

**Xerox Document Centre
440/432/425
System Administration Guide**

650S33300

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Changes are periodically made to this document. Changes, technical inaccuracies, and typographical errors will be corrected in subsequent editions.

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1 *About This Guide*

Welcome to the Xerox family of *Document Centre* products. This *System Administration Guide* provides detailed information, technical specifications and procedural steps when using the integrated features of the machine.

Xerox Welcome Centre

If after product installation further assistance is required, please call our experts on the Xerox Welcome Centre telephone number. When telephoning, please quote the machine serial number, which may be written in the space below. The serial number is located behind the left hand front cover, as shown:

Serial number:



The Xerox Welcome Centre telephone number is provided at the time of product installation. For convenience and future reference, please record the telephone number in the space below:

Welcome Centre Telephone Number:

Also, keep a record of any error messages. This information can help problems to be resolved quickly.

Requirements

This guide assumes that the DC440/432/425 has been purchased with the integrated network interface, or has been upgraded with the network upgrade kit. The requirements needed for connection and set up include:

- The Xerox CentreWare Network Services CD ROM.
- The Xerox CentreWare Print & Fax Services CD ROM.
- A workstation with the operating system software installed and connected to the same network as the DC440/432/425.
- A thorough knowledge of the network configuration.
- Cabling to connect the DC440/432/425 to the network.

NOTE: The System Administrator may also need additional information from documentation provided by network and client workstation vendors. Please contact the local Xerox Welcome Centre for information on any configurations that are not discussed in this guide.

Conventions

Bracket text typeface

The **[Bracket Text]** typeface is used to emphasise the selection of a feature mode or button. For example:

- Select **[Image Quality]**.
- Apply the new settings.
- Select **[Save]**.

Bold Typeface

Bold type is used for options that appear on menus. Bold items with brackets represent options selectable at the DC440/432/425 Control Panel or at the workstation. For example:

1. Select the **[Access]** button on the DC440/432/425 Control Panel.

Courier Typeface

When instructed to enter text, the text is shown in the *Courier* typeface, as in the example below:

1. Type the following at the prompt:
a:\setup

Italic Typeface

The *Italic* typeface is used to indicate references to other chapters and publications. For example:

Refer to the User Guide for instructions on how to make copies.

Notes

Notes are statements that provide additional information. For example:

NOTE: If the *DC 440/432/425* does not include the Finisher and/or High Capacity Feeder, ignore the first step.

Hints

Hints help users perform a task. For example:



HINT: Select the X / Y display areas to display a pop up keypad which can be used to enter and save the values.

Cautions

Cautions are statements that suggest *mechanical* damage as a result of an action. For example:

CAUTION: When cleaning the *DC 440/432/425*, do not use organic solvents or aerosol cleaners.

Warnings

Warnings are statements that alert users to the possibility of *personal* damage. For example:

WARNING: This equipment must be connected to an earthed mains socket outlet.

Related Information Sources

The following additional sources of information are available for the Document Centre 440/432/425:

- The Document Centre 440/432/425 User Guide
- The Quick Install Cards
- The On-line Help systems
- The Xerox CentreWare Customer Documentation

2 *Product Overview*

Introduction

This chapter gives an overview of the *DC440/432/425* features and functions and enables familiarity with the device prior to network installation. The following information is provided:

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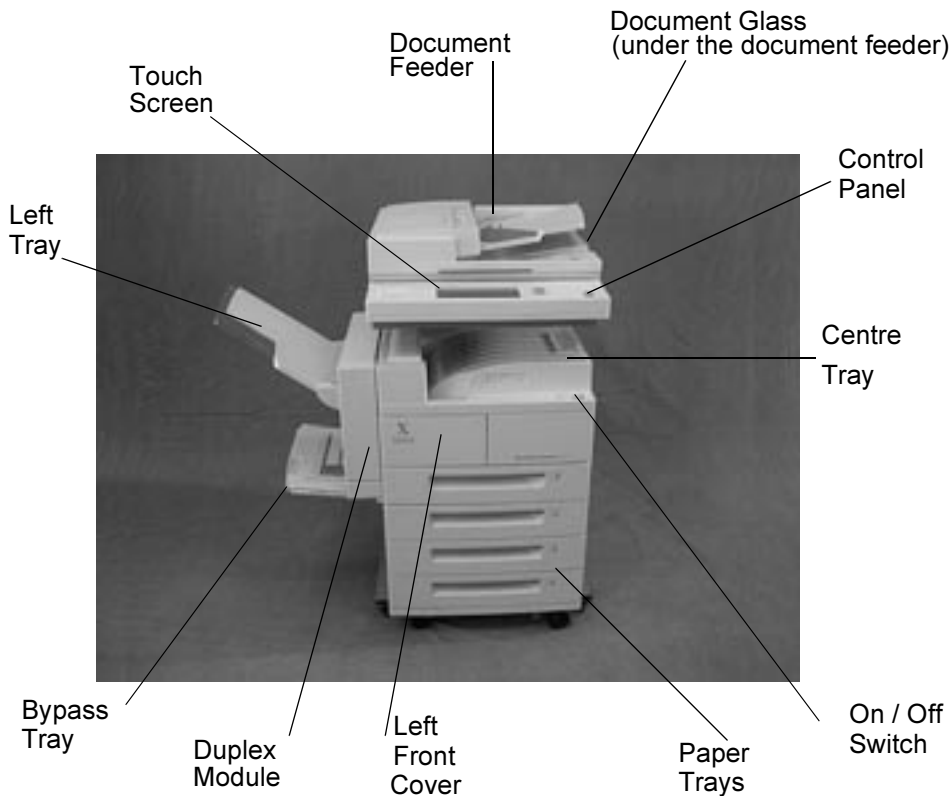
Identifying the Device Components

The *Document Centre 440/432/425* is not simply a conventional copier. It is a digital device capable of being used for copying, faxing, printing and scanning.

The following illustrations show the standard components for each device available. There are also a number of optional components available.

For more information about the Document Centre 440/432/425 configurations and optional components please refer to the User Guide.

Document Centre 440/432/425



Power On/Off

Powering On

Ensure that the DC440/432/425 is connected to a suitable power supply and that the power cord is fully plugged in to the electrical outlet.

For detailed technical information, refer to the User Guide.

The DC440/432/425 takes approximately 3½ minutes to power ON and complete a self test.

The power switch is located on the top of the printer on the right hand side.

- Locate the ON / OFF switch.
- Switch the device to the ON position.



The DC440/432/425 digital copier will take approximately 55 seconds to power ON.

Powering Off

When powering off the *DC440/432/425* remains on for approximately 15 seconds before power is terminated. The device is storing files and preparing for the shutdown.

CAUTION: Failure to leave at least 20 seconds between repeated power off /on can result in damage to the *DC440/432/425* hard drive.

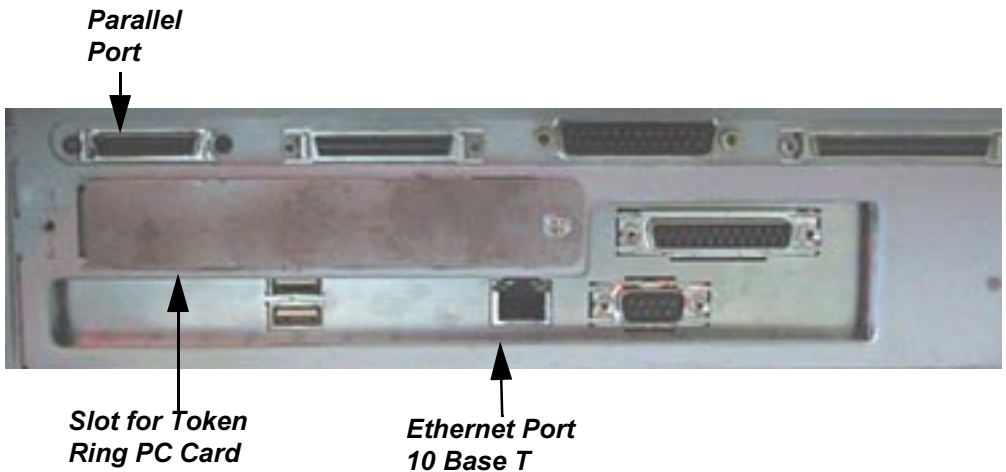
Cabling

Interface Ports

As shown in the graphic below, the device has multiple interface port options.



Rear view



Ethernet

The device is shipped ready to install with:

- 10BaseT Unshielded Twisted Pair (RJ45)
- 10Base5 (Thicknet). A patch cable and a transceiver are need to make this connection.
- 10Base2 (Thinnet). A patch cable and a transceiver are needed to make this connection.

CAUTION: Do not connect the device to the network until instructed to do so during the installation procedure.

Token Ring

Token Ring can be implemented via NetWare, Microsoft Networking or TCP/IP.

Refer to the Token Ring chapter of this guide for installation procedures.

NOTE: A working Token Ring network is required in order to proceed with the installation.

Xerox will provide the appropriate Token Ring card for the network configuration.

Parallel Port

The parallel port connection is made via a mini-centronics connector/adaptor and an IEEE compatible parallel cable that is directly connected to the PC printer port. With this configuration, there are no network RPRINTER or PSERVER capabilities or options.

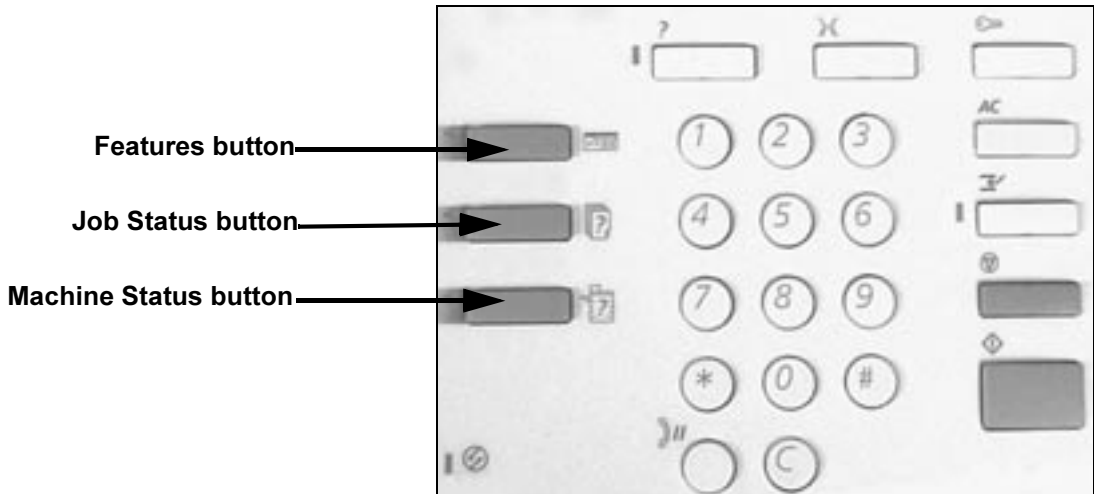
Modes

There are three modes available on the machine:

- *Features*
- *Job Status*
- *Machine Status.*

The mode buttons access the screens which enable users to programme features, monitor the status of jobs on the machine and obtain general information about the DC440/432/425.

NOTE: The features available will depend on the machine configuration.



Features button

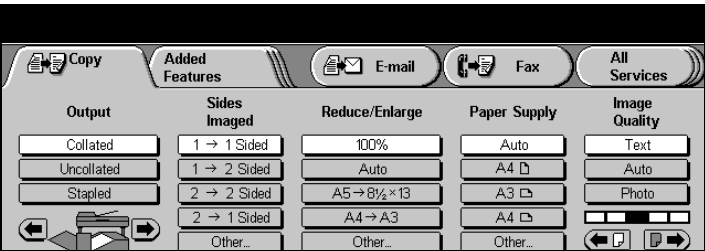


Select this button to access the feature screens. Each “screen” is accessed by a tab. The first screen for each tabbed feature contains all the basic settings required for each feature. For example, the first *Copy* screen enables programming to make a copy and the first *Fax* screen to send a fax. The additional screens provide settings to allow more detailed programming selections.

Document Centre 440/432/425 machines connected to the network are able to support two types of walk up fax - Embedded Fax or Server Fax. Both fax services can be installed on the machine BUT only one can be enabled at any one time. Whichever service is enabled, the *Fax* feature tab will be available for selection.

- Select **[Features]** on the control panel to display the default screen.

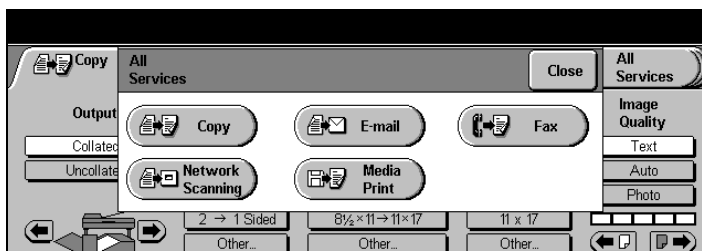
NOTE: The first Copy screen is normally the default setting. This can be changed by the Key Operator.



All Services

The *All Services* button will be available for selection when the touch screen is not able to display the feature buttons for all the installed services.

- Select **[All Services]**. The pop-up window will be displayed.
- Select the Feature option required or select **[Close]** to cancel.

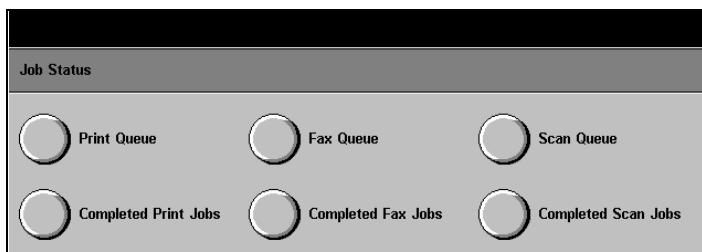


Job Status button



Use *Job Status* to check on the progress of a job and if necessary to change its position in a queue.

- Select **[Job Status]** on the control panel.
- The *Print Queue* is the default setting and will be automatically displayed.
- Select **[Other Queues]** to display the queues available.



NOTE: The queues available are dependent on the machine configuration.

- | | |
|-----------------------------------|--|
| Print Queue | Maintains pending and active jobs that are to be printed. These include copy jobs, network print jobs, fax print jobs and report jobs. |
| Completed Print Jobs Queue | Maintains all print jobs that have been successfully completed, cancelled by a user or cancelled due to a fault. |
| Fax Queue | Maintains all pending Embedded Fax transmission jobs including send, broadcast send, poll, multi-poll and any current active Embedded Fax jobs. This queue will also include all Fax |

scan jobs for delayed Embedded Fax jobs including send, MailBox and polling reservation. Only outgoing Server Fax jobs will be displayed in this queue.

Completed Fax Jobs Queue Maintains all Embedded Fax jobs that have been successfully completed, cancelled by a user or cancelled due to a fault. Certain failed fax jobs will be maintained in the machine memory and available for re-submission. Inbound Server Fax jobs do not appear in the queue.

Scan Queue Maintains all active and pending Network Scanning and E-mail jobs.

Completed Scan Jobs Queue Maintains all Network Scanning and E-mail jobs that have been successfully completed, cancelled by a user or cancelled due a fault.

Machine Status button



Displays information about the *DC440/432/425*. Select this button to confirm the paper supply, review the status of faults and find information required for service calls.

NOTE: Machine Status cannot be accessed during a system fault, when the confirmation window is displayed, or when the Key Operator Tools is accessed on the touch screen.

- Select **[Machine Status]** button to access the features available.
- To exit **[Machine Status]**, select **[Job Status]** or **[Features]** at any time.

| Machine Information | Paper Supply Status | Faults | Reports & Counters |
|---|---------------------|---------------------------------|--------------------|
| <u>Customer Support Number</u> | | <u>Software Revision Levels</u> | |
| <u>Machine Serial Number</u> 213371595 | | UI: S3.23R | G3M0: FX0534 |
| | | DC Sys: XCE245 | G3Mt: FX0534 |
| | | MF Sys: RX0114 | HCF: Not Installed |
| | | IIT Sys: XC1306 | DSS: Not Installed |
| | | ESS: S3_8_1s | Boot: 0.7.0 |







Machine Information

Displays the Customer Support Number, Machine Serial Number, and Software levels.

| Machine Information | Paper Supply Status | Faults | Reports & Counters |
|--------------------------------|---------------------|---------------------------------|---------------------------|
| <u>Customer Support Number</u> | | <u>Software Revision Levels</u> | |
| <u>Machine Serial Number</u> | | UI: | S3.23R G3MD: FX0534 |
| 213371595 | | DC Sys: | XCE245 G3Mt: FX0534 |
| | | MF Sys: | RX0114 HCF: Not Installed |
| | | IIT Sys: | XC1306 DSS: Not Installed |
| | | ESS: | S3_8_1s Boot: 0.7.0 |

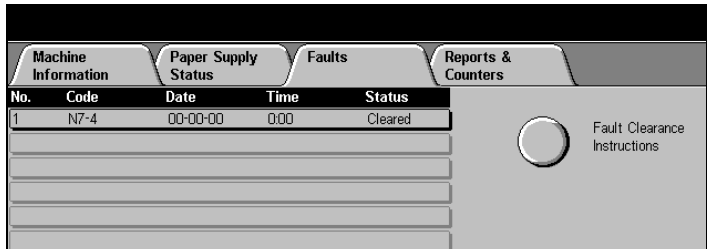
Paper Supply Status

Displays the status of each paper tray, the bypass tray, and the optional high capacity feeder. It also displays the size, type, and colour of the media in each tray and whether or not embedded fax printing is enabled for each tray (if embedded fax is installed). The Key Operator sets the defaults and enables specific paper for printing fax documents.

| Machine Information | | Paper Supply Status | Faults | Reports & Counters |
|---------------------|--------|--|----------|--------------------|
| Tray | Status | Size | Type | Colour |
| 1 | Ready | A3  | Standard | White |
| 2 | Ready | A4  | Standard | White |
| 3 | Ready | A4  | Standard | White |
| 4 | Empty | A4  | Standard | White |
| Bypass | Empty | A4  | Standard | White |
| High Capacity | Ready | A4  | Standard | White |

Faults

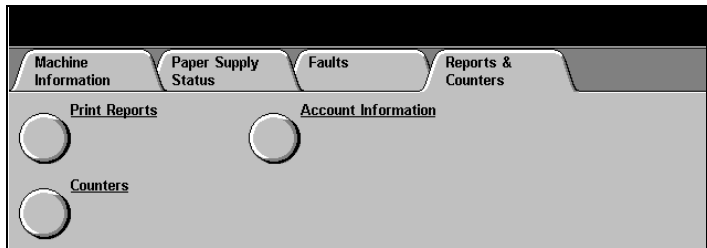
Displays a list of the six most recent faults, the date and time of the code and the status (active or cleared). Select the Fault Clearance Instructions button for assistance when clearing an active fault.



Reports and Counters

Print Reports

Accesses the various reports available for printing.



Report Options

- Pending Jobs Report - lists the jobs that are still in memory and the available memory.

- Printer Configuration - lists the status of the printer options, installed options, PCL options, PostScript options and connectivity options.

NOTE: If enabled, the machine will automatically print the Printer Configuration Report after the machine has successfully powered up.

- PostScript Font List - lists the available PostScript fonts for the printer.
- PCL Font List - lists the available PCL fonts for the printer.

Account Information

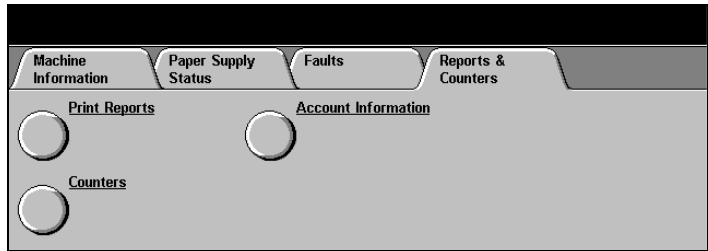
When the Auditor is enabled use this screen to review the limit and current count used against your account number.

The screenshot shows a software interface titled "Account Information" with an "Exit" button in the top right corner. The main area contains two sets of input fields. The first set, labeled "Copy:", has two adjacent text boxes with "Count" and "Limit" labels above them. The second set, labeled "Fax:", also has two adjacent text boxes with "Count" and "Limit" labels above them.

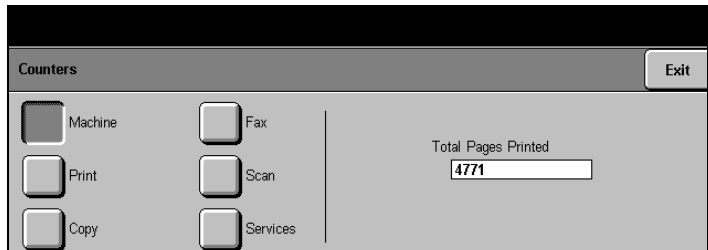
Counters

Displays the total number of prints made on the machine. Users can also review the counter for individual modes, however if a mode is not installed on the machine the counters button for that mode will not be displayed, for example if Fax is not installed, the counters screen will not display a fax button. On receipt of a Xerox meter card, check that the serial number on the card matches that shown on the machine, if the information is correct enter the Machine counter reading in the relevant box and return the pre-paid card to Xerox.

- Select **[Machine Status]**.
- Select **[Reports & Counters]**.
- Select **[Counters]**.



- The 'Total Pages Printed' billing counter for the machine will be displayed. Enter this number on the meter reading card.
- To review the counter for an individual mode, select the required feature button.

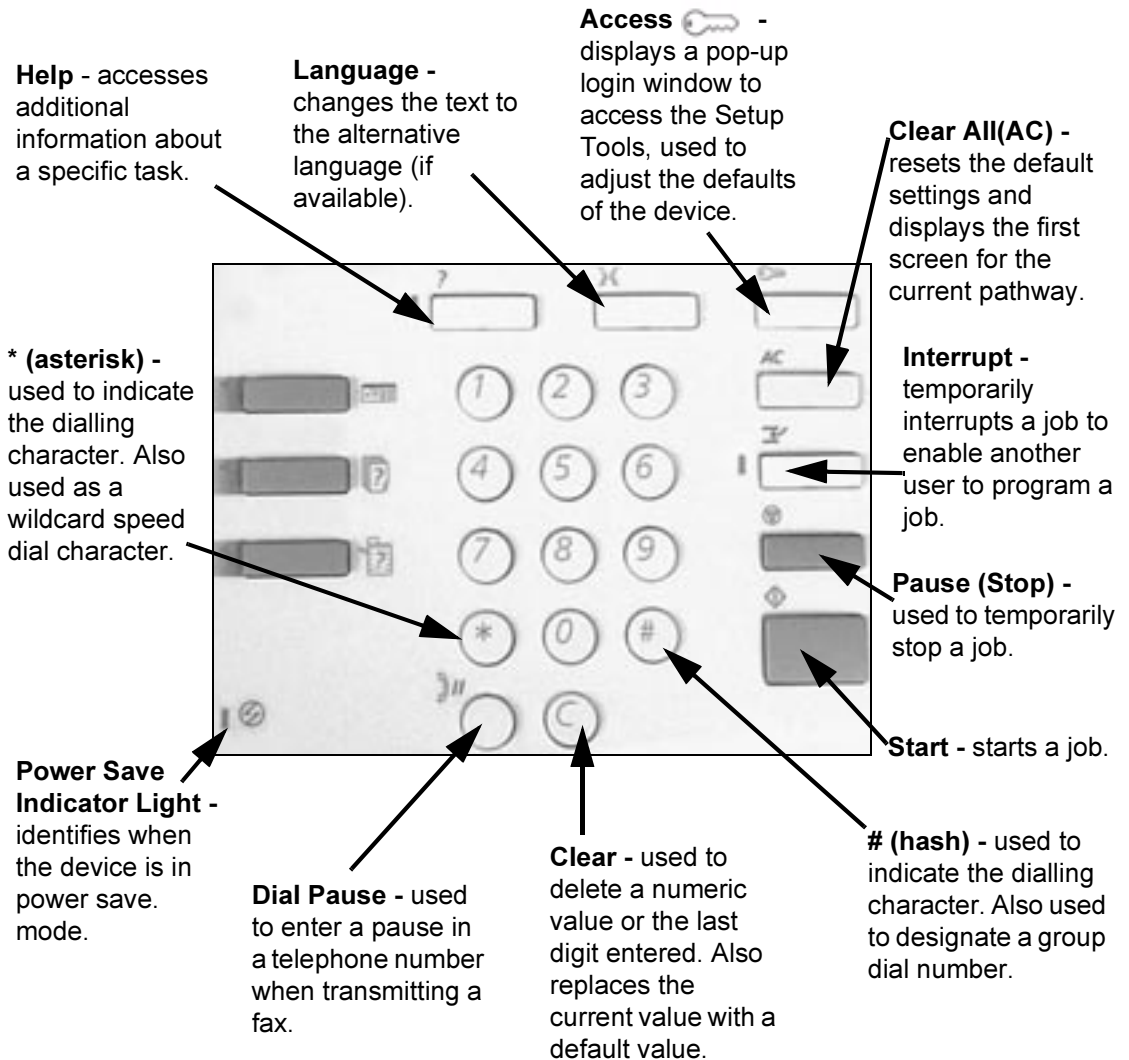


NOTE: If available, select **[Additional Counters]** to access more mode buttons.

- Select **[Exit]**.
- To exit **[Machine Status]**, select either **[Job Status]** or **[Features]**.

NOTE: The Services button displays the number of copies/prints made by the Xerox Service Representative working in the diagnostics mode.

System Controls



Setup Tools

During manufacture the device is pre-programmed with default settings which can be customised using the Setup Tools. The Setup Tools are accessed via the Access button and the following set up categories are available:

- Machine Setups
- Auditron Setups
- Copy Setups
- Fax Setups
- Network Scanning Setups
- E-mail Setups
- Print Setups
- Service Access Control
- Access Rights


As part of the device network installation process the Print Setups require customising for the network environment. Use the following instructions to become familiar with changing the settings prior to installing the device on the network.

Changing the Settings

To change the settings a password is required. When the DC440/432/425 is delivered it contains a default password (#22222) which can be used to provide access to the Setup Tools prior to additional PINs and access rights being assigned.

NOTE: #22222 is the default System Administrator password on machine installation. It is recommended you change this password. Please contact your Xerox Service Representative for further assistance

The following procedure is used to change device settings:

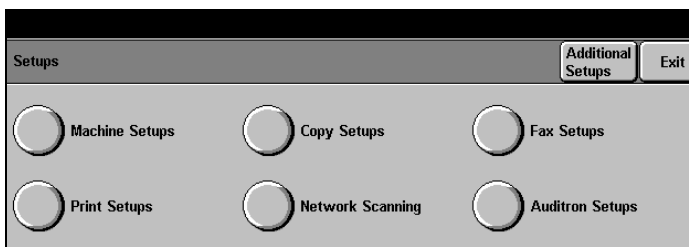
- Select the **[Access]**  button on the Control Panel.
- Select **[#]** and **[22222]** using the buttons on the Control Panel.
- Select **[Enter]** in the pop-up window.



The following screen is displayed and contains buttons for the types of setups available.

