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Xerox[®] Phaser 3320DN/3320DNI System Administrator Guide



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Introduction

1

Welcome to the Xerox Phaser 3320DN/3320DNI System Administrator Guide. This chapter includes:

- [Who should use this Guide?](#) on page 8
- [Machine Overview](#) on page 9
- [Control Panel Overview](#) on page 10

Who should use this Guide?

Who should use this Guide?

This guide is intended for System Administrators who need to install, setup and manage printers on their network.

To use the procedures in this guide effectively, System Administrators must have previous experience working in a network environment and must possess Supervisor, Administrator, Account Operator, or equivalent rights to the network. They must also have prior knowledge of how to create and manage network user accounts.

Machine Overview

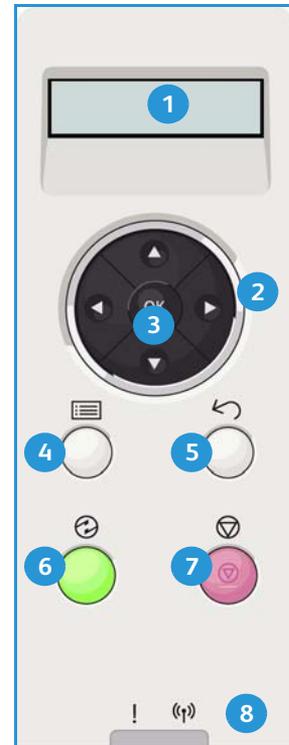
The Xerox Phaser 3320DN/3320DNI are environmentally friendly printing machines providing excellent quality and speed. The features and functions available on your machine depend on the model you have purchased.

Product Configurations

Component	Phaser 3320DNI	Phaser 3320DN
Paper Tray 1 (250 sheets)	Standard	Standard
Bypass Tray (50 sheets)	Standard	Standard
Paper Tray 2 (520 sheets)	Optional	Optional
Network Printing	Standard	Standard
USB Port	Standard	Standard
128MB Memory	Standard	Standard
256MB Additional Memory Expansion	Optional	Optional
Wireless Enabled	Standard	Not Applicable

Control Panel Overview

1		Display Screen: Displays the current machine status and prompts during an operation.
2		Arrows: The up/down and left/right arrows are used to scroll through the options available in the selected menu, and to increase or decrease values.
3		OK: Confirms the selection on the screen.
4		Menu: Enters <i>Menu Mode</i> and enables you to access options and settings.
5		Back: Used to go back one level in the menu.
6		Power Save: Sends the machine into <i>Power Save</i> mode or <i>Power Down</i> . Press the button again to restart the machine.
7		Stop: Pressing the Stop button stops an operation at any time.
8		Status / Wireless LED: The color of the LEDs indicates the machine's current status. For more information refer to the User Guide supplied with your machine. Note: The Wireless LED applies to the Phaser 3320DNI only.



Machine Connection

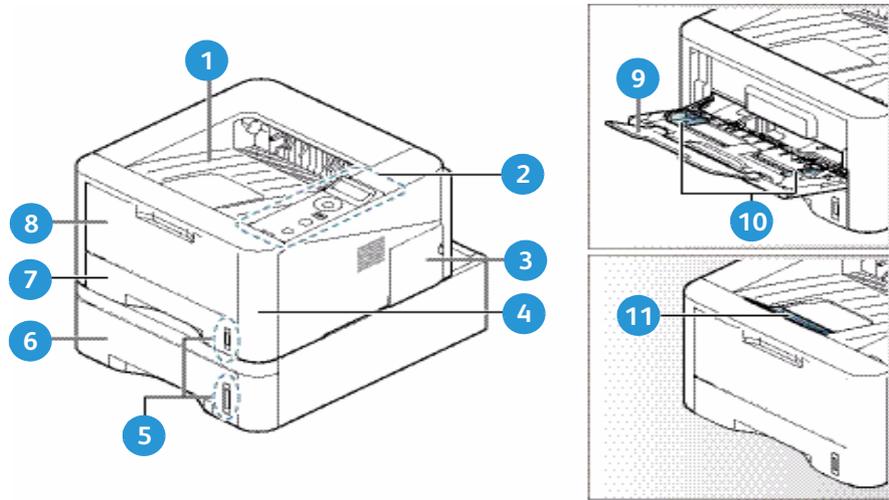
2

This chapter shows you how to connect your machine to a network and configure the Ethernet settings and includes:

- [Machine Parts and Connection Ports](#) on page 12
- [CentreWare Internet Services](#) on page 18

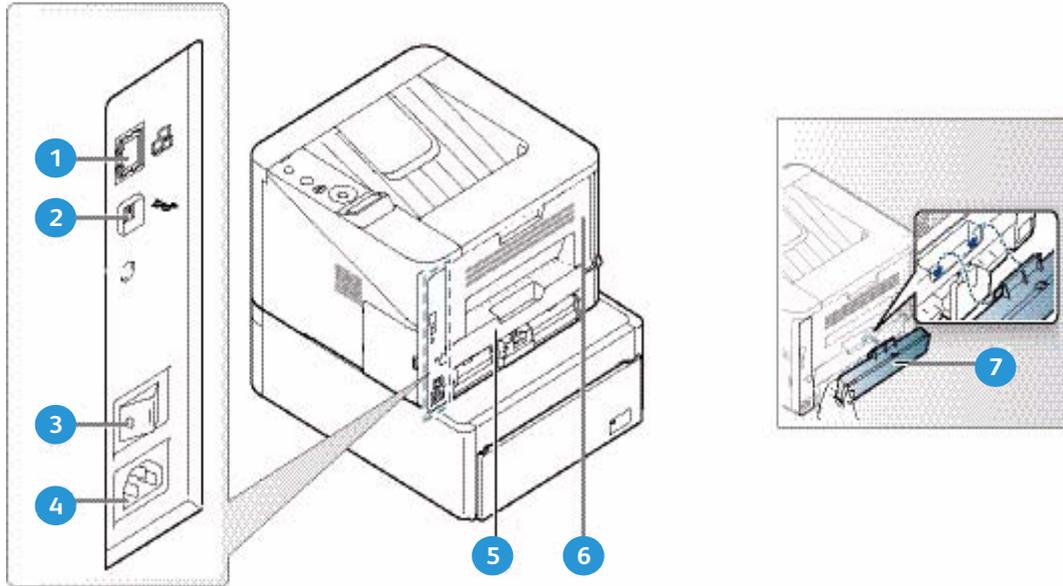
Machine Parts and Connection Ports

Front View



1	Output Tray	7	Paper Tray 1
2	Control Panel	8	Bypass Tray
3	Control Board Cover	9	Bypass Tray Extension
4	Front Cover	10	Bypass Tray Width Guides
5	Paper Level Indicator	11	Output Tray Support
6	Paper Tray 2 (Optional)		

Rear View



1	Network Port	5	Duplex Unit
2	USB Port	6	Rear Door
3	Power Switch	7	Paper Tray Rear Cover
4	Power Receptacle		

Initial Connection

The *On/Off switch*, the *power outlet* and the *Network Port* are at the rear of the machine. Follow these steps to physically connect your machine to the network:

1. Connect the Power Cord to the machine and a suitable power supply outlet. The power cord must be plugged into a grounded power socket.
2. Connect the Network Cable if required. The Phaser 3320DNI will also connect to a wireless network, if available, when powered on.

Note: If you choose a wireless connection for your Phaser 3320DNI printer, you cannot use a wired connection at the same time.

Installation Wizard

On initial power *On* the *Installation Wizard* runs:

1. The **Language** menu displays. Press the arrow buttons to highlight the required language and press **OK**.
2. The **Metric Default** menu displays. Press the arrow buttons to select one of the following and press **OK**:
 - **Inches**
 - **mm**
3. The **Default Paper** menu displays. Press the arrow buttons to select one of the following and press **OK**:
 - **Letter**
 - **A4**
4. The **Support Info** menu displays.
 - a. Press the arrow buttons to select **Cust. Support** and press **OK**. Use the arrow buttons to enter the customer support telephone number and press **OK**.
 - b. Press the arrow buttons to select **Supplies Order** and press **OK**. Use the arrow buttons to enter the supplies ordering telephone number and press **OK**.
5. The **Installation Complete** screen displays. Press **OK**.

Administrator Access

The machine feature and setup options are accessed through the **Menu** button on the *control panel*. The setup options should be set up and customized by the *System Administrator*. Access to these options is sometimes password protected.

Entering a password:

6. Press the **Menu** button  on the *control panel*.
7. Press the down arrow button to scroll to **Network Setup** and press **OK**. The **Enter Password** screen displays.
8. Enter the machine password, the default is 1111:
 - Press the up arrow button to get number 1 on the screen.
 - Press the right arrow button to get the second number in the password.
 - Continue pressing the up arrow to select the required number and the right arrow to move across until you have entered the whole password.
9. Select **OK**.

Wireless Connectivity (Phaser 3320DNI)

The Phaser 3320DNI is compatible with 802.11 (Wi-Fi®) wireless networks, when used with an external wireless adapter 802.11 Ethernet Bridge. The location where the machine is installed must be covered by an 802.11 wireless network. This is typically provided by a nearby wireless access point or router, which is physically connected to the wired Ethernet that serves the building.

The machine supports connectivity via a wireless only connection if required.

Note If a wireless network is available, the Phaser 3320DNI will automatically configure wireless networking when powered on.

There are several ways to configure Wireless Connectivity:

- At the Machine. For instructions refer to [Configure Wireless Connectivity at the Machine \(Phaser 3320DNI\)](#) on page 15.
- Using **Internet Services**. For instructions refer to [Configure Wireless Connectivity Using Internet Services \(Phaser 3320DNI\)](#) on page 19.
- With the **Wireless Setting Program**. For instructions refer to [Wireless Setup \(Phaser 3320DNI\)](#) on page 40.

Configure Wireless Connectivity at the Machine (Phaser 3320DNI)

1. Press the **Menu** button on the control panel.
2. Press the arrow buttons to select **Network Setup** and press **OK**.
3. Enter the *Administrator Password* using the arrow buttons. The default is **1111**. Refer to [Entering a password:](#) on page 14.
4. Press the arrow buttons to select **Wireless** and press **OK**. The options are:
 - **Wi-Fi ON/OFF** - allows you to enable or disable wireless connectivity.
 - **WPS Settings** - allows you to select the Wi-Fi Protected Setup - the options are **PBC** or **PIN**.
 - **WLAN Default** - allows you to restore the default wireless settings.
 - **WLAN Signal** - allows you to view the strength of the wireless connection.
5. At the **Wireless** menu, press the arrow buttons to select **Wi-Fi ON/OFF** and press **OK**. Ensure that **On** is selected and press **OK**.
6. Press the arrow buttons to select **WPS Settings** and press **OK**.
7. Select **Yes** to apply the changes.

Configure Ethernet Settings

The Ethernet interface will automatically detect the speed of your network. The machine supports hub/switch speeds of:

- Auto
- 10M Full
- 100M Full
- 10M Half
- 100M Half
- 1 Giga Full

Set the Ethernet speed on the machine to match the speed set on your hub or switch:

Setting the Ethernet Speed at the Machine

1. Press the **Menu** button.

2. Press the arrow buttons to highlight **Network Setup** and press **OK**.
3. Enter the *Administrator Password* using the arrow buttons. The default is **1111**. Refer to [Entering a password](#): on page 14.
4. Use the arrow buttons to scroll to **Ethernet Speed** and press **OK**.
5. Use the arrow buttons to select one of the following speeds:
 - Automatic
 - 10 Mbps Half
 - 10 Mbps Full
 - 100 Mbps Half
 - 100 Mbps Full
 - 1 Gbps Full
6. Press **OK**. The **Please Reboot** message displays.
To reboot the machine, press the *power switch* off, wait two seconds and press the *power switch* back on.

To set the Ethernet Speed using Internet Services, refer to [Setting the Ethernet Speed Using Internet Services](#) on page 20.

Print a Configuration Report

The *Configuration Report* details the machine software versions and network settings configured for the machine.

Print a Configuration Report at the Machine

1. Press the **Menu** button.
2. Press the arrow buttons to scroll to **Information** and press **OK**.
3. Press the arrow buttons to select **Configuration** and press **OK**.

Use the arrow buttons to select **Yes** and press **OK**. The *configuration report* will print.

You can also print the *Configuration Report* using *Internet Services*. Refer to [Status](#) on page 81.

Install the Additional Memory Card (Optional)

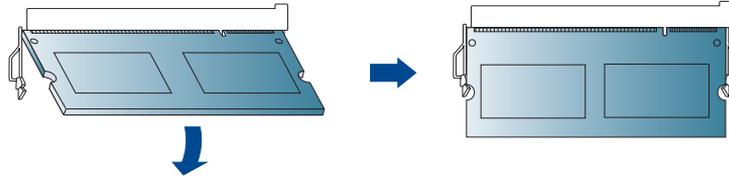
The machine supports memory expansion through the installation of an additional memory card. Memory expansion is an option for the machine.

The machine has a dual in-line memory module (DIMM). Use this memory module slot to install additional memory.

1. Turn the machine off and unplug all cables from the machine.
2. Grasp the control board cover and remove it.
3. Remove the new memory module from its bag.

4. Holding the memory module by the edges, align the memory module on the slot at about a 30-degree tilt. Make sure that the notches of the module and the grooves on the slot fit each other.

Note The notches and grooves illustrated may not match those on an actual memory module and its slot.



5. Press the memory module into the slot with care until you hear a 'click'.
6. Do not press the memory module strongly or the module may be damaged. If the module does not seem to fit into the slot properly, carefully try the previous procedure again.
7. Replace the control board cover.
8. Reconnect the power cord and machine cable and turn the machine on.

CentreWare Internet Services

CentreWare Internet Services (Internet Services) is the embedded HTTP server application that resides in the machine. *Internet Services* allows an administrator to change network and system settings on the machine from the convenience of their workstation.

Many features available on your machine will need to be set via the machine and *CentreWare Internet Services*.

System Configuration

To use *CentreWare Internet Services*, you need to enable both TCP/IP and HTTP on the machine. See [Configure Static IPv4 Addressing at the Machine](#) on page 24, or [Configure Dynamic IPv4 Addressing at the Machine](#) on page 25.

To enable HTTP at the machine:

Note HTTP is enabled by default.

