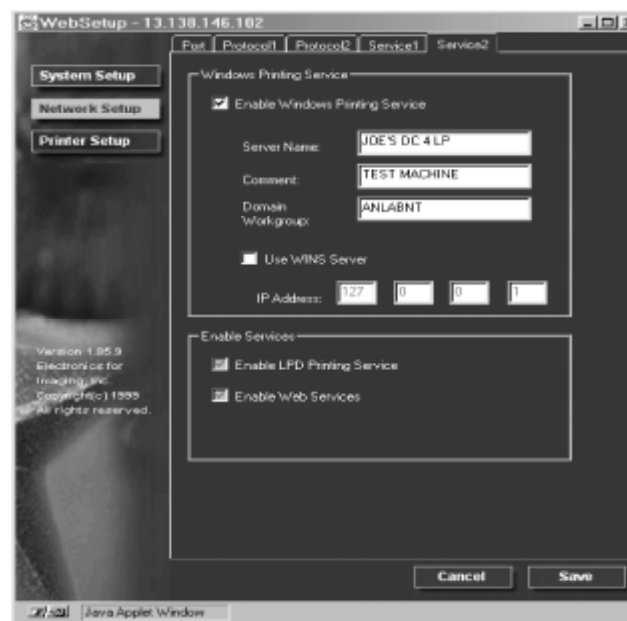
You return to the main Novell Setup dialog box.

4 Click **OK**.

3

Service Setup tab

The Service Setup tab is used to set Windows Printing Service options. Windows Printing Service enables the Microsoft SMB protocol, which supports peer-to-peer printing, also known as Windows (WINS) or SMB printing.



Enable Windows Printing Service — Enable this option to enable SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB allows the DocuColor 4 LP/CP to be listed on the network so that Windows clients can print to a particular print connection without any other networking software. For information on how to set up a Windows client for Windows printing, see the *User Guide*.

Windows (SMB) printing runs over TCP/IP, so TCP/IP must be configured on the DocuColor 4 LP/CP and on all workstations that use Windows printing.

Server Name — The server name is the name that will appear on the network. It can be the same name as the server name assigned in Server Setup.



Lowercase letters are not allowed.

Server Comment - Server comments (optional) can contain information about the printer/copier.

Domain or Workgroup - Enter the workgroup or domain you want the DocuColor 4 LP/CP to appear in.



Lowercase letters are not allowed.

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 the 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 Server (if available).

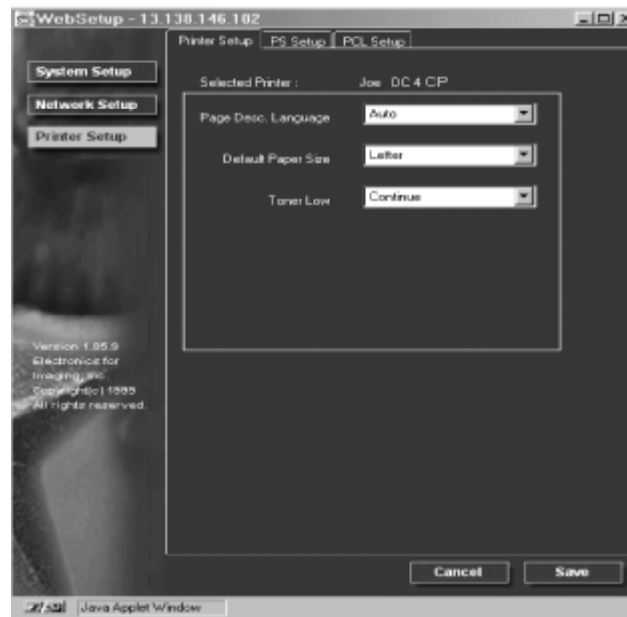


The Enable LPD Printing Service and Enable Web Services options are not in effect for the DocuColor 4 LP/CP.

3.1 Setup from WebSetup

Printer Setup tab

The Printer setup tab is used to specify the printer's default page description language (PDL), paper size, and the ability to print under low Dry Ink condition.



3

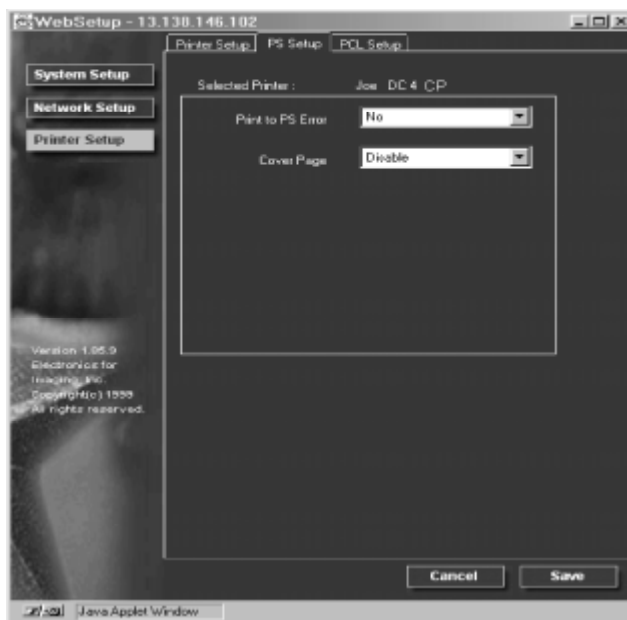
Page Desc. Language — Specify a default page description language for your printer. If you select AUTO, the printer will automatically detect and interpret the page description language used by the file.

Default Paper Size — Specify the default paper size to print on. Information pages from the PRINT PAGES FROM LIST menu (Menu Help, Configuration page, PS or PCL Font list, and Test page) are printed on the default paper size set here.

Dry Ink Low — Specify the behavior of the printer when Dry Ink in a cartridge is low. Select continue to print even when Dry Ink is low; select STOP to stop printing when the Dry Ink is low. If Stop is selected and a print job is sent while Dry Ink is low, the printer/copier error light comes on. When the Dry Ink has been replaced, the job is printed.

PS Setup tab

The PS Setup tab is used to specify PostScript printing options.



Print to PS Error — Specify whether the DocuColor 4 LP/CP 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 job entirely whenever a PostScript error is encountered.

Cover Page — Specify whether the DocuColor 4 LP/CP prints a cover (job summary) page at the end of each print job. If you select **Yes**, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurs, and the Print to PS Error option is set to **Yes**, an error message takes the place of the job status.

3.1 Setup from WebSetup

PCL Setup tab

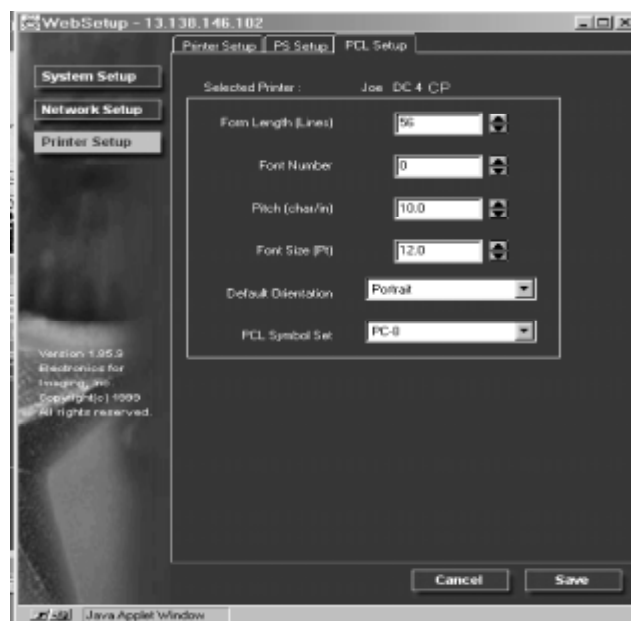
The options that you can set from the PCL Setup tab are described below.



The PCL Setup options in this section apply to unformatted ASCII text files.



PCL is available only when printing from Windows computers.



3

Form Length (Lines) — Specify the number of lines of text per page to print.



Form length varies according to the orientation of the paper.

Font Number — Specify which PCL font to print. For a complete list of available PCL fonts and their corresponding font numbers see the Appendix of the User Guide.

Pitch (char/inch) — Specify the pitch, or number of fixed-space, PCL characters per horizontal inch to print.

Font Size — Specify the point size of the font to print.

Default Orientation — Specify the default orientation of the print job on the paper. Select Portrait to print text across the short dimension on a Portrait orientation page; Landscape to print text across the long dimension on a Landscape page.

PCL Symbol Set — Specify the PCL Symbol set to print. A symbol set is a specific set of symbols provided by a font. In general, each set is designed with a unique application in mind. The PC-8 symbol set, for example, was designed to support US IBM PC applications.

3.1.3 Restarting the printer/copier

When you have finished specifying settings from Fiery WebSetup, click **Save**, and then close the Fiery WebSetup window by clicking the × in the top right corner of the window. The Reboot window appears asking if you want to reboot the printer/copier. Select **Yes** to reboot the printer/copier and initialize the new settings.

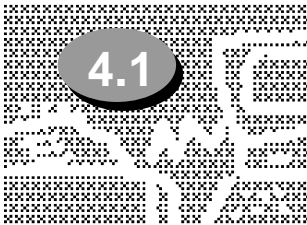
4

Setting up Network Servers

This chapter describes environments that typically include one or more network servers—Novell NetWare servers and Windows NT 4.0 servers that will share printing to the DocuColor 4 LP/CP. It describes setting up servers that use IPX/SPX or TCP/IP protocols for communicating with the DocuColor 4 LP/CP. In addition, it includes some guidelines for setting up direct communication from Windows NT 4.0 workstations, where a network server is optional. The chapter also outlines the requirements for network clients to print to the DocuColor 4 LP/CP and to run the Fiery WebTools. If your network is based on Windows NT 4.0, skip to *page 89*.



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



Setting up the DocuColor 4 LP/CP on an IPX network

The software built into the DocuColor 4 LP/CP supports the following network operating environments:

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

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

4

NetWare clients print to the DocuColor 4 LP/CP through the Novell network server. Server setup and client network setup are outlined here. Client printing setup and printing is described in the *User Guide*.

The DocuColor 4 LP/CP can accept jobs concurrently from NetWare, Windows NT 4.0, and AppleShare servers, as well as jobs sent directly from Windows or Windows NT. NetWare clients on Mac OS or Windows NT 4.0 computers can print via the NetWare server. The DocuColor 4 CP also accepts concurrent copy jobs.

The DocuColor 4 LP/CP can receive print jobs from NetWare clients over the Ethernet network topologies. During DocuColor 4 LP/CP setup, you select the frame type that will be used for communication between the DocuColor 4 LP/CP 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 — IPX networks

The following information is all that experienced network administrators need.

A DocuColor 4 LP/CP with IPX connections has these characteristics:

- Both NetWare 3.x and NetWare 4.x are supported directly. NetWare 4.x is also supported through bindery emulation.
- A minimum connection to the DocuColor 4 LP/CP consists of a NetWare file server, a NetWare print server, and a NetWare queue.
- A single directory tree (for NetWare 4.x) and up to eight bindery servers can be configured simultaneously.
- The DocuColor 4 LP/CP looks for print jobs on one NetWare print server per bindery server.
- Each print server can store jobs for any queue on the DocuColor 4 LP/CP.

4

4.2.1 Overview of IPX printing to the DocuColor 4 LP/CP

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

The queues on the NetWare server must be named to match the Direct connection and the Print, and Hold queues on the DocuColor 4 LP/CP. The NetWare queue names should be given an extension corresponding to the DocuColor 4 LP/CP queue, as follows:

xjdirect
xjhold
xjprint



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

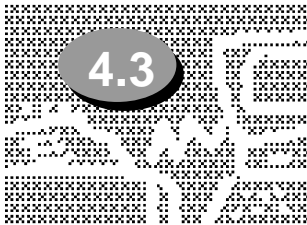


Print and Hold queues are available only on printers with an optional hard disk drive.

4.2 Tips for experts-IPX networks

There is no need to rerun Setup when adding or removing a NetWare queue; however you should initialize these settings by turning the printer/copier off and on after a queue is created or removed.

When the DocuColor 4 LP/CP 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 transferred over the network to the matching connection: Print to Print, Hold to Hold, Direct to Direct. While a job is processed and printed, a record of the job is being created. You can access the Job Log containing these records at any time.



Configuring a NetWare server for printing

The following sections explain how to set up a NetWare file server so that networked users can print to the DocuColor 4 LP/CP from their workstations, and the DocuColor 4 LP/CP can obtain print jobs from the NetWare server.