NOTE: The graphic representations of the user interface screens in this chapter may differ slightly dependent on model or configuration. However, feature descriptions and functionality remain the same as described.

- Select the button for the setups to be changed.
- If required, select **[Additional Setups]** to access further feature setups.



Ethernet Port

The Ethernet port is the default interface used on the *DC440/432/425*.

NOTE: The Ethernet port cannot be disabled.

Ethernet Port Set Up

If the speed setting of the Ethernet port needs to be changed perform the following steps:

1. Access the System Administrator set up screens:
 - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
 - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

NOTE: #22222 is the factory default password and may be changed by the Xerox Service Representative.

2. Access the Ethernet set up screens:
 - A. Select **[Print Setups]**.
 - B. Select **[Port Setups]**.
 - C. Select **[Ethernet Port]**.

NOTE: The MAC (Machine Access Code) address is read only and cannot be changed.

3. Set up the port speed:
 - A. Select **[Speed]**.
 - B. Select one of the following options:
 - **[Auto]**
 - **[10 Mps]**
 - **[100 Mps]**
 - C. Select **[Save]**.

4. Select **[Close]** on the Port set up screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
5. Check the settings on the Configuration Sheet against the information that was entered.
6. Refer to the appropriate chapter of this guide and complete the *DC440/432/425* network installation.

Resident Fonts

PCL Resident Fonts

One of the fonts in the following table can be selected as the default font for the *DC440/432/425*. Other bitmap and scalable fonts can be downloaded with print jobs sent to the device using Xerox CentreWare print drivers. The default font will be used when a font is not defined in the PCL job stream. The PCL versions used are PCL5e and PCL6.

NOTE: An error message will not be displayed if an invalid soft-font is downloaded. Print a *Font Report* or review the *Font Listing* for further information.

The following table displays some of the fonts available, for a complete listing select **[Font Listing]** within the Maintenance tab.

| Fonts | |
|--|--|
| Albertus Medium Albertus Extra Bold | Antique Olive Bold Antique Olive Medium Antique Olive |
| Arial Arial Bold Arial Italic Arial Bold Italic | CG Omega CG Omega Bold CG Omega Italic CG Omega Italic |
| CG Times CG Times Bold CG Times Italic CG Times Bold Italic | Clarendon Bold Condensed |
| Coronet | Courier Courier Bold Courier Italic Courier Bold Italic |

| | |
|---|--|
| Garamond Antiqua Garamond Antiqua Halbfett Garamond Kursiv Garamond Halbfett Kursiv | Letter Gothic Letter Gothic Bold Letter Gothic Italic |
| New Century Schoolbook Bold | Marigold |
| Symbol | Times New Roman Times New Roman Bold Times New Roman Italic Times New Roman Bold Italic |
| Univers Bold Univers Bold Condensed Univers Bold Italic Univers Bold Condensed Italic Univers Medium Univers Medium Condensed Univers Medium Italic Univers Medium Condensed | WingDings |

PCL5e Internal Symbol Set

One of the following Symbol Sets can be selected as the default Symbol Set. The default Symbol Set will be used when a Symbol Set is not defined in the PCL5e job stream.

| Symbol Sets | |
|---------------|---------------|
| Roman 8 | Legal (1U) |
| Other | Pi Font (15U) |
| ASCII (7 bit) | Math - 8 (8M) |

| | |
|--|---------------------------|
| ISO Text Column (10J) ISO 4 United Kingdom ISO 11 Swedish for Names ISO 15 Italian ISO 17 Spanish ISO 21 German ISO 60 Danish/Norwegian ISO 69 French ISO Latin 1 (0N) ISO Latin 2 (2N) ISO Latin 5 (5N) | PS Math (5M) PS Text |
| Windows 3.0 Latin 1 (9U) Windows 3.1 Latin 1 (19U) Windows 3.1 Latin 2 (9E) Windows 3.1 Latin 5 (5T) | Desktop (7J) |
| Ventura Math (6M) Ventura US (14J) Ventura International | Microsoft Publishing (6J) |
| PC - 850 PC - 852 Latin 2 (17U) PC - 8 PC - 8 Danish/Norwegian (11U) PC Turkish (9T) | GB2312 (19C) |

PostScript Resident Fonts

The Adobe PostScript Level 3 Interpreter includes the following set of resident fonts. The *DC440/432/425* supports all types of postscript fonts. PostScript fonts are scalable, meaning that all point sizes are supported.

The following table displays some of the fonts available, for a complete listing select **[Font Listing]** within the Maintenance tab.

| Fonts | |
|---|---|
| AvantGarde-Book AvantGarde-BookOblique AvantGarde-Demi AvantGarde-DemiOblique | Palatino-Roman Palatino-Bold Palatino-Italic Palatino-BoldItalic |
| Bookman-Demi Bookman-Demibold Bookman-Light Bookman-LightItalic | Symbol |
| Courier Courier-Bold Courier-Oblique Courier-BoldOblique | Times-Roman Times-Bold Times-Italic Times-BoldItalic |
| Helvetica Helvetica-Bold Helvetica-Oblique Helvetica-BoldOblique | ZapfChancery-MediumItalic |
| Helvetica-Narrow Helvetica-Narrow-Bold Helvetica-Narrow-Oblique Helvetica-Narrow-BoldOblique | ZapfDingbats |
| NewCenturySchlbk-Roman NewCenturySchlbk-Bold NewCenturySchlbk-Italic NewCenturySchlbk-BoldItalic | |

Additional Postscript or PCL fonts may be downloaded to the machine's hard disk drive using the CentreWare Font Management Utility. Please refer to the CentreWare Customer Documentation for further assistance.

NOTE: If the machine's controller software is updated it may be necessary to reinstall any fonts downloaded using the Font Management Utility.

3 **NetWare**

Introduction

This chapter explains how to install the *DC440/432/425* on the various NetWare networks. The following information is provided:

- Information Checklist 3-2
- NetWare Environments 3-3
- IPX Queue Based Printing 3-4
 - Installation Options..... 3-4
 - Using the Device Admin Wizard..... 3-5
 - Using NetWare Utilities 3-8
- IPX NDPS Printing 3-14
- IP NDPS Printing 3-16

Information Checklist

Before starting the NetWare installation procedures, please ensure the following items are available or have been performed:

| Item | By |
|--|----------|
| An existing operational NetWare network is required, these procedures are not designed to install a NetWare network. | Customer |
| NetWare client, server and operating system software version 3.x, 4.x and 5.x. | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly. | Customer |
| DC440/432/425 print and fax drivers. | Xerox |
| Token Ring PC card (Optional). | Xerox |

If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.

CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.

The NetWare versions and protocols supported in this chapter are as follows:

- NetWare Versions supported:
 - NetWare 3.x, 4.x, 5.x
- Network Protocols supported:
 - IPX, IP (IP printing is supported via LPR/LPD only)

The *DC440/432/425* settings which require configuring vary, depending on the NetWare version being used. Identify which instructions are appropriate for the network configuration and refer to the section:

- IPX Queue based printing in Bindery and NDS environments refer to page 3-4.
- IPX printing with NDPS refer to page 3-14.
- LPR/LPD printing with NDPS 3-16.

IPX Queue Based Printing

Installation Options

There are two main methods which can be used to complete the network installation for IPX environment. These are:

- Using the Xerox CentreWare Device Admin Wizard

Using the Device Admin Wizard will simplify the network installation by eliminating steps that would otherwise be performed at the *DC440/432/425* and in NetWare utilities such as NWADMIN.

To use this method of installation, refer to page 3-5.

- Using NetWare Utilities

This method requires use of the NetWare utilities for example NWADMIN to configure the network. The device will require configuring using the *DC440/432/425* user interface or CentreWare Internet Services.

To use this method of installation, refer to page 3-8.

Installation Procedure

There are three stages required to install the *DC440/432/425* on a NetWare network using the CentreWare Device Admin Wizard:

➤ Network Communication Set Up

This procedure will enable the *DC440/432/425* to communicate on the NetWare network.

➤ Device Admin Wizard Set Up

This procedure is used to complete the *DC440/432/425* installation with the Device Admin Wizard.

➤ Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

Network Communication Set Up

At the *DC440/432/425*, perform these steps:



***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
 - A. Select the **[Access]** button on the Control Panel.
 - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

NOTE: #22222 is the factory default password and may be changed by the Xerox Service Representative.

3. Access the NetWare set up screens:
 - A. Select **[Print Setups]**.
 - B. Select **[Protocol Setups]**.
 - C. Select **[NetWare]**.
4. Enable NetWare:
 - A. Select **[Enablement]**.
 - B. Select **[Enabled]**.
5. Select the appropriate Interface for the network:
 - A. Select **[Interface]**.
 - B. From the right side of the screen, select **[Ethernet]** or **[Token Ring]** as the appropriate Interface for the network.

NOTE: Token Ring will not be available as a selection unless it has been installed and configured.

6. Select the appropriate Frame Type for the network:
 - A. Select **[Frame Type]**.
 - B. From the right half of the screen, select the appropriate frame type for the network:
 - [IEEE_802.3]**
 - [Ethernet II]**
 - [IEEE_802.2]**
 - [IEEE_802.5]** (Token Ring)
 - [Token Ring Snap]**
 - [Auto]**
7. Save the new settings and reset the device:
 - A. Select **[Save]**.
 - B. Select **[Exit]** on the Protocol Setups screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
8. Continue with **Device Admin Wizard Set Up** on page 3-7.

Device Admin Wizard Set Up

Ensure that the Xerox CentreWare *Device Admin Wizard* is installed on the client workstation.

If needed, refer to the Xerox CentreWare documentation for installation instructions.

For more detailed instructions on setting up a network, access the electronic, context-sensitive Help from all Network Services and Admin Services screens and dialogue boxes.

1. Locate and launch the **Device Admin Wizard**.
2. Follow the instructions on each Device Admin Wizard screen to set up the *DC440/432/425* on the network.
3. Power off and power on the *DC440/432/425* so the set up selections will take effect.
4. Using the procedure located in the *Xerox CentreWare documentation*, install the print driver for the workstation.
5. Continue with **Test Print**.

Test Print

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer for sending documents to.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the print driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.

Installation Procedure

There are three stages required to install the *DC440/432/425* on a NetWare network using NetWare utilities:

➤ NetWare Set Up

This procedure is used to set up the network using NetWare utilities, for example NWADMIN.

➤ Network Communication Set Up

This procedure will enable the *DC440/432/425* to communicate on the NetWare network.

➤ Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

If this is a Token Ring installation, the Token Ring card must be installed and configured before performing this procedure.

Refer to the Token Ring chapter of this guide for additional information.

If running NLSP, ensure that RIP/SAP compatibility is configured on the same segment as the *DC440/432/425*.

NetWare Set Up

- Create and configure a print server, a printer and a print queue for the Document Centre using the appropriate Netware utility. For example, NWAdmin.
- Record the following information for use during set up at the *DC440/432/425ST*:
 - NDS Tree (not Bindery):
 - NDS Context (not Bindery):
 - File Server (Bindery only):

- Print Server Name:
- Print Server Password:

Continue with **Network Communication Set Up**.

Network Communication Set Up

At the DC440/432/425, perform these steps:



***HINT:** Xerox CentreWare Internet Services can also be used to configure the DC440/432/425, refer to the Internet Services chapter for instructions.*

1. Connect the DC440/432/425 to the network outlet or cable.
2. Access the System Administrator set up screens:
 - A. Select the **[Access]** button on the DC440/432/425 Control Panel.
 - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

NOTE: #22222 is the factory default password and may be changed by the Xerox Service Representative.

3. Access the NetWare set up screens:
 - A. Select **[Print Setups]**.
 - B. Select **[Protocol Setups]**.
 - C. Select **[NetWare]**.
4. Enable NetWare:
 - A. Select **[Enablement]**.
 - B. Select **[Enabled]**.
5. Select the appropriate Interface for the network.
 - A. Select **[Interface]**.
 - B. Select **[Ethernet]** or **[Token Ring]** as the appropriate Interface for the network.

NOTE: Token Ring will not be available as a selection unless it has been installed and configured.

6. Select the appropriate Frame Type for the network:
 - A. Select **[Frame Type]**.
 - B. Select the appropriate frame type for the network:
 - [IEEE_802.3]**
 - [Ethernet II]**
 - [IEEE_802.2]**
 - [IEEE_802.5]** (Token Ring)
 - [Token Ring Snap]**
 - [Auto]**

IMPORTANT: During the next two steps, ensure that the **Print Server Name** and the **Print Server Password** are exactly the same as entered in PCONSOLE or NWADMIN.

7. Enter the Print Server Name:
 - A. Select **[Print Server Name]**.
 - B. Select **[Edit]** and use the keyboard to enter the Print Server Name for the DC440/432/425.

NOTE: Additional characters are available by selecting the **Change Keyboard** button.

- C. Select **[Save]**.
8. Enter the Print Server Password:
 - A. Select **[Print Server Password]**.
 - B. Select **[Edit]** and enter the password that was assigned to the Print Server. If a password was not assigned, use the Backspace key to delete the default password.
 - C. Select **[Save]**.
9. Enter the Poll Rate:
 - A. Select **[Poll Rate]**.

NOTE: This value determines how often the *DC440/432/425* polls the NetWare file server to check if there is a file at the server to be printed or faxed.

- B. Select the numeric window on the screen, and use the pop up screen to enter a value from 1 to 240 seconds.
- 10. For an NDS installation go to Step 11. For a Bindery installation select the File Server or Servers.
 - A. Select **[Additional Setups]**.
 - B. Select **[File Server 1]**.
 - C. Select **[Edit]**.
 - D. Use the keyboard to enter the name of the NetWare server where the queue was created.
 - E. Select **[Save]**.
 - F. For Bindery configurations, to enter the names of additional file servers select **[File Server 2, File Server 3 and File Server 4]** as required, and repeat the above steps.

NOTE: Each additional server requires the identical Print Server Name and Print Server Password.

- 11. Set the NDS Tree name:
 - A. Select **[NDS Tree]**.
 - B. Select **[Edit]**.
 - C. Select **[Edit]** and enter the name of the NDS Tree. For a Bindery installation set this value to **[-]**.
 - D. Select **[Save]**.
- 12. Set the NDS Context:
 - A. Select **[NDS Context]**.
 - B. Select **[Edit]** and enter the Context for the printer. For example: SALES.MYCOMPANY. For a Bindery installation set this value to **[-]**.
 - C. Select **[Save]**.
- 13. Enable/Disable the Service Advertising Protocol:
 - A. Select **[Additional Setups]**.

- B. Select **[SAP]**.
 - C. Select **[Enable]** or **[Disable]**, as required.
 - D. If SAP is enabled then use the arrows, or select the numeric window and use the keypad, to enter the SAP frequency. The range is 15 to 300 seconds. (The default is 60 seconds).
14. Select the language of the server.
 - A. Select **[Server Character Set]**.
 - B. Use the arrow keys on the screen to scroll through the selection and select the appropriate language for the network.
 15. Select **[Save]**.
 16. Select **[Exit]** on the Protocol Setups screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
 17. Check the settings on the Configuration Sheet against those that were set up on the server.
 18. Install the *DC440/432/425* print driver at the workstation using the procedure located in the *Xerox CentreWare Documentation*.
 19. Continue with **Test Print** on page 3-12.

Test Print

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer for sending documents to.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the print driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.

6. The installation process is now complete.

If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.

IPX NDPS Printing

- Ensure server(s) and NDS are patched to the correct level.
- Ensure that NDPS 2.0 is installed.
- Ensure that the latest version of the Xerox NDPS Gateway is installed on the relevant server.
- Ensure that you have an NDS login with sufficient rights to create objects in the desired container.

NDPS Printing to the 440/432/425ST can use either IPX or IP.

1. Before creating the new NDPS Printer the 440/432/425ST must be configured with a printer server name. This will be used to identify the Document Centre in the *Installation Wizard* described below and to name an NDS object required by the Xerox Gateway. Refer to the 440/432/425ST Netware Quick Install for additional information.

NOTE: The correct tree and context are not required but it is necessary to enter some text in each in order to save the print server name.

2. Create NDPS Printer object:
 - A. In NDS create a new NDPS Printer object in the appropriate container:
 - B. Enter a name and select **[Create]**.
 - C. Choose the appropriate NDPS Manager and select the Xerox Printer Gateway. Select **[OK]**.
 - D. In *Select a Network Protocol* choose **[IPX]** and select **[OK]** and then **[Next]** to launch the Installation Wizard.
 - E. From the list select the print server name created in Step 1. Ensure that Auto Create NDS Objects is checked, then select **[Next]** and **[Next]** again.
 - F. Select **[Finish]**. The Document Centre will reset and the new Printer Agent will load on the relevant server.
 - G. You can select print drivers if you wish. Select **[Continue]** and then **[OK]** to finish.

3. Continue with **Test Print**.

Test Print

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer for sending documents to.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the print driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.

IP NDPS Printing

- Ensure server(s) and NDS are patched to the correct level.
- Ensure that NDPS 2.0 is installed.
- Ensure that the latest version of the Xerox NDPS Gateway is installed on the relevant server.
- Ensure that you have an NDS login with sufficient rights to create objects in the desired container.

NDPS Printing to the *DC440/432/425ST* can use either IPX or IP.

This uses LPR printing therefore the LIne Printer Daemon must be configured. Refer to the *DC440/432/425ST* TCP/IP Quick Install for additional information.

NOTE: NDPS printing to the *DC440/432/425* is NOT available via the IP option in the Xerox Gateway.

1. Create NDPS Printer object:
 - A. In NDS create a new NDPS Printer object in the appropriate container.
 - B. Enter a name and select **[Create]**.
 - C. Choose the appropriate NDPS Manager and select the Novell Printer Gateway. Select **[OK]**.
 - D. You can choose a printer type at this stage if desired. Otherwise leave as *None*. Select **[OK]**.
 - E. On the *Configure Port Handler* screen select **[LPR on IP]** and then select **[Next]**.
 - F. Enter the IP Address (or host name if appropriate) of the *DC440/432/425ST*.

NOTE: The Printer Name can be left at the default.

- G. Select **[Finish]**. The new Printer Agent will load on the relevant server.
- H. You can select print drivers at this point if you wish. Select **[Continue]** and then **[OK]** to finish.

NOTE: The two configurations described above can coexist.

2. Continue with **Test Print**.

Test Print

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer for sending documents to.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the print driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.

4 *Banyan VINES*

Introduction

This chapter explains how to install the *DC440/432/425* on a Banyan VINES network. The following information is provided:

- Information Checklist4-2
- Banyan VINES Installation.....4-3
 - Installation Procedure4-3
 - Network Communication Set Up4-3
 - Banyan Print Service Set Up.....4-5
 - Test Print4-6

Information Checklist

Before starting the Banyan VINES installation procedures, please ensure the following items are available or have been performed:

| Item | By |
|--|----------|
| An existing operational Banyan VINES network is required, these procedures are not designed to install a Banyan VINES network. | Customer |
| Banyan VINES PCPrint option installed on the server. The DC440/432/425 emulates the PC Network Printing (PCPrint) program, which enables Banyan VINES network users to access network devices such as the DC440/432/425 that are attached to a DOS or Windows workstation. | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly. | Customer |
| NOTE: DC440/432/425 printer drivers for Windows, Windows 95, DOS and Macintosh as required for the clients. | Xerox |

If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.

CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.

Banyan VINES Installation

Installation Procedure

There are three stages required to install the *DC440/432/425* on a Banyan VINES network:

➤ Network Communication Set Up

This requires the *DC440/432/425* to be set up for Banyan VINES.

➤ Banyan Print Service Set Up

This requires the Banyan VINES network to be configured for the *DC440/432/425*.

➤ Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

Network Communication Set Up

At the *DC440/432/425*, perform these steps:



***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
 - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
 - B. Using the keypad, enter **#[22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

NOTE: #22222 is the factory default password and may be changed by the Xerox Service Representative.

3. Access the Banyan VINES set up screens:
 - A. Select **[Print Setups]**.
 - B. Select **[Protocol Setups]**.
 - C. Select **[Banyan VINES]**.
4. Enable Banyan VINES:
 - A. Select **[Enablement]**.
 - B. Select **[Enabled]**.
5. Select **[Street Talk Name]**, then select **[Edit]** and use the keyboard to enter the Street Talk Name.
6. Select **[Save]**.
7. Select **[Street Talk Password]**, then select **[Edit]** and use the keyboard to enter the Street Talk Password.
8. Select **[Print Service Name]**, then select **[Edit]** and use the keyboard to enter the Print Service Name. The Print Service Name is the service to which the DC440/432/425 will be connected.

NOTE: Banyan VINES recommends that spaces should not be used in Print Service Names. They can, however, be used with the DC440/432/425 if the Print Service Name contains them.

9. Select **[Save]**.
10. Select **[Save]** again.
11. Select **[Exit]** on the Protocol Setups screen. The DC440/432/425 will reboot and print a Configuration Sheet in approximately 3 minutes.
12. Check the settings on the Configuration Sheet against the information that was entered.
13. Continue with **Banyan Print Service Set Up**.

Banyan Print Service Set Up

Detailed instructions on setting up the Banyan Print Service are not provided here. Refer to the *Banyan VINES documentation* for more information, if needed.

1. Using the MUSER, or equivalent utility, create a user name and assign a password for the *DC440/432/425*. The user name and password must be the same as those entered at the *DC440/432/425*.
2. Using the MSERVICE, or another utility, highlight and select **[ADD a Server-Based Service]**.
 - A. Enter the Street Talk Name and description.
 - B. Select the server where the service will be created.
 - C. Select **[Banyan Print Service]**.
 - D. Select an appropriate disk location when prompted.
3. Enter the *DC440/432/425* user name as the PCPRINT ST name and Description.

NOTE: The PCPrint ST name must be the same as the user name created earlier, and must also match the Street Talk (user) Name entered at the *DC440/432/425*.

4. Power off and power on the *DC440/432/425* for these set up options to take effect.
5. Install the *DC440/432/425* printer driver on a client workstation:
 - A. A variety of client workstations can send files to the File Server to be printed on the device, using Windows NT, Windows, Windows 95, Windows 98 DOS, Macintosh, and X-Windows. Each of these different environments has its own driver or print tool.
 - B. Using the procedure located in the *Xerox CentreWare documentation*, install the appropriate *DC440/432/425* driver or print tool on all workstations that will be sending jobs to the device.
6. Continue with **Test Print**.

Test Print

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer for sending documents to.
3. Print the document on the device and verify that it prints correctly.
4. Ensure that the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.

5 *UNIX TCP/IP*

Introduction

This chapter explains how to install the *DC440/432/425* in a UNIX TCP/IP environment. The UNIX Workstation Operating Systems covered are SUN OS, SOLARIS, HP-UX and IBM AIX. The following information is provided:

- Information Checklist 5-2
- UNIX TCP/IP Installation..... 5-3
 - Installation Procedure 5-3
 - Network Communication Set Up 5-3
 - Workstation Set Up 5-7
 - Load the CentreWare UNIX CWPrint Tool 5-17
 - Test Print 5-18

Information Checklist

Before starting the UNIX TCP/IP installation procedures, please ensure the following items are available or have been performed:

| Item | By |
|---|----------|
| An existing operational network utilising a UNIX TCP/IP protocol is required, these procedures are not designed to install the UNIX TCP/IP network. | Customer |
| SUN OS 4.1x, SOLARIS 1.x, 2.x, 7.x, HP-UX 9.x, 10.x or IBM AIX 4.x. | Customer |
| Ensure that the correct IP Address is being used for the DC440/432/425. | Customer |
| Ensure that the Gateway Address is set correctly. | Customer |
| Ensure that the Subnet Mask is set correctly. | Customer |
| Ensure that the Broadcast Address is set correctly. | Customer |
| Ensure that the Host Name is set correctly. | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly. | Customer |
| CentreWare UNIX CWPrint Tool. | Xerox |

If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.

CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.

UNIX TCP/IP Installation

Installation Procedure

There are four stages required to install the *DC440/432/425* in a UNIX TCP/IP environment:

➤ Network Communication Set Up

This requires the *DC440/432/425* to be set up and configured for TCP/IP.

➤ Workstation Set Up

This requires the appropriate Workstation Operating System to be configured for the *DC440/432/425*.

➤ Load the CentreWare UNIX CWPrint Tool

The CentreWare UNIX CWPrint Tool provides a graphical user interface for submitting print jobs in the UNIX environment.

➤ Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

Network Communication Set Up

At the *DC440/432/425*, perform these steps:



***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
 - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
 - B. Using the keypad, enter **[#22222]** (or the current

System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

NOTE: #22222 is the default password and may be changed by the Xerox Service Representative.

3. Access the TCP/IP Network Set up screens:
 - A. Select **[Print Setups]**.
 - B. Select **[Protocol Setups]**.
 - C. Select **[TCP/IP]**.
 - D. IP Address setup:

NOTE: DHCP AUTOIP automatically assigns IP addresses and is the default setting. If the IP Address needs to be edited but is unavailable, select *Address Resolution* and then *Static* to continue.

Select **[IP Address]**, then select **[Edit]** and use the keypad on the screen to enter the IP Address for the DC440/432/425. This number is assigned by the System Administrator. Then select **[Save]**.

- E. Gateway Address setup:

Select **[Gateway Address]**, then select **[Edit]** and use the keypad on the screen to enter the Gateway Address of the network. Then select **[Save]**.
- F. Subnet Mask Setup:

Select **[Subnet Mask]**, then select **[Edit]**, and use the keypad on the screen to enter the Subnet Mask for the network (the default setting is 255.255.252.0). Then select **[Save]**.

NOTE: The Broadcast Address is set up automatically and cannot be edited.

NOTE: Refer to the *Glossary* for additional information about the Gateway Address, Subnet Mask and Broadcast Address, if needed.

- G. Host Name Setup:
Select **[Host Name]**, then select **[Edit]** and use the keyboard on the screen to enter the Host Name for the *DC440/432/425* to use. Then select **[Save]**.
- H. Address Resolution Setup:
Select **[Address Resolution]**, then select the type of addressing to be used. **[STATIC]**, **[RARP]**, **[DHCP]**, **[DHCP AUTOIP]** or **[BOOTP]**.
- 4. Enable TCP/IP:
 - A. Select **[Additional Setups]**.
 - B. Select **[Enablement]**, then select **[Enable]**.
- 5. Select the type of Interface being used:
 - A. Select **[Interface]**.
 - B. Select either **[Ethernet]** or **[Token Ring]**.
- 6. Select **[Save]** at the TCP/IP screen to save the network settings.
- 7. Set up the Raw TCP/IP Printing:
 - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Raw TCP/IP Printing]**.
 - C. Select **[Enable]**.
 - D. Select **[Save]**.
- 8. Set up the Raw TCP/IP Printing Port Number:
 - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Raw TCP/IP Printing Port Number]**.
 - C. Scroll up or down to select the port number or select the numeric window button and enter the port number.
 - D. Select **[Save]**.
- 9. Set up the Line Printer Daemon (LPD):

NOTE: The *DC440/432/425* contains a line printer daemon (LPD) which must be enabled if it is to be used. UNIX clients require the LPD to be running in order to print. The LPD can be running in the client workstation, in a server on the network, or in the *DC440/432/425*.

- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[LPD Enablement]**.
 - C. Select **[Enabled]**.
 - D. Select **[Save]**.
10. Set up the LPD Port Number:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[LPD Port Number]**.
 - C. Scroll up or down to select the port number or select the numeric window button and enter the port number.
 - D. Select **[Save]**.

NOTE: The default LPD Port Number is set to 515.

11. Set up the Domain Name:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Additional Setups]** again.
 - C. Select **[Domain Name]** and then select **[Edit]** and use the keypad on the screen to enter the Domain Name.
 - D. Select **[Save]**.
12. Set up the Preferred DNS Server:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Additional Setups]** again.
 - C. Select **[Preferred DNS Server]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Preferred DNS Server.
 - D. Select **[Save]**.
13. Set up the Alternate DNS Server 1:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Additional Setups]** again.
 - C. Select **[Alternate DNS Server 1]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Alternate DNS Server 1.
 - D. Select **[Save]**.

14. Set up the Alternate DNS Server 2:
 - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Additional Setups]** again.
 - C. Select **[Alternate DNS Server 2]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Alternate DNS Server 2.
 - D. Select **[Save]**.
15. Set up DDNS Registration:
 - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
 - B. Select **[Additional Setups]** again.
 - C. Select **[DDNS Registration]** and then select **[Enable]**.
 - D. Select **[Save]**.
16. Select **[Exit]** on the Protocol Setups screen.
17. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
18. Check the settings on the Configuration Sheet against the information that was entered.
19. Continue with **Workstation Setup** on page 5-7.

Workstation Set Up

Instructions are provided for SUN OS, SOLARIS, HP-UX and IBM AIX workstations. Refer to the appropriate instructions for the network environment:

- SUN OS - refer to page 5-8.
- SOLARIS - refer to page 5-10.
- HP-UX - refer to page 5-11.
- IBM AIX - refer to page 5-13.

SUN OS

This procedure uses the appropriate tools to set up the SUN OS workstation environment to communicate with the *DC440/432/425*:

1. Log in at a client workstation as root and add the *DC440/432/425* to the */etc/hosts* file. For example:

```
IP address [tab] PrinterName
```

NOTE: If an NIS server is running on the same segment of the network as the *DC440/432/425*, log in at the NIS server as *root* and add the *DC440/432/425* to the master hosts file. For example: *IP address [tab] PrinterName*

2. Verify connectivity to the *DC440/432/425*. This can be accomplished by using a UNIX command such as *ping*, as shown in the following example:

```
ping PrinterName
```

```
PrinterName is alive
```

3. Edit the */etc/printcap* file to contain an entry for the *DC440/432/425* queue using the following example:

```
PrinterName:\
```

```
:lp=:\
```

```
:rm=PrinterName:\
```

```
:mx#0:\
```

```
:sd=/var/spool/lpd/PrinterName:\
```

```
:lf=/var/spool/lpd/PrinterName/log:
```

- A. *PrinterName* is the local client name of the *DC440/432/425*.
- B. *lp=* is the local device name for the printer output. For remote printers, it is required that this parameter is set to nothing.

NOTE: The recommended remote queue name is *lp*. The queue name will work with the *DC440/432/425* and also earlier product versions of the Document Centre family.

- C. `rm=` identifies the remote device. This is the IP hostname for the *DC440/432/425* in the local client. The remote printer name defaults to **lp**, the default printer.
 - D. `mx#0` indicates that the maximum size of the document is unlimited.
 - E. `sd=` is the path to the queue for the *DC440/432/425*.
 - F. `lf=` is the error logging file name.
4. The *DC440/432/425* can be designated as the default print queue. This will make it unnecessary to include the `PrinterName` in the `lpr` command line.
- A. To designate the *DC440/432/425* as the default print queue, add the following information to the */etc/printcap* file. This is in addition to the information entered in the previous step:


```
lp|PrinterName:\
:lp=\
:rm=PrinterName:\
:mx#0:\
:sd=/var/spool/lpd/PrinterName:
```
5. Create the spool directory identified in the *printcap* file and set the access attributes, as shown in the example below. The spool directory should be located on a disk partition large enough to hold copies of documents that will be submitted.
- ```
cd /var/spool/lpd
mkdir PrinterName
chmod 744 PrinterName
```
6. Continue with **Load the CentreWare UNIX CWPrint Tool** on page 5-17.

## SOLARIS

---

This procedure uses the appropriate tools to set up the SOLARIS workstation environment to communicate with the *DC440/432/425*.

1. Log in at a client workstation as root.
2. Use the SOLARIS ADMINTOOL to add the *DC440/432/425* to the system host files.

---

**NOTE:** Refer to the *SOLARIS documentation* for instructions on using the ADMINTOOL.

---

- A. Select **[Browse]**.
  - B. Select **[Printers]**.
  - C. Select **[Edit]**.
  - D. Select **[Add]**.
  - E. Select **[Local Printer]**.
  - F. Enter the **[Host Name]** in the Printer Name field and then select **[OK]**.
  - G. Select **[File]**.
  - H. Select **[Exit]**.
3. Verify connectivity to the *DC440/432/425*. This can be accomplished by using a UNIX command such as `ping`. For example:

```
ping PrinterName
PrinterName is alive
```

---

**NOTE:** The remote queue name must be set to `lp` in order to spool jobs to the *DC440/432/425*.

---

4. Continue with **Load the CentreWare UNIX CWPrint Tool** on page 5-17.



## HP-UX

---

This procedure uses the appropriate tools to set up the HP-UX workstation environment to communicate with the *DC440/432/425*.

1. Log in at a client as root and add the *DC440/432/425* to the */etc/hosts* file. For example:

```
IP address TAB PrinterName
```

2. Verify connectivity to the device. This can be accomplished by using a UNIX command such as `ping` from a terminal command window, as shown in the following example:

```
ping PrinterName
```

---

**NOTE:** Select **CTRL+C** to stop the ping command from polling continuously.

---

3. There are two procedures that can be used to successfully install the device on an HP-UX workstation. Choose the procedure that will be used to complete the installation and refer to that section now:

Using the Command Window TTY Method on page 5-11.

Using the System Administrator Manager (SAM) GUI Method on page 5-12.

### Using the Command Window TTY

This procedure uses a Command Window to manually enter command strings and complete the installation of the *DC440/432/425*.

1. Open a command window on the desktop. From the command prompt (`#`), enter the information below. Remember that UNIX commands are case-sensitive.
  - A. Type `su` to access the super user mode.
  - B. Type `sh` to run the Bourn Shell.
  - C. Type `lpshut` to stop the print service.
  - D. Type the following command on the same line:

```
lpadmin -pqueueName -v/dev/null -
mrmodel -ocmrmodel-osmrmodel -ob3 -
orc -ormhostname -orplp
```

---

**NOTE:** The queueName is the name of the print queue being created. The hostname is the device PrinterName from the etc/hosts file.

The remote queue name must be set to **lp** in order to spool jobs to the device. This is set by the **-orplp** command.

---

2. Type **lpsched** to start the print service.
3. Type **enable queueName** to enable the queue to print to the DC440/432/425.
4. Type **accept queueName** to enable the queue to start accepting jobs from the HP-UX workstation.

---

**NOTE:** The *queueName* is the name of the print queue that has been created.

---

5. Type **exit** to exit the Bourne Shell.
6. Type **exit** to exit super user mode.
7. Type **exit** to close the command window.
8. Continue with **Test Print** on page 5-18.

### **Using the System Administrator Manager (SAM) GUI Method**

This procedure uses the HP System Administrator Manager (SAM) GUI (Graphical User Interface) application to complete the installation of the DC440/432/425.

---

**NOTE:** Refer to the HP-UX documentation for additional information on using the System Administrator Manager (SAM).

---

1. Start the **System Administrator Manager (SAM)** application.
2. Select the **[Printers and Plotters]** icon.

3. Select **[Actions]** from the Menu Bar.
4. Select **[Add Remote Printer/Plotter]** from the pull-down menu.
5. Enter the following information into the form displayed in the **Add Remote Printer/Plotter** dialog box:
  - A. Printer Name
  - B. Remote System Name
  - C. For the *Remote Printer Name*, enter **lp**.

---

**NOTE:** The *Printer Name* is the name of the print queue being created. The *Remote System Name* is the device `PrinterName` from the `/etc/hosts` file. The *Remote Printer Name* must be set to **lp** in order to spool jobs to the device.

---

- D. Enable *Remote Printer is on a BSD system* by checking the checkbox.
  - E. Ensure the *Remote Cancel Model* is set correctly.
  - F. Ensure the *Remote Status Model* is set correctly.
  - G. Ensure the *Default Request Priority* is set correctly.
  - H. Ensure the *Allow Anyone to Cancel a Request* checkbox is set correctly.
  - I. Ensure that the *Make This Printer the Default Destination* checkbox is set correctly.
6. Select **[OK]**.
7. Read and respond to any displayed system messages.
8. Continue with **Test Print** on page 5-18.

## IBM AIX

---

This procedure uses the appropriate tools to set up the IBM AIX workstation environment to communicate with the DC440/432/425.

1. Log in at a client as *root* and add the DC440/432/425 to the `/etc/hosts` file. For example:

IP address TAB PrinterName

2. Verify connectivity to the device. This can be accomplished by using a UNIX command such as `ping` from a terminal command window, as shown in the following example:

```
ping PrinterName
```

---

**NOTE:** Select **CTRL+C** to stop the ping command from polling continuously.

---

3. There are three procedures that can be used to successfully complete the installation of the device. Choose the procedure that you will use to complete the installation and refer to that section now:

Using the IBM AIX System Management Interface Tool (SMIT) on page 5-14.

Using the IBM AIX Print Manager on page 5-15.

Using the Command Line Procedure on page 5-16.

### **Using the IBM AIX System Management Interface Tool (SMIT)**

This procedure uses the IBM System Management Interface Tool (SMIT) GUI (Graphical User Interface) application to complete the installation of the *DC440/432/425*.

---

**NOTE:** Refer to the IBM AIX documentation for additional information on using the System Management Interface Tool (SMIT).

---

1. Start the **System Management Interface Tool (SMIT)** application.
2. Select **[Print Spooling]**.
3. Select **[Add a Print Queue]**.
4. Select **[remote]** as the attachment type.
5. Select **[Standard Processing]**.
6. Enter the following information into the form displayed in the **[Add a Standard Remote Print Queue]** dialog box:
  - A. \*Name of QUEUE to add

- B. \*HOSTNAME of remote server
- C. For the \*Name of QUEUE on remote server, enter **lp**.

---

**NOTE:** The *QUEUE* is the name of the print queue being created. The *HOSTNAME* is the device *PrinterName* from the *etc/hosts* file.

The *Name of QUEUE on remote server* must be set to **lp** in order to spool jobs to the device.

---

- D. *TYPE of print spooler on remote server* should be set to **BSD**.
- E. *DESCRIPTION of the printer on remote server*
- 7. Select **[OK]**.
- 8. Select **[Done]**.
- 9. Select **[Add a Standard Remote Print Queue]** dialog box.
- 10. Close the **System Management Interface Tool** dialog box.
- 11. Continue with **Test Print** on page 5-18.

### Using the IBM AIX Print Manager

- 1. Start the **Print Manager** application.
- 2. Right click in the *Printers* section of the **Print Manager** dialog.
- 3. Select **[Add New]** from the pop-up menu.
- 4. Select the **[remote]** icon for the *Attachment Type* in the **[Add Printer/Print Queue]** dialog.
- 5. Select **[OK]**.
- 6. Enter the following information into the form displayed in the **[Add Remote Print Queue]** dialog:
  - A. NAME of queue to add
  - B. NAME of device to add
  - C. DESTINATION HOST for remote jobs
  - D. For the *Name of QUEUE on the remote server*, enter **lp**.

---

**NOTE:** The *NAME of queue* is the name of the print queue being created. The *NAME of device* is the user entered descriptive name for the device. The *DESTINATION HOST* is the device `PrinterName` from the *etc/hosts* file. The *Name of QUEUE on the remote server* must be set to `lp` in order to spool jobs to the device.

---

- E. For the *SHORT FORM FILTER pathname*, enter `/user/lib/lpd/bsdshort`.
- F. For the *LONG FORM FILTER pathname*, enter `/user/lib/lpd/bsdlong`.
- 7. Select **[OK]**.
- 8. Close the **[Add Printer/Print Queue]** dialog.
- 9. Close the **[Print Manager]** application.
- 10. Continue with **Test Print** on page 5-18.

### Using the Command Line Procedure

- 1. Open a command window on the desktop.
- 2. From the command prompt (`#`), enter the following information on the same line. Use the correct case as UNIX commands are case-sensitive:

```
/usr/lib/lpd/pio/etc/piomisc_etc
mkpq_remote_ext -q 'queuenam' -h
'hostname' -r 'lp' -t 'bsd' -d 'user
description'
```

---

**NOTE:** The *queuenam* is the name of the print queue being created. The *hostname* is the device `PrinterName` from the *etc/hosts* file. The *Name of QUEUE on the remote server* must be set to `lp` in order to spool jobs to the device.

---

- 3. Close the command window.
- 4. Continue with **Test Print** on page 5-18

## Load the CentreWare UNIX CWPrint Tool

---

The CentreWare UNIX CWPrint Tool provides a graphical user interface for submitting print jobs in the UNIX environment. Once a print job is initiated, the tool intercepts the print command and opens the interface. It then forwards a PostScript file to the *DC440/432/425* via the print protocol.

1. Refer to the *Xerox CentreWare documentation* and install the CentreWare UNIX CWPrint Tool.
2. Continue with **Test Print** on page 5-18.

## Test Print

---

To ensure the *DC440/432/425* has been installed on the UNIX TCP/IP network correctly, a test print should be submitted from a client workstation. Perform the following steps:

1. Start the Open Windows application.
2. Start the CentreWare UNIX CWPrint Tool application.
3. Use the UNIX CWPrint Tool to send a test print to the *DC440/432/425*.
4. Repeat the procedure for all workstations that will be sending jobs to the device.
5. The UNIX TCP/IP installation is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*



# 6 *AppleTalk*

## Introduction

---

This chapter explains how to install the *DC440/432/425* on an AppleTalk network. The following information is provided:

- Information Checklist .....6-2
- AppleTalk Installation .....6-3
  - Installation Procedure .....6-3
  - Network Communication Set Up .....6-3
  - Test Print .....6-5

# Information Checklist

---

Before starting the AppleTalk installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                                                                                                                           | By       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| An existing operational AppleTalk network with Macintosh workstation computers equipped with Ethernet network interface cards are required. These procedures are not designed to install an AppleTalk network. | Customer |
| Macintosh System version 7.x / 8.x. / 9.x                                                                                                                                                                      | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly.                                                                                                                   | Customer |
| DC440/432/425 Macintosh print and fax driver or PPD.                                                                                                                                                           | Xerox    |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

---

**CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.**

---

# AppleTalk Installation

---

## Installation Procedure

---

There are two stages required to install the *DC440/432/425* on an AppleTalk network:

➤ Network Communication Set Up

This requires the *DC440/432/425* to be set up for AppleTalk.

➤ Test Print

A test print should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

## Network Communication Set Up

---

This procedure is used to set up the network communication parameters of the *DC440/432/425*.

At the *DC440/432/425*, perform these steps:



---

***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

---

1. Obtain and record the AppleTalk Printer Name, as it will be needed to set up the *DC440/432/425*.
2. Connect the device to the network outlet or cable.

---

**NOTE:** The *DC440/432/425* will attach itself to the default zone of the local segment where it is connected.

---

3. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select

**[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

4. Access the AppleTalk set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[AppleTalk]**.
5. Enable AppleTalk:
  - A. Select **[Enablement]**.
  - B. Select **[Enabled]**.
6. Select the Printer Name:
  - A. Select **[Printer Name]**, then select **[Edit]** and use the keyboard to enter the Printer Name for the network (31 characters, or fewer).
7. Select the Zone Name:
  - A. Select **[Zone Name]**, then select **[Edit]** and use the keyboard to enter the Zone Name for the network.
  - B. Select **[Save]**.
8. Select **[Save]** again.
9. Select **[Exit]** on the Protocol Setups screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
10. Check the settings on the Configuration Sheet against the information that was entered.
11. Install the *DC440/432/425* print driver at the workstation using the procedure located in the *Xerox CentreWare documentation*.
12. Continue with **Test Print**.

---

**NOTE:** The **Interface** and **Printer Type** buttons are read only. These specifications are defined by the hardware of the network.

---

## Test Print

---

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* in the Chooser as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*



# 7 *Microsoft Networking*

## Introduction

---

This chapter contains installation instructions for Microsoft networking environments. The following information is provided:

- Information Checklist .....7-2
- Installation Options .....7-3
- Using the Xerox CentreWare Device Admin Wizard .....7-4
  - Installation Procedure .....7-4
  - Network Communication Set Up .....7-4
  - Device Admin Wizard Set Up .....7-10
  - Test Print .....7-11
- Using Microsoft Utilities.....7-12
  - Installation Procedure .....7-12
  - Network Communication Set Up .....7-12
  - Workstation Set Up .....7-21
  - Test Print .....7-28

# Information Checklist

---

Before starting the Microsoft networking installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                                     | By       |
|--------------------------------------------------------------------------------------------------------------------------|----------|
| An existing operational Microsoft network is required, these procedures are not designed to install a Microsoft network. | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly.                             | Customer |
| Xerox CentreWare Network Services (Optional).                                                                            | Xerox    |
| DC440/432/425 print and fax drivers.                                                                                     | Xerox    |
| Token Ring PC card (Optional).                                                                                           | Xerox    |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

---

**CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.**

---



# Installation Options

---

Information is provided to support the following Microsoft Networking environments:

- Windows NT V4.0/2000 NetBIOS/NetBEUI
- Windows NT V4.0/2000 NetBIOS/IP
- Windows NT V4.0/2000 TCP/IP
- Windows 2000 Internet Printing Protocol (TCP/IP)

---

**NOTE:** NetBEUI is not recommended by Microsoft to be used as a protocol in new networks. It is recommended that this protocol is only used in small networks where existing legacy clients require it.

---

There are two main methods which can be used to complete the network installation. These are:

- Using Xerox CentreWare Device Admin Wizard

Using the Device Admin Wizard will simplify the network installation by eliminating steps that would otherwise be performed at the *DC440/432/425*, and by using Microsoft utilities.

To use this method of installation, refer to page 7-4.

- Using Microsoft Utilities

Using Microsoft utilities to install any of the various Microsoft Networking options will also require the device to be configured using the *DC440/432/425* user interface or CentreWare Internet Services.

Procedures using Microsoft utilities are provided for each Microsoft networking environment:

To use this method of installation, refer to page 7-12.

# Using the Xerox CentreWare Device Admin Wizard

---

## Installation Procedure

---

There are three stages required to install the *DC440/432/425* on a Microsoft network using the CentreWare Device Admin Wizard:

- Network Communication Set Up

This procedure will enable the *DC440/432/425* to communicate on the various Microsoft networks. Instructions are provided for the various protocols used for Microsoft Networking.

- Device Admin Wizard Set Up

This procedure is used to complete the *DC440/432/425* installation with the Device Admin Wizard.

- Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

## Network Communication Set Up

---

Instructions are provided for the various protocols used for Microsoft networking. Refer to the appropriate instructions for the network:

- NetBIOS/NetBEUI - refer to page 7-5.
- NetBIOS/IP - refer to page 7-6.
- TCP/IP - refer to page 7-8.

## NetBIOS/NetBEUI

---

This procedure is used to set up the NetBIOS/NetBEUI network communication parameters of the DC440/432/425.

At the DC440/432/425, perform these steps:



---

***HINT:** Xerox CentreWare Internet Services can also be used to configure the DC440/432/425, refer to the Internet Services chapter for instructions.*

---

1. Connect the DC440/432/425 to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

3. Access the NetBios/NetBeui set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[NetBIOS]**.
4. Enable NetBios:
  - A. Select **[Enablement]**.
  - B. Select **[Enabled]**.
5. Select the appropriate Interface for the network:
  - A. Select **[Interface]**.
  - B. From the right half of the screen, select **[Ethernet]** or **[Token Ring]** as the appropriate Interface for the network.

---

**NOTE:** Token Ring will not be available as a selection unless it has been installed and configured.

---

6. Enter the type of transport:
  - A. Select **[Additional Setups]**.
  - B. Select **[Transport]**.
  - C. Select **[NetBEUI]**.
7. Save the new settings and reset the *DC440/432/425*:
  - A. Select **[Save]**.
  - B. Select **[Exit]** on the Network Setups screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
8. Continue with **Device Admin Wizard Set Up** on page 7-10.

---

## NetBIOS/IP

---

This procedure is used to set up the NetBIOS/IP network communication parameters of the *DC440/432/425*.



---

***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

---

At the *DC440/432/425*, perform these steps:

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

3. Access the NetBIOS/IP set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.

- C. Select **[NetBIOS]**.
- 4. Enable NetBIOS:
  - A. Select **[Enablement]**.
  - B. Select **[Enabled]**.
- 5. Select the appropriate Interface for the network:
  - A. Select **[Interface]**.
  - B. From the right half of the screen, select **[Ethernet]** or **[Token Ring]** as the appropriate Interface for the network.

---

**NOTE:** Token Ring will not be available as a selection unless it has been installed and configured.

---

- 6. Enter the type of transport:
  - A. Select **[Additional Setups]**.
  - B. Select **[Transport]**.
  - C. Select **[IP]**.
  - D. Select **[Save]**.
- 7. Enable Line Printer Daemon:
  - A. Select **[TCP/IP]**.
  - B. Select **[Additional Setups]**.
  - C. Select **[LPD Enablement]**.
  - D. Select **[Enabled]**.

---

**NOTE:** The default port number for LPD is 515.

---

- 8. Save the new settings and reset the *DC440/432/425*:
  - A. Select **[Save]**.
  - B. Select **[Exit]** on the Protocol set up screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
- 9. Continue with **Device Admin Wizard Set Up** on page 7-10.

## TCP/IP

---

This procedure is used to set up the TCP/IP network communication parameters of the *DC440/432/425*.



---

***HINT:** Xerox CentreWare Internet Services can also be used to configure the DC440/432/425, refer to the Internet Services chapter for instructions.*

---

At the *DC440/432/425*, perform these steps:

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

3. Access the TCP/IP set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[TCP/IP]**.
4. Enable TCP/IP:
  - A. Select **[Additional Setups]**.
5. Select the appropriate Interface for the network:
  - A. Select **[Interface]**.
  - B. From the right half of the screen, select **[Ethernet]** or **[Token Ring]** as the appropriate Interface for the network.

---

**NOTE:** Token Ring will not be available as a selection unless it has been installed and configured.

---

6. Enable Line Printer Daemon:
  - A. Select **[LPD Enablement]**.
  - B. Select **[Enabled]**.

---

**NOTE:** The default port number for LPD is 515.

---

7. Save the new settings and reset the *DC440/432/425*:
  - A. Select **[Save]**.
  - B. Select **[Exit]** on the Protocol set up screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
8. Continue with **Device Admin Wizard Set Up** on page 7-10.

## **Internet Printing Protocol (IPP) (Windows 2000)**

---

This procedure is used to set up the IPP network communication parameters of the *DC440/432/425*.

At the *DC440/432/425*, perform these steps:

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

3. Enable and configure TCP/IP. Refer to page 7-8.
4. Enable HTTP/IPP:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[HTTP/IP]**.

5. Enable HTTP/IP:
  - A. Select **[Enablement]**.
  - B. Select **[Enabled]**.

---

**NOTE:** All other settings should normally be set to default - HTTP Port Number:80, Maximum Number of Connections:32, Keep-Alive Timeout:10.

---

## Device Admin Wizard Set Up

---

Ensure that the Xerox CentreWare Device Admin Wizard is installed on the client workstation.

*If needed, refer to the Xerox CentreWare documentation for installation instructions.*

For more detailed instructions on setting up the network, access the electronic, context-sensitive *Help* from all Network Services and Admin Services screens and dialogue boxes.

1. Locate and launch the **Device Admin Wizard**.
2. Follow the instructions on each Device Admin Wizard screen to set up the *DC440/432/425* on the network.
3. Power off and power on the device so the set up selections will take effect.
4. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
5. Continue with **Test Print** on page 7-11.



## Test Print

---

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure that the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# Using Microsoft Utilities

---

## Installation Procedure

---

There are three stages required to install the *DC440/432/425* on a NetWare network using Microsoft utilities:

- Network Communication Set Up

This procedure will enable the *DC440/432/425* to communicate on the Microsoft network. Instructions are provided for the all the protocols used for Microsoft Networking.

- Workstation Set Up

This requires the Workstations on the network to be configured for the *DC440/432/425*.

- Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

## Network Communication Set Up

---

Instructions are provided for the various protocols used for Microsoft networking. Refer to the instructions appropriate for the network:

- NetBIOS/NetBEUI and NetBIOS/IP - refer to page 7-13.
- TCP/IP - refer to page 7-16.

## NetBIOS/NetBEUI and NetBIOS/IP

---

**NOTE:** The DC440/432/425 can be connected to a Token Ring using the NetBIOS/NetBEUI protocol. If this is a Token Ring installation, the Token Ring card must be installed and configured before performing this procedure. Refer to the *Token Ring* chapter of this guide for additional information.

---

At the DC440/432/425, perform these steps:



**HINT:** Xerox CentreWare Internet Services can also be used to configure the DC440/432/425, refer to the *Internet Services* chapter for instructions.

---

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the DC440/432/425 Control Panel.
  - B. Using the keypad, enter **#[22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

**NOTE:** #22222 is the default password and may be changed by the Xerox Service Representative.

---

3. Access the NetBIOS set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[NetBIOS]**.
4. Enable NetBIOS:
  - A. Select **[Enablement]**.
  - B. Select **[Enabled]**.
5. Select the appropriate interface:
  - A. Select **[Interface]**.
  - B. From the right half of the screen, select **[Ethernet]** or

**[Token Ring]** as the appropriate interface for the network.

---

**NOTE:** Token Ring will not be available as a selection unless it has been installed and configured. The procedure to install and configure the Token Ring option is located in the *Token Ring* chapter of this guide.

---

6. Host Name set up:
  - A. Select **[Host Name]**, then select **[Edit]** and use the keyboard on the screen to enter the Host Name for the network (14 characters or less).
  - B. Select **[Save]**.
7. Share Name set up:
  - A. Select **[Share Name]**, then select **[Edit]** and use the keyboard on the screen to enter the Share Name for the network (14 characters or less, upper case only).
  - B. Select **[Save]**.
8. Workgroup Name set up:
  - A. Select **[Workgroup]**, then select **[Edit]** and use the keyboard on the screen to enter the Workgroup Name (or Domain Name).
  - B. Select **[Save]**.
9. Host Name Remark set up:
  - A. Select **[Host Name Remark]**, then select **[Edit]** and using the keyboard on the screen to enter the Host Name Remark for the network.
  - B. Select **[Save]**.
10. Share Name Comment set up:
  - A. Select **[Additional Setups]**.
  - B. Select **[Share Name Comment]**, then select **[Edit]** and use the keyboard to enter the Share Name Comment for the network.
  - C. Select **[Save]**.
11. Number of Connections set up:
  - A. Select **[Number of Connections]**.