1. Press the **Menu** button.
2. Use the up/down arrows to select **Network Setup**.
3. Enter the *Administrator password*. The default is **1111**. Refer to [Entering a password:](#) on page 14.
4. Use the arrow buttons to select **HTTP Activate**.
5. Use the arrow buttons to select **On**.
6. Press **OK**.
7. Press the *power switch* off, wait two seconds and press the *power switch* back on.

Administrator User Name and Password

Many of the features available within *CentreWare Internet Services* will require an *Administrator user name* and *password*. The default user name is **admin** and the default password is **1111**.

Internet Services Administrator Access

To access *Internet Services Properties* and change settings you will need to login as Administrator.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**. The **Home** page appears.
There are two ways to access **Internet Services** with the administrator login:
 - Select **Login** at the top of the screen
 - Select the **Properties** icon
3. Enter the *Administrator User Name* (**admin**) and *Password* (**1111**) and select **Login**.
4. Click **Properties**.

Change the Administrator Password

It is recommended that you change the default administrator password to a more secure password, so this Xerox machine is not compromised.

To change the Administrator password:

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the Administrator *User Name* (**admin**) and *Password* (**1111**), and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side, select **System Security**.
7. Select the **System Administrator** link.
8. In the **Access Control** area:
 - a. Ensure **Web UI Access Control** checkbox is selected.
 - b. In the **Login ID** field, enter a new login name.
 - c. Select the **Change password** box to change the password. In the **Password** field, enter a new numeric password.
 - d. Enter the password again in the **Confirm Password** field.



CAUTION: Do not forget the password or you could be completely locked out of the system, requiring a service call.

9. Select **Apply** to save the changes.
10. Select **OK** when the acknowledgement message displays.
11. Select the **Advanced** button. The **Advanced Access Control** screen appears.
12. Select **Protect Login IPv4 Address** checkbox to enable this feature if required, and enter an **IPv4 Address** in the box.
13. Select the required option for the **Login Failure Policy**, for users who fail to login several times. The options are: **Off**, **3 times** or **5 times**.
14. Select the required option for **Auto Logout**. The options are **5**, **10**, **15** or **30 minutes**.
15. Enable **Security Settings Reset** if required.
16. Select **Save** to save your changes.

For further information, refer to [Administrator Accounts](#) on page 62.

Configure Wireless Connectivity Using Internet Services (Phaser 3320DNI)

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.

5. Click **Properties**.
6. In the **Network Settings** link, select the **Wireless** link.
7. The **Connection Status** shows the Link Status of the wireless connection.
8. The Wireless Settings area provides options to configure wireless connectivity. The options are **Easy Wireless Settings** and **Advanced Settings**, and are explained below.

Use the Easy Wireless Settings Wizard

1. Select the **Easy Wireless Settings Wizard** button to have the machine find the WPS Settings automatically. The SSID screen appears with a list of available wireless networks.
2. Select the required **Network Name SSID** and click **Next**.
3. If encryption is required,
 - a. Enter the **WPA Shared Key**.
 - b. Enter the **Confirm Network Key** and click **Next**.
4. The **Wireless Setup Confirmation** screen appears. Click **Apply**.

Configure Advanced Wireless Settings

1. Select the **Advanced Settings Custom** button. The **Advanced Wireless Setup** screen appears.
2. To enable **Wireless Radio**, select **On** from the Wireless Radio menu.
3. Select the required option for **SSID**:
 - Select **Search List** and select the required network from the drop-down menu. Click the **Refresh** button to update the list of networks available.
 - Select **Insert New SSID** to enter a wireless network name.
4. Select the required **Operation Mode**:
 - Select **Ad Hoc** to communicate on the wireless network without a wireless access point. Select the required channel from the **Ad-Hoc Channel** menu.
 - Select **Infrastructure** to connect to a wireless access point.
5. In the **Security Setup** area:
 - a. Select the required method of **Authentication**.
 - b. Select the required method of **Encryption**.
6. Depending on your selections you may be required to enter some or all of the following information for the **Network Key Setup**.
 - a. Select the required option for **Using Key**.
 - b. The **Hexadecimal** option may be enabled. Click the **Hexadecimal** checkbox to deselect if required.
 - c. Enter the required **Network Key** and **Confirm Network Key**.
7. Select **Apply** to save the changes.

Setting the Ethernet Speed Using Internet Services

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.

3. Select **Properties**.
4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**. Click **Properties**.
5. In the **Network Settings** link select the **General** link.
6. Select one of the following speeds from the **Ethernet Speed** drop-down menu:
 - **Automatic**
 - **10 Mbps (Half Duplex)**
 - **10 Mbps (Full Duplex)**
 - **100 Mbps (Half Duplex)**
 - **100 Mbps (Full Duplex)**
 - **1 Gbps (Full Duplex)**
7. Select on **Apply** to save the changes.

The change to the Ethernet Speed rate will take effect after the System Reboot screen appears.
8. When the **Acknowledgement** screen displays, select **OK**.
9. Reboot the machine.

Network Installation

3

This chapter covers the following topics:

- [TCP/IP](#) on page 24
- [Unix](#) on page 29

TCP/IP

These instructions show you how to configure the following:

- **TCP/IP v4 and v6**
- **Domain Name**
- **DNS**
- **Zero Configuration Networking**

The machine supports TCP/IP versions 4 and 6. IPv6 can be used instead of or in addition to IPv4.

IPv4 and IPv6 settings can be configured directly at the machine, or remotely, via a web browser using *Internet Services*. To configure TCP/IP settings using *Internet Services*, refer to [Configure TCP/IP Settings using Internet Services](#) on page 26.

Configure Static IPv4 Addressing at the Machine

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- Existing operational network utilizing the TCP/IP protocol.
- Ensure that the machine is connected to the network.
- Static IP Address for the machine.
- Subnet Mask Address for the machine.
- Gateway Address for the machine.
- Host Name for the machine.

Procedure

Enter a Static IP Address:

1. Press the **Menu** button on the *control panel*.
2. Press the arrow buttons to scroll to **Network Setup**; press **OK**.
3. Enter the *Administrator Password* using the arrow buttons. The default is **1111**. Refer to [Entering a password](#): on page 14.
4. Press the **OK** button.
5. Press the arrow buttons to select **TCP/IP (IPv4)**; press **OK**.
6. Press the arrow buttons to select **Static**; press **OK**.
7. Press the arrow buttons to select **IP Address**; press **OK**.
8. Enter the **IP Address** using the arrow buttons and press **OK**.
9. Enter details for **Subnet Mask** using the arrow buttons; press **OK**.
10. Enter details for **Gateway** using the arrow buttons; press **OK**.
11. The **Saved** screen will display and return to the **TCP/IP (IPv4)** menu.

DNS Configuration:

12. From the **TCP/IP (IPv4)** menu, press the arrow buttons to select **Static**; press **OK**.
13. Press the arrow buttons to highlight **Primary DNS**; press **OK**.
14. Enter details for **Primary DNS** using the arrow buttons and press **OK**. The **Saved** screen will display and return to the **Static** menu.
15. Press the arrow buttons to highlight **Secondary DNS**; press **OK**.
16. Enter details for **Secondary DNS** using the arrow buttons and press **OK**. The **Saved** screen will display and return to the **Static** menu.

Configure Dynamic IPv4 Addressing at the Machine

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- Existing operational network utilizing the TCP/IP protocol.
- DHCP or BOOTP Server should be available on the network.
- Ensure that the machine is connected to the network.

Procedure

Installation via DHCP (Dynamic Host Configuration Protocol)

DHCP is enabled on the machine by default. If the machine is connected to the network, the TCP/IP information will be configured when the machine is powered on and no further configuration is required.

1. **Print a Configuration Report** to verify that the information was assigned correctly. Refer to [Print a Configuration Report](#) on page 16.

Installation via BOOTP or DHCP

Ensure your machine is connected to the network with Ethernet cabling.

1. Press the **Menu** button on the *control panel*.
2. Use the arrow buttons to scroll to **Network Setup**; press **OK**.
3. Enter the *Administrator Password* using the arrow buttons. The default is **1111**. Refer to [Entering a password](#): on page 14.
4. Press the **OK** button.
5. Press the arrow buttons to scroll to **TCP/IP (IPv4)**; press **OK**.
6. Press the arrow buttons to select **DHCP**; press **OK**.
7. The **Saved** screen will display and return to the **Network Setup** menu.

Configure TCP/IP Settings using Internet Services

IPv4

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Network Settings** link select **TCP/IPv4** from the directory tree. The **TCP/IPv4** page displays.
7. In the **Assign IPv4 Address** menu, select **Automatically** or **Manually**.
8. If **Manually** is selected, in the **TCP/IP Settings** area enter details of the machine in the following fields:
 - a. **IPv4 Address**
 - b. **Subnet Mask**
 - c. **Gateway Address**
 If **Automatically** is selected, select BOOTP or DHCP.

Notes:

- If **BOOTP** or **DHCP** mode is selected, you cannot change the **IP Address**, **Network Mask**, or **Router/Gateway Address**. Select **Auto IP** if required.
 - New settings will not be applied until the machine is rebooted. Changing the machine's **TCP/IP** setting may cause you to lose your connection to the machine.
9. In the **Domain Name** area:
 - a. Enter a domain name in the **Domain Name** field.
 - b. Enter an IP address in the **Primary DNS Server** and **Secondary DNS Server** fields.
 - c. Select the **Enabled** box to enable **Dynamic DNS Registration** if required.

Note: If your DNS Server does not support dynamic updates there is no need to select **Enabled**.
 10. In the **WINS** area select the box to enable **WINS** and enter details in the following fields:
 - a. **Primary WINS Server**
 - b. **Secondary WINS Server**
 11. Select **Apply** to save the changes.
 12. Select **OK** when the acknowledgement message displays.

IPv6

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.

6. In the **Network Settings** link select **TCP/IPv6** from the directory tree.
7. Select the **Enabled** checkbox to enable IPv6 protocol.
8. To set a manual address, select **Enable Manual Address** and enter the address and prefix in the **Address/Prefix** area. Information in the **Assigned IPv6 Addresses** box is automatically populated.
9. The machine performs auto-address DHCPv6 configuration every time it powers up. This is used for neighbor discovery and address resolution on the local IPv6 subnet. However, you can choose to use manual configuration, automatic configuration or a combination of automatic and manual configuration.

In the **Default Dynamic Host Configuration Protocol Version 6 (DHCPv6)** area, select one of the following options:

- **Use DHCP as directed by a router** - this option is fully automatic. The DHCPv6 Address will be obtained and displayed on the screen.
 - **Always Enable DHCP** - this option is fully automatic. The DHCPv6 Address will be obtained and displayed on the screen.
 - **Never use DHCP** - when this option is selected, you must configure the Manual Address Options and DNS separately.
10. In the **Domain Name System Version 6 (DNSv6)** area:
 - a. Enter valid details in the **IPv6 Domain Name** field.
 - b. Enter an IP addresses for the **Primary DNSv6 Server Address** and **Secondary DNSv6 Server Address**.
 - c. Check the **Dynamic DNSv6 Registration** checkbox to enable this option.

Note: If your DNS Server does not support dynamic updates there is no need to enable DDNS.

11. Select **Apply** to save the changes.
12. Select **OK** when the acknowledgement message displays.

Note: Enabling or disabling the TCP/IPv6 protocol will take effect after the system is rebooted. Enabling or disabling TCP/IPv6 will impact other protocols, for example LPR/LPD, SNMP, Raw TCP/IP Printing and DHCPv6 over TCP/IPv6.

Test Access

1. At your workstation, open the Web browser and enter the TCP/IP Address of the machine in the Address bar. Press **Enter**.

If you use the domain name to specify the machine, use the following format.

http://myhost.example.com

If you use the IP address to specify the machine, use one of the following formats depending on your machine configuration. An IPv6 address needs to be enclosed in square brackets.

IPv4: http://xxx.xxx.xxx.xxx

IPv6: http://[xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx]

Note: If you have changed the port number from the default port number “80”, append the number to the Internet address as follows. In the following examples, the port number is 8080.

Domain name: *http://myhost.example.com:8080*

IPv4: *http://xxx.xxx.xxx.xxx:8080*

IPv6: *http://[xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx]:8080*

2. Verify that the home page of Internet Services is displayed.

The Internet Services installation process is now completed.

Note: When your access to *Internet Services* is encrypted, enter “https://” followed by the Internet address, instead of “http://”.

Unix

HP-UX Client (Version 10.x)

HP-UX workstations require specific installation steps to communicate with the machine. The machine is a BSD-style UNIX printer, whereas HP-UX is a System V-style UNIX.

IMPORTANT: All UNIX commands are case sensitive, so enter the commands exactly as they are written.

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- Existing operational network utilizing the TCP/IP protocol.
- Ensure that the machine is connected to the network.
- Static IP Address for the machine.
- Subnet Mask Address for the machine.
- Gateway Address for the machine.
- Host Name for the machine.

Procedure

1. Follow the steps in [Configure Static IPv4 Addressing at the Machine](#) on page 24, then return to this page.

Configure the Client

1. Add the machine *Host Name* to the **etc/hosts** file on the HP-UX workstation.
2. Ensure that you can ping the machine from the HP-UX workstation.
3. Use either the **GUI** method or the **tty** methods as detailed below:

GUI Method

1. Open a **Command** window from the desktop.
2. Enter **su** to access **Super User** mode.
3. Enter **sam** to start the **System Administrator Manager (SAM)**.
4. Select the **Printers and Plotters** icon.
5. Select **lp** spooler.
6. Select **Printers and Plotters**.
7. Select **Actions: Add Remote Printer/Plotter...**
8. Enter the following information into the **Add Remote Printer/Plotter** form:
 - a. Printer Name: ***printer name***.
Where ***printer name*** is the name of the queue being created.

- b. Remote System Name: **hostname**.
Where **hostname** is the machine hostname from the **/etc/hosts** file.
- c. Select **Remote Printer is on a BSD System**.
- d. Select **OK** to complete the form.
9. Select **Yes** at the **Configure HP UX Printers Subpanel** screen. This screen may be obscured by the **Add Remote Printer/Plotter** form.
10. Select **File: Exit**.
11. Select **File: Exit Sam**.
12. Enter **Exit** to exit **Super User** mode.
13. Test the queue created, by entering the command:
lp -d queue_name /etc/hosts.
14. Verify that the job prints at the machine.

tty Method

1. Enter **su** to access **Super User** mode.
2. Enter **sh** to run the **Bourne shell**.
3. Enter **lpshut** to stop the print service.
4. Create the print queue by typing (on the same command line):
lpadmin -pqueue_name> -v/dev/null -mrmmodel -ocmrcmodel -osrmsmodel -ob3 -orc -ormhostname -orlp

Where **queue_name** is the name of the queue being created and **hostname** is the machine hostname.