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

- Make sure the server is connected to a functioning IPX network.
- Log in from a PC connected to the NetWare file server. With Novell 3.x, log in as the Supervisor; or with NDS or Novell 4.x, log in as Admin.
- For NetWare 4.x installations, set up an NDS connection (see *page 71*).
- For NetWare 4.x in emulation mode, set the bindery context (see *page 75*).
- For NetWare 3.x and for NetWare 4.x in bindery emulation, set up a file server, a print server, and a print queue for the DocuColor 4 LP/CP (see *page 82*).

4

With bindery services, you can route all DocuColor 4 LP/CP print jobs through the same NetWare file server, or you can configure more than one file server to handle DocuColor 4 LP/CP jobs.

The functions you perform on the Novell server, on the DocuColor 4 LP/CP, and on the client workstation, are summarized in the following tables. The first table applies to NDS connections, the second to bindery connections. Complete the operations in the left column, then the center column, then the right column.

4.3.1 Configuring an NDS connection

Abbreviations:

FS = file server

PS = print server

PQ = print queue (on the NetWare server)

4.3 Configuring a NetWare server for printing

| On NDS FS: | On DocuColor 4 LP/CP printer control panel: | On client workstation: |
|--|---|--|
| In NETADMIN: Create NDS PQs Create NDS printer/copier and assign PQs Create PS and assign the printer/copier Configure users of the PQs | I/O PORT SETUP Ethernet Setup NETWORK PROTOCOL SETUP IPX/SPX Setup-select frame type(s) NETWORK SERVICE SETUP PServer Setup and NDS Setup Select Root Browse to select PS Specify PQ search root (optional) Set Polling Interval | Install user software For printing: Connect client to PQ(s) that you set up on the NetWare FS (associated with the PS selected in NDS Setup) |

4

Configuring a bindery connection

| On Bindery FS: | On DocuColor 4 LP/CP printer control panel: | On client workstation: |
|---|--|--|
| In PCONSOLE: Select NetWare FS (up to 8) For each FS: Configure PS Configure PQ Configure users of the PQ | I/O PORT SETUP Ethernet Setup NETWORK PROTOCOL SETUP IPX/SPX Setup-select frame type(s) NETWORK SERVICE SETUP PServer Setup and Bindery Setup Add FS (up to 8) Set Polling Interval | Install user software For printing: Connect client to PQ(s) that you set up on the NetWare FS (associated with the PS selected in Bindery Setup) |

4.3.2 Setting up an NDS connection

In NDS, all NetWare entities (objects) are organized in a hierarchical tree structure. Objects have a name, properties, and a context which defines the location of the object in the directory tree. For the DocuColor 4 LP/CP you are mainly concerned with defining a printer, a print server object and one or more print queue objects. Objects are created in NetWare administrator programs (PCONSOLE or NETADMIN which are text-based, or NetWare Administrator, which has a graphical user interface and context-sensitive help).

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



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

The following procedures describe creating container objects in a Novell structure using the NetWare Administrator utility on Windows 95 or Windows NT. This utility, NWADMIN95.exe, is generally located on the \PUBLIC\WIN95\ directory of the SYS volume. To define new objects, launch the utility and log in to the Novell directory tree as the Administrator.

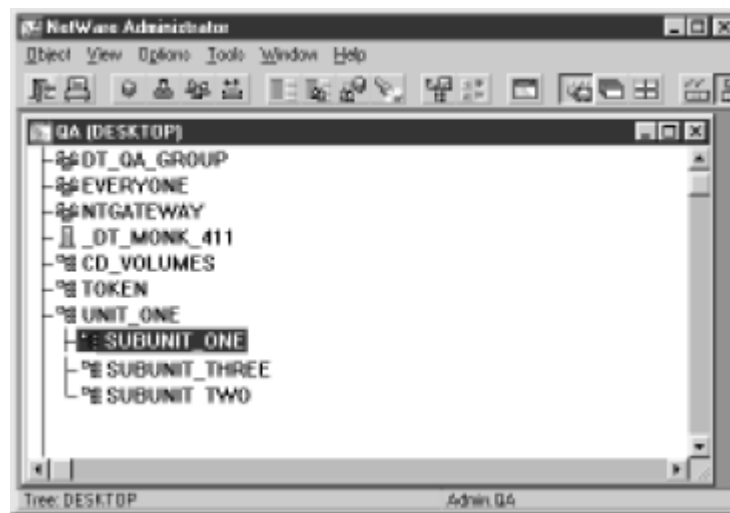
The next three sections describe the procedures for defining a print queue (or queues), printer, and print server object.

4.3 Configuring a NetWare server for printing

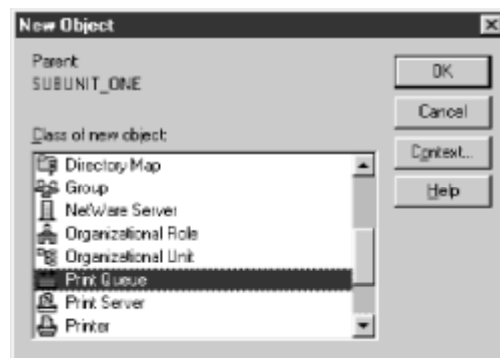
◆◆◆ To create an NDS print queue:

- 1 Browse to the NDS container where the print queue will be located. Select a container object.

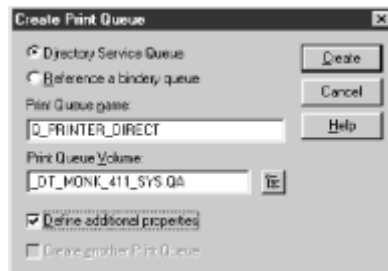
This is the NDS container you will select later in **Network Setup>Pserver>NDS setup**.



- 2 Choose **Create** from the Object menu.
- 3 In the New Object dialog box, select **Print Queue** and click **OK**.



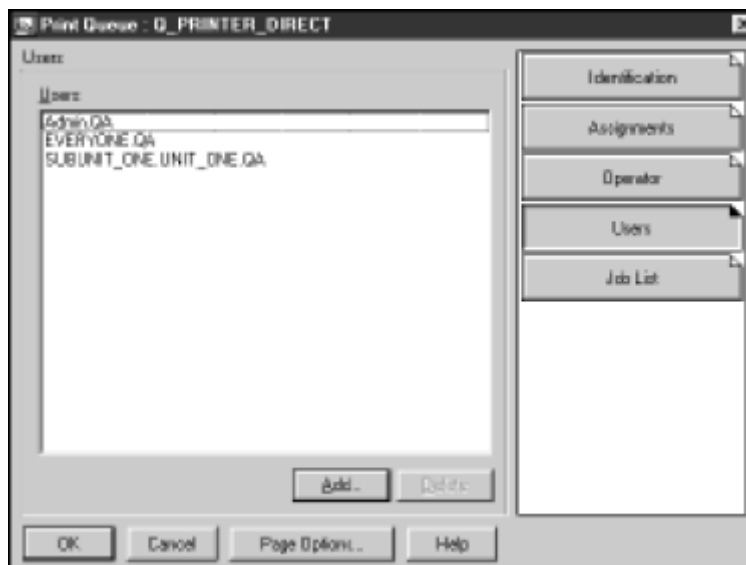
- 4** In the Create Print Queue dialog box, select **Directory Service Queue** and select the volume where the print queue object will be located. Enter a name for the queue in the Print Queue name text box. Select the **Define additional properties** check box and click **Create**.



See page 67 for queue naming conventions.

If your printer does not have a hard disk drive, you can define a Direct connection only. If your printer/copier has a hard disk drive installed (All DocuColor 4 CPs have hard disks), repeat this step to create two additional queues (Print and Hold), to print to.

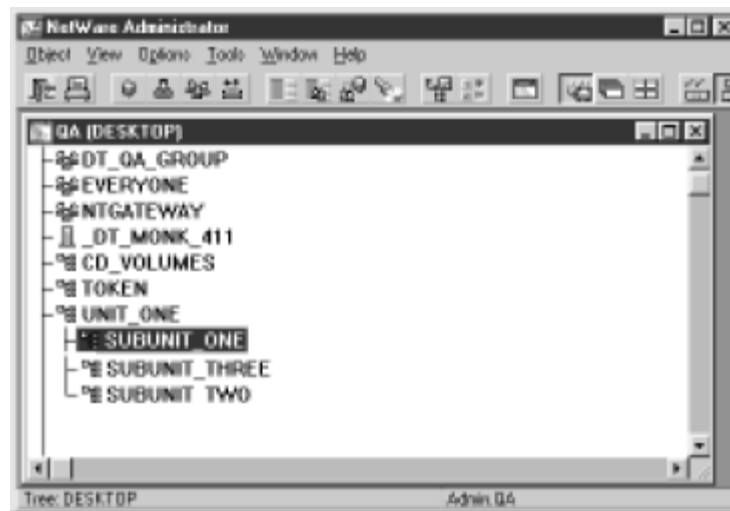
- 5** In the dialog box that appears, select the name of the user you would like to allow to print to the connection or queue from the Users list, and click **Add**. Repeat this step for each user. When you have finished adding users, click **OK**.



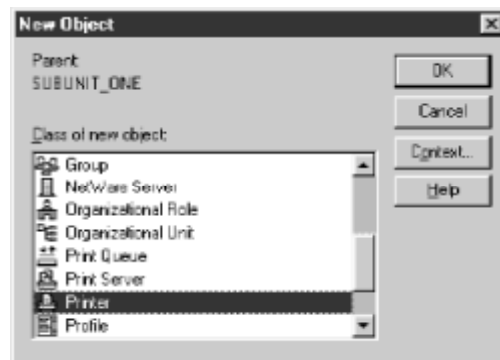
4.3 Configuring a NetWare server for printing

*** To create an NDS printer/copier and assign a queue to the printer/copier:

- 1 Choose the NDS container that contains the print queue. Choose **Create** from the Object menu.



- 2 In the New Object dialog box that appears, choose **Printer** and click **OK**.



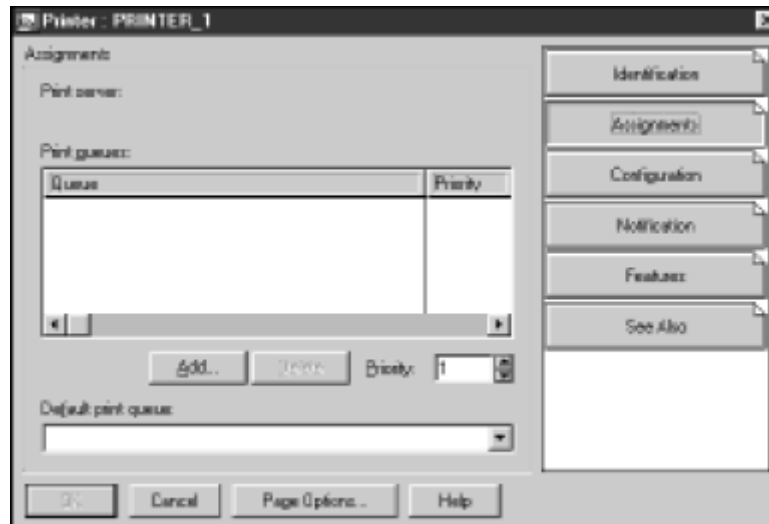
- 3 Enter a name for the printer/copier, check the **Define additional properties** check box and click **Create**.

4.3 Configuring a NetWare server for printing



This is the NDS print server name you will select later in **Network Setup>PServer>NDS setup**.

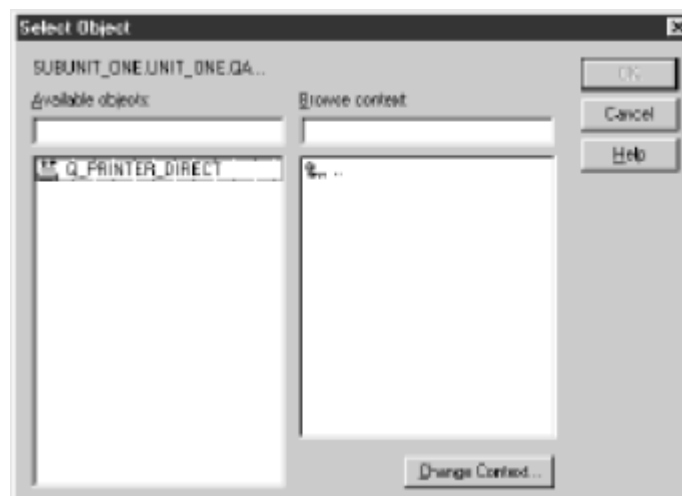
- 4** Choose **assignments** and click **Add**.