- B. Using the arrows on the screen enter the value for the number of connections. The value range is 1 to 32.
12. Type of transport set up:
- A. Select **[Transport]**.
  - B. Select either **[IP]** or **[NetBEUI]**.

---

**NOTE:** If IP is selected, then the TCP/IP settings must also be completed. Refer to the TCP/IP instructions on page 7-16.

---

---

**NOTE:** The Workgroup Name entered must be the same as the Workgroup Name (or Domain Name) that clients are using. The Workgroup Name is the name of the group of workstations to which the printer will broadcast.

---

The *DC440/432/425* is not a master browser. If the *DC440/432/425* is the only device in the Workgroup, it will not show up on workstations unless the printer name is entered. In the Windows NT environment, the device appears on the network as though it is a workstation with a printer connected directly to it. This printer can be shared by users on other workstations. The Share Name is the name of the printer that can be shared.

The Host Name is the name of the workstation to which the printer is connected. The complete name of the printer is a combination of these two names. For example:

\\SMB Host Name\Printer Name

- 13. Select **[Save]**.
- 14. Select **[Exit]**.
- 15. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
- 16. Check the settings on the Configuration Sheet against the information that was entered.
- 17. Continue with **Workstation Set Up** on page 7-21.

## TCP/IP

---

This procedure is used to set up the TCP/IP network communication parameters of the *DC440/432/425*.



---

***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

---

At the *DC440/432/425*, perform these steps:

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the default password and may be changed by the Xerox Service Representative.

---

3. Access the TCP/IP Network set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[TCP/IP]**.
4. IP Address set up:

---

**NOTE:** DHCP AUTOIP automatically assigns IP addresses and is the default setting. If the IP Address needs to be edited but is unavailable, select *Address Resolution* and then *Static* to continue.

---

- A. Select **[IP Address]**, then select **[Edit]** and use the keypad on the screen to enter the IP Address for the *DC440/432/425*. This number is assigned by the System Administrator.
- B. Select **[Save]**.

5. Gateway Address set up:
  - A. Select **[Gateway Address]**, then select **[Edit]** and use the keypad on the screen to enter the Gateway Address of the network.
  - B. Select **[Save]**.
6. Subnet Mask set up:
  - A. Select **[Subnet Mask]**, then select **[Edit]**, and use the keypad on the screen to enter the Subnet Mask for the network (the default setting is 255.255.252.0).
  - B. Select **[Save]**.

---

**NOTE:** The Broadcast Address is set up automatically and cannot be edited.

---

---

**NOTE:** Refer to the *Glossary* for additional information about the Gateway Address, Subnet Mask and Broadcast Address, if needed.

---

7. Host Name set up:
  - A. Select **[Host Name]**, then select **[Edit]** and use the keyboard on the screen to enter the Host Name for the DC440/432/425 to use.
  - B. Select **[Save]**.
8. Address Resolution set up:
  - A. Select **[Address Resolution]**.
  - B. Select the type of addressing to be used. **[STATIC]**, **[RARP]**, **[DHCP]**, **[DHCP AUTOIP]** or **[BOOTP]**.
9. Enable TCP/IP:
  - A. Select **[Additional Setups]**.
  - B. Select **[Enablement]**, then select **[Enable]**.
10. Select the type of Interface being used:
  - A. Select **[Interface]**.
  - B. Select either **[Ethernet]** or **[Token Ring]**.
11. Select **[Save]** at the TCP/IP screen to save the network settings.

12. Set up the Raw TCP/IP Printing:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Raw TCP/IP Printing]**.
  - C. Select **[Enable]**.
  - D. Select **[Save]**.
13. Set up the Raw TCP/IP Printing Port Number:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Raw TCP/IP Printing Port Number]**.
  - C. Scroll up or down to select the port number or select the numeric window button and enter the port number.
  - D. Select **[Save]**.
14. Set up the Line Printer Daemon (LPD):

---

**NOTE:** The *DC440/432/425* contains a line printer daemon (LPD) which must be enabled if it is to be used. UNIX clients require the LPD to be running in order to print. The LPD can be running in the client workstation, in a server on the network, or in the *DC440/432/425*.

---

- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[LPD Enablement]**.
  - C. Select **[Enabled]**.
  - D. Select **[Save]**.
15. Set up the LPD Port Number:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[LPD Port Number]**.
  - C. Scroll up or down to select the port number or select the numeric window button and enter the port number.
  - D. Select **[Save]**.

---

**NOTE:** The default LPD Port Number is set to 515

---

16. Set up the Domain Name:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.



- B. Select **[Additional Setups]** again.
  - C. Select **[Domain Name]** and then select **[Edit]** and use the keypad on the screen to enter the Domain Name.
  - D. Select **[Save]**.
17. Set up the Preferred DNS Server:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Preferred DNS Server]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Preferred DNS Server.
  - D. Select **[Save]**.
18. Set up the Alternate DNS Server 1:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Alternate DNS Server 1]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Alternate DNS Server 1.
  - D. Select **[Save]**.
19. Set up the Alternate DNS Server 2:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Alternate DNS Server 2]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Alternate DNS Server 2.
  - D. Select **[Save]**.
20. Set up DDNS Registration:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[DDNS Registration]** and then select **[Enable]**.
  - D. Select **[Save]**.
21. Select **[Exit]** on the Protocol set up screen.
22. The device will reboot and print a Configuration Sheet in

approximately 3 minutes.

23. Check the settings on the Configuration Sheet against the information that was entered.
24. Continue with **Workstation Set up** on page 7-21.

## Workstation Set Up

---

This section includes the set up procedures for Windows 95, and Windows NT workstation environments.

If a LAN Manager or LAN Server network is being run, these procedures are also applicable for enabling peer-to-peer printing for Microsoft networking. To enable printing via a LAN Manager or LAN Server network server, refer to the *Network Set Up documentation* provided with the network software.

Locate and perform the workstation set up procedures for the workstation environment. Choose from:

- Windows 95/98/Millennium Edition (NetBIOS/NetBEUI and NetBIOS/IP)
- Windows NT V4.0/2000 (NetBIOS/NetBEUI and NetBIOS/IP)
- Windows NT V4.0/2000 (TCP/IP)
- Windows 2000 Internet Printing Protocol (TCP/IP)

### Windows 95/98/Me

---

1. Refer to the *Xerox CentreWare documentation* to install and set up the *DC440/432/425* Windows drivers on the workstation. Once the drivers are installed, connect a driver to the *DC440/432/425* on the network.
2. Continue with **Test Print** on page 7-28.

## Windows NT V4.0

### (NetBIOS/NetBEUI and NetBIOS/IP)

---

Use the **Add Printer Wizard** to add the *DC440/432/425* to the network.

1. At the Windows NT workstation, select **[Start]**, select **[Settings]**, and then select **[Printers]**.
2. Double-click on the **[Add Printer]** icon to display the **Add Printer Wizard**.
3. Select **[Network printer server]** and select **[Next]** to display the **Connect to Printer** dialogue box.
4. Double-click on **[Microsoft Windows Network]** to display all the Workgroups.
5. Double-click on the appropriate **[Workgroup name]** to display all the Host Names.
6. Double-click on the appropriate **[Host name]** to display all the Printer Names.
7. Double-click on the appropriate **[Printer name]** and a message may be displayed stating that a print driver needs to be installed.
8. Select **[OK]** and a dialogue box will be displayed for loading the *DC440/432/425* driver.
9. Insert the CD ROM with the *DC440/432/425* drivers into the workstation and select **[Have Disk]**.
10. Browse to the required Windows NT driver on the CD ROM and select **[OK]**.
11. Select **[OK]**, then select **[OK]** again and the *DC440/432/425* driver will be loaded onto the workstation.
12. A dialogue box will be displayed with a message that the printer has been successfully installed.
13. Select **[Finish]**.
14. Continue with **Test Print** on page 7-28.

## Windows NT V4.0 (TCP/IP)

---

**NOTE:** TCP/IP Print Services must be installed and running on the workstation.

---

Use the **Add Printer Wizard** to add the *DC440/432/425* to the network.

1. At the Windows NT workstation, select **[Start]**, select **[Settings]**, and then select **[Control Panel]**.
2. Double-click on the **[Network]** icon and then select **[Services]**.
3. Ensure that Microsoft TCP/IP Print Service is running and select **[Start]**, select **[Settings]**, and then select **[Printers]**.
4. Double-click on the **[Add Printer]** icon to display the Add Printer Wizard.
5. Select **[My Computer]** and then select **[Next]** to display the dialogue box listing available ports.
6. Select **[Add Port]** to display the **Printer Ports** dialogue box.
7. Select **[LPR Port]** and select **[New Port]** to display the Add LPR compatible printer dialogue box.
8. Enter the IP Address of the printer in the **[Name or address of server providing lpd]** field.
9. Enter **[lp]** (in lower case) in the **[Name of printer or print queue on that server]** field.

---

**NOTE:** **lp** must be entered regardless of the name of the printer or print queue. **lp** is the name of the remote printer/ server on the *DC440/432/425*. This name does not change.

---

10. Select **[OK]**.
11. Select **[Close]**.
12. With the **New Port** selected, select **[Next]**.
13. Insert the CD ROM with the *DC440/432/425* drivers into the workstation and select **[Have Disk]**.

14. Browse to the required Windows NT driver on the CD ROM and select **[OK]**.
15. Select **[Next]**, and select **[Next]** again and the *DC440/432/425* driver will be loaded onto the workstation.
16. Enter the Printer Name and select **[Next]**.
17. Select **[Shared]**, select all the Windows NT V4.0 choices for the operating systems that require access to the printer, and then select **[Next]**.
18. A dialogue box will be displayed with a message regarding the printing of a test page.
19. Select **[Finish]** to accept the **Yes** choice.
20. Continue with **Test Print** on page 7-28.

## Windows 2000

### (NetBIOS/NetBEUI and NetBIOS/IP)

---

Use the **Add Printer Wizard** to add the *DC440/432/425* to the network.

1. At the Windows 2000 workstation, select **[Start]**, select **[Settings]**, and then select **[Printers]**.
2. Double-click on the **[Add Printer]** icon to display the **Add Printer Wizard**.
3. Select **[Network Printer]** and select **[Next]** to display the **Connect to Printer** dialogue box.
4. Double-click on the appropriate **[Workgroup name]** to display all the Host Names.
5. Double-click on the appropriate **[Host name]** to display all the Printer Names.
6. Double-click on the appropriate **[Printer name]** and a message may be displayed stating that a print driver needs to be installed.
7. Select **[OK]** and a dialogue box will be displayed for loading the *DC440/432/425* driver.
8. Insert the CD ROM with the *DC440/432/425* drivers into the workstation and select **[Have Disk]**.

9. Browse to the required Windows 2000 driver on the CD ROM and select **[OK]**.
10. Select **[OK]**, then select **[OK]** again and the *DC440/432/425* driver will be loaded onto the workstation.
11. A dialogue box will be displayed with a message that the printer has been successfully installed.
12. Select **[Finish]**.
13. Continue with **Test Print** on page 7-28.

## Windows 2000 (TCP/IP)

---

**NOTE:** Windows 2000 supports printing via TCP/IP as standard when TCP/IP is installed on a Windows 2000 Workstation.

---

Use the **Add Printer Wizard** to add the *DC440/432/425* to the network.

1. Select **[Start]**, select **[Settings]**, and then select **[Printers]**.
2. Double-click on the **[Add Printer]** icon to display the Add Printer Wizard.
3. Select **[Local Printer]**, uncheck the box labelled **[Automatically detect and install my Plug and Play printer.]** and then select **[Next]** to display the dialogue box listing available ports.
4. Select **[Create a new port]** to display the **Printer Ports** dialogue box.
5. Select **[Standard TCP/IP Port]** and select **[Next]** to display the Add Standard TCP/IP Port dialogue box.
6. Enter the IP Address of the printer in the **[Name or address of printer]** field (you can optionally enter a friendly name for the printer port you are creating or use the default name created). Then select **[Next]** to continue.
7. If the network printer settings are not automatically detected, click on the **[Custom]** button to set up the network printer port settings.

8. Select **[LPR]** as the Print Protocol.
9. Enter **[lp]** (in lower case) in the **[LPR print queue]** field.
10. Uncheck the box labelled **[LPR Byte Counting Enabled]**
11. Check the box labelled **[SNMP Status Enabled]**.
12. The **[Community Name]** should normally be set to "public" (unless you have configured the device to have a custom SNMP community name) and the **[SNMP Device Index]** should be set to 1.
13. Select **[OK]**.
14. The Add Printer Wizard will then request that you select the driver to be used for this printer.
15. Insert the CD ROM with the *DC440/432/425* drivers into the workstation and select **[Have Disk]**.
16. Browse to the required Windows 2000 driver on the CDROM and select **[OK]**.
17. Select **[Next]**, and select **[Next]** again and the *DC440/432/425* driver will be loaded onto the workstation.
18. Enter the Printer Name and select **[Next]**.
19. If you wish to share the printer over the network Select **[Shared]**. You may also wish to install printer drivers for other operating systems that will access the printer.
20. A dialogue box will be displayed with a message regarding the printing of a test page.
21. Select **[Finish]** to accept the **Yes** choice.
22. Continue with **Test Print** on page 7-28.

## Windows 2000 (Internet Printing Protocol)

---

**NOTE:** Windows 2000 supports printing via IPP as standard when TCP/IP is installed on a Windows 2000 Workstation.

---

Use the **Add Printer Wizard** to add the *DC440/432/425* to the network.

1. Select **[Start]**, select **[Settings]**, and then select **[Printers]**.



2. Double-click on the **[Add Printer]** icon to display the Add Printer Wizard.
3. Select **[Connect to a printer on the Internet or on your intranet]**.
4. In the **[URL]** field enter the IP address or hostname of the printer in the following format: "<http://aaa.bbb.ccc.ddd>" or "<http://printer-host-name>", where "aaa.bbb.ccc.ddd" is the IP address of the Document Centre and "printer-host-name" is the host name of the Document Centre registered with a DNS server.
5. The Add Printer Wizard will then ask if you wish to install a local driver for this printer. You should click **[OK]** to install the driver.
6. Insert the CD ROM with the *DC440/432/425* drivers into the workstation and select **[Have Disk]**.
7. Browse to the required Windows 2000 driver on the CDROM and select **[OK]**.
8. Select **[Next]**, and select **[Next]** again and the *DC440/432/425* driver will be loaded onto the workstation.
9. A dialogue box will be displayed with a message regarding the printing of a test page.
10. Select **[Finish]** to accept the **Yes** choice.
11. Continue with **Test Print** on page 7-28.

## Test Print

---

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# 8    *TCP/IP (LPR Spooling)*

## Introduction

---

This chapter explains how to install the *DC440/432/425* on a network utilising TCP/IP and LPR Spooling. The following information is provided:

- Information Checklist ..... 8-2
- TCP/IP LPR Spooling Installation ..... 8-3
  - Installation Procedure ..... 8-3
  - Network Communication Set Up ..... 8-3
  - Workstation Set Up ..... 8-7
  - Test Print ..... 8-8

# Information Checklist

---

Before starting the TCP/IP installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                                                                                                                                                                                                                                                             | By       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| An existing operational network utilizing TCP/IP is required, these procedures are not designed to install a network.                                                                                                                                                                                                                            | Customer |
| Obtain and record the following information: <ul style="list-style-type: none"><li>• TCP/IP Address:</li><li>• Gateway Address:</li><li>• Subnet Mask:</li><li>• Broadcast Address:</li><li>• Host Name:</li></ul> <i>Refer to the Glossary for additional information on the Gateway Address, Subnet Mask and Broadcast Address, if needed.</i> | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly.                                                                                                                                                                                                                                                     | Customer |
| DC440/432/425 print and fax drivers.                                                                                                                                                                                                                                                                                                             | Xerox    |
| Token Ring PC card (Optional).                                                                                                                                                                                                                                                                                                                   | Xerox    |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

---

**CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.**

---

# TCP/IP LPR Spooling Installation

---

## Installation Procedure

---

There are three stages required to install the *DC440/432/425* in a TCP/IP LPR Spooling networking environment:

➤ Network Communication Set Up

This requires the *DC440/432/425* to be set up for TCP/IP.

➤ Workstation Set Up

This requires the workstations in the networking environment to be configured to communicate with the *DC440/432/425*.

➤ Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

## Network Communication Set Up

---

At the *DC440/432/425*, perform these steps:



---

***HINT:** Xerox CentreWare Internet Services can also be used to configure the *DC440/432/425*, refer to the Internet Services chapter for instructions.*

---

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the default password and may be changed by the Xerox Service Representative.

---

3. Access the TCP/IP Network set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[TCP/IP]**.
4. IP Address set up:

---

**NOTE:** DHCP AUTOIP automatically assigns IP addresses and is the default setting. If the IP Address needs to be edited but is unavailable, select *Address Resolution* and then *Static* to continue.

---

- A. Select **[IP Address]**, then select **[Edit]** and use the keypad on the screen to enter the IP Address for the DC440/432/425. This number is assigned by the System Administrator.
  - B. Select **[Save]**.
5. Gateway Address set up:
  - A. Select **[Gateway Address]**, then select **[Edit]** and use the keypad on the screen to enter the Gateway Address of the network.
  - B. Select **[Save]**.
6. Subnet Mask set up:
  - A. Select **[Subnet Mask]**, then select **[Edit]**, and use the keypad on the screen to enter the Subnet Mask for the network (the default setting is 255.255.252.0).
  - B. Select **[Save]**.

---

**NOTE:** The Broadcast Address is set up automatically and cannot be edited.

---

---

**NOTE:** Refer to the *Glossary* for additional information about the Gateway Address, Subnet Mask and Broadcast Address, if needed.

---

7. Host Name set up:
  - A. Select **[Host Name]**, then select **[Edit]** and use the keyboard on the screen to enter the Host Name for the DC440/432/425 to use.
  - B. Select **[Save]**.
8. Address Resolution set up:
  - A. Select **[Address Resolution]**.
  - B. Select the type of addressing to be used. **[STATIC]**, **[RARP]**, **[DHCP]**, **[DHCP AUTOIP]** or **[BOOTP]**.
9. Enable TCP/IP:
  - A. Select **[Additional Setups]**.
  - B. Select **[Enablement]**, then select **[Enable]**.
10. Select the type of Interface being used:
  - A. Select **[Interface]**.
  - B. Select either **[Ethernet]** or **[Token Ring]**.
11. Select **[Save]** at the TCP/IP screen to save the network settings.
12. Set up the Raw TCP/IP Printing:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Raw TCP/IP Printing]**.
  - C. Select **[Enable]**.
  - D. Select **[Save]**.
13. Set up the Raw TCP/IP Printing Port Number:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Raw TCP/IP Printing Port Number]**.
  - C. Scroll up or down to select the port number or select the numeric window button and enter the port number.
  - D. Select **[Save]**.
14. Set up the Line Printer Daemon (LPD):

---

**NOTE:** The DC440/432/425 contains a line printer daemon (LPD) which must be enabled if it is to be used. UNIX clients require the LPD to be running in order to print. The LPD can

be running in the client workstation, in a server on the network, or in the *DC440/432/425*. The default LPD Port Number is set to 515.

---

- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[LPD Enablement]**.
  - C. Select **[Enabled]**.
  - D. Select **[Save]**.
15. Set up the LPD Port Number:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[LPD Port Number]**.
  - C. Scroll up or down to select the port number or select the numeric window button and enter the port number.
  - D. Select **[Save]**.
16. Set up the Domain Name:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Domain Name]** and then select **[Edit]** and use the keypad on the screen to enter the Domain Name.
  - D. Select **[Save]**.
17. Set up the Preferred DNS Server:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Preferred DNS Server]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Preferred DNS Server.
  - D. Select **[Save]**.
18. Set up the Alternate DNS Server 1:
- A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Alternate DNS Server 1]** and then select **[Edit]** and use the keypad on the screen to enter the



- IP Address of the Alternate DNS Server 1.
- D. Select **[Save]**.
- 19. Set up the Alternate DNS Server 2:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[Alternate DNS Server 2]** and then select **[Edit]** and use the keypad on the screen to enter the IP Address of the Alternate DNS Server 2.
  - D. Select **[Save]**.
- 20. Set up DDNS Registration:
  - A. Select **[TCP/IP]**, then select **[Additional Setups]**.
  - B. Select **[Additional Setups]** again.
  - C. Select **[DDNS Registration]** and then select **[Enable]**.
  - D. Select **[Save]**.
- 21. Select **[Exit]** on the Protocol set up screen.
- 22. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
- 23. Check the settings on the Configuration Sheet against the information that was entered.
- 24. Continue with **Workstation Set Up** on page 8-7.

## Workstation Set Up

---

To enable the workstation environment to communicate with the *DC440/432/425* perform the following steps:

- 1. At the client, install print drivers and map to the printer. Refer to the *Xerox CentreWare documentation*, for additional information.
- 2. The remote print server name or print queue must be set to **[lp]** (lower case).
- 3. Continue with **Test Print** on page 8-8.

## Test Print

---

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# 9     *Token Ring*

## Introduction

---

This chapter explains how to install a Token Ring card into the *DC440/432/425* if required for the network configuration. The following information is provided:

- Information Checklist ..... 9-2
- Token Ring Installation ..... 9-3
  - Installing the Token Ring PCI Card ..... 9-3

# Information Checklist

---

Before starting the Token Ring installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                            | By       |
|-----------------------------------------------------------------------------------------------------------------|----------|
| An existing operational Token Ring network is required, these procedures are not designed to install a network. | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly.                    | Customer |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

---

**CAUTION: Do not connect the network cable to the DC440/432/425 until instructed to do so.**

---

# Token Ring Installation

---

Xerox will provide the Token Ring card that is best for the network configuration.

## Installing the Token Ring PCI Card

---

**NOTE:** A working Token Ring network is required in order to proceed with the installation. The Token Ring PCI card must be installed by a Xerox representative.

---

1. Power off the *DC440/432/425*.
2. Connect the Token Ring cable to the port in the Token Ring PCI card.
3. Connect the other end of the cable to the network.
4. Power on the *DC440/432/425*.
5. To ensure that the *DC440/432/425* correctly detects the Token Ring PCI card, power off and power on the *DC440/432/425* again.
6. Continue with **Network Communication Set Up - PCI Card**.

### Network Communication Set Up - PCI Card

---

1. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

2. Access the Token Ring set up screens:

- A. Select **[Print Setups]**.
- B. Select **[Port Setups]**.
- C. Select **[Token Ring]**.

---

**NOTE:** Token Ring will be automatically enabled after the PCI card has been installed.

---

- 3. MAC Address set up:
  - A. Select **[MAC Address]**.
  - B. Select **[Edit]**, and use the keypad on the screen to enter the MAC address.
  - C. Select **[Save]**.
- 4. Source Routing set up:
  - A. Select **[Source Routing]**.
  - B. Select one of the following options:
    - **[All]**
    - **[Single]**
    - **[None]**
- 5. Speed set up:
  - A. Select **[Speed]**.
  - B. Select one of the following options:
    - **[Auto]**
    - **[4 Mbps]**
    - **[16 Mbps]**
- 6. Select **[Save]**.
- 7. Select **[Close]** on the Port set up screen. The device will reboot and print a Configuration Sheet in approximately 3 minutes.
- 8. Check the settings on the Configuration Sheet against the information that was entered.
- 9. Refer to the appropriate chapter of this guide and complete the *DC440/432/425* network installation.

# 10 *Parallel Port Environment*

## Introduction

---

This chapter explains how to install *DC440/432/425* in a parallel port environment. The following information is provided:

- Information Checklist ..... 10-2
- Parallel Port Environment Installation ..... 10-3
  - Installation Procedure ..... 10-3
  - Parallel Port Communication Set Up..... 10-4
  - Workstation Set Up ..... 10-5
  - Test Print ..... 10-5

# Information Checklist

---

Before starting the parallel port installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                         | By       |
|----------------------------------------------------------------------------------------------|----------|
| IEEE 1284C Parallel Port Cable                                                               | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly. | Customer |
| DC440/432/425 print and fax drivers.                                                         | Xerox    |

**NOTE:** The installation procedures will install the DC440/432/425 on the parallel port of the host workstation. The procedure is not intended to connect the host workstation to other workstations.

---

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

---

**CAUTION:** Do not connect the network cable to the DC440/432/425 until instructed to do so.

---



# Parallel Port Environment Installation

---

## Installation Procedure

---

The *DC440/432/425* can be connected directly to the parallel port of a host workstation. A document file can be sent from the host workstation via the parallel port to the *DC440/432/425*, where it is printed. Other workstations can be connected via a network to the host workstation. Each workstation has a queue that can hold a number of files.

The document file is sent from the queue in the workstation to the queue in the host workstation and then on to the queue in the *DC440/432/425* to be printed.

There are three stages required to install the *DC440/432/425* on a Parallel Port:

- Parallel Port Communication Set Up

This requires the *DC440/432/425* to be set up for parallel port printing.

- Workstation Set Up

This requires the workstation to be configured to print to the *DC440/432/425*.

- Test Print

A print job should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

## Parallel Port Communication Set Up

---

This procedure is used to set up the parallel port communication parameters of the *DC440/432/425*. At the *DC440/432/425*, perform these steps:

1. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the default password and may be changed by the Xerox Service Representative.

---

2. Access the Parallel Port set up screens:
  - A. Select **[Print Setups]**.
  - B. Select **[Port Setups]**.
  - C. Select **[Parallel Port]**. The Parallel Port set up screen will be displayed.
3. Parallel Port enablement set up:
  - A. Select **[Enablement]**.
  - B. Select **[Enabled]**.
4. Timeout set up:
  - A. Select **[Timeout]** and use the Up and Down arrow keys to select a value from 1 to 60 seconds.
  - B. Select **[Save]**. (A value from 10 to 20 is recommended.) The Timeout interval is the number of seconds the *DC440/432/425* will wait to receive input before it declares an End of Job.
5. Select **[Close]**. A message will be displayed stating that the device will be reset so that the set up selections will take effect.
6. The device will reboot and print a Configuration Sheet in approximately 3 minutes.

7. Check the settings on the Configuration Sheet against those entered.
8. Connect one end of the parallel cable to the parallel port at the top rear of the *DC440/432/425*.
9. Power off the host workstation.
10. Connect the other end of the parallel cable to the parallel port on the host workstation.
11. Power on the host workstation.
12. Continue with **Workstation Set Up**.

## Workstation Set Up

---

1. The parallel port settings on the host workstation must be set to Standard Centronics Printer Port mode. EPP and ECP modes are not supported. This setting is normally configured in the PC BIOS setting. For further information please refer to the documentation received with the PC.
2. Refer to the *Xerox CentreWare documentation*, and install the *DC440/432/425* drivers for the environment on all the workstations that will be sending jobs to the *DC440/432/425*.
3. Continue with **Test Print**.