5. Enter **lpsched** to start the print service.
6. Enter **enable queue_name** to enable the queue to print to the machine.
7. Enter **accept queue_name** to the queue accepting jobs from the HP-UX workstation.
8. Enter **Exit** to exit the **Bourne shell**.
9. Enter **Exit** to exit **Super User** mode.
10. Test the queue created, by entering the command:
lp -d queue_name /etc/hosts.
11. Verify that the job prints at the machine.

Solaris 2.x

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- Existing operational network utilizing the TCP/IP protocol.
- Ensure that the machine is connected to the network.
- Static IP Address for the machine.
- Subnet Mask Address for the machine.

- Gateway Address for the machine.
- Host Name for the machine.

Procedure

Follow the steps in [Configure Static IPv4 Addressing at the Machine](#) on page 24 then return to this page.

Configure the Client

1. Add the machine printer *Host Name* to the **etc/hosts** file.
2. Ensure that you can ping the machine.
3. Use either the **GUI method** or the **tty method** as detailed below:

GUI Method

1. Open a **Command** window from the desktop.
2. Enter **su** to access **Super User** mode.
3. Enter **admintool** to run the **System Administrator Tool**.
4. Select **Browse:Printers**.
5. Select **Edit:Add:Access to Printer...**
6. Enter the following information into the **Access to Remote Printer** form:
 - a. Printer Name: **queuename**.
Where **queuename** is the name of the queue being created.
 - b. Print Server: **hostname**.
Where **hostname** is the machine hostname from the **/etc/hosts** file.
 - c. Select **OK** to complete the form.
7. Enter **sh** to run the **Bourne shell**.
8. Enter the command: **lpadmin -p queuename -s hostname !lp** to modify the remote queuename.
9. Enter **Exit** to exit the **Bourne shell**.
10. Enter **Exit** to exit **Super User mode**.
11. Test the queue created, by entering the command:
lp -d queuename /etc/hosts.
12. Verify that the job prints at the machine.

tty Method

1. Enter **su** to access **Super User** mode.
2. Enter **sh** to run the **Bourne shell**.
3. Define the machine as a *BSD style* printer, by entering the command:
lpssystem -t bsd hostname
Where **hostname** is the machine hostname from the **/etc/hosts** file.
4. Create the queue, by entering the command:
lpadmin -p queuename -s hostname -T unknown -I any
where **queuename** is the name of the queue being created.
5. Enter **Exit** to exit the **Bourne shell**.

6. Enter **Exit** to exit **Super User** mode.
7. Test the queue created, by entering the command:
lp -d *queuename* /etc/hosts.
8. Verify that the job prints at the machine.

SCO

SCO UNIX workstations require specific installation steps to communicate with the machine. The machines are BSD-style UNIX printers, whereas SCO is a System V-style UNIX.

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- Existing operational network utilizing the TCP/IP protocol.
- Ensure that the machine is connected to the network.
- Static IP Address for the machine.
- Subnet Mask Address for the machine.
- Gateway Address for the machine.
- Host Name for the machine.

Procedure

Follow the steps in [Configure Static IPv4 Addressing at the Machine](#) on page 24, then return to this page.

Configure the Client

1. Add the machine printer *Host name* to the **etc/hosts** file on the SCO workstation.
2. Ensure that you can ping the machine from the SCO workstation.
Perform the following steps to create a machine print queue on a SCO UNIX workstation using either the GUI or the TTY method.

GUI Method

1. Log in as root.
2. From the main desktop, select the icons **System Administration: Printers: Printer Manager**.
3. Select **Printer: Add Remote: UNIX...**
4. Enter the following information into the **Add Remote UNIX Printer** form:
 - a. Host: ***hostname***.
Where ***hostname*** is the machine Host Name from the **/etc/hosts** file.
 - b. Printer: ***name of the queue being created***.
For example: dc xxxq.
 - c. Select **OK** to complete the form.
5. Select **OK** in the **Message** window.
6. Select **Host:Exit**.

7. Select **File: Close this directory**.
8. Select **File: Close this directory**.
9. Select **Save** in the **Warning Confirmation** window.
10. Enter **Exit** to log out of root account.
11. Open Unix Window.

tty Method

1. Enter **su** to access **Super User** mode.
2. Enter **rlpconf** to create a printer.
3. Enter the following information:
 - a. Printer Name: **queuename**
 - b. Remote Printer: **r**
 - c. Hostname: **hostname**
 - d. If the information has been entered correctly, enter **y**
4. Select **Enter** to accept the default for a non-SCO remote printer.
5. Select **Enter** to accept the default for non-default printer.
6. Select **Enter** to start the process for adding a queue.
7. Enter **q** to quit the **rlconf** program.

Linux CUPS

Static Addressing

Information Checklist

Before starting please ensure that the following item is available and/or the task has been performed:

- Linux operating system that supports printtool.

Procedure

Follow the steps in [Configure Static IPv4 Addressing at the Machine](#) on page 24, then return to this page.

Create the Print Queue

1. Ensure that the *Common UNIX Printing System (CUPS)* is installed and started on your client.
The latest version of CUPS is available at cups.org.
2. Open the web browser from your workstation.
3. For example, enter **http://127.0.0.1:631/printers** in the Address Bar.
4. Press **Enter**.
5. Select **Add Printer**.
6. The **Authorization** dialog box will appear.
7. Enter the **root** and the **root password**.

8. In the **Add New Printer** screen enter a name for the printer.
9. Enter a location and description for the printer (optional).
10. Select **Continue**.
11. In the **Machine** menu, select **Internet Printing Protocol**.
12. Select **Continue**.
13. Enter `ipp://hostname/ipp/printername`.
Where *hostname* is the hostname of the Xerox machine and *printername* is the printer name of the Xerox machine.
14. Select **Continue**.
15. Select **Xerox** in the **Make** menu.
16. Select **Continue**.
17. Select the correct driver in the **Driver** menu.
18. Select **Continue**.
19. The **Printer Added Successfully** message will appear.

Dynamic Addressing

Procedure

Follow the steps in [Configure Dynamic IPv4 Addressing at the Machine](#) on page 25, then return to this page.

IMPORTANT: Highlight **BOOTP** in step 6.

Create the Print Queue

Follow the steps to [Create the Print Queue](#) on page 33.

Linux LPR via PrintTool

Static Addressing

Information Checklist

Before starting please ensure that the following item is available and/or the task has been performed:

- Linux operating system that supports PrintTool.

Procedure

1. Follow the steps in [Configure Static IPv4 Addressing at the Machine](#) on page 24, then return to this page.

Create the Print Queue

2. Log in, at the Linux Client, as **root** in a terminal.
3. Enter **printtool**.

4. The **Red Hat Linux Print System Manager** will launch.
5. Select **Add**.
6. The **Add a Printer Entry** window will appear.
7. Select **Remote Unix (lpd) Queue**.
8. Select **OK**.
9. The **Edit Remote Unix (lpd) Queue Entry** window will appear.
10. Enter the name of your **Print Queue** in the **Names** area.
11. The **Spool directory** is the directory where print jobs are stored and is a subdirectory of **/var/spool/lpd**. Add the name of the print queue to the end of the subdirectory path.
12. Ensure that the **File Limit** reads **0**.
13. In the **Remote Host** area, enter the *IP Address* of the Xerox machine.
14. In the **Remote Queue** area, enter the **Print Queue Name** from step 9.
15. **DO NOT** select the **Input Filter** option.
16. Leave the default **Suppress Headers** selected.
17. Select **OK**.
18. The printer should now be listed in the **Red Hat Linux Print System Manager** window. Select the **lpd** menu.
19. Select **Restart lpd**.
20. Select the **PrintTool** menu.
21. Select **Exit** to close the program.
22. To allow access to the printer, edit the **/etc/hosts** table to list the client system.
23. Edit and create the **/etc/hosts.lpd** file to list the client system.

Dynamic Addressing

Procedure

Follow the steps in [Configure Dynamic IPv4 Addressing at the Machine](#) on page 25, then return to this page.

IMPORTANT: Highlight **BOOTP** in step 6.

Create the Print Queue

Follow the steps to [Create the Print Queue](#) on page 33.

Linux LPRng

Static Addressing

Information Checklist

Before starting please ensure that the following item is available and/or the task has been performed:

Unix

- Linux operating system that supports PrintTool.

Procedure

Follow the steps in [Configure Static IPv4 Addressing at the Machine](#) on page 24, then return to this page.

Create the Print Queue

1. Open the **LPRngTool** from the Linux Client.
2. Select **Add**.
3. In the **Names** area, enter a name for your print queue.
4. The *spool directory* is the directory where print jobs are stored and is a subdirectory of **/var/spool/lpd**. Add the name of the print queue to the end of the subdirectory path.
5. In the **Hostname/IP of Printer** area, enter the **hostname** or **IP Address** of the Xerox machine.
6. Select **OK**.
7. Select **Exit** to close the program.
8. To allow access to the printer, edit the **/etc/hosts** table to list the client system.
9. Edit and create the **/etc/hosts.lpd** file to list the client system.

Dynamic Addressing

Procedure

Follow the steps in [Configure Dynamic IPv4 Addressing at the Machine](#) on page 25, then return to this page.

IMPORTANT: Highlight **BOOTP** in step 6.

- Follow the steps to [Create the Print Queue](#) on page 33.

Printer Drivers

4

This chapter explains how to install the printer drivers on your computer and covers the following topics:

- [Overview](#) on page 38
- [Windows - Installing Driver](#) on page 39
- [Macintosh - Installing Driver](#) on page 41
- [Linux - Installing Drivers](#) on page 43
- [Unix - Installing Drivers](#) on page 45
- [Sharing your Machine Locally](#) on page 47
- [Windows Printing](#) on page 49
- [Configure the Windows Printer Driver](#) on page 56
- [Apple Mac](#) on page 58

Overview

The *Software and Documentation CD* is supplied with your machine. The machine supports the following operating systems:

- **Windows**
 - Windows 2000
 - Windows XP
 - Windows Server 2003
 - Windows Vista
 - Windows Server 2008
 - Windows 7
 - Windows 2008 Server R2
- **Macintosh**
 - Mac OS X 10.3 ~ 10.4
 - Mac OS X 10.5
 - Mac OS X 10.6
 - Mac OS X 10.7
- **Linux**
- **Unix**

Windows - Installing Driver

You can install the printer software using the *typical* or the *custom* method.

The steps below are recommended for most users who use a machine that is directly connected to a workstation. All components necessary for machine operation will be installed.

Information Checklist

Before starting, please ensure that the following items are available and/or the tasks have been performed:

- Make sure that the machine is connected to your computer and powered on.
- If the **New Hardware Wizard** window appears during the installation procedure, select in the upper right corner of the box to close the window, or select **Cancel**.

Procedure

1. Insert the supplied *Software and Documentation CD* into your CD-ROM drive. The *Software and Documentation CD* runs automatically and the installation window displays.
 - a. If the installation window does not appear:
 - Select **Start** and then **Run**.
 - Type **X:\Setup.exe**, replacing “X” with the letter which represents your drive. Select **OK**.
 - If you use **Windows Vista**, **Windows 7** or **Windows 2008 Server R2** select **Start > All programs > Accessories > Run**. Type **X:\Setup.exe** replacing “X” with the letter which represents your drive and select **OK**.
 - b. If the **AutoPlay** window appears in **Windows Vista**, **Windows 7** or **Windows 2008 Server R2**, select **Run Setup.exe** in the **Install or run program** field.
 - c. In the **User Account Control** window, select **Continue** or **Yes**.
2. If necessary, from the **Select a language from the list below** drop-down menu, select a preferred language and select **Next**.
3. In the **Select Installation Type** window, select **Typical installation for a network printer** and select **Next**. The program will search the network for your machine.

Note If your machine is not already connected to the computer, the **Connect Device** window will appear.

- Select the **Printer Port** for your machine.
 - Select your machine in the **Printer Name** list and click **Next**.
 - The program will install the printer driver files. The **Setup Completed** message displays with the **I'd like to print a test page** checkbox. If you choose to print a test page, select the checkbox.
 - Select **Finish**.
4. Verify the test page prints at your machine.

If the Printer Driver does not Work

If the printer driver does not work properly, uninstall the driver and reinstall it.

For windows follow the steps below to uninstall the driver.

1. Make sure that the machine is connected to your computer and powered on.
2. From the **Start** menu, select **Programs** or **All Programs > Xerox Printers > your printer driver name > Maintenance**.
3. Select **Remove** and select **Next**.
You will see a component list so that you can remove any item individually.
4. Select the components you want to remove and then select **Next**.
5. When your computer asks you to confirm your selection, select **Yes**.
The selected driver and all of its components are removed from your computer.
6. After the software is removed, select **Finish**.

If you want to reinstall the driver over the currently installed driver via the provided *Software and Documentation CD*, insert the CD; the window with an **overwriting confirmation** message appears. Simply confirm it to proceed to the next step. Next steps are the same as the first installation you have made.

Wireless Setup (Phaser 3320DNI)

Note The machine will not connect to the wireless network while the network cable is attached.

1. Ensure your printer is powered on.
2. Insert the supplied *Software and Documentation CD* into your CD-ROM drive.
The CD should run automatically and the installation window appear.
 - If the installation window does not appear, select the **Start** button and then **Run**. Type **X:\Setup.exe**, replacing "X" with the letter which represents your drive and select **OK**.
 - If you use *Windows Vista*, select **Start > All programs > Accessories > Run**, and type **X:\Setup.exe**. If the *AutoPlay* window appears in *Windows Vista*, select **Run Setup.exe** in the **Install or run program** field, and select **Continue** in the **User Account Control** window.
3. Select **Install Software**.
4. Select **Wireless Setup** and follow the wizard instruction to select and install the printer.
If your printer is not already connected to the computer, the *Connect Device* screen will appear. After connecting the printer, select **Next** and follow the wizard instruction to install the printer.
5. After the installation is finished, select **Finish**. If your printer is connected to the network, a *Test Print* page will be printed.

Macintosh - Installing Driver

The *Software and Documentation CD* that came with your machine provides you with the Driver files that allows you to use the *CUPS driver* or *PostScript driver* (only available when you use a machine which supports the *PostScript driver*) for printing on a Macintosh computer.

Information Checklist

Before starting please ensure that the following item is available and/or the task has been performed:

- Make sure that the machine is connected to your computer and powered on.