4

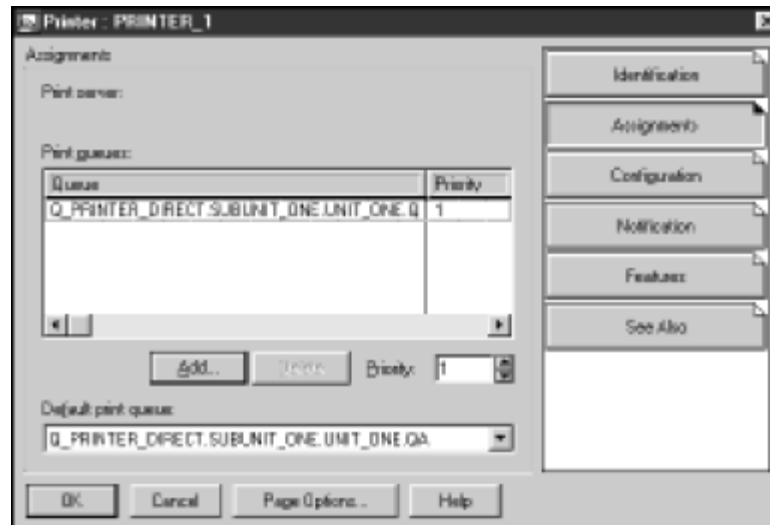
In the next step you will assign a print connection and/or print queues to the printer object you have created.

- 5** Choose the direct connection from the Available Objects list and click **OK**.



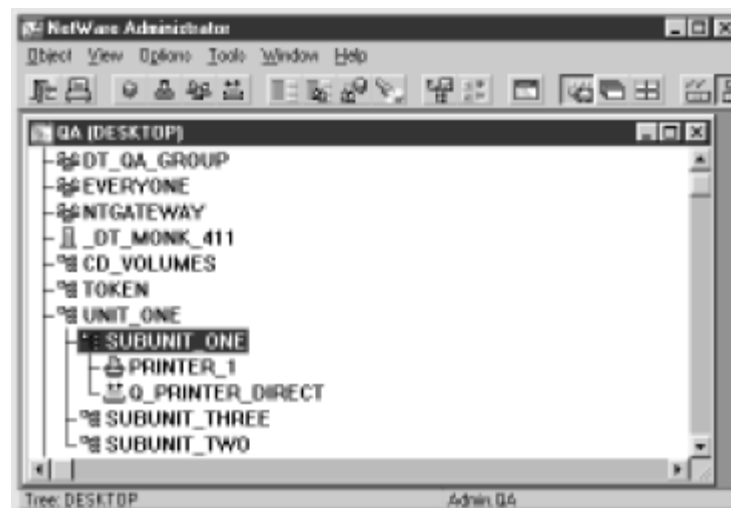
4.3 Configuring a NetWare server for printing

- 6 If you have defined additional queues for this printer, select the print queue name from the Print queues list, and click **Add**. Repeat this step for each connection. When you have finished, click **OK**.

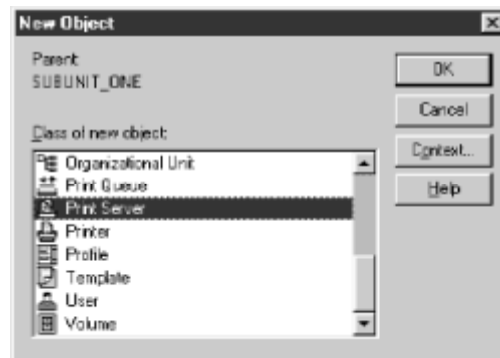


◆◆◆ To create an NDS Print server:

- 1 Choose the NDS container that contains the printer and print queue objects. Choose **Create** from the Object menu.



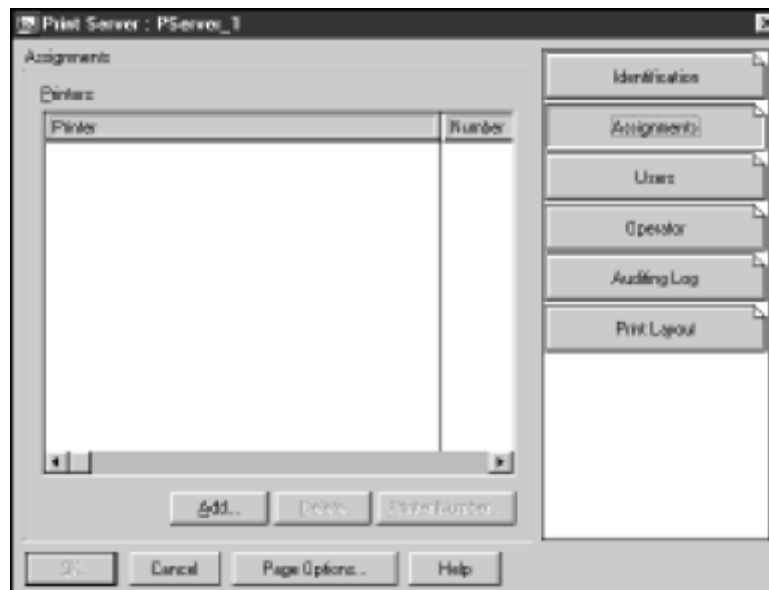
- 2 Select Print Server and click **OK**.



- 3 Enter a name for the print server, check the **Define additional properties** check box and click **Create**.

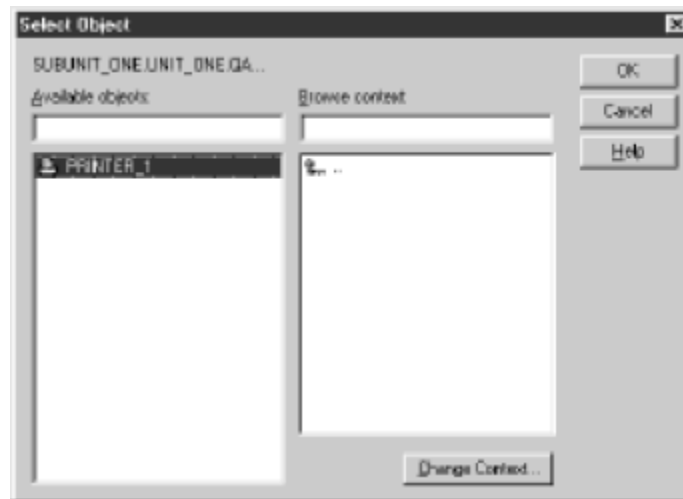


- 4 Click **assignments** and click **Add**.

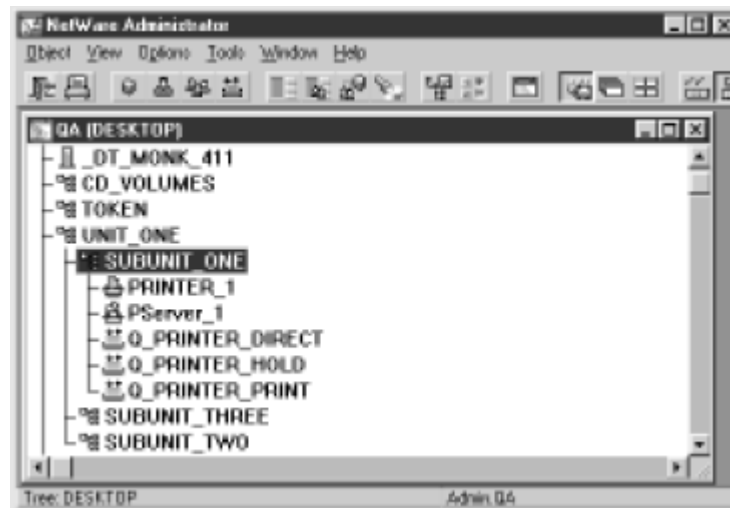


4.3 Configuring a NetWare server for printing

- 5** Choose a printer/copier from the Available Objects list and click **OK**.



- 6** In the dialog box that appears, select the name of the user you would like to allow to print to the print server from the Users list, and click **Add**. Repeat this step for each user. When you have finished adding users, click **OK**.



The remaining Setup can be performed on the DocuColor 4 LP/CP, or can be performed using the WebSetup WebTool.



A general outline of the steps follows; for more detailed information on setting up the Print Functions from the control panel, see page 22.



For more information about setting up the printer/copier using WebSetup, see page 46.

*** Completing the setup on the DocuColor 4 LP/CP:

- ❶ In the I/O PORT SETUP screens, enable the port you will use for printing to the DocuColor 4 LP/CP.
- ❷ In the NETWORK PROTOCOL SETUP screens, configure the protocols you will use.
- ❸ In the ENABLE NOVELL screens, select the frame type(s) that will be used between the NetWare server(s) and the DocuColor 4 LP/CP.
- ❹ In the NETWORK SERVICES SETUP screens, select YES in the ENABLE PSERVER screen, and select YES in the ENABLE NDS screen.
- ❺ Identify the NDS tree on which the printer, print server, and print queue have been defined.
- ❻ Select the user login object.
- ❼ Identify the defined print server.
- ❽ Finally browse to container object that contains the print queue or queues.

4

4.3.3 Setting the NetWare 4.x bindery context

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



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

4.3 Configuring a NetWare server for printing

Up to eight bindery servers, whether in native 3.x mode or in 4.x emulation, can connect to the DocuColor 4 LP/CP.



If your server is using NetWare 3.x, proceed to “Setting up a DocuColor 4 LP/CP print queue for bindery” on page 82.

In order to set up the NetWare 4.x server in bindery emulation mode for printing to the DocuColor 4 LP/CP, 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 DocuColor 4 LP/CP will be created.
The container defines the “bindery context” for your network structure.
- Edit the network startup file to set the bindery context.
- Activate the new bindery context.

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

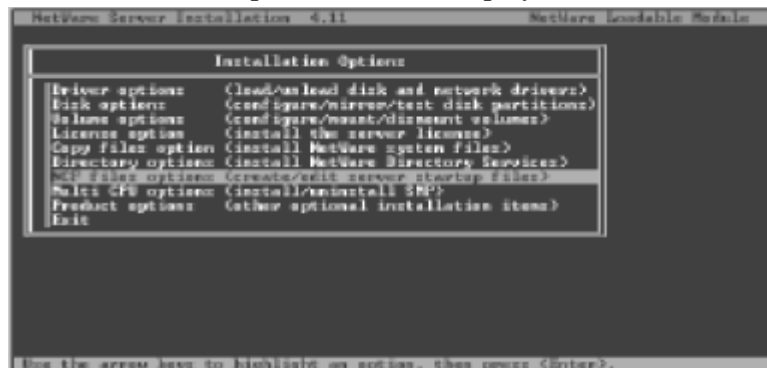
*** To set the bindery context (The following should be completed by the System Administrator):

- 1 Establish a connection with the server which will have the DocuColor 4 LP/CP queue.

This is best done by the network administrator from the server console. It can also be done remotely using the RCONSOLE utility. For more information, refer to your NetWare documentation.

- 2 At the NetWare server console, type **load install**.

The Installations Options menu is displayed.

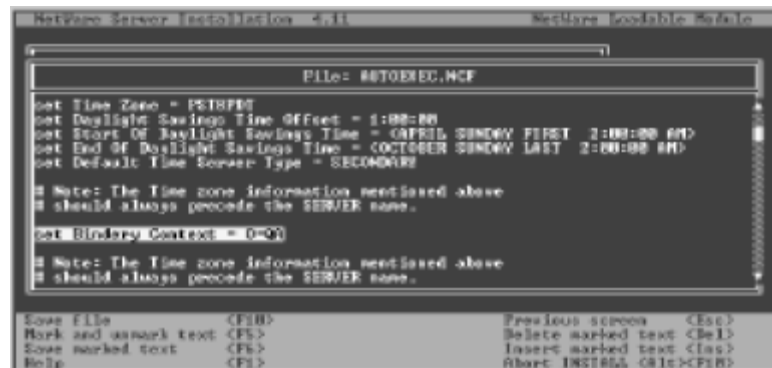


4.3 Configuring a NetWare server for printing

- 3 Select **NCF Files Options**.
- 4 From the menu of available NCF files, choose **Edit AUTOEXEC.NCF file**.



- 5 Type a new line anywhere in the file as follows:
set Bindery Context = **enter your bindery context here**



- 6 Press **Esc** to close the window, and **save changes**.
- 7 Proceed to the next section to activate the bindery context.

*** To activate the bindery context:

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

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

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

You are ready to set up the DocuColor 4 LP/CP print server and print queue. See the next section for details.

4

4.3.4 Setting up a DocuColor 4 LP/CP print queue for bindery

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

As with NDS, first you create several NetWare entities on a Novell server, then you select them in Network Setup on the DocuColor 4 LP/CP control panel.