## Test Print

---

To ensure the *DC440/432/425* has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a workstation.
2. Select the *DC440/432/425* as the printer to which the document will be sent.
3. Print the selected document on the device and verify that it prints correctly.
4. Repeat the test for all workstations that will be sending jobs to the device.
5. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# 11 Internet Services

## Introduction

---

This chapter explains how to enable and use the Internet Services feature of *DC440/432/425*. The following information is provided:

- Information Checklist ..... 11-3
- Enabling CentreWare Internet Services ..... 11-4
  - Introduction ..... 11-4
  - Network Communication Set Up ..... 11-5
  - Test Print ..... 11-8
- Job Management ..... 11-9
- Using Internet Services to Install DC440/432/425 ..... 11-11
  - Ethernet ..... 11-12
  - Parallel Port ..... 11-13
  - Token Ring ..... 11-14
  - AppleTalk ..... 11-15
  - Banyan VINES ..... 11-18
  - NetWare ..... 11-21
  - Line Printer Daemon (LPR/LPD) ..... 11-26
  - Microsoft Network ..... 11-28
  - TCP/IP ..... 11-31
  - Raw TCP/IP Printing ..... 11-34
  - SNMP Configuration ..... 11-36
  - HTTP/IPP ..... 11-42

|                        |       |
|------------------------|-------|
| ➤ Setting up PCL.....  | 11-45 |
| ➤ Authentication ..... | 11-46 |

# Information Checklist

Before starting the procedure for enabling the Internet Services feature, please ensure the following items are available or have been performed:

| Item                                                                                                                                                                                                                                                                                                                                  | By       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| An existing operational workstation with TCP/IP Internet or Intranet accessibility is required. These procedures are not intended to install the TCP/IP stack itself.                                                                                                                                                                 | Customer |
| Obtain and record the following information: <ul style="list-style-type: none"> <li>• A Unique IP Address:</li> <li>• Gateway Address:</li> <li>• Subnet Mask:</li> <li>• Broadcast Address:</li> </ul> Refer to the <i>Glossary</i> for additional information on the Gateway Address, Subnet Mask and Broadcast Address, if needed. | Customer |
| Test the DC440/432/425 Copier/Fax to ensure it is installed fully and functioning correctly.                                                                                                                                                                                                                                          | Customer |
| Xerox CentreWare Internet Services.                                                                                                                                                                                                                                                                                                   | Xerox    |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

# Enabling CentreWare Internet Services

---

## Introduction

---

CentreWare Internet Services uses the embedded HTTP Server on the *DC440/432/425* to allow communication with the *DC440/432/425* if you have a Web Browser with access to the Internet or Intranet. By entering the IP Address of the *DC440/432/425* as the URL (Universal Resource Locator) in the Browser, direct access to the *DC440/432/425* is available.

---

**NOTE:** Microsoft Internet Explorer version 4.x or later, or Netscape Navigator 4.x or later, should be used. Other browsers may work, but could produce unexpected results.

---

Many of the selections and settings needed to install *DC440/432/425* on a network can be made using Internet Services, eliminating steps that would otherwise need to be performed at the *DC440/432/425* Control Panel.

Many of the features available within Internet Services will require an admin user name and password. A user will only be prompted for an admin name and password once in a single browser session.

Before the Internet Services feature can be used for installing *DC440/432/425* on a network it must be enabled. There are two stages required to enable Internet Services:

➤ Network Communication Set Up

This requires the *DC440/432/425* to be set up for Internet Services.

➤ Test Print

A test print should be submitted to ensure the *DC440/432/425* has been installed and configured correctly.

---

**NOTE:** When making more than one configuration change please complete all the changes in one go and then carry out a reboot.

---



## Network Communication Set Up

---

This procedure is used to enable Internet Services at the DC440/432/425 Control Panel:

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the DC440/432/425 Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

3. Set up HTTP/IPP:
  - A. Select **[Print Setups]**.
  - B. Select **[Protocol Setups]**.
  - C. Select **[HTTP/IPP]**.
4. Enable HTTP/IPP:

---

**NOTE:** IPP (Internet Printing Protocol) is integrated into the HTTP server, to use IPP the HTTP server must also be enabled. Enabled should be the default setting on installation.

---

- A. Select **[Enablement]**.
  - B. Select **[Enabled]**.
5. HTTP Port Number set up:
  - A. Select **[HTTP Port Number]**.
  - B. Select the numeric window on the screen, and then use the pop up screen to enter a value.
  - C. Select **[Save]**.

---

**NOTE:** The default port number is 80 and it is recommended that this should not be changed.

---

6. Maximum Number of Connections setup:
  - A. Select **[Maximum Number of Connections]**.
  - B. Select the numeric window on the screen, and then use the pop up screen to enter a value.
  - C. Select **[Save]**.
7. Keep-Alive Timeout set up:
  - A. Select **[Keep-Alive Timeout]**.
  - B. Select the numeric window on the screen, and then use the pop up screen to enter a value.
  - C. Select **[Save]**.
8. Select **[Save]**.
9. Access the TCP/IP Network Setups screen:
  - A. Select **[TCP/IP]** from the Protocols Setups screen.
10. Address Resolution set up:
  - A. Select **[Address Resolution]**.
  - B. Select the type of addressing to be used, **[STATIC]**, **[RARP]**, **[DHCP]**, **[DHCP AUTOIP]** or **[BOOTP]**.

---

**NOTE:** If RARP, DHCP, DHCP AUTOIP or BOOTP are selected an IP address does not have to be entered. The IP address will be assigned to the device at boot up.

---

11. IP Address set up:

---

**NOTE:** DHCP AUTOIP automatically assigns IP addresses and is the default setting. If the IP Address needs to be edited but is unavailable, select *Address Resolution* and then *Static* to continue.

---

- A. Select **[IP Address]**, then select **[Edit]** and use the keypad on the screen to enter the IP Address for the DC440/432/425. This number is assigned by the System Administrator.
- B. Select **[Save]**.

12. Gateway Address set up:
  - A. Select **[Gateway Address]**, then select **[Edit]** and use the keypad on the screen to enter the Gateway Address of the network.
  - B. Select **[Save]**.
13. Subnet Mask set up:
  - A. Select **[Subnet Mask]**, then select **[Edit]**, and use the keypad on the screen to enter the Subnet Mask for the network (the default setting is 255.255.252.0).
  - B. Select **[Save]**.

---

**NOTE:** The Broadcast Address is set up automatically and cannot be edited.

---

---

**NOTE:** Refer to the *Glossary* for additional information about the Gateway Address, Subnet Mask and Broadcast Address, if needed.

---

14. Host Name set up:
  - A. Select **[Host Name]**, then select **[Edit]** and use the keyboard on the screen to enter the Host Name for the *DC440/432/425* to use.
  - B. Select **[Save]**.

---

**NOTE:** TCP/IP will be Enabled on machine installation, this setting cannot be changed.

---

15. Select the type of TCP/IP Interface being used:
  - A. Select **[Additional Setups]**.
  - B. Select **[Interface]**.
  - C. Select either **[Ethernet]** or **[Token Ring]**.
16. Select **[Save]** at the TCP/IP screen to save the protocol settings.
17. Select **[Save]** to save the network settings.
18. Select **[Exit]** on the Protocol Setups screen. The device will reboot and print a configuration sheet in approximately 3 minutes.

19. Check the settings on the Configuration Sheet against the information that was entered.
20. Continue with **Test Print**.

## Test Print

---

To ensure Internet Services has been set up correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Create a print-ready PostScript, PCL, or ASCII text file and save it on a client workstation.
2. From a workstation that is connected to the Internet or an Intranet, use a Browser to access the *DC440/432/425* embedded HTTP Server Home Page.
3. In the URL field, enter the IP Address of the *DC440/432/425*.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

http://192.168.100.100

4. Verify that files can be sent from the workstation to the *DC440/432/425* and that they print.
  - A. At the CentreWare Internet Services homepage for the *DC440/432/425* select **[Services]**.
  - B. Select **[Job Submission]** and complete displayed details.
  - C. Select the green **[Start]** button displayed at the bottom of the screen.
5. The Internet Services installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# Job Management

---

You can use Job Management to set authorisation for the category of user who may delete jobs from the Job Queue.

## Setting up Job Management

---

Use these instructions to set up Job Management using CentreWare Internet Services.

---

**NOTE:** The Job Management settings for the device will have been set up when completing the *Enabling CentreWare Internet Services* section.

---

To set up Job Management, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[General Setup]**.
5. Select **[Job Management]**.
6. Select the appropriate **Job Deletion** radio button.

---

**NOTE:** Select **All Users** to allow all users to manipulate jobs within the Web UI Print Queue, or select **Administrators Only** to restrict access to admin user name and password access only.

---

7. Click the **[Apply New Settings]** button to implement any changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

8. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**. The new setting will be applied.

# Using Internet Services to Install DC440/432/425

---

CentreWare Internet Services provides an alternative method of configuring the device settings in order to successfully complete installation on a network.

Instructions are provided for configuring the device for the following network environments.

*Refer to the appropriate instructions for the network being used:*

- Ethernet - page 11-12
- Parallel Port - page 11-13
- Token Ring - page 11-14
- AppleTalk - page 11-15
- Banyan VINES - page 11-18
- NetWare - page 11-21
- Line Printer Daemon - page 11-26
- Microsoft Network - page 11-28
- TCP/IP - page 11-31
- Raw TCP/IP Printing - page 11-34
- SNMP Configuration - page 11-36
- HTTP/IPP - page 11-42

---

**NOTE:** Microsoft Internet Explorer version 4.x or later, or Netscape Navigator 4.x or later, should be used. Other browsers may work, but could produce unexpected results.

---

# Ethernet

---

Use these instructions to enable Ethernet using CentreWare Internet Services:

To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the Properties frame, and then select the **[+]** symbol to the left of the **Interfaces** folder.
5. In the Properties frame, within the Physical Connections folder, select **[Ethernet]**.
6. Enter the appropriate **[Speed (Mbps)]**.
7. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
  - F. Select **[Reboot Machine]** to enable the selections to take effect.



Use these instructions to enable Parallel Port Printing using CentreWare Internet Services:

To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the Properties frame, and then select the **[+]** symbol to the left of the **Interfaces** folder.
5. In the Properties frame, within the Physical Connections folder, select **[Parallel Port]**.
6. Select the checkbox to enable the device's parallel port.
7. Enter the **[Timeout]** parameter.
8. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
  - F. Select **[Reboot Machine]** to enable the selections to take effect.

# Token Ring

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Use these instructions to enable Token Ring using CentreWare Internet Services:

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**NOTE:** You must have a working Token Ring network in order to proceed with the installation. A Token Ring PCI card must be installed by a Xerox representative.

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To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the Properties frame, and then select the **[+]** symbol to the left of the **Interfaces** folder.
5. In the Properties frame, within the Physical Connections folder, select **[Token Ring]**.
6. Select the required **[Speed (Mbps)]**.
7. Enter the **[Mac Address]**.

---

**NOTE:** Only change this address if required. A default address is already entered. If the address is changed it will be referred to as Locally Assigned Address (LAA)

---

8. Select the required **[Source Routing]**.
9. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.

- B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
- C. A dialog box indicating the properties have been successfully modified will be displayed.
- D. Select **[OK]**.
- E. Select the **[Status]** tab.
- F. Select **[Reboot Machine]** to enable the selections to take effect.

## AppleTalk

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Use these instructions to install device on an AppleTalk network using CentreWare Internet Services.

### Installation Procedure

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There are two stages required to install the device on an AppleTalk network using CentreWare Internet Services:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Test Print

A print job should be submitted to ensure the device has been installed and configured correctly.

### Configure the DC440/432/425

---

To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

http://192.168.100.100

3. At the CentreWare Internet Services Home Page for the DC440/432/425, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the Properties frame, and then select the **[+]** symbol to the left of the **Protocols** folder.
5. In the Properties frame, within the Protocols folder, select **[AppleTalk]**.
6. Make the following selections and settings in the AppleTalk Physical Configuration section of the Protocols frame:
  - A. Select the checkbox to enable AppleTalk.
  - B. In the Physical Interface field, **Ethernet** will be the default setting.
  - C. Enter the **[Printer Name]**. Use a meaningful name, such as the location of the device.
7. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
  - F. Select **[Reboot Machine]** to enable the selections to take effect.
  - G. Exit CentreWare Internet Services.
8. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
9. Continue with **Test Print** on page 11-17.

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the *DC440/432/425* in the Chooser as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the *DC440/432/425*.
5. Repeat the test for all workstations that will be sending jobs to the *DC440/432/425*.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# Banyan VINES

---

Use these instructions to install device on a Banyan VINES network using CentreWare Internet Services.

## Installation Procedure

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There are two stages required to install the device on a Banyan VINES network using CentreWare Internet Services:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Test Print

A print job should be submitted to ensure the device has been installed and configured correctly.

## Configure the DC440/432/425

---

To complete the installation of the device, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the device. Then select the **[Enter]** key.  
Example: If the IP Address is 192.168.100.100, enter the following in the URL field:  
`http://192.168.100.100`
3. At the CentreWare Internet Services Home Page for the device, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the **Properties** frame and then select the **[+]** symbol to the left of the **Protocols** folder.
5. In the Properties frame, within the Protocols folder, select **[Banyan VINES]**.
6. Make the following selections and settings in the Banyan

VINES Physical Configuration section of the Protocols frame:

- A. Select the checkbox to enable Banyan VINES.
  - B. In the Physical Interface field, **Ethernet** will be the default setting.
  - C. Enter the **[User Name]**.
  - D. Enter the **[Password]**.
  - E. Confirm the password in the **[Confirm Password]** field.
  - F. Enter the **[Print Service Name]**.
7. Apply the new settings and reset the device:
- A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
  - F. Select **[Reboot Machine]** to enable the selections to take effect.
  - G. Exit CentreWare Internet Services.
8. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
9. Continue with **Test Print** on page 11-20.

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the device as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*



Use these instructions to install *DC440/432/425* on a NetWare network using CentreWare Internet Services.

## Installation Procedure

---

There are three stages required to install the *DC440/432/425* on a NetWare network using CentreWare Internet Services:

➤ **PCONSOLE or NWADMIN Set Up**

This procedure is used to set up the network using NetWare's PCONSOLE or NWADMIN utility.

➤ **Configure the *DC440/432/425***

This procedure explains how to use CentreWare Internet Services to configure the *DC440/432/425*.

➤ **Test Print**

A print job should be submitted to ensure the device has been installed and configured correctly.

## PCONSOLE or NWADMIN Set Up

---

If this is a Token Ring with NetWare installation, the Token Ring card must be installed and configured before performing this procedure.

*Refer to the Token Ring chapter of this guide for additional information.*

If running NLSP, be sure that RIP/SAP compatibility is configured on the same segment as the *DC440/432/425*.

Using the PCONSOLE or NWADMIN utility, perform the following steps:

1. Login to File Server as Supervisor or equivalent.
2. Create the Print Queue.
3. Create Print Server Name and Password.

4. Define the printer as *Defined Elsewhere* or *Remote/Other Unknown*.
5. Verify the Frame Type.
6. Obtain and record the following information from the set up just completed. This information is needed to configure the device with CentreWare Internet Services:
  - File Server Name
  - Print Server Name
  - Print Server Password
  - Frame Type
7. Continue with **Configure the DC440/432/425** on page 11-22.

## Configure the DC440/432/425

---

To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.
  - Example: If the IP Address is 192.168.100.100, enter the following in the URL field:  
`http://192.168.100.100`
3. At the CentreWare Internet Services Home Page for the device, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the **Properties** frame and then select the **[+]** symbol to the left of the Protocols folder.
5. In the Properties frame, within the Protocols folder, select **[Netware]**.
6. Make the following selections and settings in the **General** section of the **Protocols** frame:
  - A. Select the checkbox to enable NetWare.
  - B. In the Physical Connection field, **Ethernet** will be the

default setting. The option to change this setting will be available only if the **Token Ring** option has been installed. Select the appropriate interface.

- C. Select the **Frame Type**. Choose from:
  - [IEEE\_802.3]**
  - [Ethernet II]**
  - [IEEE\_802.2]**
  - [IEEE\_802.5]** (Token Ring)
  - [Token Ring Snap]**
  - [Auto]**
- D. Set the **[Poll Interval]**.  
This value determines how often the *DC440/432/425* polls the NetWare file server to check if there is a file at the server to be printed or faxed. Enter a value from 1 to 240 seconds.
- E. Enter the **[Print Server]** name. Use a meaningful name, such as the location of the device.
- F. Enter the print server **[Password]**.

---

**NOTE:** The Printer Server Name and Password must match those entered using PConsole or the NW Admin utility.

---

- G. Confirm the password in the **[Confirm Password]** field.
- 7. Set the Service Advertising Protocol (SAP):
    - A. Make the following selections and settings in the Netware **Service Advertising Protocol (SAP)** section of the **Protocols** frame.  
Select the checkbox to enable SAP.  
Enter the **[SAP Interval]**.
  - 8. For a Bindery installation make the following selections and settings in the Netware **Bindery Settings** section of the **Protocols** frame.
    - A. Enter the **[File Server 1:]** name.  
If using NetWare 3.x, there can be as many as four separate entries, **[File Server 1:]**, **[File Server 2:]**,

**[File Server 3:] and [File Server 4:].**

---

**NOTE:** If using NetWare 4.x or 5.0, delete any characters currently in the **File Server Name** fields and enter a dash [-].

---

9. For a NDS installation make the following selections and settings in the Network **NDS Settings** section of the **Protocols** frame:
  - A. Enter the NDS **[Tree]**.
  - B. Enter the NDS **[Context]**.
10. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
11. Select **[Reboot Machine]** to enable the selections to take effect.
12. Exit CentreWare Internet Services.
13. Install the device printer driver at the workstation using the procedure located in the *Xerox CentreWare documentation*.
14. Continue with **Test Print** on page 11-25

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the device as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# Line Printer Daemon (LPR/LPD)

---

Use these instructions to install the device on a LPR/LPD network using CentreWare Internet Services.

## Installation Procedure

---

There are two stages required to install the device on a LPR/LPD network using CentreWare Internet Services:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Test Print

A print job should be submitted to ensure the device has been installed and configured correctly.

## Configure the DC440/432/425

---

To complete the installation of the device, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the device, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the **Properties** frame and then select the **[+]** symbol to the left of the **Protocols** folder.
5. In the Properties frame, within the Protocols folder, select **[LPR/LPD]**.

6. Select the checkbox to enable the Line Printer Daemon protocol.

---

**NOTE:** The default LPD number is 515. This can be changed if required.

---

7. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
  - F. Select **[Reboot Machine]** to enable the selections to take effect.
  - G. Exit CentreWare Internet Services.
8. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
9. Continue with **Test Print** on page 11-30.

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the device as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure that the driver is installed on every workstation that will be sending jobs to the device.

5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.  
*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

## Microsoft Network

---

Use these instructions to install the device on a Microsoft network using CentreWare Internet Services.

### Installation Procedure

---

There are two stages required to install the device on a Microsoft network using CentreWare Internet Services:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Test Print

A print job should be submitted to ensure the device has been installed and configured correctly.

### Configure the DC440/432/425

---

To complete the installation of the device, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`



3. At the CentreWare Internet Services Home Page for the device, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the **Properties** frame and then select the **[+]** symbol to the left of the **Protocols** folder.
5. In the Properties frame, within the Protocols folder, select **[Microsoft Network]**.
6. Select the checkbox to enable Microsoft Networking.
7. Select the type of **[Transport]**. This will either be TCP/IP, NetBIOS/NetBEUI.

---

**NOTE:** If the transport selected is TCP/IP the **Physical Connections** settings will be Read Only and reflect the Physical Connection setting in the TCP/IP set up. Refer to page 11-31

---

8. In the **Physical Connection** field, **Ethernet** will be the default setting. The option to change this setting will be available only if the **Token Ring** and **Microsoft** option has been installed. Select the appropriate interface.
9. Enter the **[Maximum Connections]** allowed.
10. Enter the **[Workgroup]** Name.
11. Enter the **[Host Name]**.
12. Enter the **[Host Name Comment]**.
13. Enter the **[Share Name]**.
14. Enter the **[Share Name Comment]**.
15. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.

- F. Select **[Reboot Machine]** to enable the selections to take effect.
  - G. Exit CentreWare Internet Services.
16. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
  17. Continue with **Test Print**.

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the device as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

Use these instructions to install the device on a TCP/IP network using CentreWare Internet Services.

## Installation Procedure

---

There are two stages required to install the device on a TCP/IP network using CentreWare Internet Services:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Test Print

A print job should be submitted to ensure the device has been installed and configured correctly.

## Configure the DC440/432/425

---

**NOTE:** The TCP/IP settings for the device will have been set up when completing the *Enabling CentreWare Internet Services* section.

---

To complete the installation of the device, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.

4. Select the plus symbol (+) to the left of the **[Connectivity]** folder in the **Properties** frame, and then select the plus symbol to the left of the **Protocols** folder.
5. Select **[TCP/IP]** and check the **Protocol Configuration** details are correct. If any of the details are incorrect then enter the correct information.
6. In the **Physical Connection** field, **Ethernet** will be the default setting. The option to change this setting will be available only if the **Token Ring** option has been installed. Select the appropriate interface.
7. Enter the **[Host Name]**.
8. Enter the **[Address Resolution Mode]**

---

**NOTE:** DHCP AUTOIP automatically assigns IP addresses and is the default setting. If the IP Address needs to be edited but is unavailable, select *Address Resolution* and then *Static* to continue.

---

9. Enter the **[IP Address]**.
10. Enter the **[Subnet Mask]**.
11. Enter the **[Gateway Address]**.
12. Check the **Dynamic DNS Registration** details and if necessary enter the correct information required.
13. Scroll down the screen and check the **SLP Configuration** details and if necessary enter the correct information required.
14. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.

- F. Select **[Reboot Machine]** to enable the selections to take effect.
  - G. Exit CentreWare Internet Services.
15. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
  16. Continue with **Test Print**.

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the device as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Ensure the driver is installed on every workstation that will be sending jobs to the device.
5. Repeat the test for all workstations that will be sending jobs to the device.
6. The installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

# Raw TCP/IP Printing

---

Use these instructions to install a device on an LPD network using CentreWare Internet Services.

## Installation Procedure

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There are two stages required to install the device on an Raw TCP/IP printing network using CentreWare Internet Services:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Test Print

A print job should be submitted to ensure the device has been installed and configured correctly.

## Configure the DC440/432/425

---

To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol **[+]** to the left of the **Connectivity** folder in the **Properties** frame, and then select the **[+]** symbol to the left of the **Protocols** folder.
5. Select **[Raw TCP/IP Printing]** and then select the checkbox to enable Raw TCP/IP Printing.

6. Select **[Raw TCP/IP Printing Port Number]** and then enter the required port number.

---

**NOTE:** The default Port Number is 9100.

---

7. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Select the **[Status]** tab.
  - F. Select **[Reboot Machine]** to enable the selections to take effect.
  - G. Exit CentreWare Internet Services.
8. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.  
*If using a Windows environment, refer to the Microsoft Networking chapter for instructions on workstation set up.*
9. Continue with **Test Print** on page 11-35

---

## Test Print

---

To ensure the device has been installed on the network correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Open a document on a client workstation.
2. Select the device as the printer to which the selected document will be sent.
3. Print the document on the device and verify that it prints correctly.
4. Make sure that the driver is installed on every workstation that will be sending jobs to the device.

5. Repeat the test for all workstations that will be sending jobs to the device.
  6. The installation process is now complete.
- If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*

## SNMP Configuration

---

Use these instructions to install SNMP using CentreWare Internet Services.

- Installing and configuring SNMP - page 11-36
- Add new IP Trap destination addresses - page 11-38
- Add new IPX Trap destination addresses - page 11-39
- Edit existing Trap destination addresses - page 11-41

### Installing and configuring SNMP

---

To complete the installation of the device, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Connectivity]** folder in the **Properties** frame, and then select the plus symbol to the left of the **Protocols** folder.
5. Select **[SNMP Configuration]**.
6. Select **[Edit SNMP Properties]** in the SNMP properties section to set change the SNMP configuration.



7. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
8. Make the following entries within the **Community Names** section of the **SNMP configuration** frame.
  - A. Enter the **[GET Community Name]**.
  - B. Enter the **[SET Community Name]**.

---

**NOTE:** Changes made to the GET or SET Community Names for this machine will require corresponding changes to each application communicating through SNMP with this machine.

---

9. Within the **Default Trap Community Name** section of the **SNMP configuration** frame, enter the **[TRAP Community Name]**.

---

**NOTE:** The default TRAP Community Name is the TRAP Community Name initially used by new Destination Addresses receiving SNMP event notification. This may be changed when a new Destination Address is added to the list to receive notification of events.

The Default Destination TRAP Community Name may also be used by third-party applications that do not wish to define a unique name for receiving event notifications.

---

10. Within the **Authentication Failure Generic Traps** section of the **SNMP Configuration** frame select the checkbox to enable Authentication Failure Generic Traps.

---

**NOTE:** When Authentication Failure Generic is enabled, this machine delivers traps of this type to Destination Address requesting this event notification.

---

11. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. A dialog box indicating the properties have been successfully modified will be displayed.
  - C. Select **[OK]**.

- D. Select the **[Status]** tab.
- E. Select **[Reboot Machine]** to enable the selections to take effect.
- F. Exit CentreWare Internet Services.

## Add a new IP Trap Destination Address

---

To add a new IP Trap Destination address, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Connectivity]** folder in the **Properties** frame, and then select the plus symbol to the left of the **Protocols** folder.
5. Select **[SNMP Configuration]**.
6. Select **[Add IP Address]** in the **SNMP Configuration** frame.
7. Within the **Add IP Trap Destination Address** section of the **SNMP Configuration** frame, make the following selections:
  - A. Enter the **[IP Address]**.
  - B. Enter the **[UDP Port Number]**.
  - C. Select the **[SNMP Version]** by selecting the correct checkbox.

8. Within the **Traps** section of the **SNMP Configuration** frame, make the following selections:
  - A. Enter the **[TRAP Community Name]**.
  - B. Select the corresponding checkbox for the **[Traps to be Received]** the choices are: **Printer Traps, Job Monitoring Traps, Cold Start Generic Traps, Warm Start Generic Traps** and **Authentication Failure Generic Traps (Enable)**
9. Apply the new settings:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Exit CentreWare Internet Services.

---

**NOTE:** A reboot is not required after the changes have been applied.

---

## Add a new IPX Trap Destination Address

---

To add a new IPX Trap Destination address, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.  
 Example: If the IP Address is 192.168.100.100, enter the following in the URL field:  
`http://192.168.100.100`
3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.

4. Select the plus symbol (+) to the left of the **[Connectivity]** folder in the **Properties** frame, and then select the plus symbol to the left of the **Protocols** folder.
5. Select **[SNMP Configuration]**.
6. Select **[Add IPX Address]** in the **SNMP Configuration** frame.
7. Within the **Add IPX Trap Destination Address** section of the **SNMP Configuration** frame, make the following selections:
  - A. Enter the **[IPX External Network Number]**.
  - B. Enter the **[Physical MAC Address]**.
  - C. Enter the **[IPX Socket Number]**.
  - D. Select the **[SNMP Version]** by selecting the correct checkbox.
8. Within the **Traps** section of the **SNMP Configuration** frame, make the following selections:
  - A. Enter the **[TRAP Community Name]**.
  - B. Select the corresponding checkbox for the **[Traps to be Received]** the choices are: **Printer Traps**, **Job Monitoring Traps**, **Cold Start Generic Traps**, **Warm Start Generic Traps** and **Authentication Failure Generic Traps (Enable)**.
9. Apply the new settings:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.
  - D. Select **[OK]**.
  - E. Exit CentreWare Internet Services.