Procedure

1. Insert the supplied *Software and Documentation CD* into your CD-ROM drive.
2. Select the **CD-ROM icon** that appears on your Macintosh desktop.
3. Select the **MAC_Installer** folder.
4. Select the **Installer** icon.
5. Enter the password and select **OK**.
6. The **Xerox Installer** window opens. Select **Continue**.
7. Select **Easy Install** and select **Install**.
Easy Install is recommended for most users. All components necessary for machine operations will be installed.
 If you select **Custom Install**, you can choose individual components to install.
8. When the message which warns that all applications will close on your computer appears, select **Continue**.
9. After the installation is finished, select **Quit**.
10. Open the **Applications** folder > **Utilities** > **Print Setup Utility**.
 - For **Mac OS X 10.5~10.6**, open the **Applications** folder > **System Preferences** and select **Print & Fax**.
11. Select **Add** on the **Printer List**.
 - For **Mac OS X 10.5~10.6**, press the “+” icon; a display window will pop up.
12. For **Mac OS X 10.3**, select the **USB** tab.
 - For **Mac OS X 10.4**, select **Default Browser** and find the USB connection.
 - For **Mac OS X 10.5~10.6**, select **Default** and find the USB connection.
13. For **Mac OS X 10.3**, if **Auto Select** does not work properly, select **Xerox** in **Printer Model** and your machine name in **Model Name**.
 - For **Mac OS X 10.4**, if **Auto Select** does not work properly, select **Xerox** in **Print Using** and your machine name in **Model**.
 - For **Mac OS X 10.5~10.6**, if **Auto Select** does not work properly, select **Select a driver to use...** and your machine name in **Print Using**.

Your machine appears and is set as the default machine.
14. Select **Add**.

If the printer driver does not work properly uninstall the driver and reinstall it. Follow the steps below to uninstall the driver for Macintosh.

1. Make sure that the machine is connected to your computer and powered on.
2. Insert the supplied *Software and Documentation CD* into your CD-ROM drive.
3. Select the **CD-ROM** icon that appears on your Macintosh desktop.
4. Select the **MAC_Installer** folder.
5. Select the **Installer** icon.
6. Enter the *password* and select **OK**.
7. The **Xerox Installer** window opens. Select **Continue**.
8. Select **Uninstall** and click **Uninstall**.
9. When the message which warns that all applications will close on your computer appears, select **Continue**.
10. When the uninstall is done, select **Quit**.

Linux - Installing Drivers

You need to download the Linux software package from the Xerox website to install the printer software.

Procedure for Installing the Linux Unified Driver

1. Make sure that the machine is connected to your computer and powered on.
You must log in as a *super user* (root) to install the machine software. If you are not a *super user*, ask your system administrator.
2. When the **Administrator Login** window appears, type in **root** in the **Login** field and enter the *system password*.
3. From the Xerox website, download the **Unified Linux Driver** package to your computer.
4. Select the **Unified Linux Driver** package and extract the package.
5. Select **cdroot > autorun**.
6. When the **Welcome** screen appears, select **Next**.
7. When the installation is complete, select **Finish**.

The installation program has added the *Unified Driver Configuration* desktop icon and the *Unified Driver* group to the system menu for your convenience. If you have any difficulties, consult the on-screen help that is available through your system menu or called from the driver package Windows applications, such as **Unified Driver Configurator**.

Installing the SmartPanel

1. Make sure that the machine is connected to your computer and powered on.
2. When the **Administrator Login** window appears, type in **root** in the **Login** field and enter the *system password*.
Note You must log in as a *super user* (root) to install the machine software. If you are not a *super user*, ask your system administrator.
3. From the Xerox website, download the **Smart Panel** package to your computer.
4. Select the **Smart Panel** package and extract the package.
5. Select **cdroot > Linux > smartpanel > install.sh**.

Installing the Printer Setting Utility

1. Make sure that the machine is connected to your computer and powered on.
2. When the **Administrator Login** window appears, type in **root** in the **Login** field and enter the *system password*.
Note You must log in as a *super user* (root) to install the machine software. If you are not a *super user*, ask your system administrator.
3. From the Xerox website, download the **Printer Setting Utility** package to your computer.

4. Select the **Printer Setting Utility** package and extract the package.
5. Select **cdroot > Linux > psu > install.sh**.

If the Printer Driver does not Work Properly uninstall the driver and reinstall it. Follow the steps below to uninstall the driver for Linux.

1. Make sure that the machine is connected to your computer and powered on.
2. When the **Administrator Login** window appears, type in **root** in the **Login** field and enter the *system password*.
You must log in as a *super user* (root) to uninstall the printer driver. If you are not a *super user*, ask your system administrator.
3. Select the icon at the bottom of the desktop. When the **Terminal** screen appears, type in:
**root@localhost root#cd /opt/Xerox/mfp/uninstall/
root@localhost uninstall#./uninstall.sh**
4. Select **Uninstall**.
5. Select **Next**.
6. Select **Finish**.

Unix - Installing Drivers

Unix printer drivers are located on the *Software and Documentation CD* delivered with your machine. To use the Unix printer driver, you need to install the Unix printer driver package first, then set up the printer. The installation procedure is common for all variants of Unix OS mentioned.

Procedure for Installing the Unix Driver Package

1. Make sure that the machine is connected to your computer and powered on.
2. Acquire root privileges.
su -
3. Copy the appropriate driver archive to the target Unix computer.
4. Unpack the Unix printer driver package name.
For example, on IBM AIX, use the following command:
gzip -d < "package archive name" | tar xf -
The "**binaries**" folder consists of **binz**, **install**, **share** files and folders.
5. Change to the driver's "**binaries**" directory.
For example, on IBM AIX,
cd aix_power/binaries
6. Run the install script.
./install
Install is the installer script file which is used to install or uninstall the Unix Printer Driver package. Use "**chmod 755 install**" command to give the permission to the installer script.
7. Execute the "**./install-c**" command to verify installation results.
8. Run "**installprinter**" from the command line. This will bring up the Add Printer Wizard window. Follow the procedures in [Setting up the printer](#) on page 45 to setup the printer.

Note On some Unix OS, for example on Solaris 10, printers recently installed may not be enabled and/or may not accept jobs. In this case run the following two commands on the root terminal:

```
accept <printer_name>
enable <printer_name>
```

Setting up the printer

To add the printer to your Unix system, run "installprinter" from the command line. This will bring up the Add Printer Wizard window. Setup the printer in this window according to the following steps.

1. Type the name of the printer.
2. Select the appropriate printer model from the model list.
3. Enter any description corresponding to the type of printer in the **Type** field. This is optional.
4. Specify any printer description in the **Description** field. This is optional.
5. Specify the printer location in the **Location** field.

6. Type the IP address or DNS name of the printer in the **Device** textbox for network connected printers. On IBM AIX with **jetdirect Queue type**, only the DNS name is possible. It is not possible to enter a numeric IP address.
7. Queue type shows the connection as **lpd** or **jetdirect** in the corresponding list box. Additionally **usb** type is available on Sun Solaris OS.
8. Select **Copies** to set the number of copies.
9. Check the **Collate** option to receive copies already sorted.
10. Check the **Reverse Order** option to receive copies in the reverse order.
11. Check the **Make Default** option to set this printer as default.
12. Click **OK** to add the printer.

Uninstalling the printer driver package

Note The utility should be used if you need to delete a printer installed on the system.

1. Run the “**uninstallprinter**” command from the terminal. It will open the Uninstall Printer Wizard. The installed printers are listed in the drop-down list.
2. Select the printer to be deleted.
3. Click **Delete** to delete the printer from the system.
4. Execute the “**./install-d**” command to uninstall the whole package.
5. To verify removal results, execute the “**./install-c**” command.
6. To re-install it, use the command “**./install**” to reinstall the binaries.

Sharing your Machine Locally

If a Host computer is directly connected to the machine with a USB cable and is also connected to the local network environment, the client computer connected to the local network can use the shared machine through the host computer to print.

Follow the steps below to set up the computers to share your machine locally.

Windows

Host Computer Setup

1. Install your printer driver. Refer to [Windows - Installing Driver](#) on page 39.
2. From the Windows **Start** menu:
 - For **Windows 2000**, select **Settings > Printers**.
 - For **Windows XP/2003**, select **Printers and Faxes**.
 - For **Windows 2008/Vista**, select **Control Panel > Hardware and Sound > Printers**.
 - For **Windows 7**, select **Devices and Printers**.
 - For **Windows Server 2008 R2**, select **Control Panel > Hardware > Devices and Printers**.
3. Select your printer icon.
 - For **Windows XP/2003/2008/Vista/7**, select **Printer Properties**.
 - For **Windows Server 2008 R2**, from the **Context** menus, select the **Printer properties**.

Note If the **Printer properties** item has ?, you can select other printer drivers connected with the selected printer.
4. Select the **Sharing** tab.
5. Check the **Change Sharing Options** checkbox.
6. Check the **Share this printer** checkbox.
7. Enter details in the **Share Name** field.
8. Select **OK** or **Next**.

Client Computer Setup

1. Install your printer driver. Refer to [Windows - Installing Driver](#) on page 39.
2. From the Windows **Start** menu select **All programs > Accessories > Windows Explorer**.
3. Enter the **http:// IP address** of the host computer and press **Enter**.
4. If the host computer requires a *User name* and *Password*, enter details in the **User ID** and **password** field of the host computer account.
5. Select the printer icon you want to share and select **Connect**.
If a *set up complete* message appears, select **OK**.
6. Open the file you want to print and start printing.

Macintosh

The following steps are for Mac OS X 10.5~10.6. Refer to Mac Help for other OS versions.

Host Computer Setup

1. Install your printer driver. Refer to [Macintosh - Installing Driver](#) on page 41.
2. Open the **Applications** folder > **System Preferences** and select **Print & Fax**.
3. Select the printer to share in the **Printers list**.
4. Select **“Share this printer”**.

Client Computer Setup

1. Install your printer driver. Refer to [Macintosh - Installing Driver](#) on page 41.
2. Open the **Applications** folder, select **System Preferences** and select **Print & Fax**.
3. Press the **“+”** icon.
A display window showing the name of your shared printer appears.
4. Select your machine and select **Add**.

Windows Printing

LPR Printing

Ensure Print Services for Unix is enabled

Follow the relevant steps below that are specific to your operating system:

Windows XP

1. From your workstation, load the *Software and Documentation CD* into your CD drive. If the CD autoruns, select **Exit**.
2. Verify that *Print Services for Unix* is loaded.
3. Select **Start**.
4. Select **Control Panel**.
5. Select **Add or Remove Programs**.
6. Select **Add/Remove Windows Components** in the left hand column.
7. Scroll down to **Other Network File and Print Services** and check on the checkbox to select it.
8. Select **Details**.
9. If it is not selected, check on the **Print Services for Unix** checkbox.
10. Select the **OK** button.
11. Select the **Next** button.
If *Print Services for Unix* is not installed, refer to instructions from Microsoft to install this service. When you are finished, return to this page.
12. Select the **Finish** button.

Windows 2000/2003

1. From the desktop, select the **My Network Places** icon and select **Properties**.
2. Select the **Local Area Connection** icon and select **Properties**.
3. Verify that the **Internet Protocol (TCP/IP)** protocol has been loaded. If this software is not present, install it using the documentation provided by Microsoft. When you are finished, return to this page.
4. Verify that **Print Services for Unix** is loaded:
 - a. Select **Start, Settings** then **Control Panel**.
 - b. Select the **Add/Remove Programs** icon.
 - c. Select **Add/Remove Win Components** in the far left column.
 - d. Select **Other Network File and Print Services**.
 - e. Select **Details**.
 - f. Check the **Print Services for Unix** checkbox. If *Print Services for Unix* is not installed, refer to instructions from Microsoft to install this service. When you are finished, return to this page.
5. Select the **OK** button.

6. Select the **Next** button.
7. Select the **Finish** button.
8. Close the **Add/Remove Programs** window.

Windows Vista

1. Select **Start > Control Panel > Program** and select **Programs and Features**.
2. Select **Turn Windows Features on and off**.
3. In the **Windows Features** window, expand the **Print Services** menu.
4. Check the **LPR Port Monitor** checkbox to enable the service.
5. Select the **OK** button. Your computer may need to restart.

Windows 7

1. Select **Start**, select **Control Panel**.
2. Select **Hardware and Sound**, select **Programs**.
3. Select **Programs and Features**.
4. Select **Turn Windows Features on and off** from the menu on the left.
5. A Windows Features dialog displays. Select the '+' sign for **Printer and Document Services**.
6. Check the box for **LPR Port Monitor** to enable the service.
7. Select the **OK** button. Your computer may need to restart.

Windows 2008

1. Select **Start**, select **Administrative Tools**.
2. Select **Print Management**.
3. Select the '+' sign for **Print Servers**. Select the print server to which you want to add the printer and select **Add Printer**.
4. Check the box for **LPR Port Monitor** to enable the service.
5. Select the **OK** button. Your computer may need to restart.

Install Printer Driver

1. From the Windows **Start** menu
 - For **Windows 2000/2003** - select **Settings** then **Printers**.
 - For **Windows XP** - select **Printers and Faxes**. If you cannot see this option in the **Start** menu, then select **Start**, followed by **Control Panel** first.
 - For **Windows Vista** - select **Control Panel** then **Printers**.
 - For **Windows 7** - select **Hardware and Sound** then select **Devices and Printers**.
 - For **Windows 2008** - select **Control Panel** then select **Printers**. From the **File** drop-down menu select **Run as administrator**.
2. For:
Windows XP/2000/2003:
 - a. Select **Add Printer** in the far left column.
 - b. Select the **Next** button.

Windows Vista:

- a. Select **Add Printer**.

Windows 7:

- a. Select **Add a Printer**.

Windows 2008:

- a. Select **Add Printer**.

3. For:

- **Windows 2000** - select **Local Printer**.
- **Windows XP/2003/2008** - select **Local Printer attached to this computer**.

If already selected, select **Automatically detect and install my Plug and Play printer** to deselect it.

- **Windows Vista** - select **A printer attached to my computer**.
- **Windows 7** - select **Add a Local Printer**.

4. Select the **Next** button.5. Select **Create a new port**.6. Select the following option from the **Type of Port** pull down menu:

- For **Windows 2000/2003** select **LPR**.
- For **Windows XP/Vista/7** select **LPR Port**.