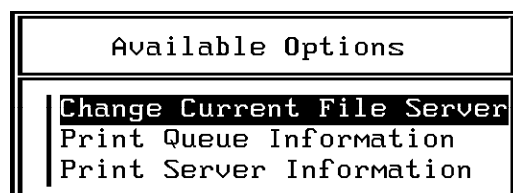
*** To set up a NetWare bindery print server for printing to the DocuColor 4 LP/CP:

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

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

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

The Available Options menu is displayed.



- 3 Choose **Change Current File Server** and press **Enter**.
- 4 Using the arrow keys, select the name of the file server you'll use for sharing DocuColor 4 LP/CP printing and press **Enter**.

| File Server | User Name |
|-------------|------------|
| ACCOUNTING | SUPERVISOR |
| GRAPHICS | SUPERVISOR |

This is the file server you select later in **DocuColor 4 LP/CP Network > PServer > Bindery Setup**.

4

- 5 Choose **Print Server Information** from the Available Options menu.
- 6 Press the **Insert** key, type a name for the new print server, and press **Enter**. Then press **Esc**.

| Print Servers | |
|---------------|----------------------------|
| PARALLEL | Available Options |
| | Change Current File Server |
| | Print Queue Information |

New Print Server Name:PrintServer

You must select the same print server here and in **DocuColor 4 LP/CP Network > PServer > Bindery Setup**.

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

4.3 Configuring a NetWare server for printing

- 8 Press **Insert** and type a name for a new DocuColor 4 LP/CP print queue. Press **Enter**.



Page 93 for queue naming conventions.

The screenshot shows the 'Print Queues' menu with a list containing 'PARALLELQ'. A dialog box titled 'New Print Queue Name: Color_Printer_Q' is displayed over the menu. To the right, a 'Print Queue Information' menu is partially visible, showing options like 'Current Print Job Entries', 'Current Queue Status', 'Currently Attached Servers', 'Print Queue ID', 'Queue Operators', 'Queue Servers', and 'Queue Users'.

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

The Print Queue Information menu is displayed.

The screenshot shows the 'Print Queues' menu with 'Color_Printer_Q' selected. The 'Print Queue Information' menu is open, displaying a list of options: 'Current Print Job Entries', 'Current Queue Status', 'Currently Attached Servers', 'Print Queue ID', 'Queue Operators', 'Queue Servers' (which is highlighted), and 'Queue Users'.

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

A blank Queue Servers list is displayed.

- 11** Press the **Insert** key.

The Queue Server Candidates list is displayed.

| Queue Server Candidates | | Queue Servers | |
|-------------------------|----------------|---------------|--|
| PrintServer | (Print Server) | | |
| PARALLEL | (Print Server) | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

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

You have associated the selected DocuColor 4 LP/CP queue with the print server you created in step 6.



The DocuColor 4 LP/CP obtains jobs from all queues defined for a print server, and all jobs from one file server go to the same queue on the DocuColor 4 LP/CP.

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

The DocuColor 4 LP/CP can support up to eight file servers on Ethernet.

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

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

Setting up NetWare Windows clients for printing

Before setting up client workstations for printing, make sure you perform Network Setup on the DocuColor 4 LP/CP (see “Setting up the Print Functions” on page 22), and that the settings reflect the entities you created in the Net Ware administrator utilities (see page 71).



For printing to the DocuColor 4 LP/CP, connect all Windows clients to a Novell NetWare server and permit them to connect to the server or servers on which you defined a DocuColor 4 LP/CP queue.

After the Novell server and the DocuColor 4 LP/CP have been set up, client setup consists of:

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

On Windows 95/98 workstations, both the IPX/SPX-compatible protocol and the Client for NetWare Networks should be loaded from the Network Control Panel. On Windows NT workstations, Client Service for NetWare should be installed. Use the CSNW option in Control Panel to set printing options and specify a preferred NetWare server.



These operations can also be performed using Novell Client for Windows 95/98, and Windows NT.

- Setting up the DocuColor 4 LP/CP as a PostScript or PCL printer by installing a PostScript or PCL printer driver and the DocuColor 4 LP/CP PPD or PDD (PostScript or PCL printer description file).
- Adding a network port and connecting the workstation to one or more NetWare queues that have been defined for the DocuColor 4 LP/CP.



See the User Guide for details on how to connect Windows 95/98 and Windows NT 4.0 workstations.

- Installing other optional client software, such as Color Reference files.



See the User Guide for details.



Setting up DocuColor 4 LP/CP on a TCP/IP network with Windows NT 4.0

When a Windows NT 4.0 computer is configured to connect to the DocuColor 4 LP/CP using TCP/IP, it can print directly to the DocuColor 4 LP/CP. If the computer shares the printer over the network, it is acting as a print server to Windows NT 4.0 and Windows 95/98 clients. The client machines print to the DocuColor 4 LP/CP by printing to the Windows NT 4.0 print server. Printing can then be monitored and controlled at the Windows NT 4.0 server machine.

With TCP/IP protocols loaded, you can also run WebTools from a Windows NT 4.0 Server or Windows NT 4.0 Workstation computer. Windows 95/98 clients can also run the Fiery WebTools over TCP/IP.

If there are many Mac OS computers or other PostScript printers at the site, the Windows NT 4.0 server can also use AppleTalk protocols for printing to the DocuColor 4 LP/CP. You can load AppleTalk on the Windows NT 4.0 server as an alternative to TCP/IP (see *page 91*).



From User Guide section 1.3 Queue names:

xjprint
xjhold
xjdirect

Tips for experts-Windows NT 4.0 with TCP/IP

When TCP/IP network connections are made from Windows NT 4.0 workstations, note the following:

- Make sure you have a valid IP address for the DocuColor 4 LP/CP and for any workstations that will print to it or run Fiery WebTools.
- In DocuColor 4 LP/CP Network Setup > Protocol Setup > TCP/IP Setup > Ethernet Setup, enable TCP/IP and enter the IP address for the DocuColor 4 LP/CP. Also enter the Subnet mask and Gateway address, if they are used.
- Make sure your DocuColor 4 LP/CP name and address are listed in a domain name services (DNS) or a host name database used by your system.
- Make sure your system host table includes the correct internal name for the DocuColor 4 LP/CP as a remote printer/copier.
- Install the DocuColor 4 LP/CP PostScript and PCL printer descriptions and the PCL printer driver on the Windows NT 4.0 server (see the *User Guide*).

The DocuColor 4 LP/CP PostScript and PCL printer descriptions are provided on the User Software CD.

- Repeat the installation for everyone who prints to the DocuColor 4 LP/CP. Each server and workstation running the WebTools with TCP/IP also needs the TCP/IP protocol .



Configuring a Windows NT 4.0 server to support the DocuColor 4 LP/CP

To configure a Windows NT 4.0 server to communicate with the DocuColor 4 LP/CP, follow these general steps. More detail is provided in subsequent sections.

- Load the Microsoft TCP/IP Printing service (see the next section).
- Enter the host name of the DocuColor 4 LP/CP in the host database used by your system (see *page 91*).
- On the DocuColor 4 LP/CP, perform Server Setup, Network Setup, Printer Setup, PS Setup, and PCL Setup.
- On the Windows NT 4.0 server, create a printer for each DocuColor 4 LP/CP queue, install the appropriate printer drivers (if necessary) and (optionally) share the printer on the network (see *page 92*).
- Enter the host name and internal name of the DocuColor 4 LP/CP in the printer connection.

4

*** To add TCP/IP network services:

- 1 Log in to the Windows NT 4.0 server as Administrator.
- 2 In the Control Panel, double-click the **Network** icon.
The Network Settings dialog box appears.
- 3 Click the **Services** tab and click **Add**.
- 4 In the Select Network dialog box, select **Microsoft TCP/IP** printing and click **OK**.
- 5 In the Windows NT Setup dialog box, specify the location of your Windows NT 4.0 software files and click **Continue**.
Insert your windows NT 4.0 System software CD and specify the CD-ROM drive's volume; or, if the files reside of your hard drive or on the network, specify the appropriate path.
- 6 Click the **Protocols** tab and configure the windows NT 4.0 server with its own IP address, subnet mask and default gateway.
For Windows NT 4.0 Configuration options, you can choose various host name systems, see your Windows NT 4.0 documentation.

-
- 7 When you are finished configuring TCP/IP, click **Apply** and close the **Network Control Panel**.
 - 8 Restart your computer.
 - 9 Add the printer to the network. (See the next section.)

4.7.1 Adding the DocuColor 4 LP/CP to the TCP/IP network

If your TCP/IP network consists of Windows NT 4.0 servers and Windows NT 4.0 clients, use the directions in this section.

4

*** To add the DocuColor 4 LP/CP to a TCP/IP network with a Windows NT 4.0 server:

- 1 On the DocuColor 4 LP/CP, perform Server Setup, Network Setup and Printer Setup to support TCP/IP printing.

Enter the **options** in Protocol Setup (IP address of the DocuColor 4 LP/CP, Subnet mask, and Gateway address).

- 2 Register the IP address of the DocuColor 4 LP/CP in the host name database used by your system.

For installations that don't have a network administrator or a central host name database, add the DocuColor 4 LP/CP to the hosts file on the Windows NT 4.0 server. Also add it to the hosts file on any workstations that have TCP/IP loaded and will use the Fiery WebTools.

*** Adding a DocuColor 4 LP/CP entry to the Windows NT 4.0 hosts file

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

A generic hosts file is added to the Windows directory when you install TCP/IP support.



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

*** **To enter the host name of the DocuColor 4 LP/CP:**

- ❶ On the Windows NT 4.0 server and on each client computer, navigate to the hosts file that you use for your network or for your local computer.

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

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

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

- ❸ Type an entry for the DocuColor 4 LP/CP (IP address and host name) similar to the other entries in this file.

The format of the hosts entry is:

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

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



Type the entry without any spaces, but substitute the values appropriate for your environment. The host name should be the same name you gave to the DocuColor 4 LP/CP in the Server Setup on the control panel.

A sample entry for the DocuColor 4 LP/CP as the remote computer/printer/copier, in which we've defined the host name of the printer/copier as Astro is:

127.0.0.1<TAB>Astro<TAB>#Marketing_printer

To determine the IP Address and Server Name of your system, print a Configuration page from the DocuColor 4 LP/CP printer control panel (see page "Printing information pages" on page 41.).

- ❹ Save the file as "hosts" and exit the application.

4.7.2 Installing the DocuColor 4 LP/CP as a shared PostScript printer/copier

The first step in creating a printer is installing the Windows NT PostScript printer driver and the DocuColor 4 LP/CP PostScript printer description file (PPD), which gives your applications access to some printer features. The installation instructions in the *User Guide* can be used for every workstation that will print directly and independently to the DocuColor 4 LP/CP. However, if you are an administrator running Windows NT 4.0 Server or Windows NT 4.0 Workstation, you can also create a printer and share it with Windows NT 4.0 clients on the network. When a printer is shared, Windows NT 4.0 clients who are not able or are not given permission to establish an independent network connection to the DocuColor 4 LP/CP have to print through the server.

You can specify sharing of the printer at any time. If you have not yet installed the DocuColor 4 LP/CP printer files on the Windows NT 4.0 print server computer, do so now use the following procedure to share the DocuColor 4 LP/CP.

◆◆◆ To make the DocuColor 4 LP/CP a shared PostScript printer/copier on a Windows NT 4.0 computer:

- ❶ Click **Start > Settings > Printers** to open the **Printers** window.
- ❷ Select the **DocuColor 4 LP/CP**.
- ❸ Open the Properties dialog box (right-mouse click and choose Properties) and click the **Sharing** tab.
- ❹ Select **Shared** and enter a share name for the DocuColor 4 LP/CP.
Use a DOS-compliant share name if your network includes Windows for Workgroups clients. Use a name that indicates the DocuColor 4 LP/CP queue if you wish to publicize that information.
- ❺ Click **OK**.

4.7.3 Setting up another printer/copier

If more than one DocuColor 4 LP/CP printing connection is published (for example, if both the Print queue and the Hold queue are published), you may wish to create a printer for each printing connection so that you and other users can print to each queue directly.

*** To set up another printer/copier with Windows NT 4.0:

1 Click **Start > Settings > Printers** to open the Printers window, and then double-click **Add Printer**.

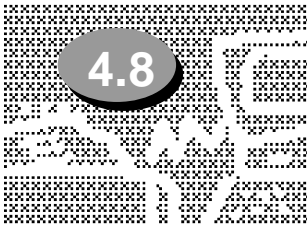
2 Using the instructions in the *User Guide*, install another copy of the DocuColor 4 LP/CP printer/copier files.