---

**NOTE:** A reboot is not required after the changes have been applied.

---

## Edit an Existing Trap Address

To add a new IP Trap Destination address, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Connectivity]** folder in the **Properties** frame, and then select the plus symbol to the left of the **Protocols** folder.
5. Select **[SNMP Configuration]**.
6. Select the checkbox of the Trap address to be edited in the **Trap Destination Address** section of the **SNMP Configuration** frame
7. Select **[Edit]** in the **SNMP Configuration** frame.
8. Within the **Edit Traps** section of the **SNMP Configuration** frame edit the corresponding checkbox for the **[Traps to be Received]** the choices are: **Printer Traps**, **Job Monitoring Traps**, **Cold Start Generic Traps**, **Warm Start Generic Traps** and **Authentication Failure Generic Traps (Enable)**.
9. Apply the new settings:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A dialog box indicating the properties have been successfully modified will be displayed.

- D. Select **[OK]**.
- E. Exit CentreWare Internet Services.

---

**NOTE:** A reboot is not required after the changes have been applied.

---

## HTTP/IPP

---

Use these instructions to set up HTTP/IPP using CentreWare Internet Services.

---

**NOTE:** The HTTP settings for the device will have been set up when completing the *Enabling CentreWare Internet Services* section.

---

To complete the installation of the device, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.  
  
Example: If the IP Address is 192.168.100.100, enter the following in the URL field:  
`http://192.168.100.100`
3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Connectivity]** folder in the **Properties** frame, and then select the plus symbol to the left of the **HTTP** folder.
5. Select **[Configuration]** and check the **HTTP Configuration** details are correct. If any of the details are incorrect then enter the correct information.
6. Select the checkbox to enable HTTP.
7. Enter the **[Keep Alive Timeout]**.
8. Enter the **[Maximum Connections]**.

9. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A Reconfiguration Successful message will be displayed.
10. Select **[IP Restriction]** and check the details are correct. If any of the details are incorrect then enter the correct information.
11. Enter the **IP Address** and select either **[Grant]**, **[Restrict]** or **[Remove]**. Repeat for each **IP Address** entered.

---

**NOTE:** Select Promote or Demote to re-order the IP Address Permissions.

---

12. Apply the new settings and reset the device:
  - A. Select **[Apply New Settings]**. The settings will be sent to the device.
  - B. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.
  - C. A Reconfiguration Successful message will be displayed.
13. Exit CentreWare Internet Services.
14. Using the procedure located in the *Xerox CentreWare documentation*, install the driver for the workstation.
15. Continue with **Test Print** on page 11-44

## Test Print

---

To ensure Internet Services has been set up correctly a test print should be submitted from a client workstation. Perform the following steps:

1. Create a print-ready PostScript, PCL, or ASCII text file and save it on a client workstation.
2. From a workstation that is connected to the Internet or an Intranet, use a Browser to access the *DC440/432/425* embedded HTTP Server Home Page.
3. In the URL field, enter the IP Address of the *DC440/432/425*.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

http://192.168.100.100

4. Verify that files can be sent from the workstation to the *DC440/432/425* and that they print.
  - A. At the CentreWare Internet Services homepage for the *DC440/432/425* select **[Services]**.
  - B. Select **[Job Submission]** and complete displayed details.
  - C. Select the green **[Start]** button displayed at the bottom of the screen.
5. The Internet Services installation process is now complete.

*If the test print fails, refer to the Problem Solving chapter for trouble-shooting procedures.*



# Setting up PCL

---

Use these instructions to set up PCL using CentreWare Internet Services.

---

**NOTE:** The PCL settings for the device will have been set up when completing the *Enabling CentreWare Internet Services* section.

---

To set up PCL, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Printer Languages]**.
5. Select **[PCL Setup]** and enter the required information.
6. Click the **[Apply New Settings]** button to implement any changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

7. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**. The new settings will be applied.

# Authentication

---

Authentication is used to verify a user's identity and authorisation. Authentication applies to the E-mail, Server Fax and Network Scanning features and allows you to configure and maintain the defaults and settings for these features.

Use these instructions to set up Authentication using CentreWare Internet Services.

---

**NOTE:** Username and Password keyboards are limited to ASCII characters.

---

## Installation Procedure

---

There are two stages required to set up the device with Authentication:

➤ Configure the *DC440/432/425*

This procedure explains how to use CentreWare Internet Services to configure the device.

➤ Authentication Set up

This procedure explains how to set up Authentication at the device.

## Configure the DC440/432/425

---

To complete the installation of the *DC440/432/425*, perform these steps:

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame. If necessary, select the plus symbol to the left of the **[Authentication]** folder.
5. Select **[General]** and click on the appropriate **[Authentication Type]** radio button.

---

**NOTE:** Alternate servers are not required. When a specific Authentication Type is selected only the Default or Primary server need to be entered.

---

6. Check the details are correct for both the Default and Alternate values. If any of the details are incorrect then enter the correct information.
7. Click the **[Apply New Settings]** button to implement any changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

8. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.

---

## Authentication Set Up

---

This procedure is used to enable Authentication at the *DC440/432/425* Control Panel:

1. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the *DC440/432/425* Control Panel.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

2. Set up Authentication:
  - A. Select **[Additional Setups]**.
  - B. Select **[Service Access Control]**.
3. Select **[Network Authenticated Access]** to enable Network Authenticated Access.
4. Select **[Guest Access]** to enable Guest Access.

---

**NOTE:** When Guest Access is enabled a 1-12 digit password must be entered.

---

5. Select **[Next]** to review and confirm the new settings.
6. Select **[Save]** to exit.

# 12 Scanning Services

## Introduction

---

This chapter explains how to set up Scanning Services in the supported environments. The following information is provided:

- Scanning Overview ..... 12-2
  - Scanning with DC440/432/425 ..... 12-3
  - Scan Templates ..... 12-4
  - The Scanning Process ..... 12-5
  - Overview of Repositories ..... 12-7
- Set Up Scanning ..... 12-11
  - Installation Options ..... 12-11
  - NetWare ..... 12-13
  - File Transfer Protocol (FTP) ..... 12-18
  - Internet Services ..... 12-22
  - Installing ScanSoft PaperPort (Optional) ..... 12-25
  - Test Print ..... 12-26

# Scanning Overview

---

Xerox brings the versatility of network scanning to the workstation. By combining the power of the Xerox Document Centre 440/432/425, CentreWare Internet Services, and third-party applications, Xerox provides a network scanning solution for all scanning users.

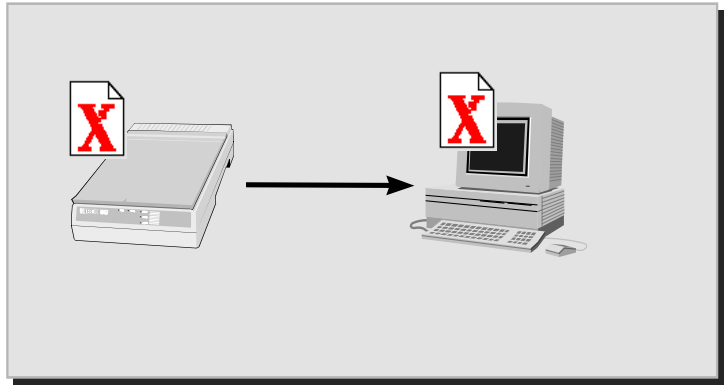
After the optional E-mail and Network Scanning kit is installed on the Xerox Document Centre 440/432/425, scanning features can be programmed and documents can be scanned and transferred to a file server. The document can then be accessed from the workstation by an individual user, or shared with other users also connected to the network.

The stored scanned document can be opened by any software application that can view or edit TIFF/PDF files, for example ScanSoft PaperPort. This application allows viewing and editing of TIFF files and is provided on a CD ROM and supplied by Xerox when the Scanning Services option is purchased. The scanned image can also be imported into TextBridge Pro for Optical Character Recognition (OCR) processing.

## Scanning with DC440/432/425

---

Scanning a document has traditionally involved a dedicated scanner attached to a single PC. In this environment, a single user at the PC has access to the scanner. Other users cannot scan documents without interrupting the person using the scanner and PC. This is inconvenient and inefficient.



Traditional Scanning

Using the *DC440/432/425*, multiple users can scan and store documents without the use of multiple scanning devices. With the power of the local area network, multiple users are able to access the *DC440/432/425* and use it to scan documents.

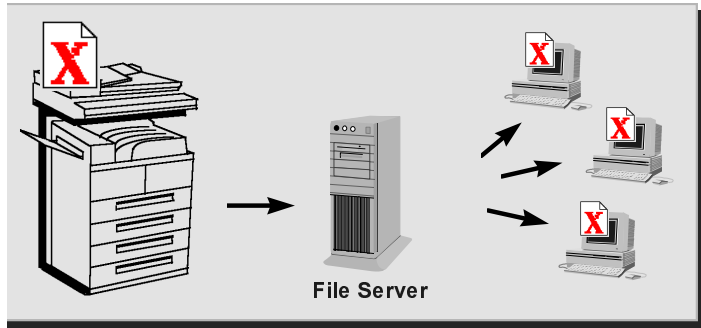
Scanning with the *DC440/432/425* is accomplished through the use of a file server. The file server is used as a temporary storage location for the scanned document file. After scanning and storage on the file server, the file can be manually retrieved by a user at a network workstation.

---

**NOTE:** Automatic retrieval of the scanned document to a workstation is possible using Xerox CentreWare Network Scanning Services. *Refer to the Xerox CentreWare documentation for more information.*

---

A “dedicated file server” is not required. The *DC440/432/425* can store documents on an existing file server.



**DC440/432/425 Scanning**

To perform network scanning, the *DC440/432/425* is installed on a local area network. The protocol of the local area network must be NetWare SPX/IPX or TCP/IP. For the user to retrieve the scanned document file, it must be transferred to a file server.

The scanning and filing of the document are controlled by a scanning component called a Scan Template.

---

**NOTE:** A mix of ASCII characters are available on the Username and Password keyboard. Accented characters (ISO8859-1 characters) are available when entering template names and other data for example, metadata information.

---

## Scan Templates

---

The Scan Template is essentially a job ticket for the scanned job. The template is user-programmable, and contains parameters for the scanned document. The user can program parameters such as one-sided or two-sided scanning, scanned image size, and the location on the file server where the file will be stored.

A default template is provided on the device, and with the use of Internet Services additional templates can be created and modified.



---

**NOTE:** Xerox CentreWare Network Scanning Services also provides additional template functionality, refer to the Xerox CentreWare documentation for more information.

---

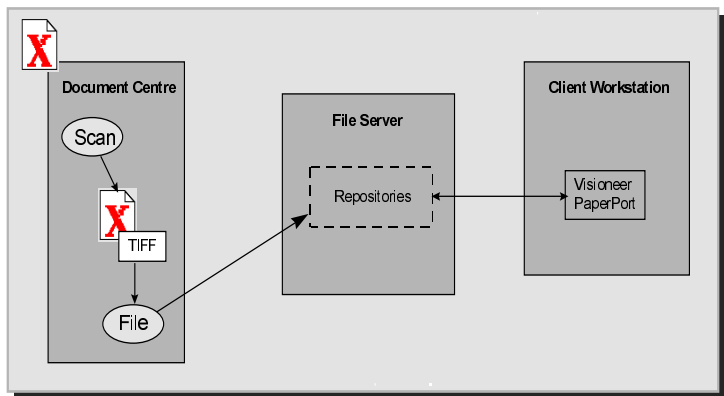
## The Default Template

A default scan template (@default.xst) is created during the installation of the scanning option and is stored on the *DC440/432/425*. It is available for all scanning installations.

It is selected at the *DC440/432/425* Touch Screen and programmed prior to scanning the job.

## The Scanning Process

The process for scanning a job is as follows:



**Scanning Process**

1. Documents are Scanned at the *DC440/432/425*:
  - A scan template is selected from the *DC440/432/425* Control Panel and additional programming selections are made.
  - The Scan Template defines the Directory and the Document Folder on the server where the scanned file will be stored.

- The documents can be placed in the Document Feeder or on the Document Glass and the Start button is used to activate the scan operation.
2. Scanned Images are Transferred to File Server Location:
- After the documents have been scanned they are converted to Tagged Image File Format (TIFF) 6.0 or Portable Document File Format (PDF). TIFF files can be either single page or multipage.
  - The *DC440/432/425* logs into an account on the file server and stores the TIFF/PDF files in a specific directory (the document repository) on the file server. All pages of a multi-page document are scanned prior to the job being sent to the document repository.
  - As with any user account, access to the file server is controlled by a user name and password. This information was entered into the template when it was created.
  - The single page TIFF image files are stored in a Folder named NETSCAN.XSM, unless changed on the template.
  - The multipage TIFF and PDF files are stored in the folder defined in the document path setting.
  - The *DC440/432/425* then logs out of the server.

---

**NOTE:** In a NetWare environment, at certain times the *DC440/432/425* requires two network licenses to enable logging in as a printer and logging in to transfer files. If a license is not available, the file transfer will fail and the *DC440/432/425* will not retry the operation. If this occurs, the scan job will have to be run again when a license becomes available.

---

3. Users Retrieve the Stored Files:
- Users can manually retrieve the TIFF/PDF files and can manipulate the electronic files as required. For example, ScanSoft PaperPort can be used to view and edit TIFF files.

- PaperPort has an intuitive interface that enables users to annotate, file, and locate scanned documents. Using PaperPort links, users can transfer documents from the PaperPort desktop to other applications and devices installed on the workstation.

## Overview of Repositories

---

There are two different types of repositories available on the file server, Public Repositories and Private Repositories.

### Public Repositories

---

Public repositories can be selected by all users as the destination for scanned files.

Up to five public repositories can be set up on the *DC440/432/425*. These are the Default Repository and Repositories 1, 2, 3, and 4. These public repositories can be selected when a scan template is created. The scan template for a public repository includes the name required for access to the repository, the password is held on the device.

When this scan template is selected at the *DC440/432/425*, the name and password will not have to be entered because they are already contained in the scan template.

For public repositories, the **Overwrite existing file** Filing Policy may not be appropriate as it allows previously scanned jobs in the directory to be overwritten.

### Private Repositories

---

Private repositories are set up as personal storage areas and require a different login name and password than those used by the *DC440/432/425* to access the public repositories. The correct name and password must be entered at the *DC440/432/425* when the scan template is selected, or the scanning operation will fail. This prevents unauthorised use of private repositories as the destination for scanned files.

---

**NOTE:** The login name may be present in the scan template when it is created. Therefore, when a scan template is selected that contains the login name, only the correct password must be entered at the *DC440/432/425*.

---

## Repository Filing Policy

The Filing Policy specifies the method used to store the TIFF/ PDF images in the document repository. There are several options:

- The **Overwrite existing file** Filing Policy overwrites any scanned image files stored in the document repository before sending the newly scanned files for storage. All overwritten files are lost, but as the files are overwritten, server file space is conserved.
- The **Append to existing file** Filing Policy does not delete existing files. Newly scanned files are added to existing files in the document repository. It is recommended that old files are deleted on a regular basis in order to conserve server TIFF file format. This policy can only be used with single page TIFF's.
- The **Do not save** Filing Policy checks to see if any files already exist with the same file/folder name in the document repository. If there are no files in the repository, the newly scanned files are sent to it. If there are files stored in the repository, the scan job is aborted.
- The **Rename new file** Filing Policy creates a new directory structure based on time and data for PDF and multipage TIFF files, or a numbered folder name for a single page TIFF file. While this may seem like the safest Filing Policy choice, it does requires more disk space than the Overwrite existing file Filing policy.

## Output Image Format

- **Multi-Page TIFF** can be enabled using Xerox CentreWare Internet Services. When Multi-Page TIFF is enabled, a single TIFF file will be created containing all the pages of the document. An .XSM folder is not created when scanning

in the Multi-Page TIFF mode. The TIFF file and a log file (.xst) are stored in the repository for each multi-page document that is scanned.

- **Portable Document File (PDF).** The DC440/432/425 supports both PDF and TIFF File Formats. The PDF image format is a multipage TIFF image enclosed within a PDF wrapper.
- **Single Page TIFF.** Each scanned original is converted into one TIFF image file. All of these files will be stored in a directory (foldername.xsm).

---

**NOTE:** Not all applications will accept the Multi-Page TIFF format. Applications that do not support Multi-Page TIFFs will typically import and display only the first page of the document.

---

### NETSCAN.XSM Folder

This is the folder the single page TIFF and several supporting files are filed in. The name of the folder can be changed on the template prior to scanning. An explanation of the files contained in the folder follows:

- **<filename>.TIF** are the individual TIFF images of the pages that were scanned. There can be several TIFF files if the document has more than one page, or if **Append to existing file** was selected for the Filing Policy and more than one document has been scanned. Each page of the document is represented by a different TIFF file.
- **NETSCAN.DAT** is an ASCII file which contains the names of the image files scanned with the last scanning operation. This file is updated after every successful storage of an image file.
- **NEXTNAME.DAT** is an ASCII file which contains the name of the next available TIFF file. This name is controlled and increments based on the Filing Policy specified in the job template.

- **NETSCAN.XST** contains the template information for the last file that was scanned. It is also used as a job log for status and a source for the post-processing of information.
- **XSMDESC.DAT** is an ASCII file containing the document name (0-50 characters).

### **Repository Locking**

More than one *DC440/432/425* can log into a file server and transfer a file to the same document repository, but not at the same time.

When one *DC440/432/425* logs in to transfer a file, the document repository is locked. Another *DC440/432/425* cannot transfer a file to that repository. This prevents possible corruption of the files.

### **Multiple Logins**

More than one *DC440/432/425* can transfer files to different repositories on the same file server at the same time. This is similar to more than one user logging into a file server at the same time to transfer files to different directories.

### **Existing Accounts**

A *DC440/432/425* can use an existing user account if the account is enabled for multiple logins. The account for the scanner is a user account and no different from any other user account.

# Set Up Scanning

---

## Installation Options

---

There are three main set up options available for Scanning Services. Review each of the options and refer to the appropriate installation instructions for the networking environment.

➤ Xerox CentreWare Network Scanning Services

This application provides additional functionality for programming and processing scanned images. For example, scanned images can be automatically sent to a user's workstation and opened with a specified application, moved to a user's PC or another server for storage or scanned directly into PaperPort on a user's desktop for manipulation.

For information regarding installing and using Xerox CentreWare Network Scanning Services refer to the *Xerox CentreWare documentation*.

➤ Native Scanning

This option requires setting up Scanning Services using utilities in the native network environment. Documents are scanned at DC440/432/425 and transferred to a central filing location using either NetWare NCP (NetWare Core Protocol) or FTP (File Transfer Protocol).

NetWare NCP is available for Ethernet and Token Ring filing to a NetWare Server. For set up instructions for this environment refer to page 12-13.

FTP is available for Ethernet and Token Ring (if a PCI card is installed) and requires an FTP server running on a server or a workstation. For set up instructions for this environment refer to page 12-18.

---

**NOTE:** The method used at a workstation to access the document repository and the method used at the *DC440/432/425* to send the documents are independent. For instance, the *DC440/432/425* may file the TIFF/PDF images using FTP (File Transfer Protocol) to an NT Server; while the workstation may retrieve the images using NetBIOS/NetBEUI.

---

If TCP/IP protocol has been enabled, the E-mail function is also available. Please refer to the E-mail chapter.

➤ **Xerox CentreWare Internet Services**

The Internet Services function is accessed through the embedded HTTP server on the *DC440/432/425* and allows System Administrators and users to configure scan settings. This is accomplished by using an Internet browser such as NetScape (version 4.x or later) or Microsoft Internet Explorer (version 4.x or later). For set up instructions using Internet Services refer to page 12-22.



Information Checklist

Before starting the NetWare installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                                                                                                                                                                                                                                                                                                                       | By             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| An existing operational NetWare network is required, these procedures are not designed to install a NetWare network.                                                                                                                                                                                                                                                                                       | Customer       |
| Ensure the <i>DC440/432/425</i> is fully functioning on the network prior to installation.                                                                                                                                                                                                                                                                                                                 | Customer       |
| Use the SYSCON utility for NetWare 3.x, or NWADMIN for NetWare 4.x/5.x to create a Scan User Name and Password - this is the user account on the file server for the scanner. When a document is scanned, the <i>DC440/432/425</i> logs in to the user account with the user name and password, transfers the file to the server, and then logs out.                                                       | Customer       |
| Create a directory on the file server to be used as a File Repository Server. Repositories are directories or filing destinations where documents are stored and held in .XSM (Xerox document storage) format folders.<br>The repository name cannot exceed 8 characters.<br>The default folder name is NETSCAN.XSM. Give the scanner user account all access rights to this directory, except supervisor. | Customer       |
| For an NDS installation, assign the <i>DC440/432/425</i> to an NDS Tree and an NDS Name Context.                                                                                                                                                                                                                                                                                                           | Customer       |
| Install <i>DC440/432/425</i> E-mail and Network Scanning kit.                                                                                                                                                                                                                                                                                                                                              | Xerox/Customer |

**NOTE:** Refer to the *NetWare documentation* for additional information, if needed.

## Installation Procedure

---

1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the DC440/432/425.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.
2. Access the Network Scanning Setups screens and assign the Default Repository Server:
  - A. Select **[Network Scanning Setups]**.

---

**NOTE:** The Job Template Pool and Update All Templates options located on the Network Scanning Setups screen are not used in this environment.

---

- B. Select **[Default Repository]**.
    - C. Select **[NetWare]**.
    - D. Select **[Server]**.
    - E. Select **[Edit]** and enter the name of the NetWare file server that has the user account for the scanner. Select **[Save]** when finished.  
Up to four other public repositories can be set up in addition to the Default Repository. The additional repositories can provide password and directory path information for templates selected with matching server and user names.
3. Assign the Default Repository Path:
  - A. Select **[Directory Path]** and then select **[Edit]** and enter the full path, including the volume name, to the directory for the scanner account. For example:  
(volume name):\\(directory name)\\(directory name)

---

**NOTE:** It is strongly recommended that a directory in the SYS volume is not used as it can fill up quickly with scanned files.

---

- B. Select **[Save]** when finished.
4. Enter the NDS Tree and NDS Context information (necessary for Bindery and NDS installations):

- A. Select **[NDS Tree]** and select **[Edit]**.

For Bindery, use the keypad on the screen to enter a dash **[-]**.

For NDS, use the keypad on the screen to enter the name of the NDS Tree.

---

**NOTE:** Refer to the information displayed by NWADMIN and the NetWare documentation for help in determining the name of the NDS Tree.

---

- B. Select **[Save]**.

- C. Select **[NDS Context]** and select **[Edit]**.

For Bindery, use the keypad on the screen to enter a dash **[-]**.

For NDS, use the keypad on the screen to enter the NDS Context name. This must be a fully qualified name. An example of a complete NDS Context is:

OU=SHIPPING.OU=MANUFACTURING.O=XEROX.  
C=US

In this example, SHIPPING is an organisational unit within MANUFACTURING, which is an organisational unit within XEROX. The US (United States) is the country in which these organisational units exist.

---

**NOTE:** Refer to the information displayed by NWADMIN and the NetWare documentation for help in determining the exact NDS Context information for the environment.

---

- D. Select **[Save]** when finished.

5. Enter the NetWare Volume Name:

- A. Select **[Volume]**.

- B. Select **[Edit]** and use the keypad on the screen to enter the name of the Volume.

- C. Select **[Save]**.

6. Enter the Login Name and Password.
  - A. Select **[Login Name/Password]**.
  - B. Select **[Login Name]** and use the keypad on the screen to enter the name of the user account for the scanner.

---

**CAUTION: The Login Name and Password is the name and password of the Scan User account. Ensure the information entered matches the information entered when the account was created using SYSCON or NWADMIN. If the names do not match exactly, the DC440/432/425 will not log into the file server.**

---

- C. Select **[Save]**.
  - D. Select **[Password]** and use the keypad on the screen to enter the name of the password for the scanner.
  - E. Select **[Save]**.
7. Select **[Save]** to return to the Network Scanning Setups screen. If required, select **[Repository 1]** and then **[Additional Setups]** and **[Repository 2, 3, 4]** (as needed) to set up Repositories 1 to 4.
8. Select **[If File Already Exists]** and select **[Overwrite existing file]**, **[Append to existing file]**, **[Do not save]** or **[Rename new file]**.

**Overwrite existing file** will replace the previous document with the last scanned document.

**Append to existing file** will add each document scanned to the repository without deleting any previously scanned documents.

**Do not save** checks to see if any files already exist in the document repository. If there are no files in the repository, the newly scanned files are sent to it. If there are files stored in the repository, the scan job is aborted.

**Rename new file** creates a new directory structure, based on the time and date of creation, into which the TIFF images are filed.

---

**CAUTION:** Overwrite existing file results in a lost document if it is not moved out of the repository before the next scanning operation. Append to existing file uses up file space as additional documents are scanned. If **Append to existing file** is chosen, regularly delete older documents to free up server space.

---

9. Select **[Save]**.
10. Select **[Confirmation Sheet]**.
  - A. Select **[Enabled]** or **[Disabled]**. The Confirmation Sheet provides information about the results of the scanning operation, and can be helpful if problems are encountered during the scanning installation or operation.
  - B. Select **[Save]**.
11. Select **[Close]**.
12. Select **[Exit]**.

---

**NOTE:** The device automatically reboots and prints a Configuration Sheet in approximately 3 minutes.

---

13. Check the settings on the Configuration Sheet against the information that was entered.
14. It is recommended that the ScanSoft PaperPort software is installed. Refer to page 12-25 for installation instructions.

NetWare (NCP) Scanning Set Up is now complete. A test scan should be performed to ensure Scanning Services has been set up successfully. Continue with **Testing** on page 12-26.

# File Transfer Protocol (FTP)

---

## Information Checklist

---

Before starting the installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | By       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Ensure that FTP Services is running on a platform on the network.If FTP Services is running on a Windows NT server, ensure that <b>[Allow Only Anonymous Connections]</b> is NOT selected.                                                                                                                                                                                                                                                                                                                                     | Customer |
| Ensure the <i>DC440/432/425</i> is fully functioning on the network prior to installation.                                                                                                                                                                                                                                                                                                                                                                                                                                     | Customer |
| Create a Scan User Name and Password user account for the scanner - this is the user account on the file server for the scanner.<br>If the account is created on a Windows NT server, select <b>[User Cannot Change Password]</b> and <b>[Password Never Expires]</b> when the password is set, and select <b>[Logon Locally]</b> under User Rights.<br>When a document is scanned, the <i>DC440/432/425</i> logs in to the user account with the user name and password, transfers the file to the server, and then logs out. | Customer |
| Create a directory to be used as a repository for scanned files.<br>If the directory is created on a Windows NT server, enter the scan user name in the Alias box and select <b>[Access Read and Write]</b> .<br>Repositories are directories or filing destinations where documents are stored and held in .XSM (Xerox document storage) format folders.                                                                                                                                                                      | Customer |
| Install <i>DC440/432/425</i> Scanning Services kit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Xerox    |

## Installation Procedure

---

1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the DC440/432/425.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.
2. Access the Network Scanning Setups screens and assign the Default Repository Server:
  - A. Select **[Network Scanning Setups]**.