7. Select the **Next** button.8. Enter the *IP Address* of the printer.

9. Enter details in:

- *Printer name* for **Windows XP/2000/2003/2008**.
- *Print Queue name* for **Windows Vista**.
- *Port name* for **Windows 7**.

10. Select the **OK** button.11. You will be prompted for a *Printer Driver*. Select **Have Disk**.12. Select the **Browse** button.13. Locate the **Drivers** folder on the CD and select the required *Printer Driver file .inf*.14. Select the **Open** button.15. Select the **OK** button.16. Select the **Printer Model** from the list.17. Select the **Next** button.18. The **Name your Printer** screen appears.

19. To configure the settings:

- a. Enter details in the **Printer Name** field.
- b. If you want to set this printer as your default printer, select **Set as default**. For Windows Vista users, go to step 25.

20. Select the **Next** button.21. The **Printer Sharing Screen** appears.

If you will be sharing this printer with other clients, then:

- a. Select:

- **Share As:** - for Windows 2000.
 - **Share Name** - for Windows XP/2003/Vista/7.
- b. Enter details in the **Share Name** field.
 22. Select the **Next** button.
 23. Enter a *Location* name and *Comment* if required.
 24. Select the **Next** button.
 25. Select **Yes** or **Print Test Page** to print a test page.
 26. Select the **Next** button to close the **Test Page** window.
 27. Select the **Finish** button. The printer driver will install.
 28. Verify that the test page is printed at the machine.

Internet Printing Protocol (IPP) Port

The Internet Printing Protocol (IPP) defines a standard protocol for printing as well as managing print jobs, media size, resolution, and so forth. IPP can be used locally or over the Internet, and also supports access control, authentication, and encryption, making it a much more capable and secure printing solution than older ones.

Note IPP Printing is enabled by default.

How to Enable the IPP Port

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Select **Properties**.
3. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
4. Click **Properties**.
5. In the **Network Settings** link select **Raw TCP/IP, LPR, IPP** in the directory tree.
6. In the **Internet Printing Protocol (IPP)** area:
 - a. For **IPP Protocol**, select the **Enable** checkbox. The **Printer URI** displays the `http://` IP address of the machine. Enter the required printer name in the **Printer Name** area.
 - b. Select the **Advanced** button. Enter the required information for **IPP Attribute**. Select the **IPP Security** tab. From **Authentication Type** drop-down menu, select one of the following types of authentication scheme to use when printing with **IPP**. These schemes are only used if the printer has both a *user name* and *password* entered for **IPP**:
 - **None**
 - **Basic** - this scheme requires the printer to authenticate the person sending the print job. The printer only services the request if the name and password provided by the user match the values stored in the printer.
 - **Digest** - this scheme requires the printer to authenticate the person sending the print job using a single checksum password scheme. The printer only services the request if the name and password provided by the user match the values stored in the printer.
 - c. If you have selected **Basic** or **Digest**, select the **Add** button. Enter the user name for the printer in the **User Name** field.
 - d. Enter the password in the **Password** and **Confirm Password** fields.

7. Select **Apply** to save the changes.

Install Printer Driver

1. Follow the steps below that are specific to your operating system:

Windows XP

From your workstation:

- a. Select **Start**.
- b. Select **Network Connections**.

Windows 2000/2003

From your workstation:

- a. Select the **My Network Places** icon.
- b. Select **Properties**.

Windows 7

From your workstation:

- a. Select **Start**, select **Control Panel**.
- b. Select **Network and Internet**.
- c. Select **Network and Sharing Centre**. *Go to step 4.*

Windows 2008

From your workstation:

- a. Select **Start**, select **Control Panel**.
- b. Select **Printers**.
- c. Select **File**, select **Run as administrator**. *Go to step 6.*

2. Select the **Local Area Connection** icon.
3. Select **Properties**.
4. Ensure that the **Internet Protocol (TCP/IP)** protocol has been loaded and ensure the checkbox is checked.
5. For:
 - **Windows 2000/2003** - select **Settings** then **Printers**.
 - **Windows XP** - select **Printers and Faxes**. If you cannot see this option in the **Start** menu, then select **Start**, followed by **Control Panel** first.
 - **Windows Vista** - select **Add a Local Printer**.
 - **Windows 7** - select **Start**, select **Control Panel**, select **Hardware and Sound**, then **Devices and Printers**.
6. Select **Add Printer** in the far left column.
For **Windows 7** select **Add a network, wireless or Bluetooth printer**.
7. The **Add Printer Wizard** window will appear.
8. In the **Local or Network Printer**, ensure that **A network printer**, or a printer attached to another computer is selected and select the **Next** button.
9. The following screen will appear:
 - **Locate Your Printer** for Windows 2000/2003.
 - **Specify a Printer** for Windows XP.

10. To create an *IPP printer*, select **Connect to a printer on the Internet...**
11. Type **HTTP://** followed by the printer's fully qualified Domain name or IP Address in the **URL** field. The *Printer Name* can be either the *Host Name* or the *SMB Host Name* as shown on the machine Configuration Report, depending on the name resolution used by your network (WINS or DNS).
12. Select the **Next** button.
13. Select the **OK** button to install the printer driver.
14. Select the **Have Disk** button and browse to the location of the printer driver and select the **OK** button.
15. Select the **Printer Model** and Select the **OK** button.
16. Select **Yes** if you wish to make this the default printer.
17. Select the **Next** button.
18. Select the **Finish** button.

Raw TCP/IP Printing (Port 9100)

Raw TCP/IP is a printing protocol that is similar to LPR printing. Also known as a direct TCP/IP connection or sockets interface, it sends information directly to the machine and does not require a Line Printer Daemon (LPD). The advantages are that connections stay open for multiple print files and spooling is not needed, therefore, printing is faster and more reliable than LPD printing. Raw TCP/IP printing is contained in Windows 2000 and other third-party applications and operating systems.

Note Raw TCP/IP Printing is enabled by default for port 9100.

Information Checklist

See the [Information Checklist](#) in [Configure Static IPv4 Addressing at the Machine](#) on page 24.

How to Configure Port 9100

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Select **Properties**.
3. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
4. Click **Properties**.
5. In the **Network Settings** link select **Raw TCP/IP, LPR, IPP** in the directory tree.
6. In the **Raw TCP/IP Printing** area:
 - a. Select **Enable**.
 - b. For **Port Number**, enter the required port number (1 - 65535).
7. Select **Apply** to save the changes or **Undo** to return the settings to their previous values.

Note The settings are not applied until you restart the machine.

Install Printer Driver

Refer to [Windows - Installing Driver](#) on page 39.

USB Printing

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- A standard USB peripheral cable.
- A workstation or laptop that supports USB connectivity.

Procedure

1. Connect the USB cable from your computer to the USB port at the back of the machine.
2. Insert the supplied *Software and Documentation CD* into your CD-ROM drive.
The *Software and Documentation CD* runs automatically and the installation window displays.
 - a. If the installation window does not appear:
 - Select **Start** and then **Run**.
 - Type **X:\Setup.exe**, replacing “X” with the letter which represents your drive. Select **OK**.
 - If you use **Windows Vista, Windows 7** or **Windows 2008 Server R2** select **Start >All programs > Accessories > Run**.
Type **X:\Setup.exe** replacing “X” with the letter which represents your drive and select **OK**.
 - b. If the **AutoPlay** window appears in **Windows Vista, Windows 7** or **Windows 2008 Server R2**, select **Run Setup.exe** in the **Install or run program** field.
 - c. In the **User Account Control** window, select **Continue** or **Yes**.
3. If necessary, from the **Select a language from the list below** drop-down menu, select a preferred language and select **Next**.
4. In the **Select Installation Type** window, select **Typical installation for a local printer** and select **Next**. The program will search the network for your machine.
 - Select your machine in the **Printer Name** list and click **Next**.
 - The program will install the printer driver files. The **Setup Completed** message displays with the **I'd like to print a test page** checkbox. If you choose to print a test page, select the checkbox.
 - Select **Finish**.
5. Verify the test page prints at your machine.

Configure the Windows Printer Driver

Manual Printer Driver Configuration

To configure the printer driver without using Bi-Directional communication:

Follow the steps below that are specific to your operating system:

1. Select the Windows **Start** menu.
2. Select one of the following for your Operating System:
3. For:
 - **Windows 2000**, select **Settings > Printers**.
 - **Windows XP/2003**, select **Printers and Faxes**.
 - **Windows 2008/Vista**, select **Control Panel > Hardware and Sound > Printers**.
 - **Windows 7**, select **Control Panel > Hardware and Sound > Devices and Printers**.
 - **Windows Server 2008 R2**, select **Control Panel > Hardware > Devices and Printers**.
 - **Windows 7 and Server 2008 R2**, from context menus, select the **Printer properties**.
4. Right click the **printer icon** and then select **Preference**.
For **Windows XP/2003/2008/Vista**, select **Preference**.
For **Windows 7**, right click the **printer icon** and then select **Printing Preferences**.
5. Select each tab and change any default printer settings as required.
6. Select **Apply**.
7. Select **OK**.

For further printing options refer to the [Phaser 3320DN/3320DNI User Guide](#).

Bi-Directional Support

Follow the steps below that are specific to your operating system:

1. Select the Windows **Start** menu.
2. Select one of the following for your Operating System:
3. For:
 - **Windows 2000/2003**, select **Settings > Printers**.
 - **Windows XP/2008**, select **Printers and Faxes**.
 - **Windows Vista**, select **Control Panel > Hardware and Sound > Printers**.
 - **Windows 7**, select **Control Panel > Hardware and Sound > Devices and Printers**.
 - **Windows Server 2008 R2**, select **Control Panel > Hardware > Devices and Printers**.
4. For **Windows XP/2003/2008/Vista**, select the printer icon and select **Properties**.
For **Windows 7** right click on the printer icon and select **Printer Properties**.
5. Select the **Ports** tab.

6. Check the **Enable bidirectional support** checkbox.

Bi-directional communication automatically updates the printer driver with the printer's installed options. The driver's *Printing Preferences* will report information about the printer's operational status, active jobs, completed jobs and paper status.

7. Select **Apply**, then **OK**.

Apple Mac

TCP/IP Printing (OSX)

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- The TCP/IP settings must be correctly configured on the machine.
- Locate the *Software and Documentation CD* delivered with your machine.

Install the Printer Driver

1. Load the *Software and Documentation CD* into your CD drive.
2. Open the CD and select the required language, if necessary.
3. Select the **Drivers** folder.
4. Select the **Mac** folder.
5. Select the folder containing the drivers for your Mac OS version.
6. Select the *machine model.dmg* file.
7. Select the *machine model.pkg* file.
8. The **Welcome to the Installer** dialog box appears.
9. Select **Continue**.
10. Select **Continue** and then **Agree** to accept the License Agreement.
11. Select the **Volume** (if necessary) where you want to install the printer. Select **Continue**.
12. Select the **Install** button.
13. Select the **Close** button.
14. Select the **Printer Setup Utility** on the Dock.
15. Select the Hard Drive icon on the Desktop.
16. Select **Applications**.
17. Select **Utilities**.
18. Select **Printer Setup Utility**.
19. To add a new printer, select:
 - **Add**.
 - or
 - **Printers** menu then **Add Printer**.
20. Select **IP Printing** from the top menu.
21. Select **Internet Protocol Printing** or **LPD/LPR Printing** from the next menu.
22. Enter the *IP Address* of the printer.
23. Enter the *Print Queue Name*. (You may leave this blank.)
24. Select **Xerox** from the **Printer Model** list.

25. Select your **Printer Model** from the list.
26. Select **Add**. The machine will appear in the **Printer List**.
27. Select the **Printer** and select **Show Info**.
28. Select **Installable Options**.
29. Select the options as installed on your machine.
If you want to use the *Save Job for Reprint* feature, then make sure that **Job Storage** is set to **Installed**.
30. Select **Apply Changes**.
31. Close the **Printer Info** box.
32. Print a document to verify that the printer is installed correctly.

Configure your Apple Mac Printer Driver

Information Checklist

Before starting please ensure that the following item is available and/or the task has been performed:

- The printer driver is installed on your Macintosh operating system.

Procedure - Changing Printer Settings

You can use advanced printing features provided by your machine.

Open an application and select **Print** from the **File** menu. The machine name, which appears in the printer properties window may differ depending on the machine in use. Except for the name, the composition of the printer properties window is similar to the following.

Note The setting options may differ depending on printers and Macintosh OS version.

Layout

The **Layout** tab provides options to adjust how the document appears on the printed page. You can print multiple pages on one sheet of paper. Select **Layout** from the **Orientation** drop-down menu to access the following features:

- **Pages per Sheet** - this option determines how many pages are printed on one page.
- **Layout Direction** - this option allows you to select the printing direction on a page similar to the examples on the display.
- **Border** - this option allows you to create a border around each page on the sheet.
- **Two-Sided** - this option allows you to print on both sides of the paper.
- **Reverse Page Orientation** - this option allows you to rotate the page 180 degrees.

Graphics

The **Graphics** tab provides options for selecting **Resolution**. Select **Graphics** from the **Orientation** drop-down menu to access the graphic features:

- **Resolution** - this option allows you to select the printing resolution. The higher the setting, the sharper the clarity of printed characters and graphics. The higher setting also may increase the time it takes to print a document.

Paper

Set **Paper Type** to correspond to the paper loaded in the tray from which you want to print. This will let you get the best quality printout. If you load a different type of print material, select the corresponding *paper type*.

Printer Features

The **Printer Features** tab provides **Reverse Duplex Printing** and **Fit to Page** options. Select **Printer Features** from the **Orientation** drop-down menu to access the following features:

- **Reverse Duplex Printing** - this option allows you to select general print order compared to duplex print order. If this option does not appear, your machine does not have this feature.
- **Fit to Page** - this option allows you to scale your print job to any selected paper size regardless of the document size. This can be useful when you want to check fine details on a small document.

Toner Save Mode

Selecting this option extends the life of your toner cartridge and reduces your cost per page without a significant reduction in print quality.

Printer Setting - select this option to allow toner settings to be determined by the setting you have made on the *control panel* of the printer.

- **On** - select this option to allow the printer to use less toner on each page.
- **Off** - if you do not need to save toner when printing a document, select this option.

Printing multiple pages on one sheet of paper

You can print more than one page on a single sheet of paper. This feature provides a cost-effective way to print draft pages.

- Select **Layout** from the **Orientation** drop-down menu. In the **Pages per Sheet** drop-down menu, select the number of pages you want to print on one sheet of paper.