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

3 Follow the instructions in the *User Guide* to set up the printer/copier for TCP/IP and lpr printing.

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

In the second line of the Add LPR compatible printer/copier dialog box, enter either hold or print depending on the queue to be used. The queue name is case-sensitive; be sure to enter it in all lowercase.



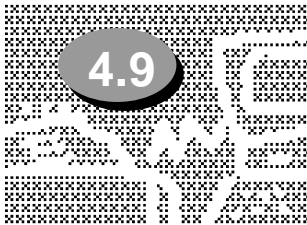
Configuring Windows NT 4.0 clients

Each client of a Windows NT 4.0 server is already using a network protocol to communicate with the server. Each client can print to the DocuColor 4 LP/CP if it has been shared by a Windows NT 4.0 Server or Windows NT 4.0 Workstation computer. In that case the client does not have to use the same network protocol to connect to the Windows NT 4.0 server as the server uses to communicate with the DocuColor 4 LP/CP.

*** To connect and print to the DocuColor 4 LP/CP shared by the Windows NT 4.0 server:

For Windows NT 4.0 Workstation clients, before printing, connect to the print server computer and select the DocuColor 4 LP/CP. Right mouse click and choose the **Open** command. When prompted, click **Yes** to have Windows set up the printer.

After clients have selected the printer, they can choose it from the Print Setup, Page Setup or Print dialog box of their application. Clients can change printing options for their own job, but printer properties are grayed and not available for changing. When a client chooses **Print**, the job is transmitted to the Windows NT 4.0 print server, and from there to the selected queue on the DocuColor 4 LP/CP. The job is listed in the Print Manager on the client workstation, and the administrator can track it in the DocuColor 4 LP/CP window in the Print Manager on the Windows NT 4.0 print server.



4.9

Using AppleTalk with Windows NT 4.0

Windows NT 4.0 servers can also use AppleTalk for printing to the DocuColor 4 LP/CP.

When creating a printer that you are sharing with AppleTalk users, do not “capture” the printer. Capturing the printer forces all users to print to the server rather than directly to the printer. If you capture the printer, DocuColor 4 LP/CP queues will not appear in the Mac OS Chooser.

Loading the AppleTalk protocol on a Windows NT 4.0 server is different from installing TCP/IP. You must install Services for Macintosh, and install Windows NT Service Pack 3 or higher. For more information, see your Windows NT 4.0 documentation.



If your network uses AppleTalk only, you do not need to install the TCP/IP. This protocol is not required to print documents over an AppleTalk network.

Mac OS users can print directly to the DocuColor 4 LP/CP and should install the AdobePS printer driver and the DocuColor 4 LP/CP PPD. These installations are described in the *User Guide*.

For the Windows NT 4.0 server and Windows NT 4.0 clients, install the Windows NT PostScript Printer driver and the DocuColor 4 LP/CP PPD. Windows 95/98 clients should use the Adobe PostScript Printer driver supplied with the DocuColor 4 LP/CP user software.

4



Token Ring Support with DocuColor 4 LP/CP

*** Token Ring Support with DocuColor 4 LP/CP

The DocuColor 4 LP/CP supports Token Ring networks with the optional token ring adapter card;

Token Ring PCI PCBA Part# 45000052

Token Ring supports: AppleTalk, TCP/IP, and IPX networks simultaneously. Fiery WebTools, WebSpooler, and Web Downloader are also accessible from the token ring environment.

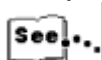
Printing types supported: IPX/SPX, SMB, TCP/IP, LPR

All configurations for the above printing methods are the same as 10/100 based networks setup, only IP subnets within their respective segments will change according to the particular LAN configurations.

4

*** Token Ring Installation

Be sure machine is turned off and power is unplugged! Also be sure to properly ground yourself, as you will be working with sensitive electrostatic equipment. Facing the front of the machine, pull off the right side panel located near the existing Ethernet port on the rear of the machine. Insert the Token Ring board, in the respective PCI slot. Secure the board with the two screws provided with the card. Close the cover, and boot the system. Go into systems setup, I/O Port Setup, and disable Ethernet, and enable Token Ring. Ethernet must be turned off, and should not run simultaneously with Token Ring. Configure token ring port speed, 4, 16, or auto detect. Proceed with your local LAN configuration setup.



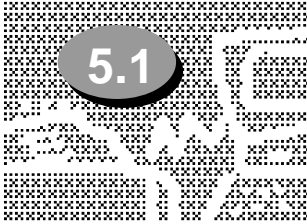
Section B.4 illustrates how to insert the Token Ring board into the PCI slot of the DocuColor 4.



About the Copier Configuration

This chapter contains information about configuring your copier.

- 5.1 Displaying or closing the Tools screen
- 5.2 Configuration settings list
- 5.3 Changing the configuration
- 5.4 Setting up, changing, or removing the user's pass code
- 5.5 Changing the pass code of the system administrator
- 5.6 Adjusting the color balance



Displaying the Tools screen

5.1 Displaying or closing the Tools screen

The Tools screen lets you change the default values of the various settings and enable/disable some functions. In order to access this screen, the pass code of the system administrator is required.



The pass code of the system administrator is set to “9999” when the machine is shipped at the factory. For security reasons, try to change the pass code as soon as possible.



The pass code can be changed at the Tools screen. See the “5.5 Changing the pass code of the system administrator” section.

5.1.1 Displaying the Tools screen

The following is the procedure for displaying the **Tools** screen.

Operation procedure

- (1) Press the **[Tools]** button.



The pass code input screen appears on the display.

- 2) Enter the pass code of the system administrator, using the numeric buttons.



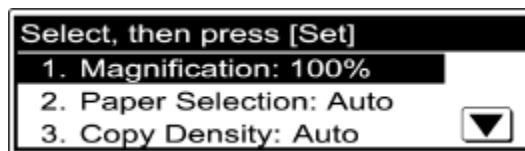
An entered number appears as an “*”. If you make a mistake while entering the pass code, press the "C" button to clear it.

5



If the pass code has been entered correctly, the Tools screen appears on the display.

Tools Screen



5.1 Displaying the Tools screen

5.1.2 Closing the Tools screen

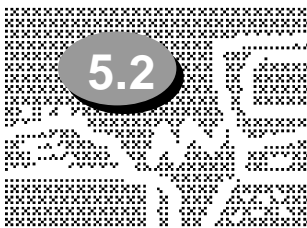
The following is the procedure for closing the **Tools** screen.

Operation procedure

(1) Press the [**Tools**] button.



The display returns to the state before the **Tools** screen.



Configuration Settings List




5.2 Configuration settings list

From the Tools screen, you can set the default value of each setting. The settings will take on their default values when the power is turned on and the machine enters the copy mode, when the save energy mode is returned, or when the [Reset] button is pressed. By setting the frequently used values as the default values, when you operate the machine you do not need to make any changes and this means faster and easier operation.





This section explains the settings that you can change from the Tools screen. See the next section to learn the basic procedure in changing a setting.





The shaded area in the following table indicates the default value of the setting when the machine is shipped at the factory.

| Setting | Description | Possible value |
|-------------------|--|--|
| 1. Reduce/Enlarge | Use this setting to specify the default zoom ratio. If the default paper tray is already set to [Auto], the default zoom ratio cannot be set to [Auto].  For detailed information, see the “5.2 Reduce/Enlarge (selecting or setting zoom ratio)” section. | 100%, Auto, 64% 78%, 129%, 154%, 200% |
| 2. Paper | Use this setting to specify the default paper tray. If the default zoom ratio is already set to [Auto%], the default paper tray cannot be set to [Auto].  For detailed information, see the “5.1 Selecting a paper tray (selecting paper)” section. | Auto, Tray1, Tray2 Tray3. |
| 3. Lighten/Darken | Use this setting to specify the default copy density.  For detailed information, see the “5.4 Adjusting the copy density” section. | Auto Dark-Normal-Light (5 increments) |
| 4. Original Type | Use this setting to specify the default color mode. | Color (Text/Photo) Color (Prnt Phto) Color (Phto) B/W (Text/Phto) B/W (Text) |

5.2 Configuration Settings List

| Setting | Description | Possible value |
|------------------------|--|--|
| 5. Doc. Size Sensing | Use this setting to specify the default unit of measurement for use in automatic detection of document size. This setting affects the document size that can be detected automatically.  For detailed information, see the "4.1 About documents" section. | mm, inch |
| 6. Job Complete Beep | Use this setting to specify whether the buzzer should sound when the copy operation is complete. | ON OFF |
| 7. Button operation | Use this setting to specify whether the buzzer should sound when a button on the control panel is pressed. | ON OFF |
| 8. User PIN | Use this setting to set up, change or remove the user's password.  For detailed information see "5.4 Setting up, Changing or Removing the user's password" section. | OFF ON (0000) |
| 9. M/C Admin PIN ... | Use this setting to set up or change the system administrator password.  For detailed information, see the "5.5 Changing the system administrator password" section. | xxxx |
| 10. Copy Modes Timeout | Use this setting to specify the time it takes to automatically switch to the standby mode (the screen that appears right after the power is turned on) after the copy operation is complete. | 1 to 120 minutes, in 1-minute increments (15 min) |
| 11. Energy Saver | Use this setting to specify the time it takes to automatically switch to the energy saver mode after the copy operation is complete or after the last operation is performed. If it is set to 0, the energy saver mode will never kick in. | 1 to 60 minutes, in 1-minute increments (15 min) |
| 12. Color Balance | Use this setting to specify the color balance for each of the following color modes (Color (Text/Photo), Color (Printed Photo), and Color (Photo on photography paper). You can adjust cyan, yellow, magenta and black individually.  For detailed information, see the "5.6 Adjusting the color balance" section. | No Set Set High Density (-3 to +3) Med Density (-3 to +3) Low Density (-3 to +3) |

5.2 Configuration Settings List

| Setting | Description | Possible value |
|---------------------|---|--|
| 13. Max. Counts | Use this setting to specify the maximum number of copies allowed in one copy operation. | 1 to 99 copies (99 sheets) |
| 14. Output Tray | Use this setting to specify the delivery tray to use. Note, however, that even if [Top (face Down Tray)] is selected, transparency sheets, thick paper and label sheets are always ejected into the face-up tray. | Top (Face Down Tray) Left (Face Up Tray) |
| 15. Version Info... | This setting indicates the version information | OFF ON |
| 16. Diag Test... | Use this setting to perform hardware self-diagnostics. | OFF ON |
| 17. Transportation | Use this setting to move the scanner module to prepare for scanner transportation. This prevents the scanner from any damage caused during the transportation. Therefore, be sure to perform this task before transporting the machine  For detailed information see section 2 of the Setup Guide. Use this setting to set up or change the system administrator password. | No Set Set High Density (-3 to +3) Med Density (-3 to +3) Low Density (-3 to +3) |
| 18. Change Language | For detailed information, see the "5.5 Changing the system administrator password" section. Use this setting to change the language from English to to French.  Language options are location dependent. | French English or another language |

This section explains the basic method for changing the configuration settings. However, the following settings use different methods and are described in the subsequent sections.

*User's pass code..... See the "5.4 Setting up, changing, or removing the user's pass code" section.

*System Administrator's pass code... See the "5.5 Changing the pass code of the system administrator" section.

* Color balance... See the "5.6 Adjusting the color balance" section.

5.3.1 Basic method for changing the configuration

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The following procedure illustrates how to change the default value of a configuration setting, using the paper tray selection as an example.

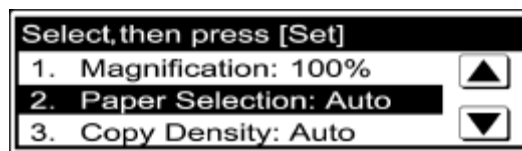
Operation procedure

(1) Select the Tools button from the copier control panel.



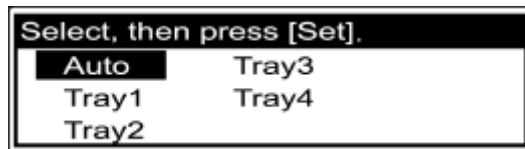
For detailed information on how to display or close the Tools screen, see the "5.1 Displaying or closing the Tools screen" section.

(2) Use the up or down button to select a setting.



(3) Press the **Select** button.

(4) At the displayed screen, use the down arrow or button (or for numbers use the numeric buttons) to select a default value for the setting.

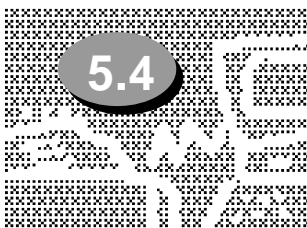


To cancel this setting and return to the initial **Tools** screen, press the [Exit] button.

(5) Press the **Select** button.