---

**NOTE:** The Job Template Pool and Update All Templates options located on the Network Scanning Setups screen are not used in this environment.

---

- B. Select **[Default Repository]**.
    - C. Select **[TCP/IP]**.
    - D. Select **[File Server IP Address]**.
    - E. Select **[Edit]** and enter the IP address of the file server and, optionally, a colon ":" followed by the IP port number that will contain the user account for the scanner. Select **[Save]** when finished.
3. Assign the Default Repository Path:
  - A. Select **[Directory Path]** and then select **[Edit]** and enter the full path to the directory for the scanner account, starting at the root of FTP Services. For example:  
    \\(directory name)\\(directory name)

---

**NOTE:** The DC440/432/425 transfers a scanned file to FTP Services which can be running on a variety of platforms including a server or a workstation. The scanned file is transferred to FTP Services at the location in the platform's file system where FTP Services is running. Therefore, the Directory Path starts where FTP Services is running, which could be anywhere in the platform's file system, not necessarily at the root of the file system.

---

- B. Select **[Save]** when finished.
- 4. Enter the Login Name.
  - A. Select **[Login Name]**.
  - B. Select **[Edit]** and use the keypad on the screen to enter the name of the user account for the scanner.

---

**CAUTION: The Login Name is the name of the Scan User account. Ensure the information entered matches the information entered when the account was created. If the names do not match exactly, the DC440/432/425 will not log into FTP Services. Remember that some FTP Services are case-sensitive.**

---

- C. Select **[Save]** and then select **[Save]** again when finished.
- 5. Enter the User Password:
  - A. Select **[Password]**.
  - B. Select **[Edit]** and use the keypad on the screen to enter the password. If no password was assigned, use the left arrow key to delete the default password.

---

**CAUTION: This is the Password for the Scan User Account. Ensure the information entered matches the information entered when the account was created. If the passwords do not match exactly, the DC440/432/425 will not log into FTP Services. Remember that some FTP Services are case-sensitive.**

---

- 6. Select **[Save]** and then select **[Save]** again when finished to return to the Network Scanning Setups screen.
- 7. If desired, select **[Repository 1]** and then **[Additional Setups]** and **[Repository 2,3, 4]** (as needed) to set up Repositories 1 through 4.
- 8. Select **[If File Already Exists]** and select **[Overwrite existing file]**, **[Append to existing file]**, **[Do not save]** or **[Rename new file]**.

**Overwrite existing file** will replace the previous document with the last scanned document.



**Append to existing file** will add each document scanned to the repository without deleting any previously scanned documents.

**Do not save** checks to see if any files already exist in the document repository. If there are no files in the repository, the newly scanned files are sent to it. If there are files stored in the repository, the scan job is aborted.

**Rename new file** creates a new directory structure, based on the time and date of creation, into which the TIFF images are filed.

---

**CAUTION: The Overwrite existing file Filing Policy will replace any previously scanned document in the repository with a new scan job. The Append to existing file Filing Policy simply adds a new scan job to the repository without deleting older jobs. If Append to existing file is selected, regularly delete older documents to free up server space.**

---

9. Select **[Save]**.
10. Select **[Confirmation Sheet]**.
  - A. Select **[Enabled]** or **[Disabled]**. The Confirmation Sheet provides information about the results of the scanning operation, and can be helpful if problems are encountered during the scanning installation or operation.
  - B. Select **[Save]**.
11. Select **[Close]**.
12. Select **[Exit]**.

---

**NOTE:** The device automatically reboots and prints a Configuration Sheet in approximately 3 minutes.

---

13. Check the settings on the Configuration Sheet against the information that was entered.
14. It is recommended that the ScanSoft PaperPort software is installed. Refer to page 12-25 for installation instructions.

FTP Scanning Set Up is now complete. A test scan should be performed to ensure Scanning Services has been set up successfully. Continue with **Testing** on page 12-26.

## Internet Services

---

### Information Checklist

---

Before starting the installation procedures, please ensure the following items are available or have performed:

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | By       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Ensure that Xerox CentreWare Internet Services has been enabled and configured prior to Scanning Services set up. Refer to the Internet Services chapter of this guide for information.                                                                                                                                                                                                                                                                                 | Customer |
| Ensure the <i>DC440/432/425</i> is fully functioning on the network prior to installation.                                                                                                                                                                                                                                                                                                                                                                              | Customer |
| Ensure that there is a fully functioning NetWare Bindery or NDS network operating system, or workstations/servers with an FTP server running prior to installation.                                                                                                                                                                                                                                                                                                     | Customer |
| Either one of the following protocols must be available: <ul style="list-style-type: none"><li>• <b>NCP over IPX/SPX.</b> NCP (NetWare Core Protocol) is used for all filing connections to NetWare servers and runs over the IPX/SPX transport.</li><li>• <b>FTP over TCP/IP.</b> FTP server software exists for a variety of operating systems; therefore, FTP running over the TCP/IP transport is used for all filing connections to non-NetWare servers.</li></ul> | Customer |
| Install <i>DC440/432/425</i> Scanning Services kit.                                                                                                                                                                                                                                                                                                                                                                                                                     | Xerox    |

## Installation Procedure

---

1. Designate the Scanning Account:
  - A. Using the native network application, create a scanning account for scanning use.
2. Create Scanning Repositories:
  - A. Create a repository directory on a file server using native network tools. The scanning repositories are where scanned documents will be saved as .XSM (Xerox document storage) format files. Five (1 default and 4 additional) repositories can be selected from Internet Services.
3. Set up the Repositories:
  - A. Using a recommended browser and the IP address of *DC440/432/425*, access **Internet Services**.
  - B. Select **[Properties]**.
  - C. Select **[Services]**.
  - D. Select **[Stored Templates]**.
  - E. Select **[Repository Setup]**.
  - F. Select a repository (Default or Repository 1-4) from the **Repository List**.
  - G. Select the appropriate protocol **[TCP/IP]** or **[NetWare]**.
  - H. Enter the relevant information to complete the Repository set up. This information must match the account and directory information defined with the native network tools on the file server.
  - I. Select **[Apply New Settings]**.
  - J. When prompted, validate the login, password and path. If the path is valid on the file server, the repository is defined for scanning use with Internet Services.
4. Create Template Pools:

---

**NOTE:** Template pools are used for storing Templates created using Xerox CentreWare Scanning Services. Templates created using Internet Services are stored directly on the *DC440/432/425*.

---

- A. Define a template pool directory on a file server using native network tools.
5. Set up the Template Pool:
  - A. Using a recommended browser and the IP address of *DC440/432/425*, access **Internet Services**.
  - B. Select **[Properties]**.
  - C. Select **[Services]**.
  - D. Select **[Stored Templates]**.
  - E. Select **[Template Pool Setup]**.
  - F. Enter the directory path, login name and password for the pool. This information must match the account and directory information defined with the native network tools on the file server.
  - G. Select **[Apply New Settings]**.
  - H. When prompted, validate the login, password and path. If the path is valid on the file server, the Template Pool is defined for scanning use with Internet Services.
6. Set up the Default Template:
  - A. Using a recommended browser and the IP address of *DC440/432/425*, access **Internet Services**.
  - B. Select **[Properties]**.
  - C. Select **[Services]**.
  - D. Select **[Stored Templates]**.
  - E. Select **[Default Template]**.
  - F. Select **[General]**.
  - G. Select the services required **[File]**, **[Fax]** or **[Local Copy]**.

---

**NOTE:** A File or Fax Service must be defined for a template.

---

- H. Select each service and set up as required.
- I. Select **[Apply New Settings]**. To return the template to its last saved values, select **[Restore Settings]**.

---

**NOTE:** Refer to the *User Guide* for further information about creating and modifying templates and template settings.

---

- 7. It is recommended that the ScanSoft PaperPort software is installed. Refer to page 12-25 for installation instructions.

Internet Services Scanning Set Up is now complete. A test scan should be performed to ensure Scanning Services has been set up successfully. Continue with **Testing** on page 12-26.

## Installing ScanSoft PaperPort (Optional)

---

ScanSoft PaperPort software is provided on a CD ROM and included with the *DC440/432/425* when Scanning Services is purchased. It is recommended that this software should be installed at each client workstation.

PaperPort allows users to annotate, organise, file and locate scanned TIFF documents. After a document is scanned at the *DC440/432/425*, users can access PaperPort and retrieve the scanned file within the PaperPort application. With PaperPort links, users can transfer documents between the PaperPort desktop and other applications and devices on the workstation.

PaperPort contains links to several types of applications and devices, including:

- All Word Processing applications
- Electronic fax applications
- Electronic mail ("E-Mail") applications
- Optical character recognition ("OCR") applications
- Printers
- Personal information managers ("PIM")

➤ Document control systems

To install the PaperPort software from the PaperPort CD ROM:

1. Load the CD ROM, double-click on **[Start]**
2. Follow the instructions on the screen. This procedure will load PaperPort onto the client workstation. It also provides access to PaperPort software documentation.
3. Take a few minutes to become familiar with both the PaperPort *Install Guide* and *On-Line* documentation.

## Test Print

---

To ensure Scanning Services has been set up successfully, perform the following steps:

1. Place a document in the Document Feeder, or on the Document Glass.
2. Select **[Network Scanning]** on the *DC440/432/425* Touch Screen.
3. Scan jobs are based on templates that contain programming selections for the job. Verify that **[@default.xst]** is highlighted in the scan template list. This is the default template.
4. If required, modify the template by selecting options from the **[Network Scanning Setups]** tab (for example, **Reduce/Enlarge** or **Basic Image Quality**). Any changes will apply only to the current job. The template settings will be restored after the completion of the scan job.
5. Select the **[Start]** button. After the job is scanned, the *DC440/432/425* files, faxes, and/or prints the job as specified in the @default.xst scan template. At completion, a Confirmation Sheet (if enabled) is printed that describes the results of the job.
6. Allow approximately one minute for the process to complete a one-page job. It will take longer if multiple pages have been scanned. Check to make sure that the scanned file has been stored in the repository on the file server.

7. The *DC440/432/425* creates a separate TIFF file for each page it scans. (Unless the Enable Multi-Page TIFF option is selected, which will create a single TIFF file for a multi-page document, instead of one TIFF file for each page.) Pages are numbered sequentially. Files are stored on the file server, and the directory path is specified within the job template.
8. If the scanning operation is not successful, check the Confirmation Sheet for a message or other information that may be helpful in identifying the cause of the problem.
9. The scanned file is transferred to a folder in the scanner account on the file server. The .XSM extension on the folder represents a Xerox document storage format that is designed to simplify integration with third-party software applications.
10. At the workstation, view or list the directory path for the scanner account on the file server. The scanning operation created a folder named *NETSCAN.XSM*.
11. Open the *NETSCAN.XSM* folder and select the TIFF file. The file can be imported into any software application that can accept TIFF files.

*If the test job fails, refer to the Problem Solving chapter for trouble-shooting procedures.*





# 13 *E-mail*

## Introduction

---

This chapter explains how to set up and enable the E-mail feature of *DC440/432/425*. The following information is provided:

- E-mail Overview ..... 13-2
- Information Checklist ..... 13-3
- Internet Messaging ..... 13-4
  - Configuring SMTP ..... 13-4
  - Configuring E-Mail ..... 13-5
  - LDAP Directory Setup (Internal Address Book) ..... 13-8
  - Public Address Book ..... 13-10
  - E-mail Set Up ..... 13-11
  - Test Print ..... 13-12

# E-mail Overview

---

By combining the power of the Xerox Document Centre 440/432/425 and CentreWare Internet Services, Xerox provides an e-mail solution for all e-mail users.

After the optional E-mail and Network Scanning kit is installed on the Xerox Document Centre 440/432/425, the E-mail feature allows users to scan an original document, convert the scanned document to an electronic format and then send that information to one or more e-mail address destinations.

---

**NOTE:** When entering a manual e-mail address on the DC440/432/425 both ASCII and accented characters (ISO8859-1 characters) will be available on the keyboard.

---

# Information Checklist

Before starting the installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                                                                                                                      | By             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Ensure that the network has a fully functioning SMTP Mail Server.                                                                                                                         | Customer       |
| E-mail address string that meets your SMTP Server requirements.                                                                                                                           | Customer       |
| Ensure that the Xerox CentreWare Internet Services has been enabled and configured prior to E-mail Settings set up. Refer to the Internet Services chapter of this guide for information. | Customer       |
| Ensure the DC440/432/425 is fully functioning on the network prior to installation.                                                                                                       | Customer       |
| Ensure that the TCP/IP protocol is configured on the device and is fully functional                                                                                                       | Customer       |
| Install DC440/432/425 E-mail and Network Scanning Services kit.                                                                                                                           | Xerox/Customer |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

# Internet Messaging

---

Internet Messaging is used to maintain the E-Mail features of the *DC440/432/425*.

There are four configuration areas required for Internet Messaging:

- General - this is where you set up transmission details for outgoing messages - see page 13-4
- E-mail settings - this is where you configure the default e-mail message and image settings - see page 13-5
- LDAP (Lightweight Directory Access Protocol) directory - specifies the location and configuration settings of the Internal Address Book that resides on the network - see page 13-8
- Public Address Book - see page 13-10 - this is used to identify the location of a public address book / CSV (Comma Separated Values) file to be used for e-mail. The following two pages are available:
  - A. Import Public Address Book - this first page is used to upload a .CSV file containing the e-mail addresses to the machine.
  - B. Map Address Book - after the file is uploaded this second page allows the user to map specific fields in the CSV file to Display Name and E-mail Address.

---

**NOTE:** SMTP (Simple Mail Transfer Protocol) is used for sending an e-mail.

---

## Configuring SMTP

---

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter

the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame, and then select the plus symbol to the left of the **[Internet Messaging]** folder.
5. Select **[General]**.
6. Enter the **IP Address** of the SMTP Server and the **E-mail Address** of the *DC440/432/425*.
7. Click the **[Apply New Settings]** button to implement any changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

8. When prompted, enter **[admin]** (lower case) into the User Name field and **[22222]** into the Password field and select **[OK]**.

## Configuring E-Mail

---

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.  
 Example: If the IP Address is 192.168.100.100, enter the following in the URL field:  
`http://192.168.100.100`
3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame, and then select the plus symbol to the left of the **[Internet Messaging]** folder.
5. Select **[E-mail Settings]**.

6. Select the **Default Scan Resolution** and **Default Attachment Type** that will be used for image Attachments.
7. Enter the Message Content required for the Subject and Signature.
8. Enter the Default Signature. Up to 6 lines of 127 characters each can be entered.
9. Click the **[Apply New Settings]** button to implement any changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

10. When prompted, enter **[admin]** (lower case) into the User Name field and **[22222]** into the Password field and select **[OK]**. The new settings will be applied.

---

**NOTE:** The character set behaviour for E-mail at the Web UI and Document Centre UI is limited to accented characters (ISO8859-1- Latin-1 Western Europe for example English, French German etc.)

---

## E-mail Message Body Language Support

Please refer to the following table to identify the default e-mail message body language supported on the *DC440/432/425*.

| Device Supported Languages                                                                                       | E-mail Default       |
|------------------------------------------------------------------------------------------------------------------|----------------------|
| Brazilian Portuguese                                                                                             | Brazilian Portuguese |
| Danish                                                                                                           | Danish               |
| Dutch                                                                                                            | Dutch                |
| Bulgarian<br>Czech<br>Greek<br>Hungarian<br>Polish<br>Romanian<br>Russian<br>Turkish<br>UK English<br>US English | English              |
| Finnish                                                                                                          | Finnish              |
| French<br>French Canadian                                                                                        | French               |
| German                                                                                                           | German               |
| Italian                                                                                                          | Italian              |
| Latin Spanish<br>Spanish                                                                                         | Spanish              |
| Norwegian                                                                                                        | Norwegian            |
| Portuguese                                                                                                       | Portuguese           |
| Swedish                                                                                                          | Swedish              |

# LDAP Directory Setup (Internal Address Book)

---

**NOTE:** Configuration of the LDAP directory settings requires the network to support LDAP services.

---

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame, and then select the plus symbol to the left of the **[Internet Messaging]** folder.
5. Select **[LDAP Directory]**.
6. Enter the **Server IP Address**.
7. Enter any **Optional Information** required.
8. The specified LDAP server may or may not require a login for access. If login is required, the Login Name and Password must be specified.
9. Click the **[Apply New Settings]** button to implement any changes or the **[Restore Settings]** button to cancel any changes made and return to the previous values.
10. When prompted, enter **[admin]** (lower case) into the User Name field and **[22222]** into the Password field and select **[OK]**.

The Document Centre will display search results for the Internal Address Book as defined by the LDAP configuration. For example, an LDAP server can return a search enquiry "And" as "Andrew Smith" when the result "Andrews, James" may have been expected.



---

**NOTE:** Search strings for common names are limited to accented characters (ISO8859-1 characters) only.

---

The <lastname, firstname> or ,<firstname, lastname> display behaviour is controlled by the LDAP server and not the Document Centre.

---

**NOTE:** The LDAP configuration may also return other search results, for example "AndrewS" for the same search query.

---

## **Network Authentication / Internal Address Book (LDAP) Configured**

---

If a user has successfully logged into a device with Authentication enabled the DC440/432/425 will attempt to automatically match the user's login name to their e-mail address. The user's e-mail address will then be used to populate the "From" e-mail address field. This enables recipients of e-mail jobs to identify the originator of the e-mail job. Refer to "Authentication" on page 11-46 for information on how to configure Authentication.

The LDAP uid (UserID) attribute must have a value identical to user's network username. If it is not identical the Document Centre will not be able to automatically populate the sender's 'From' address with their correct e-mail address. In this case, in an attempt to build a plausible sender e-mail 'From' address, the Document Centre will use the user's network username as a mailbox at the default domain for the Document Centre (i.e.. <username>@<domain>). In many cases this will not be a valid e-mail address for the user. The user should then edit the 'From' address to reflect their correct e-mail address before sending the job.

---

**NOTE:** Users will not be able to change the user's "From" address if Network Authenticated Access is configured and successful. This prevents untraceable e-mail jobs being sent from the Document Centre.

---

## Public Address Book

---

The *DC440/432/425* will accept a Public Address Book file that contains a list of user names and their e-mail addresses. This file must be of the CSV (Comma Separated Values) format for the device to be able to read the file contents. CSV (.CSV file download) files can contain accented character (ISO8859-1 characters.)

---

**NOTE:** The majority of word processing packages will allow you to create a CSV file. A selection of e-mail applications will also allow you to export a list of users in the CSV file format.

---

The completed file is imported to the device via CentreWare Internet Services. The *DC440/432/425* will not allow the import of an Public Address Book file that does not end with the .CSV file extension.

A valid CSV file is of the format <name>, <SMTP e-mail address>. For example the following are both valid format CSV file entries:

Smith, smith@company.com

"Smith, John",john.smith@company.com

---

**NOTE:** The order in which entries are displayed in the Public Address Book at the Document Centre will depend on how the entries are sorted in the CSV file. At a client workstation on the network, launch the Internet Browser.

---

1. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

2. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
3. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame, and then select the plus symbol to the left of the **[Internet Messaging]** folder.

---

**NOTE:** It is recommended that you keep a copy of the .CSV file that you intend to import.

---

4. Select **[Public Address Book]**.
5. Browse to the location where you will find the **Address Book File (\*.CSV)**.
6. Highlight the .CSV file that you require and click the **[Open]** button.
7. Click the **[Import Now]** button.
8. Click the **[OK]** button to import the Address Book.

---

**NOTE:** If an address book is already in existence, you will be warned that the new import will overwrite the existing address book.

---

9. Map the address book by choosing the appropriate **Imported Heading** for each label.

---

**NOTE:** For correct address book operation the *Name* field must map to a user name and the *Address* field must map to an SMTP-format e-mail address, for example name@domain.com.

---

10. Click the **[Apply New Settings]** button to implement any changes.
11. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.

## E-mail Set Up

---

This procedure is used to enable E-mail at the DC440/432/425 Control Panel:

1. Connect the device to the network outlet or cable.
2. Access the System Administrator set up screens:
  - A. Select the **[Access]** button on the DC440/432/425 Control Panel.

- B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]** on the Touch Screen. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

3. Set up E-mail:
  - A. Select **[Additional Setups]**.
  - B. Select **[E-mail Setups]**.
  - C. Select **[Enable e-mail]**.
4. Select **[Save]**.
5. Select **[Close]**.
6. Select **[Exit]**.
7. Check the settings on the Configuration Sheet against the information that was entered.

A test scan should be performed to ensure E-mail has been set up successfully. Continue with **Testing**.

## Test Print

---

To ensure E-mail has been set up successfully, perform the following steps:

1. Place a document in the Document Feeder, or on the Document Glass.
2. Select the **Features Button**.
3. Select **[E-mail]**.
4. Select **[To]**, then use the keyboard to enter a valid SMTP e-mail address.
5. Select **[Save]**.
6. Select **[Start]**.
7. View the *Scan Queue* to check on the progress of the e-mail job. A successful e-mail will have the status *Completed* and *Scanned/Filed* of 1/1.

---

**NOTE:** If not forwarded an e-mail error report is printed.

---

8. If the test job fails, refer to the Problem Solving chapter for trouble-shooting procedures.



# 14 Server Fax

## Introduction

---

This chapter explains how to set up Server Fax in the supported environments. The following information is provided:

- Server Fax Overview ..... 14-2
- Information Checklist ..... 14-3
- Enabling Server Fax ..... 14-4
- Configuring Server Fax ..... 14-5
  - Network Setups at the DC440/432/425 ..... 14-5
  - Network Setups using Internet Services ..... 14-8
- Confirmation Report Setup ..... 14-11
- Output Tray Setup ..... 14-12
- Testing ..... 14-13

# Server Fax Overview

---

In combination with a 3rd Party Fax Server, Xerox is able to provide a fax capability at the Document Centre 440/432/425. Unlike Embedded Fax where the Document Centre is a self-contained fax machine, a DC440/432/425 using Server Fax has no telephony capability. Instead the device scans and files the document to a defined location then the 3rd Party Fax Server retrieves the document and faxes it to its final destination.

A fax received by the Fax Server may be forwarded to an e-mail inbox, to 3rd Party Vendor software on the PC or it might be printed. If it is printed then it could be printed to any network printer including the DC440/432/425.

When using Server Fax, an outgoing fax is essentially a Network Scanning job and an incoming fax is essentially a print job.

The Server Fax file repository can be configured via Internet Services or at the DC440/432/425.



# Information Checklist

---

Before starting the installation procedures, please ensure the following items are available or have been performed:

| Item                                                                                           | By             |
|------------------------------------------------------------------------------------------------|----------------|
| Ensure the <i>DC440/432/425</i> is fully functioning on the network prior to installation.     | Customer       |
| Ensure that the Netware or TCP/IP protocol is configured on the device and is fully functional | Customer       |
| Install <i>DC440/432/425</i> Server Fax kit.                                                   | Xerox/Customer |

*If problems are encountered during the DC440/432/425 installation, refer to the Problem Solving chapter for assistance.*

# Enabling Server Fax

---

By default Server Fax will not be automatically enabled after installation on your *DC440/432/425*.

If your *DC440/432/425* has Embedded Fax installed then enabling Server Fax will automatically disable Embedded Fax.

---

**NOTE:** Embedded Fax will be automatically enabled if Server Fax is uninstalled.

---

Refer to the following steps to enable Server Fax on your *DC440/432/425*.

1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the *DC440/432/425*.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.

---

**NOTE:** #22222 is the factory default password and may be changed by the Xerox Service Representative.

---

2. Select **[Fax Setups]**.
3. If only Server Fax is installed you will automatically access the Server Fax Setups screen. If both Embedded Fax and Server Fax are installed select **[Fax Setups]**.
4. Select **[Enable/Disable]**.
  - A. Select **[Enable]**.
  - B. Select **[Save]**.
  - C. Select **[Close]**. Select **[Close]** again if both Embedded Fax and Server Fax are installed.
5. Select **[Exit]** to leave System Administrator setups.

Now you must configure the Fax Server. This will depend on the type of fax server. Please refer to your fax server documentation.

# Configuring Server Fax

Before you can send a fax you will need to configure the fax repository. The fax repository is the location to which the DC440/432/425 files the scanned fax image. The fax server collects the images from the fax repository for transmission. Either Netware Core Protocol (NCP) or File Transfer Protocol (FTP) filing repositories can be used.



**HINT:** For more information about filing repositories please refer to the *Scanning Services* chapter.

There are two ways you can set up filing repositories:

➤ Configure Network Setups at the DC440/432/425

or

➤ Configure Network Setups via Internet Services

**NOTE:** Filing Repositories can only be set up via the Web UI if TCP/IP and HTTP are enabled and configured.

## Network Setups at the DC440/432/425

Refer to the following steps for configuring a filing repository at the DC440/432/425 for either a Netware or TCP/IP network.

### NetWare

1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the DC440/432/425.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.
2. If only Server Fax is installed you will automatically access the Server Fax Setups screen. If both Embedded Fax and Server Fax are installed select **[Fax Setups]**.
3. Assign the Repository Server:

- A. Select **[Server Fax Network Setups]**.
  - B. Select **[NetWare]**.
  - C. Select **[Server]**.
  - D. Select **[Edit]** and using the keypad on the screen, enter the name of the NetWare file server that has the user account for the scanner. Select **[Save]** when finished.
4. Assign the Repository Path:
- A. Select **[Directory Path]** and then select **[Edit]**. Use the keypad on the screen to enter the full path to the directory for the scanner account. For example:  
(directory name)\(directory name)
  - B. Select **[Save]** when finished.
5. Enter the NDS Tree information:
- A. Select **[NDS Tree]** and select **[Edit]**. Use the keypad on the screen to enter the name of the NDS Tree.
  - B. Select **[Save]**.
6. Enter the NDS Context information
- A. Select **[NDS Context]** and select **[Edit]**.  
Use the keypad on the screen to enter the NDS Context. For example:  
WELWYN.HERTS.EUROPE
  - B. Select **[Save]** when finished.
7. Enter the NetWare Volume Name:
- A. Select **[Volume]**.
  - B. Select **[Edit]** and use the keypad on the screen to enter the name of the Volume.
  - C. Select **[Save]**.
8. Enter the Login Name and Password.
- A. Select **[Login Name/Password]**.
  - B. Select **[Login Name]** and use the keypad on the screen to enter the name of the user account for the scanner.
  - C. Select **[Save]**.

- D. Select **[Password]** and use the keypad on the screen to enter the name of the password for the scanner.
- E. Select **[Save]**.
- 9. Select **[Save]** to return to the Server Fax Setups screen.

## TCP/IP

---

- 1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the *DC440/432/425*.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.
- 2. If only Server Fax is installed you will automatically access the Server Fax Setups screen. If both Embedded Fax and Server Fax are installed select **[Fax Setups]**.
- 3. Assign the Repository Server:
  - A. Select **[Server Fax Network Setups]**.
  - B. Select **[TCP/IP]**.
  - C. Select **[File Server IP Address]**.
  - D. Select **[Edit]** and using the keypad on the screen enter the IP Address and Port Number. Select **[Save]** when finished.