Printing on both sides of paper

You can print on both sides of the paper. Before printing in the duplex mode, decide on which edge you will be binding your finished document. The binding options are, as follows:

- **Long-Edge Binding** - this option is the conventional layout used in book binding.
- **Short-Edge Binding** - this option is the type often used with calendars.
- Select **Layout** from the **Orientation** drop-down menu. Select a binding orientation from **Two Sided Printing** option.

This chapter describes how to configure the Security features for the machine.

The following topics are mentioned in this chapter:

- [Security Settings](#) on page 62
- [Machine Digital Certificate Management](#) on page 64
- [SNMP](#) on page 69
- [SNMPv3](#) on page 71
- [IP Sec](#) on page 72
- [IP Filtering](#) on page 73
- [802.1X Authentication](#) on page 75
- [Display Network Settings](#) on page 77

Security @ Xerox

For the latest information on securely installing, setting up and operating your machine see the Xerox Security Information web site located at www.xerox.com/security.

Security Settings

To prevent unauthorized changes to printer settings, ensure a *login ID* and *password* is entered in the **System Administrator** area.

Administrator Accounts

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **System Security** link.
7. Select **System Administrator**.
8. If required, enter **Administrator** details for:
 - **Name**
 - **Phone Number**
 - **Location**
 - **E-mail Address**
9. The **WebUI Access Control** checkbox controls access to the **Internet Services** screen.
10. To change the *Administrator Password*, select the **Change Password** box and enter the required **Login ID** and **password**. The default is **admin** and **1111** respectively.
11. Select the **Advanced** button for **Advanced Access Control**.
12. Select **Protect Login IPv4 Address** if required, and enter the required login IP address that you want to protect in the IPv4 Address box.
13. Select the required option for **Login Failure Policy**. The options are: *Off*, *3 times* and *5 times*.
14. Select the required number of minutes from the **Auto Logout** menu.
15. Select **Security Settings Reset** to enable this option if required.
16. Select **Save**.
17. To control access to the machine control panel, select the **Enable** box to enable **LUI Access Control**.
18. Select **Apply** to save the changes.
19. Select **OK** when the acknowledgement message displays.

Feature Management

The Feature Management screen allows you to access the **Firmware Upgrade**, **Physical Ports** and **Network Protocols** controls that are available on the machine.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.

2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **System Security** link.
7. Select the **Feature Management** link in the directory tree.
8. To enable or disable a control, check or uncheck the box in the **Firmware Upgrde**, **Physical Ports** and **Network Protocols** areas.
 - For **LPR/LPD Protocol**, enter the required port number. (The default is 515).
 - For **Raw TCP/IP Printing Protocol**, enter the required port number (The default is 9100).
9. Click **Apply** to save the changes.

Restart Device

The **Restart Device** screen allows you to reboot the machine remotely from your desktop.

Note When the machine is restarted, the Network Controller will take some time to restart. The network connectivity will be unavailable during this time.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **System Security** link.
7. Select the **Restart Device** link in the directory tree.
8. To reboot the machine select the required **Restart Now** button
9. The **Do you really want to restart the device** screen appears. Click **Yes**. The machine will reboot. Internet Services may be unavailable for several minutes while the machine reboots.

Machine Digital Certificate Management

The following topics are covered in this section:

- [Overview](#) on page 64
- [Information Checklist](#) on page 64
- [Access the Machine Digital Certificate Management Screen](#) on page 64
- [Create a Self Signed Certificate](#) on page 65
- [Install a CA Signed Device Certificate](#) on page 65
- [Enable Secure Connection](#) on page 67

Overview

The machine can be configured for secure access with the SSL (Secure Socket Layer) protocol via Digital Certificates. SSL enables secure access to the machine.

To enable SSL on a machine, it needs to have its own digital certificate. When clients make a request to the machine, it exports the certificate to provide an encrypted channel.

There are two options available to obtain a server certificate for the machine:

- Have the machine create a Self Signed Certificate
- Create a request to have a Certificate Authority sign a certificate that can be uploaded to the machine.

A self-signed certificate means that the machine signs its own certificate as trusted and creates the public key for the certificate to be used in SSL encryption.

A certificate from a Certificate Authority or a server functioning as a Certificate Authority (for example Windows 2000 running Certificate Services) can be uploaded to the machine.

Note A separate request is required for each Xerox machine.

Information Checklist

Ensure that the machine is configured with the following items:

- An IP Address or Host Name must be configured on the machine.
- DNS must be enabled and configured on the machine.

Note This is used to set the start time for self signed certificates.

Access the Machine Digital Certificate Management Screen

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.

5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select the **Digital Certificate** link. The **Certificate Management** page displays.
8. Select **Add**.

Select one of the following options:

- **Install/Create Device Certificate or CSR**. The following options are available:
 - **Create a Self-signed Device Certificate**
 - **Install CA signed Device Certificate**
 - **Create Certificate Signing Request (CSR)**
- **Install Root Certificate**

Create a Self Signed Certificate

1. In the **Install/Create New Certificate** area select **Create a Self Signed Device Certificate**.
2. Select **Next**.
3. In the **Self Signed Certificate** area:
 - a. Enter a **Friendly Name** to identify the certificate.
 - b. In the **2 Letter Country Code** field enter the *Country Code* that represents the country in which the machine is located. The country code must be entered as a two-character ISO 3166 country code.
 - c. If required, enter details in the following fields:
 - **State/Province Name**
 - **Locality Name**
 - **Organization Name**
 - **Organization Unit**

Information entered for these options should describe the machine as per the X500 directory scheme but can be any value which is meaningful to the customer to identify the machine.

Note The Common Name is taken from the machine's IP Address/Host Name and Domain Name.

- d. In the **Valid Period** box, enter the number of days that the certificate should be valid. Once the specified time is reached, the certificate will expire. The start time is based on the current machine system time so it is important that the time is set correctly on the machine.
 - e. Enter the **E-mail Address** of the Administrator who is responsible for the secure management of the machine.
4. Select the **Next** button. A message displays to show the success of the certificate creation.
 5. Click the **Close** button. The certificate displays in the **Certificate Management** area.
 6. Follow the steps in [Enable Secure Connection](#) on page 67.

Install a CA Signed Device Certificate

1. In the **Install/Create New Certificate** area, select **Install CA Signed Device Certificate**.
2. Select **Next**.

3. In the **Certificate Information** area:
 - a. Enter a **Friendly Name** to identify the certificate
 - b. Enter the required **Private Password** and **Confirm Password**.
 - c. In the **CA Signed Certificate** area click **Browse** to find the certificate file on your computer. Select the file and click **OK**.
 - d. Click **Next**.
4. Select the **Apply** button to accept the changes.
If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **OK**.
5. If successful, the **Current Status** area will display the message, “**A CA Signed Certificate is established on this machine.**”
6. Follow the steps in [Enable Secure Connection](#) on page 67.

Create a Certificate Signing Request

1. In the **Install/Create New Certificate** area select **Create Certificate Signing Request**.
2. Select **Next**.
3. In the **Certificate Signing Request (CSR)** area:
 - a. Enter a **Friendly Name** to identify the request.
 - b. In the **2 Letter Country Code** field enter the *Country Code* that represents the country in which the machine is located. The country code must be entered as a two-character ISO 3166 country code.
 - c. If required, enter details in the following fields:
 - **State/Province Name**
 - **Locality Name**
 - **Organization Name**
 - **Organization Unit**Information entered for these options should describe the machine as per the X500 directory scheme but can be any value which is meaningful to the customer to identify the machine.
Note The Common Name is taken from the machine’s IP Address/Host Name and Domain Name.
 - d. Enter the **E-mail Address** of the Administrator who is responsible for the secure management of the machine.
4. Click **Next**.
5. Select the **Apply** button to accept the changes.
If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
6. The **Certificate Signing Request (CSR)** form will appear. In the **Certificate Signing Request (CSR)** area:
 - a. Select the **Download** button.
7. Select **Save** and save the file to your computer. The file is saved as a simple text file, named *csr.pem* (Privacy Enhanced Mail).
8. Send the file to your Certificate Authority for digital signing.
9. When you receive the signed certificate back from the Certificate Authority, upload the certificate to the machine:
 - a. Return to the **Digital Certificate** screen in the Internet Services Network Security menu.

- b. In the **Certificate Management List**, select the **Certificate Signing Request (CSR)** you created in the previous step. Click **Edit**.
- c. In the **Upload Machine Digital Certificate** area select **Browse**.
- d. Browse to the signed certificate file on your PC and select the **Open** button.
- e. Select the **Apply** button.
- f. If successful, the Current Status will display the message “**A Signed Certificate is established on this machine.**”

Note For the upload to be successful, the signed certificate must match the CSR created by the machine and must be in a format that the machine supports.

Install Root Certificate

1. In the **Install Root Certificate** area select **Install new Root Certificate**.
2. Select **Next**.
3. In the **Install Certificate** area:
 - a. Enter a **Friendly Name** to identify the certificate.
 - b. In the **Root Certificate** area click **Browse** to find the certificate file on your computer. Select the file and click **OK**.
 - c. Click **Next**.
4. Select the **Apply** button to accept the changes.
If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. If successful, the **Current Status** area will display the message, “**Root Certificate has successfully been installed.**”
6. Follow the steps in [Enable Secure Connection](#) on page 67.

Enable Secure Connection

Once the machine has a machine Server Certificate, you can enable Secure Connection.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select the **Secure Connection** link.
8. Click the **Select Certificate** button and select the required certificate. Click **Select**. The certificate displays in the **Certificate for Secure Connection** area.
9. In the **Secure HTTP** area, select the required option in the **HTTPs** menu. Select **Both HTTP and HTTPs** to enable Secure IPP or select **HTTPs Only**.
10. If you selected **Both HTTP and HTTPs**, select **On** from the **IPPs** menu if required.
11. Select **Apply** to save the changes.

12. Close your web browser and then access the Internet Services screen again. The Security warning will display. Self-signed certificates cause browsers to display messages which question the trust of the certificate. Select the **OK** button to continue.

Edit or Delete a Certificate

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select the **Digital Certificate** link. The **Certificate Management** page displays with a list of the certificates installed on this machine.
8. Select the box next to the **Friendly Name** of the certificate that you want to edit or delete.
 - Select the **Edit** button to edit the certificate. Make the required changes and click **Apply**.
 - Select the **Delete** button to delete the certificate, and click **Yes** to confirm.

SNMP

SNMP (Simple Network Management Protocol) settings can be configured via Internet Services.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
5. Click **Properties**.
6. In the **Network Settings** link select the **SNMP** link.
7. Select **SNMPv1/v2**.
 - a. Select the **Enable** checkbox to enable **SNMPv1/v2 Protocol**.
 - b. Select the required **Community Name** from the list, or click **Add** to add a new SNMP Community. The **Add** pop up menu appears.
 - Enter the required **Name** for the **SNMP Community**.
 - Select the required **Access Permission**.
8. Select **Apply** to save the changes.
9. Select **OK** when the acknowledgement message displays.

SNMP Traps

You can specify IPv4 Trap Destination Addresses.

1. From the **SNMP** page, in the **SNMP Traps** area select **Add**.
2. In the **Trap Destination Address** area, enter details in the **IPv4 Address** and **Port Number** fields.
3. In the **Traps** area, enter the name in the **TRAP Community Name** field.
4. For **Traps to be received** check the boxes to select the following Traps:
 - **Printer Traps**.
 - **Cold Start Generic Traps**.
 - **Warm Start Generic Traps**.
 - **Authentic Failure Traps**.

Note When **Authentication Failure Traps** is enabled, the machine will generate a trap for every SNMP request that is received by the machine which contains an invalid community name.
5. Select **Apply** to save the changes.
6. Select **OK** when the acknowledgement message displays.

To Edit Community Names or SNMP Traps

1. From the **SNMP** page, in the **Community Names** or **SNMP Traps** area select the name or address you want to edit.
2. Select **Edit**.
3. Change the required options and select **Apply** to save the changes.

To Delete Community Names or SNMP Traps

1. From the **SNMP** page, in the **Community Names** or **SNMP Traps** area select the name or address you want to delete.
2. Select **Delete**.
3. Select **OK**.

Note Changes made to the GET or SET community names for this machine will require corresponding GET or SET community name changes for each application which uses the SNMP protocol to communicate with this machine (e.g. Xerox CentreWare Web, any third party network management applications, etc.).

SNMPv3

SNMPv3 can be enabled to create an encrypted channel for secure machine management.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
5. Click **Properties**.
6. In the **Network Settings** link select the **SNMP** link.
7. Select the **SNMPv3** link. The **SNMPv3** page displays.
8. In the **Setup** area:
 - a. Click the **Enable** box to enable **SNMPv3 Protocol**.
 - b. In the **Authentication** area, enter the required **User Name**.
 - c. Enter a password in the **Authentication Password** field.
 - d. Enter the password again in the **Confirm Password** field.
 - e. For **Authentication Algorithm**, select either **MD5** or **SHA**.
 - f. Enter a password in the **Privacy Password** field.
 - g. Enter the password in the **Confirm Password** field.
 - h. The **Privacy Algorithm** displays.
9. Select **Apply** to save the changes.
10. Select **OK** when the acknowledgement message displays.

IP Sec

IP Sec (IP Security) is comprised of the IP Authentication Header and IP Encapsulating Security Payload protocols, that secure IP communications at the network layer of the protocol stack, using both authentication and data encryption techniques. The ability to send IP Sec encrypted data to the printer is provided by the use of a public cryptographic key, following a network negotiating session between the initiator (client workstation) and the responder (printer or server). To send encrypted data to the printer, the workstation and the printer have to establish a Security Association with each other by verifying a matching password (shared secret) to each other. If this authentication is successful, a session public key will be used to send IP Sec encrypted data over the TCP/IP network to the printer. Providing additional security in the negotiating process, SSL (Secure Sockets Layer protocols) are used to assure the identities of the communicating parties with digital signatures (individualized checksums verifying data integrity), precluding password guessing by network sniffers.

Enable IP Sec

This procedure requires that you have a Shared Secret available.

IP Sec cannot be enabled until Secure Connection is enabled on the machine. For instructions, refer to [Enable Secure Connection](#) on page 67.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select the **IP Security** link. The **IP Security** page displays.
8. Click **Enable** to enable the **IP Sec** protocol.
9. Enter the **Shared Secret** and **Confirm Shared Secret**.
10. Select **Apply** to save the settings. Select **OK** when the acknowledgement message displays.
11. The **IP Sec Current Status** confirms the status of the IP Sec protocol.
12. To change the Shared Secret, click the **Change Shared Secret** button and enter the new Shared Secret information.
13. Click **Apply** to save the changes.
14. To clear IP Sec connections, click the **Clear All IPSec Connections** button. The '**Do you really want to clear all IPSec connections**' message appears. Click **Yes**. The '**All IPSec connections have been cleared**' message appears. Click **OK** to close.