When the change is confirmed, the initial **Tools** screen returns.

(6) Press the **Tools** button to close the **Tools** screen.



Setting up, changing or removing the user's pass code

By setting a user's pass code, you can restrict user access to the machine. This section explains how to set up, change, or remove a user's pass code.

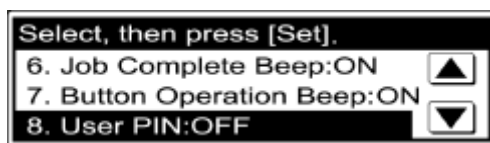
Operation procedure

- (1) Display the **Tools** screen.



For detailed information on how to display or close the **Tools** screen, see the “5.1 Displaying or closing the Tools screen” section.

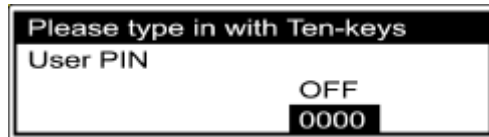
- (2) Press the  button to select **8. User PIN**.



- (3) Press the **Select** button.

5.4 Setting up, changing or removing the user's pass code

(4) At the displayed screen, press the down arrow or button to select [ON].
You can now enter a pass code using the numeric buttons.
Use the numeric keypad to enter the user PIN.



To remove the pass code registered, select OFF.



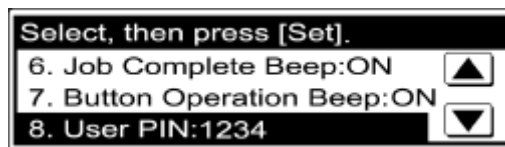
(5) Enter a pass code using the numeric buttons. (In this example, the pass code is "1234".) and press **Select**.



If you make a mistake while entering the pass code, press the "C" button to clear it.



(6) Press the **Select** button.
When the change is confirmed, the initial **Tools** screen returns.



(6) Press the **Select** button to close the **Tools** screen.

Changing the pass code of the system administrator

This section explains how to change the pass code of the system administrator.



You cannot check the pass code after it has been changed. Therefore, make sure you do not forget the pass code.




The administrator password is factory set to 9999. For security reasons, try to change the password as soon as possible.

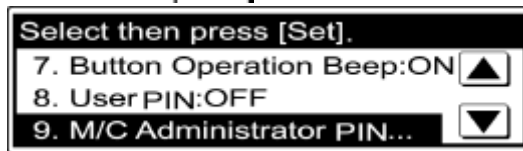
(1) Display the **Tools** screen.



For detailed information on how to display or close the Tools screen, see the “5.1 Displaying or closing the Tools screen” section.

5

(2) Press the  button to select **9. M/C Admin PIN**.



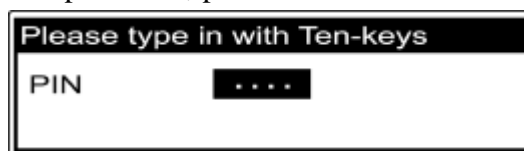
(3) Press the **Select** button.

The pass code input screen appears on the display.

(4) Enter the pass code.



An entered number appears as a “*”. If you make a mistake while entering the pass code, press the “C” button to clear it.



5.5 Changing the pass code of the system administrator

(5) At [Confirm] enter the pass code again to verify.



Pleasa type in for confirmation

| | |
|--------------|-------|
| PIN | ***** |
| Confirmation | ***** |



You cannot check the pass code after it has been changed. Therefore, make sure you do not forget the pass code.

If the pass code entered at [Confirmation] is identical to the one entered earlier, the pass code change is confirmed and the initial **Tools** screen returns.

If the pass code entered at **Confirmation** is different from the one entered earlier, the **Number mismatch, try again** message appears on the display. If this happens, go back to step (4) and enter the pass code again.

5

5.6

Adjusting the Color Balance


This section explains how to adjust the color balance by changing the mix of yellow, magenta, cyan, and black. For the [Low Density]/[Med Density]/[High Density] settings, they can be adjusted in seven increments. The following is the procedure.

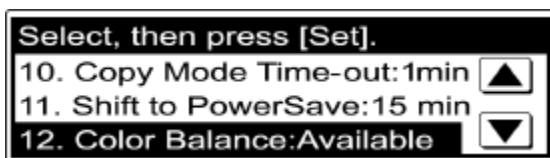
Operation procedure

(1) Display the **Tools** screen.



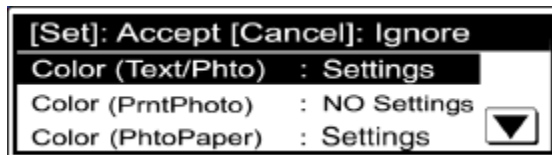
For detailed information on how to display or close the **Tools** screen, see the “5.1 Displaying or closing the Tools screen” section.

(2) Press the  button to select **12. Color Balance**.




(3) Press the **Select** button.

(4) Press the  button to select a color mode. (In this example **Color(Text/Photo)** is selected.)




(5) Press the [Select] button.

(6) Press the  button to select a color. (In this example [Magenta] is selected.)

| | | |
|---------------------------------|-------------|--------------|
| [Set]; Accept, [Cancel]; Ignore | | |
| Color (Text/Phto) | HighDensity | 0 |
| Cyan | Yellow | MedDensity 0 |
| Magenta | Black | LowDensity 0 |

(7) Press the [Select] button.

(8) Press the  button to select a density. (In this example [HighDensity] is selected.)


| | |
|-----------------------------------|---------------|
| [Set] > Accept, [Cancel] > Ignore | |
| Color (Text/Phto) | HighDensity 0 |
| Magenta | MedDensity 0 |
| | LowDensity 0 |

5

(9) Press the [Select] button.

The color of the selected density appears as a vertical bar.

(10) Use the  or  button to change the density.

| | |
|---------------------------------|---|
| [Set]; Accept, [Cancel]; Ignore | |
| Color (Text/Photo) | HighDens  +3 |
| | 0 |
| Magenta | -3 |

5.6 Adjusting the Color Balance

(11) Press the **Select** button.

When the change is confirmed, the screen in step (8) returns. If you want to change the other densities, repeat steps (8) to (11).

| | |
|---------------------------------|----------------|
| [Set]; Accept, [Cancel]; Ignore | |
| Color (Text/Phto) | HighDensity +1 |
| Magenta | MedDensity 0 |
| | LowDensity 0 |

(12) When a color is set, press the **Exit** button.

The previous level (the screen in step (6)) returns. If you want to change the other colors, repeat steps (6) to (11).

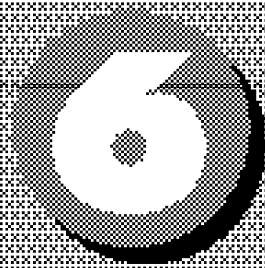
| | | |
|---------------------------------|-------------|--------------|
| [Set]; Accept, [Cancel]; Ignore | | |
| Color (Text/Phto) | HighDensity | 0 |
| Cyan | Yellow | MedDensity 0 |
| Magenta | Black | LowDensity 0 |

5

When adjusting the color balance, you can press the **Exit** button to return to the previous level. However, once you press the **Select** button, the change is confirmed and therefore pressing the **Exit** button cannot return the setting to its original value.

(13) When all the changes are complete, press the **Exit** button twice to return to the initial Tools screen.

(14) Press the **Tools** button to close the **Tools** screen.



Administering the printer/ copier

This chapter gives tips on managing DocuColor 4 CP printing and copying, and includes some troubleshooting hints.

Administration features are provided in the user software package and are built into the DocuColor 4 LP/CP itself. The following table tells you where to find information on these features. Page references may be found in 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 DocuColor 4 LP/CP | Connecting the DocuColor 4 LP/CP and performing DocuColor 4 LP/CP Setup from the Control Panel and from WebSetup. | This manual, <i>Setup Guide</i> |
| Setting up the printing environment | Setting printer/copier defaults, including Password, Start Page, Page Description Language, and error handling. | This manual. Printer Setup, <i>page 22</i> PS Setup, <i>page 27</i> , and PCL setup <i>page 28</i> |
| Setting up the job environment | Publishing the Printed queue. | Printer Setup <i>page 22</i> |
| Setting up the copy environment | Setting copy defaults, password | See section 5 |
| Protecting integrity of users' jobs, modifying printer/copier Setup | Setting the Administrator password. | Change Password <i>page 108</i> Changing the copy admin password, section 5 |
| Setting up all new users | Setting up printing, including installing PostScript and PCL printer/copier drivers, PPD and PDD files for the printer/copier. Installing optional user software. Installing color reference pages (CMYK reference pages, PANTONE reference pages). | <i>User Guide</i> |
| Getting users started with printing | Setting up copying printing to the DocuColor 4 LP/CP. Setting job-specific options. | This manual, a n d <i>User Guide</i> |
| Controlling the job flow | Using Fiery WebTools for managing, tracking current jobs, canceling jobs, printing jobs in the Hold queue, reprinting from the Printed or Hold queue. | <i>User Guide</i> |

| For these operations: | And these tasks: | See: |
|---|--|--|
| Job accounting | Viewing, printing, and exporting and deleting the Job Log. | <i>User Guide</i> |
| Calibration and color management | Calibrating the DocuColor 4 LP/CP. Printing color reference pages. Installing the monitor settings file. | This manual, and the <i>User Guide</i> |
| Maintaining optimum DocuColor 4 LP/CP performance | Tips Deleting jobs, clearing queues. | <i>page 116, and User Guide</i> |
| Troubleshooting | Troubleshooting DocuColor 4 LP/CP Setup. Printing, printer/copier, and user software troubleshooting. | <i>page 117, see also the User Guide</i> |

Maintaining optimal DocuColor 4 LP/CP performance

The DocuColor 4 LP/CP does not require maintenance. Beyond the obvious requirements of servicing and maintaining the printer/copier and replenishing consumables, there are a few things you can do that will improve the overall performance of your system:

- Make the best use of your network connections

Publish only connections that will be used; the DocuColor 4 LP/CP 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.

- Reduce the number of printed pages by electing not to print a cover page by default unless you need cover pages for record keeping

Printing cover pages by default is a Printer Setup option.

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

Recurring print jobs or jobs that are not urgent can be printed to the Hold queue. At low-traffic times, the administrator can move (or copy) all the Hold queue jobs to the Print queue for printing.

- Reduce unnecessary two-way communication

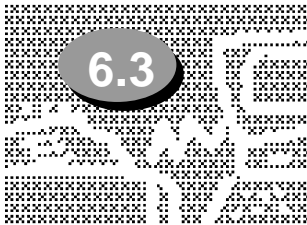
Large numbers of remote users running Fiery WebTools from remote workstations, especially with frequent updates, may have a significant effect on DocuColor 4 LP/CP performance.

- Make sure you have adequate disk space on the DocuColor 4 LP/CP

If your printer/copier has a hard disk drive, 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 and Hold queues. Consider printing or offloading inactive jobs. If disk space on the DocuColor 4 LP/CP is frequently low, you can disable the Printed queue (in Server Setup).

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



Troubleshooting the printer/copier

Contact your authorized service/support center if you see any startup error messages on the DocuColor 4 LP/CP Control Panel, or if the DocuColor 4 LP/CP does not reach Ready status.

6.3.1 Troubleshooting during Setup from the Control Panel

The following section explains some error and alert messages that you may see during DocuColor 4 LP/CP Setup that might not be self-explanatory.