---

**NOTE:** The Port Number is an optional feature.

---

- 4. Assign the Repository Path:
  - A. Select **[Directory Path]** and then select **[Edit]**. Using the keypad on the screen enter the full path.
  - B. Select **[Save]** when finished.
- 5. Enter the Login Name and Password:
  - A. Select **[Login Name]** and select **[Edit]**. Use the keypad on the screen to enter the Login name.
  - B. Select **[Save]**.
- 6. Enter the Password:
  - A. Select **[Password]** and use the keypad on the screen to enter the name of the user account for the scanner.

- B. Select **[Save]**.
7. Select **[Save]** to return to the Server Fax Setups screen.

## Network Setups using Internet Services

---

Refer to the following steps for configuring a filing repository through Internet Services for either a Netware or TCP/IP network.

---

**NOTE:** Refer to the Internet Services chapter for more information about using Internet Services.

---

### Netware

---

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`
3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame, and then select the **[Server Fax Setup]** folder.
5. Select **[Netware]**.
6. Enter the **Server Name**.
7. Enter the **Server Volume**.
8. Enter the **NDS Context**.
9. Enter the **NDS Tree**.
10. Enter the **Directory Path**.
11. Enter the **Login Name**.
12. Enter the repository **Password**.
13. Click the **[Apply New Settings]** button to implement any

changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

14. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.

## TCP/IP

---

1. At a client workstation on the network, launch the Internet Browser.
2. In the URL field, enter `http://` followed by the IP Address of the *DC440/432/425*. Then select the **[Enter]** key.

Example: If the IP Address is 192.168.100.100, enter the following in the URL field:

`http://192.168.100.100`

3. At the CentreWare Internet Services Home Page for the *DC440/432/425*, select the **[Properties]** link.
4. Select the plus symbol (+) to the left of the **[Services]** folder in the **Properties** frame, and then select the **[Server Fax Setup]** folder.
5. Select **[TCP/IP]**.
6. Enter the **IP Address** of the server holding the fax repository.
7. Enter the **Directory Path** for the repository.
8. Enter the repository **Login Name**.
9. Enter the repository **Password**.
10. Click the **[Apply New Settings]** button to implement any changes.

---

**NOTE:** Click the **[Restore Settings]** button to cancel any changes made and return to the previous values.

---

11. When prompted, enter **[admin]** (lower case) into the Name field and **[22222]** into the Password field and select **[OK]**.



# Confirmation Report Setup

---

When enabled the *DC440/432/425* will print a Confirmation Report confirming whether the fax has been successfully scanned and filed to the 3rd Party Fax Server.

---

**NOTE:** This report is not a transmission report. Confirmation as to whether the fax has been delivered is a feature of the 3rd Party Fax Server.

---

Please refer to the 3rd Party Fax Server documentation for more information about transmission reports.

1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the *DC440/432/425*.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.
2. Select **[Fax Setups]**.
3. If only Server Fax is installed you will automatically access the Server Fax Setups screen. If both Embedded Fax and Server Fax are installed select **[Fax Setups]**.
4. Select **[Confirmation Report]**.
  - A. Select **[On]**, **[Off]** or **[Errors Only]**.
  - B. Select **[Save]**.
  - C. Select **[Exit]**.

# Output Tray Setup

---

This feature allows you to select the output tray for faxes printed by the Fax Server.

1. Enter System Administrator Setups:
  - A. Select the **[Access]** button on the DC440/432/425.
  - B. Using the keypad, enter **[#22222]** (or the current System Administrator password) and then select **[Enter]**. Enter the # character before entering 22222.
2. Select **[Fax Setups]**.
3. If only Server Fax is installed you will automatically access the Server Fax Setups screen. If both Embedded Fax and Server Fax are installed select **[Fax Setups]**.
4. Select **[Output Tray Options]**.
  - A. Select either **[Auto]**, **[Centre]**, **[Left]** or **[Stapled]**.

---

**NOTE:** When Auto is selected the settings of each print job will be used. Auto is the default option. If Stapled is selected and your DC440/432/425 does not have a finisher, your prints will be delivered to the Left Output Tray.

---

- B. Select **[Save]**.
- C. Select **[Close]**.
- D. Select **[Exit]**.

To ensure Server Fax has been set up successfully, perform the following steps:

1. Place a document in the Document Feeder, or on the Document Glass.
2. Select **[Fax]** on the DC440/432/425 Touch Screen.
3. Enter the recipient's fax number.
4. Select the **[Start]** button. After the job is scanned, the DC440/432/425 files the job as specified for retrieval by the 3rd Party Fax Server. A Confirmation Sheet (if enabled) is printed confirming the status of the job.
5. If the scanning operation is not successful, check the Confirmation Sheet for a message or other information that may be helpful in identifying the cause of the problem.

*If the test job fails, refer to the Problem Solving chapter for trouble-shooting procedures.*



# 15 *Problem Solving*

## Introduction

---

This chapter explains the problem solving procedure and how to seek further assistance.

- Problem Solving Procedure ..... 15-2
  - Network Scanning Information ..... 15-3
  - Authentication ..... 15-5
  - E-mail ..... 15-6
  - Server Fax..... 15-8

# Problem Solving Procedure

---

If a problem occurs with the network printing, network faxing or network scanning functions of the *DC440/432/425*, this chapter is used to identify the steps to solve the problem.

Use the following procedure to identify and solve the problem:

1. Resolve any local copier or fax problems first. Perform the corrective action that is recommended by the *User Guide*. Do not attempt to resolve a network problem if the local copier and fax functions are not operating correctly.
2. Check that the *DC440/432/425* has power and it is turned on.
3. Check that the network cable is connected to the *DC440/432/425*.
4. Check that the network cable is connected to the workstation.
5. Check that the *DC440/432/425* print/fax driver is selected at the workstation.
6. Check that the software application being used to send print jobs is set up correctly.
7. If available within the print driver, select the *Print PostScript Error Information* option or the equivalent. If there are any PostScript errors, the document may not print, but an error sheet will print if this option is selected. This error information can be helpful in resolving the problem.
8. Power off the device, wait 15 seconds then power back on and check for a configuration report being printed. (A configuration report will not print until the device has completely rebooted, approximately 3 minutes.)
9. If a specific workstation is not printing/faxing then reload the device printer/fax drivers on the workstation.
10. Call the local Xerox Welcome Centre, where a representative will assist in the diagnosis and solution of the problem.

The following tables offer information about errors that may be encountered when using network scanning, authentication, e-mail and server fax services. If a problem still exists after the corrective action has been performed then follow the problem solving procedure on page 15-2 to seek further assistance.

## Network Scanning Information

| Problem                                                                                                                     | Corrective Action                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The image quality of the scanned image is not acceptable.                                                                   | <ul style="list-style-type: none"> <li>• Ensure the appropriate image quality setting is selected in the template being used. Use the Image Quality <b>Text</b> setting for text documents and the <b>Photo</b> setting for greyscale images.</li> <li>• Also, try selecting a scanner resolution of 1.2 to 2.0 times the screen frequency of the device that the file will be displayed or printed on.</li> </ul> |
| The optical character recognition ("OCR") application being used with the scanned image does not recognise text accurately. | <ul style="list-style-type: none"> <li>• Ensure that the Image Quality <b>Text</b> setting is selected when scanning the document(s).</li> </ul>                                                                                                                                                                                                                                                                   |
| The size of the scanned image file is too large                                                                             | <ul style="list-style-type: none"> <li>• Reduce the Scan resolution using <i>Stored Image Settings</i>.</li> </ul>                                                                                                                                                                                                                                                                                                 |
| Network Scanning Job has failed.                                                                                            | <p>Error generated if a network scanning operation has failed for an unknown reason.</p> <ul style="list-style-type: none"> <li>• Check the filing settings and try again.</li> <li>• Check that the destination server is available.</li> </ul>                                                                                                                                                                   |
| Filing path invalid or location already in use.                                                                             | <p>Error generated if an attempt is made to file a job to a location using an invalid path or if the destination is already being used by another Document Centre for filing.</p> <ul style="list-style-type: none"> <li>• Check the path and try again after a few minutes.</li> </ul>                                                                                                                            |

| <b>Problem</b>                                                | <b>Corrective Action</b>                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol not configured or running.                           | <ul style="list-style-type: none"> <li>• Error generated if an attempt is made to scan a job using a template that specifies a protocol that is not installed on the Document Centre, or is not available on the destination server.</li> </ul>                                                       |
| Login Failed. Check user name/ password                       | <ul style="list-style-type: none"> <li>• Error generated if the specified volume name is invalid. Check the volume name is correct for the destination server and try again.</li> </ul>                                                                                                               |
| Job failed as specified filename or directory already exists. | <ul style="list-style-type: none"> <li>• Error generated if the filing policy of New Exact is used and a file/directory with the same name already exists.</li> </ul>                                                                                                                                 |
| File transfer failed.                                         | <p>Error generated if the file transfer between the device and the destination server has failed.</p> <ul style="list-style-type: none"> <li>• Check that the destination server is accepting filing requests.</li> <li>• Check that the user has access rights to the destination server.</li> </ul> |
| File transfer failed - unknown reason.                        | <p>Error generated if the file transfer between the device and the destination server has failed due to an unknown termination of the transfer process.</p> <ul style="list-style-type: none"> <li>• Check that the destination server is still available.</li> </ul>                                 |



## Authentication

---

| Problem                                                                                         | Corrective Action                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Attempting to login using Network Authentication results in a "Login Failed" error.             | <ul style="list-style-type: none"><li>• Check the user name and password is correct for the server that is being accessed.</li><li>• Check that if an alternative authentication server is configured that the user is not attempting to login to the wrong server.</li></ul> |
| Attempting to login using Network Authentication results in a "Communication Error" message.    | <ul style="list-style-type: none"><li>• Check that the authenticating server is available to the Document Centre.</li></ul>                                                                                                                                                   |
| Attempting to login using Network Authentication results in a "Authentication Problem" message. | <ul style="list-style-type: none"><li>• Check that the authenticating server is available to the Document Centre.</li></ul>                                                                                                                                                   |

## E-mail

| Problem                                                                                                                                                           | Corrective Action                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E-mail does not arrive at destination address. No E-mail Error report printed by the device.                                                                      | <ul style="list-style-type: none"> <li>Check the SMTP address entry to ensure job is being sent to the correct recipient and that the address is spelt correctly.</li> </ul>                                                                                                                                                                                                                                                                                                    |
| Device prints an E-mail Error report after an attempt is made to send an e-mail job.                                                                              | <ul style="list-style-type: none"> <li>Check that the e-mail server settings configured on the device are correct.</li> <li>Check that the mail server is configured to accept SMTP mail.</li> </ul> <p><b>NOTE:</b> Not all mail servers are configured to accept SMTP e-mail. The Document Centre requires a mail server that is configured for SMTP.</p>                                                                                                                     |
| Cannot change e-mail "From" address entry.                                                                                                                        | <ul style="list-style-type: none"> <li>If the user accesses the device using a password with the <i>Guest Authentication</i> feature then the <i>From</i> address may be changed.</li> </ul>                                                                                                                                                                                                                                                                                    |
| "Reply To" e-mail address receives a mailnote from the SMTP server stating that the mail message was undeliverable due to the attachment or file being too large. | <ul style="list-style-type: none"> <li>Resend the job using a lower scan resolution.</li> <li>Split the originals into smaller jobs.</li> </ul>                                                                                                                                                                                                                                                                                                                                 |
| Cannot find required entry in the Public Address Book.                                                                                                            | <ul style="list-style-type: none"> <li>Try typing the first letter of the entry and then manually scroll the list for the required name.</li> <li>Check that the address book entries are in the correct order.</li> </ul> <p><b>NOTE:</b> The order of the Public Address Book is defined by the order of the entries contained in the downloaded .CSV file. If the .CSV files contain the wrong order of entries then that incorrect order will be displayed to the user.</p> |

| Problem                                                                                              | Corrective Action                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Public Address Book does not display an address format of name@domain.com for a selected name entry. | <ul style="list-style-type: none"> <li>Check that the .CSV file contains a name value and an address value separate by a comma, for example the format "Smith, John" - john.smith@company.com.</li> <li>Check that the mapping of the address book is correct as defined in the Import CSV file screen in the device Web UI.</li> </ul> <p><b>NOTE:</b> The Document Centre will accept .CSV files from most word processing or mail client applications.</p> |
| Cannot find required entry in the Internal Address Book available via LDAP.                          | <ul style="list-style-type: none"> <li>Recheck the spelling of the name required.</li> <li>Try searching on only the first letter of the name. Normally an LDAP environment will search on a <i>Lastname / Firstname</i> order but this may differ depending on the environment.</li> </ul> <p><b>NOTE:</b> System Administrators can change the LDAP search location.</p>                                                                                    |
| Cannot browse an Internal Address Book LDAP server that is configured with SSL.                      | <ul style="list-style-type: none"> <li>The Document Centre only supports connection to the LDAP server over a non-secure port.</li> </ul>                                                                                                                                                                                                                                                                                                                     |
| Attempting an Internal Address Book LDAP search results in a "Too many entries found" error.         | <ul style="list-style-type: none"> <li>Try entering more letters for the name being searched.</li> </ul> <p><b>NOTE:</b> The number of search results may be limited by either the device System Administrator or the System Administrator to prevent the LDAP server being overloaded with too many search queries.</p>                                                                                                                                      |
| Attempting an Internal Address Book LDAP search results in a "Search Tree Invalid" error.            | <ul style="list-style-type: none"> <li>Check the syntax of the LDAP Directory entry. It should be in the format <i>ou=name, o=name</i> but this will vary depending on the LDAP server type and configuration.</li> </ul>                                                                                                                                                                                                                                     |
| Attempting an Internal Address Book LDAP search results in a "No matches found" error.               | <ul style="list-style-type: none"> <li>Check the spelling of the name that you are searching for.</li> </ul>                                                                                                                                                                                                                                                                                                                                                  |

## Server Fax

| Problem                                                                                      | Corrective Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation fails                                                                           | <ul style="list-style-type: none"> <li>LAN Fax may be installed. Contact your Xerox Service Representative to have LAN Fax uninstalled.</li> </ul> <p><b>NOTE:</b> Server Fax cannot be installed if LAN Fax is installed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Following installation Server Fax screens do not appear.                                     | <ul style="list-style-type: none"> <li>Server Fax is disabled by default. Enter SA Setups and enable Server Fax.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Troubleshooting - Does the problem lie with the Document Centre or the 3rd Party Fax Server? | <ol style="list-style-type: none"> <li>1. Disable the Fax Server so it does not try to collect new faxes from the fax repository.</li> <li>2. Send a text fax from the Document Centre.</li> <li>3. If the DOC***.XSM directory has been created in the fax repository and it contains the correct TIF files (one per page of the fax) then the Document Centre has successfully completed its task and the problem lies with the 3rd Party Fax Server.</li> </ol>                                                                                                                                                                                                                                                                                       |
| Document Centre problems - general                                                           | <ul style="list-style-type: none"> <li>In SA Setups set Confirmation Report to 'ON' and send a text fax.</li> </ul> <p>If the report shows a success check the filing location is correct. If it shows a failure check the reason given. Filing failure will be caused by one of the following:</p> <ul style="list-style-type: none"> <li>Document Centre could not find a server to authenticate to.</li> <li>Document Centre had incorrect login credentials.</li> <li>Fax Repository not available, for example directory does not exist, account has insufficient right to view or write, volume not mounted....</li> <li>Filing started but did not complete, for example directory full or communications lost during filing operation</li> </ul> |
| 3rd Party Fax Server problems                                                                | <ul style="list-style-type: none"> <li>Refer to your Fax Server documentation for details.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Problem                                                  | Corrective Action                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fax not received.                                        | <ul style="list-style-type: none"> <li>• Check printing is correctly configured at the 3rd Party Fax Server.</li> <li>• Check that no relevant Document Centre printer configurations have been changed. For example; has a protocol been disabled or has an address such as an IP address been modified.</li> </ul> |
| Fax destination in Network Scanning template is ignored. | <ul style="list-style-type: none"> <li>• It is possible to create a Network Scanning template with a fax component. This is designed for Embedded Fax but is not supported with Server Fax on the DC440/432/425.</li> </ul>                                                                                          |
| Fax from CentreWare is not working.                      | <ul style="list-style-type: none"> <li>• Use the software provided by the 3rd Party Fax Server Vendor.</li> </ul> <p><b>NOTE:</b> CentreWare print drivers cannot be used to fax to a DC440/432/425 with Server Fax.</p>                                                                                             |



# 16 Glossary

|                          |                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10Base2</b>           | A cable used for networking. It is a coaxial cable consisting of a centre wire and a shield separated by an insulating material. It is commonly called "thinnet".                                                                                                   |
| <b>10Base5</b>           | A cable used for networking. It is a coaxial cable consisting of a centre wire and a shield separated by an insulating material. It is often called "thicknet".                                                                                                     |
| <b>10BaseT</b>           | A cable used for networking. It is also called "twisted-pair" because it is comprised of two insulated wires twisted together. 10BaseT cable can be shielded or unshielded. Shielded cable provides more protection from noise than unshielded cable.               |
| <b>ASCII</b>             | An acronym for <b>American Standard Code for Information Interchange</b> . A coding scheme that assigns numeric values to letters, numbers, punctuation, and certain other characters.                                                                              |
| <b>Broadcast Address</b> | The Broadcast Address, in combination with the Subnet Mask, identifies other hosts on the subnet to which the host will send broadcast messages.                                                                                                                    |
| <b>DHCP</b>              | An acronym for <b>Dynamic Host Configuration Protocol</b> . A protocol allowing the principal parameters of network devices (including IP Addresses) to be configured by central DHCP servers.                                                                      |
| <b>DHCP AUTOIP</b>       | Available with Win98 and Win2000. <b>Dynamic Host Configuration Protocol AutoIP</b> will automatically assign itself an IP address in the range 169.254.x.x during configuration of the PC.                                                                         |
| <b>Driver</b>            | Software that is loaded on the client workstation that prepares data to be sent to the <i>DC440/432/425</i> . It is also called a "print driver" or a "print/fax driver". The <i>DC440/432/425</i> drivers are designed specifically for the <i>DC440/432/425</i> . |
| <b>CSV</b>               | An acronym for <b>Comma Separated Value</b> . The CSV file is typically created by a Third Party E-mail application, for example Microsoft Outlook.                                                                                                                 |

|                                     |                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ethernet</b>                     | Network transport technology commonly used to send data from one network node to another.                                                                                                                                                                                                                                              |
| <b>Ethernet Address</b>             | The Ethernet Address is a unique address that identifies a device on a network. The Ethernet Address is built into the device when it is manufactured. The Ethernet Address consists of six bytes of information and is expressed as hexadecimal numbers with the bytes separated by colons.<br>(Example: 00:00:08:D4:05:14)           |
| <b>Fax Driver</b>                   | See Driver.                                                                                                                                                                                                                                                                                                                            |
| <b>Client Server</b>                | A network environment in which the nodes communicate with a file server, and not directly with other nodes. NetWare 3.12 and Banyan VINES are client server networking products.                                                                                                                                                       |
| <b>Frame</b>                        | A group of data sent through the network. It is also called a "packet" or a "message". There are several different types of frames. The data is arranged differently in different types of frames. Nodes on a network must be set up for the same Frame Type in order to communicate.                                                  |
| <b>Gateway Address</b>              | The Gateway Address is the IP Address of the gateway, or router, that the DC440/432/425 will use to access devices on other subnets.                                                                                                                                                                                                   |
| <b>HTTP</b>                         | An acronym for <b>H</b> yper <b>T</b> ext <b>T</b> ransfer <b>P</b> rotocol. This is the Internet standard that supports the exchange of information on the World Wide Web (WWW). HTTP lays the foundation for transparent access to the Internet.                                                                                     |
| <b>IEEE</b>                         | An acronym for Institute of <b>E</b> lectrical and <b>E</b> lectronics <b>E</b> ngineers. This is an organization of engineering and electronics professionals notable for developing the IEEE 802 standards for the physical and data-link layers of local area networks, following the ISO Open Systems Interconnection (OSI) model. |
| <b>Internetwork Packet Exchange</b> | See IPX.                                                                                                                                                                                                                                                                                                                               |
| <b>IP</b>                           | See TCP/IP                                                                                                                                                                                                                                                                                                                             |
| <b>IP Address</b>                   | See TCP/IP                                                                                                                                                                                                                                                                                                                             |
| <b>IPX</b>                          | Internetwork <b>P</b> acket <b>E</b> xchange. IPX is part of NetWare. It routes packets to the correct node and to the correct process within the node.                                                                                                                                                                                |



|                              |                                                                                                                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISO</b>                   | An acronym for <b>I</b> nternational <b>S</b> tandards <b>O</b> rganization. An international organization that specifies network standards. The ISO developed the Open Systems Interconnection (OSI) model.                                |
| <b>LAN</b>                   | An acronym for <b>L</b> ocal <b>A</b> rea <b>N</b> etwork. This is a network that serves a relatively small area, such as one building, and does not require telecommunications services to reach all of the nodes.<br><i>See also</i> WAN. |
| <b>Local Area Network</b>    | <i>See</i> LAN.                                                                                                                                                                                                                             |
| <b>LPD</b>                   | An acronym for <b>l</b> ine <b>p</b> rinter <b>d</b> aemon. This is a print management program that runs on a host.                                                                                                                         |
| <b>LDAP</b>                  | An acronym for <b>L</b> ightweight <b>D</b> irectory <b>A</b> ccess <b>P</b> rotocol. A protocol that allows sharing of corporate phone book information.                                                                                   |
| <b>Message</b>               | <i>See</i> Frame.                                                                                                                                                                                                                           |
| <b>NCP</b>                   | <i>See</i> NetWare Core Protocol.                                                                                                                                                                                                           |
| <b>NetWare</b>               | A network operating system from Novell. Clients log onto one or more file servers, which provide services such as mail, printing, and filing.                                                                                               |
| <b>NetBIOS/NetBEUI</b>       | A peer-to-peer networking system using the NetBEUI protocol.                                                                                                                                                                                |
| <b>NetBIOS/IP</b>            | A peer-to-peer networking system using the IP protocol.                                                                                                                                                                                     |
| <b>NetWare Core Protocol</b> | A protocol used by a NetWare client to request services from a NetWare server.                                                                                                                                                              |
| <b>Node</b>                  | A device on a network that has an address and can send and/or receive data to and from other devices on the network.                                                                                                                        |
| <b>Packet</b>                | <i>See</i> Frame.                                                                                                                                                                                                                           |
| <b>PCL</b>                   | An acronym for <b>P</b> rinter <b>C</b> ontrol <b>L</b> anguage, which is used by Hewlett-Packard. This is a set of commands that tell a printer how to print a document.                                                                   |
| <b>PCL5e</b>                 | A Hewlett-Packard Printer Control Language (PCL) that is the first version of PCL to support bi-directional communication between printer and computer.                                                                                     |
| <b>PCONSOLE</b>              | A NetWare utility that can be used to create, configure, monitor, and manage queues in a NetWare server, and to attach print servers to the queues.                                                                                         |

|                                            |                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PDL</b>                                 | An acronym for <b>Page-Description Language</b> . This refers to a programming language, such as PostScript, that is used to describe output to a printer or a display device, which then uses the instructions from the PDL to construct text and graphics and create the required page image.   |
| <b>Peer-to-Peer</b>                        | A network environment in which the nodes communicate directly with other nodes. Windows for Workgroups, NetWare Lite, and Macintosh System 7 are examples of peer-to-peer networking products.                                                                                                    |
| <b>Print driver</b>                        | See Driver.                                                                                                                                                                                                                                                                                       |
| <b>Protocol</b>                            | The rules that control the transmitting and receiving of data.                                                                                                                                                                                                                                    |
| <b>Queue</b>                               | A place where jobs are stored temporarily, while they are waiting to be processed. A print queue will hold several print jobs. A printer that is attached to the print queue will print the jobs one at a time.                                                                                   |
| <b>RARP</b>                                | An acronym for <b>Reverse Address Resolution Protocol</b> . This is a method for providing IP Addresses to nodes on a network. When a node powers up, it broadcasts a RARP packet containing its Ethernet Address. The RARP server receives the packet and sends the IP Address back to the node. |
| <b>Reverse Address Resolution Protocol</b> | See RARP.                                                                                                                                                                                                                                                                                         |
| <b>RJ45</b>                                | A connector used to connect a 10BaseT cable to a device.                                                                                                                                                                                                                                          |
| <b>Router</b>                              | A device that directs network packets to the segment of the network for which the packet is intended, and excludes packets that are not intended for a segment. Routers reduce unnecessary network traffic and control access to segments of the network.                                         |
| <b>SAP</b>                                 | An acronym for <b>Server Advertising Protocol</b> . Nodes on a NetWare network broadcast "SAP packets" at intervals to advertise their presence to other nodes.                                                                                                                                   |
| <b>Sequenced Packet Exchange</b>           | See SPX.                                                                                                                                                                                                                                                                                          |
| <b>Server Advertising Protocol</b>         | See SAP.                                                                                                                                                                                                                                                                                          |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPX</b>               | An acronym for <b>S</b> equenced <b>P</b> acket <b>E</b> xchange. SPX is part of NetWare. It ensures that packets are received in the correct order and that there are no errors.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Subnet Mask</b>       | There are approximately 4.3 billion different addresses in the IP Address range of 000.000.000.000 to 255.255.255.255. These addresses can be divided into smaller, and much more manageable subnetworks, or subnets. The Subnet Mask identifies which part of the IP Address contains the Subnet Address and which part contains the host (or device) address.                                                                                                                                                                                                                                         |
| <b>TCP/IP</b>            | An acronym for <b>T</b> ransmission <b>C</b> ontrol <b>P</b> rotocol / <b>I</b> nternet <b>P</b> rotocol. TCP/IP is a set of communications protocols that is supported by a variety of computer platforms. TCP controls the data transfer and IP controls the routing of the data. The IP Address is a unique address that identifies a device in a network. The IP Address has to be set in the <i>DC440/432/425</i> by the System Administrator. The IP Address consists of four bytes of information and is expressed as decimal numbers with the bytes separated by dots.<br>(Example: 13.1.188.2) |
| <b>Thicknet</b>          | See 10Base5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Thinnet</b>           | See 10Base2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>TIFF</b>              | An acronym for <b>T</b> agged <b>I</b> mage <b>F</b> ile <b>F</b> ormat. A standard file format commonly used for scanning. Images scanned with the <i>DC440/432/425</i> are captured in a TIFF 6.0 file format.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Twisted-pair</b>      | See 10BaseT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>WAN</b>               | An acronym for <b>W</b> ide <b>A</b> rea <b>N</b> etwork. This is a network that serves a relatively large area, such as buildings in different cities and requires telecommunications services to reach all the nodes. See <i>also</i> LAN.                                                                                                                                                                                                                                                                                                                                                            |
| <b>Wide Area Network</b> | See WAN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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