IP Filtering

Overview

The IP Filtering is a security feature that allows you to control access to Internet Services. IP Filtering allows you to prevent unauthorized access by TCP/IP (Transmission Control Protocol/Internet Protocol).

The IP Filtering feature provides security to the machine, by allowing you to register the IP addresses permitted to communicate with the machine. This feature is used to prevent Raw TCP/IP Printing, LPR/LPD, HTTP, IPP and SNMP from unauthorized users.

Enable IP Filtering

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.

For IPv4 Filtering

7. Select the **IPv4** link.
8. Select the **IPv4 Filtering Enabled** checkbox.
9. In the **IP Filtering Rules** area select the **Add** button.
10. In the **IPv4 Address Range** enter the **Start IPv4 Address** and the **End IPv4 Address** that you want to allow access to the device.
11. Select the options that you want to allow access to in **Services to Accept**.
12. Select the required **Priority**.
13. Select **Apply** to save the changes.
14. Select **OK** when the acknowledgement message displays.

For IPv6 Filtering

15. Select the **IPv6** link.
16. Select the **IPv6 Filtering Enable** checkbox.
17. In the **IP Filtering Rules** area select **Add**.
18. Enter the **IPv6 Address/Prefix** that you want to allow access to the device. in the form of the CIDR convention. The prefix indicates the number of leftmost bits to be referenced.
19. Select the options that you want to allow access to in **Services to Accept**.
20. Select the required **Priority**.
21. Select **Apply** to save the changes.
22. Select **OK** when the acknowledgement message displays.

Enable MAC Filtering

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select **MAC Filtering** in the directory tree. The **MAC Filtering** page displays.
8. Select the **MAC Filtering Enable** box.
9. In the **MAC Address to Filter Out** area select the **Add** button.
10. Enter the **MAC address** that you want to filter out.
11. Select **Apply** to save the changes.
12. Select **OK** when the acknowledgement message displays.

802.1X Authentication

This is the procedure to follow to install and setup 802.1X Authentication:

- [Overview](#) on page 75
- [Information Checklist](#) on page 75
- [Enable 802.1X at the machine](#) on page 75

Overview

The Xerox machine supports IEEE 802.1X Authentication via Extensible Authentication Protocol (EAP). IEEE 802.1X ensures all machines on the network are authenticated and authorized to use the network. 802.1X can be enabled for machines connected through wired Ethernet networks.

The Administrator can configure the machine to use one EAP type. EAP types supported on the machine are:

- **EAP-MD5**
- **PEAP**
- **EAP-MSCHAPv2**
- **TLS**

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- 802.1X authentication must be supported on the network where the machine is connected.
- Ensure that your 802.1X Authentication Server and authentication switch are available on the network.
- Create a *User Name* and *Password* on your Authentication Server which will be used to authenticate the machine.

Note Write down the *User Name* and *Password* and keep in a safe place.

Enable 802.1X at the machine

1. Press the **Menu** button on the *control panel*.
2. Use the arrow buttons to scroll to **Network Setup** and press **OK**.
3. Enter the **Administrator Password** using the arrow buttons. The default is **1111**. Refer to [Entering a password:](#) on page 14.
4. Press the **OK** button.
5. Press the arrow buttons to select **802.1x** and press **OK**.
6. Press the arrow buttons to select **On**; press **OK**.
7. Press the arrow buttons to highlight one of the following for the **Authentication Method**:
 - **EAP-MD5**

- **EAP-MSCHAPv2**
 - **PEAP**
 - **EAP-TLS**
8. Press **OK**.
 9. Enter the **User Name** using the arrow buttons and press **OK**.
 10. Enter the **Password** using the arrow buttons and press **OK**.
 11. The screen will display **Saved** and the machine will reboot.

Enable 802.1X using Internet Services

Authentication via TLS requires a Device Certificate to be configured or uploaded to the machine. For instructions refer to [Access the Machine Digital Certificate Management Screen](#) on page 64.

Authentication via PEAP and TLS requires a Root Certificate to be uploaded to the machine. For instructions refer to [Install Root Certificate](#) on page 67.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select **802.1X** in the directory tree. The **802.1x Security** page displays.
 - a. For **802.1x Security**, check the **Enable** checkbox to enable.
 - b. From the **Authentication Methods** area select one of the following methods:
 - **EAP-MD5**
 - **EAP-MSCHAPv2**
 - **PEAP**
 - **TLS**
8. If you select **EAP-MD5**, **EAP-MSCHAPv2** or **PEAP**, the **Credentials** option appears. Enter the required details in the **Username** and **Password** fields.
9. If you select **PEAP** or **TLS**, the **Server Validation** option appears. Click the **Select Certificate** button and select the required root certificate to provide server validation.
10. If you select **TLS**, the **Device Validation** option appears. Click the **Select Certificate** button and select the required certificate to provide device validation.
11. Select the **Apply** button to accept the changes.
12. Select **OK** when the acknowledgement message displays.

Display Network Settings

The **Display Network Settings** feature allows you to control the network information that displays on the machine control panel.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **Network Security** link.
7. Select **Display Network Settings** in the directory tree. The **Display Network Settings** page displays.
8. In the **Options** area, select one of the following options:
 - **Hide Network Information**
 - **Show IPV4 Address**
 - **Show HostName**
9. Select **Apply** to save the changes.
10. Select **OK** when the acknowledgement message displays.

CentreWare Internet Services

6

This chapter explains how to enable and use the CentreWare Internet Services (Internet Services) feature of the machine.

The following topics are covered in this chapter:

- [Overview](#) on page 80
- [Status](#) on page 81
- [Jobs](#) on page 82
- [Print](#) on page 83
- [Properties](#) on page 84
- [Support](#) on page 95

Overview

Internet Services uses the embedded HTTP Server on the machine. This allows you to connect to the machine through a web browser, to configure or change machine settings.

Enter the IP Address of the machine in the URL (Universal Resource Locator) field of a browser to access the *Internet Services* home page.

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- The machine should be connected to the network with TCP/IP enabled and configured.
- An existing operational workstation with TCP/IP Internet or Intranet accessibility is required.
- HTTP (Hyper Text Transfer Protocol) should be enabled on the machine. HTTP is enabled by default. If you need to enable HTTP, see [Enable HTTP at the machine](#) on page 80.

Enable HTTP at the machine

Hyper Text Transfer Protocol (HTTP) must be enabled on the machine in order to access the embedded web pages.

Note HTTP is enabled by default.

1. Press the **Menu** button.
2. Use the up/down arrows to select **Network Setup**.
3. Enter the *Administrator password*. The default is **1111**. Refer to [Entering a password:](#) on page 14.
4. Use the arrow buttons to select **HTTP Activate**.
5. Use the arrow buttons to select **On**.
6. Press **OK**. The **NIC Changed, Please Reboot** message will appear.
7. Press the *power switch* off, wait two seconds and press the *power switch* back on.

Access Internet Services

1. Open a web browser from your workstation.
2. In the URL field, enter **http://** followed by the IP Address of the machine. For example: If the IP Address is 192.168.100.100, enter the following into the URL field: **http://192.168.100.100**.
3. Press **Enter** to view the **Home page**.
4. Select an icon to access the desired page, or select the **Index** icon at the top of the machine web page to access the index list.

Status

The **Status page** allows you to view any active alerts being displayed by the machine, and see the status of the print cartridge.

The **Usage Counters** page allows you to view the number of impressions made by the machine. This page also displays the machine serial number and in the **Current Settings** menu, information about the machine setup and network information can also be viewed.

The **Print Information** page allows you to print the configuration report and other documents about the machine.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Status** icon.
4. Select the option in the menu on the left side of the page to view the required information:
 - **Active Alerts:** shows current issues reported by the machine and the skill level required to fix them.
 - **Supplies:** shows the status of the Xerox Black Print Cartridge.
 - **Usage Counters:** shows the Machine Serial Number and the number of impressions completed by the machine.
 - **Current Settings:** which contains **Machine Information** and **Network Information**. **Machine Information** displays information about the System and **Printer**. **Network Information** displays information about the Protocols configured on the machine.
 - **Print Information:** allows you to print the Configuration Report, Font Lists, System information and other reports related to the machine.

Print Information

1. In the **Status** page, select **Print Information**.
2. Select the required report in the **Print Information** screen by selecting the checkbox next to the report that you want to print.
3. Select the **Print** button.
4. Select **OK** when the acknowledgement message displays.

Jobs

The **Jobs** tab is not present on the Phaser 3320DN/3320DNI unless RAM disk is enabled. The Job Management page provides information about active, stored and secure print jobs.

Click the links in the left hand menu to see your jobs. The options are:

- **Active Jobs**
- **Stored Print**
- **Secure Print**

To view the **Job Management** page

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Jobs** icon.
4. To view the status of current jobs at the machine select the **Active Jobs** link. To delete an active job, select the required job and press the **Delete** button.
5. To view the status of Sample Print jobs, select the **Stored Print** link.
6. To view the status of Secure Print jobs, select the **Secure Print** link.

For further information refer to the [Phaser 3320DN/3320DNI User Guide](#) delivered with your machine.

Print

File Download

Print-ready documents can be quickly and easily submitted for printing using the File Download page.

A print-ready document is a file that has been formatted and saved for printing from the application that created it, or the **Print to File** check box was checked in the printer driver screen.

The following file formats can be printed from the Job Submission page:

- PCL
 - PostScript®
 - Plain Text
 - PRN files
1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
 2. Press **Enter**.
 3. Select the **Print** icon. The **Print Options** page displays.
 4. Select the number of copies required in the **Quantity** menu.
 5. Select the required orientation of your print from the **Orientation** menu.
 6. Select the required option for **2-Sided** printing.
 7. In the **Print-Ready File** area, select the **Browse** button. The **File Download** page displays.
 8. Select the print-ready document and select **OK**.
 9. Select **Apply** to print the document.

Properties

The **Properties** tab allows you to configure **Machine Settings**, **Network Settings** and **Security** information. You must be logged in as the *Administrator* to view the **Properties** pages.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
5. Click **Properties**.

Machine Settings

The **Machine Settings** menu contains the following features:

- Firmware Version
- System
- Printer
- E-mail Notification

Firmware Version

1. Access the **Properties** tab.
2. In the **Machine Settings** link select the **Firmware** link. The **Version Information** area displays the following information:
 - **System version**
 - **Main Controller**
 - **Network**
 - **IP Core software version**
 - **Image Output Terminal**
 - **PCL5X**
 - **PCLXL**
 - **PS**
 - **IBM/EPSON**

System

The **System** page allows the user to change the following preferences:

- **Setup** - includes General machine information such as language and power save settings.
- **Earth Smart** - allows you to set features to save energy and paper on the machine.
- **Input Tray** - allows you to set the input tray information.
- **RAM Disk** - Enables/disables RAM disk to manage jobs.

Setup

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Machine Settings** link select the **System** link.
7. Select **Setup**. The **General** page displays.
8. In the **Host Name**, **Location**, **Contact**, **Xerox Asset Tag Number** and **Customer Asset Tag Number** areas enter the required information for the device.
9. Select the required language from the **Language** drop-down menu.
10. Select the required emulation from the **Emulation** drop-down menu.
11. From the **Power Save** drop-down menu select the required time for the machine to enter power save mode.
12. Select the required options for the **Power Save Wakeup Event**.
13. Select the required options for:
 - **Altitude Adjustment**
 - **Toner Low Alert**
 - **Toner Save**
 - **Line Termination**
 - **Job Timeout**
14. Select **Apply** to save the changes.
15. Select **OK** when the acknowledgement message displays.

Earth Smart

The Earth Smart feature allows you to configure options to decrease the amount of energy and paper used in the printing process and displays a visual representation of savings made.

Configure Earth Smart Settings

1. In the **Machine Settings** link select the **System** link.
2. Select **Earth Smart**.
3. Select **Settings**. The **Default Mode** page displays.
4. Select the required option:
 - Select **On** to enable Earth Smart,
 - Select **On-forced** to enter a 4 - 8 digit password.
5. In the **Features Configuration** area:
 - a. Select **Factory Default** if you want to retain the default Earth Smart settings.
 - b. To change the Earth Smart settings, select **Custom Settings**.
 - Select **Edit and Preview Simulator**.

- Select the required settings for **2-Sided, N-Up, Skip the Blank Pages, and Toner Save**. The simulator shows estimates for the CO², Energy and Paper savings.
- c. Click **OK** to save your changes.

Input Tray

To access the Input Tray settings

1. In the **Machine Settings** link select the **System** link.
 2. Select the **Input Tray** link. The **Input Tray** page displays.
 3. In the **Paper Size** area, from the following drop-down menus select the required paper size settings:
 - **Tray 1**
 - **Tray 2**
- Note** Tray 2 is only available with the Optional Tray installed.
- **Bypass Tray**
 4. In the **Paper Type** area, from the following drop-down menus select the required paper type settings:
 - **Tray 1**
 - **Tray 2**
 - **Bypass Tray**
 5. To enable **Bypass Mode**, select the **Enable** checkbox in the **Tray Mode** area if required.
 6. Select **Apply** to save the changes.

Ram Disk

1. In the **Machine Settings** link, select the **System** link.
2. Select the **RAM Disk** link. The **RAM Disk** page displays.
3. To enable **RAM Disk**, select the **Enable** checkbox in the **Ram Disk** area.
4. Select the required size (**16 - 32**)MB.
5. Select **Apply** to save the changes.

Printer

The **Printer** screens allow you to set the options for:

- **Graphic**
- **Layout**
- **PCL**
- **PostScript**
- **EPSON/IBM**
- **Font and Macro Download**

Graphic

To access the **Graphic** settings:

1. In the **Machine Settings** link select the **Printer** link.
2. Select **Graphic**.
3. In the **Graphic** area, from the following drop-down menus select the required settings:
 - **Resolution**
 - **Darken Text**
4. Select **Apply** to save the settings.