Network Setup messages

| After this Setup screen: | This message: | Means: |
|---|---------------------------------------|---|
| Enable AppleTalk (Network Protocol Setup > AppleTalk Setup) | No AppleTalk zone found. | The Ethernet network cable is not attached to the connector on the DocuColor 4 LP/CP, 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 DocuColor 4 LP/CP, you must connect the network cable to the DocuColor 4 LP/CP before performing AppleTalk Setup. Also could mean that the AppleTalk network doesn't have zones. Zones are not required for printing to the DocuColor 4 LP/CP. Press OK to continue. |
| Protocol Setup or Service Setup (Network Setup) | You must first enable a network port. | Enable Ethernet in Port Setup before beginning Protocol Setup or Service Setup. |
| Frame Type selection (Network Protocol Setup > IPX > SPX Setup) | Invalid frame size. | The network hub is not connected to a Novell machine when the DocuColor 4 LP/CP 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 DocuColor 4 LP/CP tries to bind. When this occurs, the network number defaults to zero. |
| Enable NDS (Network Service Setup > PServer Setup > NDS Setup) | No NDS trees found. | No NDS trees were found on the Novell network. Check to see that the frame types on the DocuColor 4 LP/CP are properly configured. |

6.3 Troubleshooting the printer/copier

| After this Setup screen: | This message: | Means: |
|--|---|--|
| Select NDS Tree (Network Service Setup > PServer Setup > NDS Setup) | Warning Selecting a new NDS tree deletes Bindery setup. | You have previously connected the DocuColor 4 LP/CP to a different NDS tree. NetWise supports only a single NDS tree connection. To avoid a potential conflict with an existing tree connection (for example, if the connection was made through a NetWare 4.x server in emulation mode), all bindery settings will be deleted. If you choose OK , and choose YES in the following message screen (Delete Bindery setup and continue?), bindery settings are deleted and have to be re-entered in Bindery Setup. To avoid deleting the bindery settings press the Menu key, or select OK and choose NO in the following message screen (Delete Bindery setup and continue?). Repeat NDS Setup without changing the NDS tree, or exit to Bindery Setup to review your current bindery settings. |
| Navigating NDS tree (Network Service Setup > PServer Setup > NDS Setup > PServer Setup > NDS Setup) | ___ is empty. | The chosen container contains no subcontainers or objects relevant to the current mode of navigation. |
| Bindery Setup (Network Service Setup > PServer Setup > Bindery Setup) | If you also plan to use NDS, set up NDS before Bindery. | No NDS settings are present. You are reminded to perform NDS Setup before Bindery Setup in case your network includes both NDS and bindery servers. |
| Select File Server From List (Network Service Setup > PServer Setup > Bindery Setup) | Error. Cannot open bindery connection to NDS server. | Select this server through NDS setup or disable NDS and select it through bindery. |
| Select File Server From List (Network Service Setup > PServer Setup > Bindery Setup) | No NetWare file server found. | No file server was found when DocuColor 4 LP/CP 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. |

| After this Setup screen: | This message: | Means: |
|---|---|---|
| Enter First Letters of Server Name (Network Service Setup > PServer Setup > Bindery Setup) | File server name not found. Try again? | No file server with those letters was found when DocuColor 4 LP/CP queried the network. Check the name of the NetWare file server, check cable connections, and make sure the NetWare server is turned on. |
| View Server List, Edit Connection (Network Service Setup > PServer Setup > Bindery Setup) | No file server is selected. | No file server has been added in Bindery Setup. |
| Add File Server (Network Service Setup > PServer Setup > Bindery Setup) | All connections used. Remove server? | You have added the maximum number of bindery servers, which is eight. You now have the option of disconnecting one of those servers, so as to add another. |
| Add Server, Enter Your Login Name, Enter Your File Server Password (Network Service Setup > PServer Setup > Bindery Setup) | No NetWare print server found. | No print server was found when DocuColor 4 LP/CP queried the file server you selected. You must configure a print server and a print queue for every NetWare file server that will handle DocuColor 4 LP/CP print jobs (see <i>page 78</i>). |
| Any Bindery Setup screen | Novell error code, followed by a message. | Novell NetWare has reported an error. The printer Control Panel reports the error number and displays a brief message. For the most common errors (listed in the following table), a screen is displayed that enables you to retry the action that evoked the error, such as adding a server. If that is not possible, you are prompted to notify the Novell administrator, who will need to troubleshoot the network. Consult NetWare Administrator documentation for further explanation of Novell error codes. |

In Network Setup, when you are configuring your IPX (Novell) connection, the DocuColor 4 LP/CP queries the network for Novell file servers and trees, and attaches to them temporarily. If a guest login is enabled, it will be used. If not, you'll be prompted to log in from the DocuColor 4 LP/CP printer Control Panel.

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

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

For any Novell error, make sure:

- Your IPX (Novell) network is connected to the DocuColor 4 LP/CP.
- 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 DocuColor 4 LP/CP.
- You have the appropriate permissions and login information, including username and password, if necessary.
- The DocuColor 4 LP/CP is configured with the correct frame types for communication with the desired Novell servers.

Novell error screens

| Novell error: | Cause: | Suggested action or exit: |
|--|---|---|
| 220 Guest account not available | The guest account, which you have chosen for initial login, has expired or has been disabled by the NetWare supervisor. | Enable a guest account on the NetWare server for the purpose of setup. Alternatively, log in to a different account. In the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or another valid login name. When you are prompted for a password, enter the correct password for the account you named. |
| 222 Unable to log in to server. Password has expired for login name | The server has connected to a file server, but is unable to log in to the file server or print server because the password has expired for the login account name or the named print server. | Select a different login account or print server. The error screen exits to the File Server Login screen (if login to file server failed) or NetWare Print Server screen (if login to Print Server failed). Pressing the Menu button returns to the PServer Setup screen. |
| 252 Unable to log in to server. Login does not exist. | The server has connected to a file server, but is unable to log in to the server because the selected login account does not exist on the file server. | Select a different login account. The error screen exits to the File Server Login screen. Pressing the Menu button returns to the PServer Setup screen. |
| 255 Unable to connect to file server. File server is down or out of connections. | The Novell file server is down or out of connections. This error occurs while the server is trying to connect to the requested file server. | Select a different file server (or try to get someone else to log off). Pressing the Menu button returns to the PServer Setup screen. |
| nnn Notify IPX (Novell) Administrator. | Indicates other network errors when the DocuColor 4 LP/CP is already connected to a file server. Something unexpected has happened and the user generally cannot recover without intervention of the network administrator. Error # indicates that you have exceeded the number of login attempts permitted for this account on the NetWare file server. | Error # usually indicates a hard failure. Notify the Novell administrator and report the error number. The error screen exits to the PServer Setup screen. |

6.3.2 When an error message appears

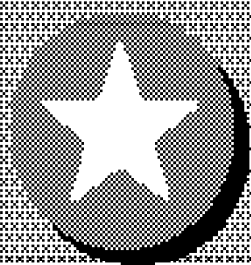
When an error appears, the printer/copier will notify the user that an error has occurred using the display, error LED, and alarm.



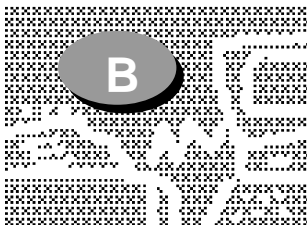
To solve the problem, refer to the Setup Guide “3.2 Error Messages”



When the number of characters in an error message exceeds the number of characters on the display, the screen will change in 3 second intervals in order to display the entire message.



Appendices



Available Options

The following upgrade options are available for the Xerox DocuColor 4 LP/CP from your local Xerox reseller.

B.1 Upgrade options

- Token Ring PWBA



See Section B.4 for Token Ring Installation.



See section 4.10 for Token Ring installation.

- 32MB or 64MB RAM DIMMs

Two DIMM slots for additional memory are available on the video controller board. Each slot can support a 32MB or 64MB RAM DIMM.

The following instructions describe how to install the options listed above in the Xerox DocuColor 4 LP/CP.



An Option Feeder for high volume printing and an A3 Oversize tray are also available for the Xerox DocuColor 4 LP/CP. For more information see Setup Guide "A.1 Introduction to Options".

A

*** Accessing the video controller board

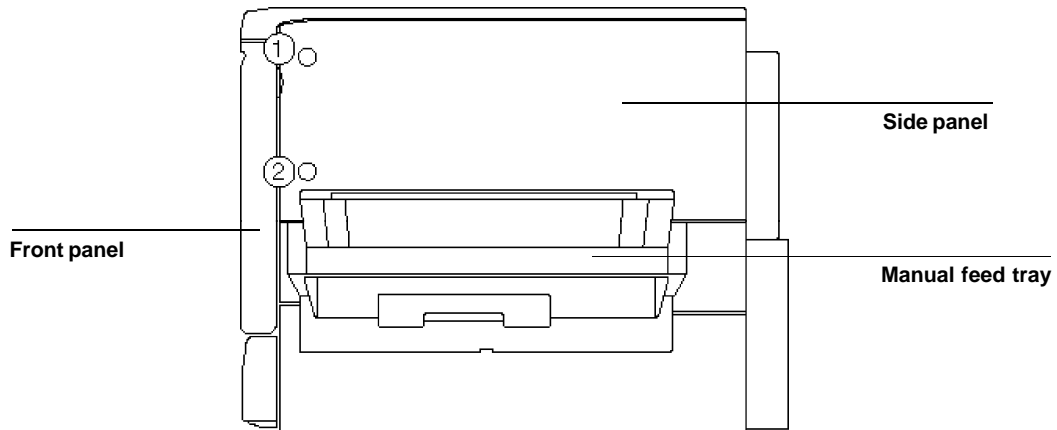
You must access the video controller board in the DocuColor 4 LP/CP in order to install or replace the hard disk or add or replace DIMMs.

To access the video controller board:

- 1 Turn the printer/copier OFF, unplug the power cord and disconnect any cables connected to the connectors on the back of the printer/copier.
- 2 Open the front panel and pull out the manual feed tray.

B Available Options

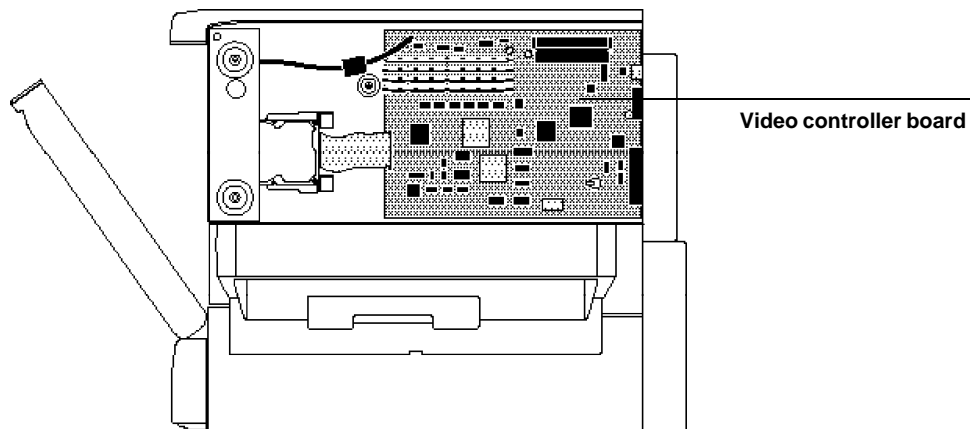
- 3 Remove the two screw covers and screws (1 and 2) that secure the side panel to the printer/copier.



- 4 Carefully slide the side panel off the printer/copier.

Be careful not to damage the clips on the panel that attach to the connector plate on the back of the DocuColor 4 LP/CP.

The the video controller board is now accessible.



For instructions on installing printer/copier options see:

- Installing a hard disk drive on *page 127*
- Installing additional memory on *page 129*

To reassemble the DocuColor 4 LP/CP:

- ❶ Align the side panel clips with the holes in the connector bracket on the back of the DocuColor 4 LP/CP. Close the side panel.
- ❷ Replace the two screws on the side panel, then replace the two screw covers.
- ❸ Close the front panel and manual feed tray.
- ❹ Plug in the power cord and reconnect any cables to the back of the printer/copier.

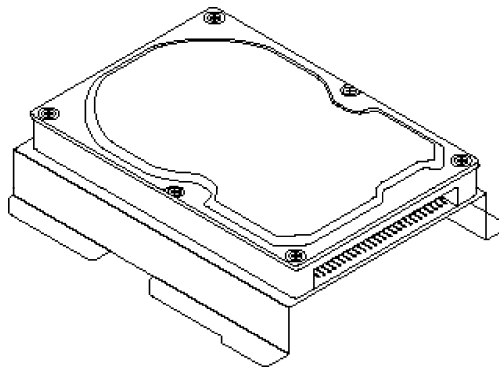
B.2 Installing a hard disk drive

The following section explains how to install the hard disk drive for the DocuColor 4 LP/CP video controller board. It also describes how to initialize the new hard disk drive for use from the printer's front panel.

To install the hard disk drive you will need to access the video controller board, install the drive and then reassemble the DocuColor 4 LP/CP.

*** Kit contents

- Hard disk drive



- Hard disk bracket (attached to the hard disk drive)
- Hard disk drive ribbon cable



To avoid electric shock ensure your hands are dry before touching the printer's power plug.

⚠⚠⚠ Caution notes

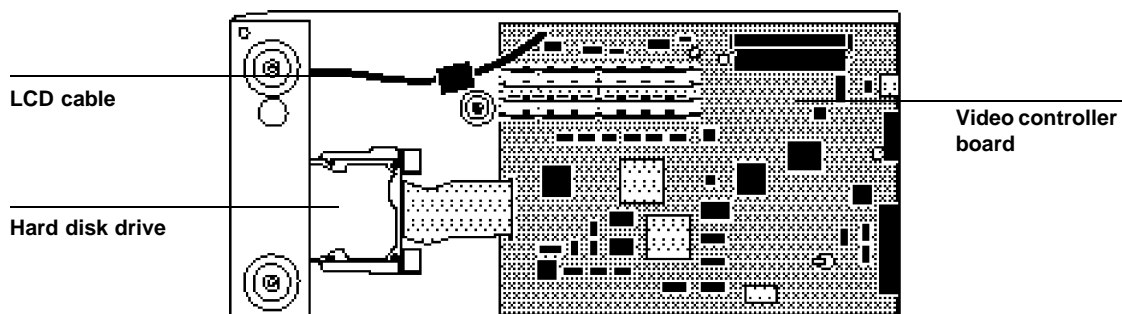
- Do not drop or bend the hard disk drive.
- Do not touch the hard disk drive connector.
- Protect the hard disk drive from static electricity by keeping it in its anti-static package until you are ready to install it.
- Avoid exposing the hard disk drive to direct sunlight, high temperatures, or humidity.

To install a new hard disk drive:

- ➊ Access the video controller board as described on *page 125*.
- ➋ Unpack the new hard disk drive. Place it on a flat surface or on the palm of your hand.

Do not touch the drive with magnetic objects or place objects sensitive to magnets near the drive.
- ➌ Attach the hard disk drive ribbon cable to the connector on the hard disk drive.
- ➍ Slide the bracket (with the hard disk drive attached) into the clips (1 and 2) next to the video controller board.

Move the LCD cable aside for more room.



-
- 5 Connect the ribbon cable to the connector J15 (3) on the video controller board.
 - 6 Reassemble the DocuColor 4 LP/CP as described on *page 127*.

*** Initializing the hard disk

After you install the hard disk and power on the printer/copier, you may be prompted to initialize the new hard disk. If so, follow the directions below:

- At the **PRESS ENTER TO INITIALIZE DISK** screen, press the **Enter button** to initialize the disk.

The standard boot up process will continue.

B.3 Installing additional memory

The following section explains how to install a 32MB or 64MB RAM (random access memory) DIMM (dual in-line memory module) on the DocuColor 4 LP/CP video controller board.

To install the RAM DIMM (illustrated below) you will need to do the following:

- Access the video controller board.
- Replace the printer's 64MB RAM DIMM with a 32MB or 64MB RAM DIMM, or install a 32MB or 64MB RAM DIMM in either of the two empty RAM slots on the video controller board.
- Reassemble the DocuColor 4 LP/CP.

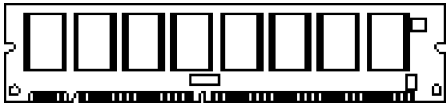
Important:

To avoid electric shock ensure your hands are dry before touching the printer's power plug.

A

Kit contents

- RAM DIMM



Caution notes

- Do not drop or bend the RAM DIMM.
- Do not touch the connector edge of the RAM DIMM.
- Protect the RAM DIMM from static electricity by keeping it in its anti-static package until you are ready to install it.
- Avoid exposing the RAM DIMM to direct sunlight, high temperatures, or humidity.

Installing RAM DIMMs

The DocuColor 4 LP video controller board ships with the following memory configuration:

- The DIMM slot numbered J23 is reserved for the printer’s system software ROM DIMM.
- The DIMM slot numbered J25 contains a 64MB RAM DIMM.
- The remaining two slots, J22 and J24 are empty and can be used to install additional memory.

| | |
|--|---------------------|
| | J22 - Empty |
| | J23 - ROM DIMM |
| | J24 - Empty |
| | J25 - 64MB RAM DIMM |

Additional RAM DIMMs may be purchased for your printer/copier in 32 or 64MB configurations, allowing your printer/copier a maximum memory configuration of 192MB.

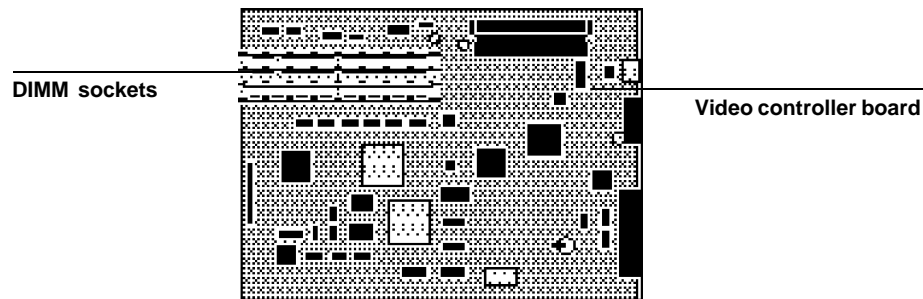


The DocuColor 4 CP slots are empty and any of them can be used to install additional memory

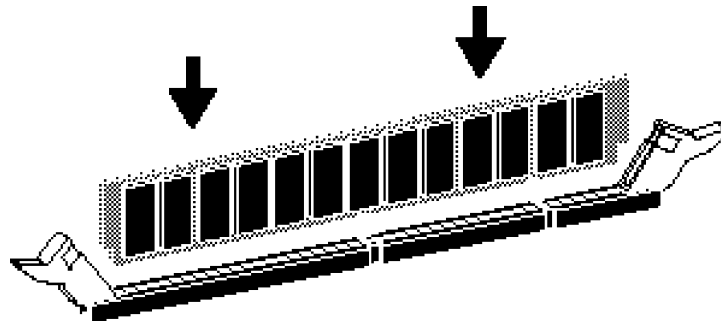


To install A RAM DIMM:

- ❶ Open the DocuColor 4 LP/CP to access the video controller board as described on *page 125*.



- ❷ Unpack the RAM DIMM(s).
Do not touch the connector edge on the RAM DIMM.
- ❸ If you are replacing a RAM DIMM, unlatch the socket on the side levers of the RAM DIMM you are replacing and carefully slide it out of the socket.

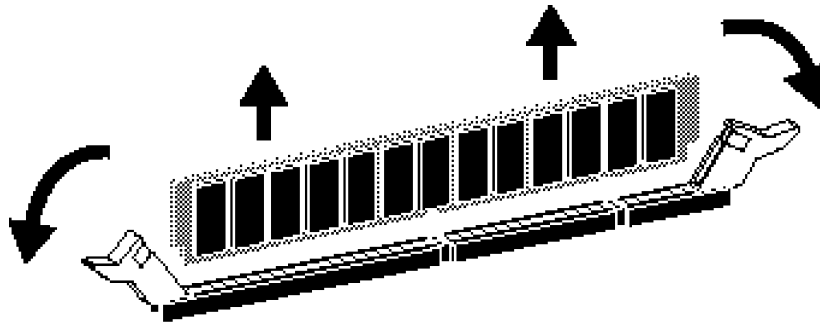


- ❹ Ensure that the notches on the RAM DIMM are aligned inside the empty socket.

A

B Available Options

-
- ⑤ Slide the RAM DIMM into the empty socket and push the DIMM into the socket until the levers snap into place.

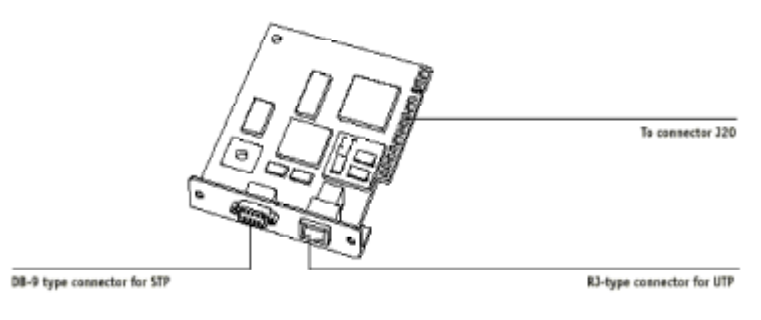


- ⑥ Reassemble the DocuColor 4 LP/CP.

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B.4 Installing a Token Ring Network Card

The following section explains how to install a Token Ring network card on the DocuColor 4 VP video controller board.



To install the Token Ring board you will need to:

- Access the video controller board.
- Install the Token Ring board.
- Reassemble the printer.
- Configure the printer's network Setup.

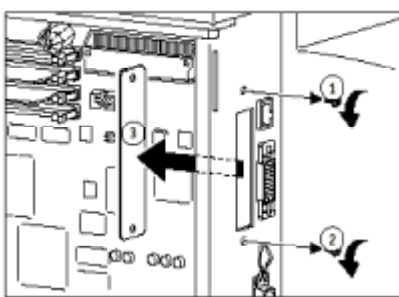
Caution

- Do not drop or bend the Token Ring board.
- Do not touch the connector edge of the Token Ring board.
- Protect the Token Ring board from static electricity by keeping it in its anti-static package until you are ready to install it.
- Avoid exposing the Token Ring board to direct sunlight, high temperatures, or humidity.

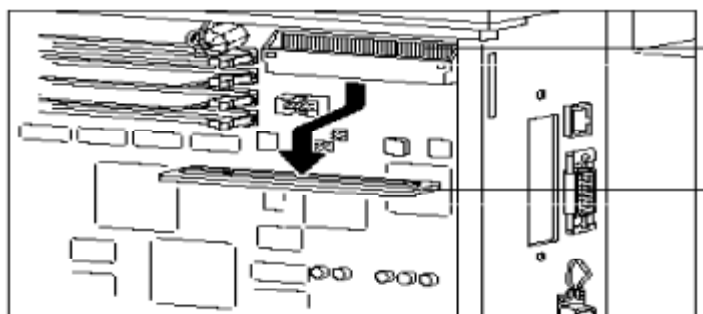
A

To Install the Token Ring board:

- ❶ Access the video controller board.
- ❸ Remove the two screws (1 and 2) that secure the slot cover (3) to the faceplate of the printer.



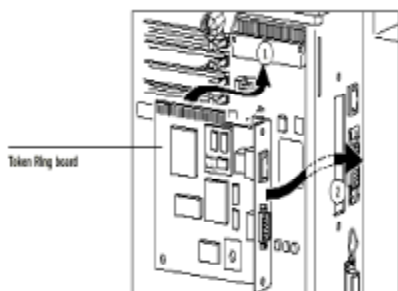
- ❹ Remove the plastic connector cover from connector J20.



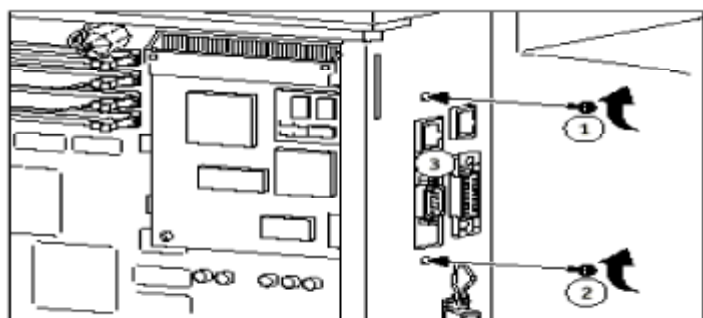
A

-
- 4** Unpack the Token Ring board and insert the Token Ring board into connector J20.

Slide the Token Ring board straight up into the connector (1) and make sure that the external connectors fit through the faceplate of the printer (2). The Token Ring board connector is keyed to fit only one way when properly oriented.



- 5** Insert the screws (1 and 2) you removed from the slot cover to secure the Token Ring board (3) to the faceplate.



- 6** Reassemble the DocuColor 4 CP as described on page 127.

A

B.5 Performing Setup for Token Ring from the Control Panel

TOKEN RING

ON/OFF [ON]

Select ON to enable Token Ring network communication. Token Ring options only appear if an optional Token Ring card is installed.

TOKEN RING SPEED

AUTO DETECT/4 MBPS/16 MBPS [AUTO DETECT]

Select AUTO DETECT to automatically detect the speed at which data can be transferred over the Token Ring network, or optionally specify the speed of your Token Ring network.

MAX. FRAME SIZE

0.5K/1K/2K/4K [4K]

Use the arrow buttons to select a maximum frame size for Token Ring communication.

The Token Ring frame size must be no greater than the frame size used by any router or Novell file server on the network.

SOURCE ROUTING

ON/OFF [OFF]

Select ON to allow the packet to travel to its destination through routers on the network. The packet's source dictates the route that the packet will take.

REQ ALL ROUTE

ON/OFF [ON]

If source routing is enabled, select ON to allow all routers on the network to broadcast the presence of the printer, enabling packets from clients on the network to travel to the printer by any route.

RESP ALL ROUTE

ON/OFF [OFF]

If source routing is enabled and REQ ALL ROUTE is set to OFF, select ON to allow all routers on the network to broadcast the presence of clients to the printer; limits packets from clients on the network to travel to the printer to a specific route.





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