Layout

To access the **Layout** settings:

1. In the **Machine Settings** link select the **Printer** link.
2. Select **Layout**.
3. In the **Layout** area, from the following drop-down menus select the required options:
 - **Layout**
 - **Common Margin**
 - **Advanced Margin** - select the **Setting** buttons to change the options for **Tray 1**, **Tray 2**, **Bypass Tray** and **Emulation Margin**.
4. Select **Apply** to save the settings.

PCL

To access the **PCL** settings:

1. In the **Machine Settings** link select the **Printer** link.
2. Select **PCL**.
3. In the **PCL** area, from the following drop-down menus select the required options for the PCL font:
 - **Typeface**
 - **Symbol Set**
 - **Lines**
 - **Pitch**
 - **Courier**
4. Select **Apply** to save the settings.

PostScript

To access the PostScript settings:

1. In the **Machine Settings** link select the **Printer** link.
2. Select **PostScript**.
3. In the **PostScript** area, select **Enable** to select **Print PostScript Error**.

4. Select **Apply** to save the settings.

EPSON/IBM

To access the EPSON/IBM settings:

1. In the **Machine Settings** link select the **Printer** link.
2. Select **EPSON/IBM**.
3. In the **EPSON/IBM** area, select the required settings:
 - **Font**
 - **Auto Wrap**
 - **Character Set**
 - **Character Table**
 - **LPI**
 - **Pitch**
4. Select **Apply** to save the settings.

Font and Macro Download

The Font and Macro Download page allows you to add the following to the machine:

- **PCL Font**
- **PCL Macro**
- **PS Font**

Note Ensure the required font or macro file is available on your computer.

1. In the **Machine Settings** link select the **Printer** link.
2. Select **Font and Macro Download**.
3. Select the **PCL Font**, **PCL Macro** or **PS Font** tabs as required.
4. Select **Add**.
5. In the **File** area:
 - a. Select the **Browse** button.
 - b. Select the required font or macro file on your computer.
 - c. Select **Open**.
6. If you selected PCL Font or PCL Macro, enter the required **ID**.
7. Select the **Apply** button.
8. Select the **Print List** button to view the font or macro list.

E-mail Notification

The **E-mail Notification** page allows you to set up e-mail alerts to notify users or operators of problems as they occur on the machine.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.

2. Press **Enter**.
3. Select the **Properties** icon.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. **Click Properties**.
6. In the **Machine Settings** link select the **E-mail Notification** link.
7. Select the **Enable** checkbox to enable **E-mail Notification**.
8. To create a new e-mail notification, in the **Recipients & Conditions** area, select **Add**. The **Add** screen appears.
9. Enter the name of your recipient in the **Name** box.
10. Enter the E-mail address(es) for the people that you want to be notified of the machine problems. Multiple e-mail addresses can be entered; the e-mail addresses must be separated by semi-colons.
11. In the **Notification** area, click the box next to Notification to be notified of all events, or select the specific events that you want to be notified of:
 - **Consumable Shortage Warning**
 - **System Errors**
 - **Device Status**
 - **Firmware Upgrade Notification**
 - **Warn me when Admin Password is expired**
 - **Warn me when Admin Password has been changed**
 - **Security Settings Reset**
12. Some notifications require additional settings:
 - a. If you select **Consumable Shortage Warning**, select **Setting...** and enter the required setting for the **Toner Level**. Select **Apply**.
 - b. If you select **Device Status**, select **Setting...** and enter the required information for **Notification Schedule** and **Reports to be attached in E-mail**. Select **Apply**.
13. Select **Apply** to save the changes.

Network Settings

The Network Settings screens allow you to set the properties for the following options:

- **General**, which includes Ethernet Speed
- **TCP/IPv4**
- **TCP/IPv6**
- **Raw TCP/IP, LPR, IPP**
- **Telnet**
- **WSD**
- **SLP**
- **UPnP**
- **mDNS**
- **SNMP**
- **Outgoing Mail Server (SMTP)**
- **Wireless**

- **Restore Default**
1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
 2. Press **Enter**.
 3. Select the **Properties** icon.
 4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
 5. Click **Properties**.
 6. In the **Network Settings** link select the **General** link.

General

The General page allows you to set the Ethernet Speed and view the device MAC address. For instructions on how to set the Ethernet Speed, refer to [Setting the Ethernet Speed Using Internet Services](#) on page 20.

TCP/IP

The TCP/IPv4 and TCP/IPv6 pages allow you to configure the TCP/IP settings on the device. For instructions refer to [Network Installation](#) on page 23.

Raw TCP/IP, LPR, IPP

The Raw TCP/IP, LPR IPP page allows you to configure the Raw TCP/IP (Port 9100), LPR (Line Printer Remote) and IPP (Internet Printing Protocol) settings on the device. For instructions, refer to [Windows Printing](#) on page 49.

Telnet

The Telnet page allows you to configure Telnet settings on the device.

1. In the **Network Settings** link select the **Telnet** link.
2. Select **Enable** to enable the **Telnet Protocol**.
3. Enter the required information to configure the following settings:
 - **Port Number**
 - **Login ID**
 - **Password**
4. Select **Apply** to save the settings.

WSD

The WSD page allows you to enable the WSD protocol on the device.

1. In the **Network Settings** link select the **WSD** link.
2. Select **Enable** to enable the **WSD Protocol**.
3. Select **Apply** to save the settings.

SLP

The SLP page allows you to configure the SLP protocol (Service Location Protocol) on the device.

1. In the **Network Settings** link select the **SLP** link.
2. Select **Enable** to enable the **SLP Protocol**.
3. Enter the required information to configure the following settings:
 - **Scope 1, 2 and 3**
 - **Message Type**
 - **Multicast Radius**
 - **Registration Lifetime**
4. Select **Apply** to save the settings.

UPnP

The UPnP page allows you to configure the SSDP protocol (Simple Service Discovery Protocol) on the device.

1. In the **Network Settings** link select the **UPnP** link.
2. Select **Enable** to enable the **SSDP Protocol**.
3. Enter the required information for **SSDP TTL**.
4. Select **Apply** to save the settings.

mDNS

The **mDNS** page allows you to enable the MDNS protocol (Multicast DNS) on the device. This protocol is used in Bonjour (formerly Rendezvous) from Apple.

1. In the **Network Settings** link select the **mDNS** link.
2. Select **Enable** to enable the **mDNS Protocol**.
3. Select **Apply** to save the settings.

SNMP

The SNMP page allows you to configure the SNMP (Simple Network Management Protocol) v1, v2 and v3 settings on the device. For instructions, refer to [SNMP](#) on page 69.

Outgoing Mail Server (SMTP)

The Outgoing Mail Server (SMTP) page allows you to configure the SMTP (Simple Mail Transfer Protocol) settings on the device.

1. In the **Network Settings** link select the **Outgoing Mail Server (SMTP)** link.
2. In the **Simple Mail Transfer Protocol (SMTP)** area:
 - a. Enter the **IP** or **host name** of the **SMTP Server**.

- b. Enter the **Port Number**. The Port field can have a value from 1 to 65535. The default **Port Number** is 25.
 - c. Check the **SMTP Requires Authentication** checkbox if your mail server requires the machine to log in.
 - d. Enter details in the **Login ID** and **Password** fields required for the machine to authenticate at the mail server.
 - e. Enter a password in the **Confirm Password** field.
 - f. Select **POP3 Authentication** to enable this option and enter the required settings.
 - g. In the **Advanced** area, select **Secure E-mail Connection with SSL/TLS** if this option is required.
 - h. Enter a value for server connection timeout in the **SMTP Server Connection Timeout** field. The range is 30 - 120 seconds, and the default is 30 seconds.
 - i. Enter the required details for the **Default From Address**.
 - j. Select the **SMTP Configuration Test** button to test your settings.
3. Select **Apply** to save the changes.

Select **OK** when the acknowledgement message displays.

Wireless (Phaser 3320DNI)

The Wireless page allows you to view the wireless connection status and configure the wireless settings. For instructions refer to [Configure Wireless Connectivity Using Internet Services \(Phaser 3320DNI\)](#) on page 19.

Restore Default

The **Restore Default** page allows you to clear the machine's network settings.

1. In the **Network Settings** link select the **Restore Default** link.
2. Select the **Clear** button.
3. The **Do you really want to restore network settings** message appears. Click **Yes**.
4. Reboot the machine for changes to take effect.

Security

The Security screens allow you to view and set the properties for the following options:

- **Security Summary**
- **System Security**
- **Network Security**

Security Summary

The **Security Summary** page allows you to view the settings for:

- **System Security**

- **Network Security**
1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
 2. Press **Enter**.
 3. Select the **Properties** icon.
 4. If prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
 5. Click **Properties**.
 6. In the **Security** link on the left hand side, select the **Security Summary** link.
The **System Security** screen displays information about **Access Control** and **Advanced Access Control**.
 7. In the **Security Summary** page, select the **Network Security** tab. The Network Security tab displays the settings configured on the device for:
 - **Secure Connection (HTTPs)**
 - **Simple Network Management Protocol v3**
 - **IP Security**
 - **IP and MAC Address Filter**
 - **802.1x Security**

System Security

The **System Security** pages allow you to configure security settings on the device for:

- **System Administrator**
- **Feature Management**
- **Restart Device**

System Administrator

The **System Administrator** page allows you to change the administrator password and control access to Internet Services (the Web UI) and the device control panel (the LUI or Local User Interface). For instructions, refer to [Administrator Accounts](#) on page 62.

Feature Management

The **Feature Management** page allows you to control access to the machine services, physical ports and network protocols used on the device. For instructions, refer to [Feature Management](#) on page 62.

Restart Device

The **Restart Device** screen allows you to reboot the machine remotely from your desktop. For instructions, refer to [Restart Device](#) on page 63.

Network Security

The **Network Security** pages allow you to configure security settings on the device for:

- **Digital Certificate**

Properties

- **Secure Connection**
- **SNMPv3**
- **IP Security**
- **IPv4 Filtering**
- **IPv6 Filtering**
- **MAC Filtering**
- **802.1x**
- **Display Network Settings**

For instructions on how to configure the Network Security settings, refer to [Security Settings](#) on page 62.

Display Network Settings

The **Display Network Settings** screen allows you to control the network information that displays on the machine control panel. For further information, refer to [Display Network Settings](#) on page 77.

Support

The Support tab provides details of the machine **Version Information** and allows you to perform a **Firmware Upgrade**. You can also configure **Contact Information** for the System Administrator and Xerox support information. The Support tab provides **Support Links** to pages on www.xerox.com that provide helpful information, for example drivers and documentation.

Note You must be logged in as the *Administrator* to perform a Firmware Upgrade.

Version Information

The Version Information area displays the machine's firmware versions.

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Support** icon. The **Version Information** page displays.

Firmware Upgrade

For information on how to upgrade the machine firmware, refer to [Software Upgrade using Internet Services](#) on page 99.

To Edit Contact Information Details

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Support** icon. The **Support** page displays.
4. When prompted, enter the *Administrator User Name* (**admin**) and *Password* (**1111**), and select **Login**.
5. In the **Contact Information: System Administrator** area, select the links to enter or edit details in the following fields:
 - **Name**
 - **Phone Number**
 - **Location**
 - **E-mail Address**
6. In the Xerox Support area, enter information for the following fields:
 - **Customer Support Phone Number**
 - **Services Phone Number**
 - **Supply Phone Number**
7. Select **Apply** to save the changes.
8. Select **OK** when the acknowledgement message displays.

Support Links

To view **Support Links** or to register your device on **www.xerox.com**:

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select the **Support** icon.
4. Select **Support Links** within the **Support** tab.
5. Select the required link to access information.

Software Upgrade

7

This chapter explains how to upgrade the machine software when requested by a Xerox Customer Support Centre Representative and includes the following topics.

- [Overview](#) on page 98
- [Software Upgrade using Internet Services](#) on page 99

Overview

The Software Upgrade feature allows the customer to upgrade the machine software as requested by a Xerox Customer Support Centre Representative, without needing a Customer Service Representative to be present.

When should I upgrade the software?

Xerox is continually seeking to improve its products and a software revision may become available to improve the functionality of the machine. Your Customer Support Centre Representative will instruct you to upgrade your machine when it is necessary.

Software Upgrade using Internet Services

Note Any jobs in the queue must be allowed to complete or be deleted before initiating a software upgrade. This procedure will prevent further jobs from being received until the upgrade has completed. All configured network settings and installed options will be retained by the machine after the Software Upgrade process.

Information Checklist

Before starting please ensure that the following items are available and/or the tasks have been performed:

- Obtain the new software upgrade file for your machine from the www.xerox.com web site or from your Xerox Customer Support Representative. The upgrade file will have an extension of **.hd**. Download the upgrade file to a local or network drive. You will be able to delete the file after the upgrade procedure.
It is important to obtain the correct upgrade file for your particular model of machine. For instructions to determine which model of machine you have, refer to [Firmware Version](#) on page 84.
- TCP/IP and HTTP protocols must be enabled on the machine so that the machine web browser can be accessed.

Procedure

1. At your workstation, open the web browser and enter the *IP Address* of the machine in the Address Bar.
2. Press **Enter**.
3. Select **Properties**.
4. If prompted, enter the *Administrator User Name (admin)* and *Password (1111)*, and select **Login**.
5. Click **Properties**.
6. In the **Security** link on the left hand side select the **System Security** link.
7. Select the **Feature Management** link in the directory tree.
8. Select the **Firmware Upgrade Enable** box.
9. Click **Apply** to save the changes.
10. Select **Support**.
11. Select the **Firmware Upgrade** link.
12. Select the **Upgrade Wizard** button. The **Firmware Upgrade Wizard** screen appears.
13. In the **Firmware File** area:
 - a. Select **Browse**.
 - b. Locate and select the software upgrade **.hd** file obtained earlier.
 - c. Select **Open**.
14. Select **Apply** to send the file to the machine.

15. The file will be sent to the printer and will disable the printing functionality. The web browser will become inactive and you will not be able to access the machine via this method until the upgrade has completed and the machine has rebooted. The upgrade should take no longer than 30 minutes.
16. Once the machine has completed the upgrade it will reboot automatically. The configuration report will print (if enabled). Check the configuration report to verify that the software level has changed.

Troubleshooting

8

This chapter contains procedures and actions to resolve problems you may encounter with your printer.

- [Problem Solving Procedure](#) on page 102
- [Printing](#) on page 103
- [Connectivity](#) on page 104

Problem Solving Procedure

This section enables you to identify the network-related machine problems. Use the following steps to identify and solve the problem. If the problem is not network related, refer to the User Guide for corrective action.

1. Resolve any local printer problems first. Perform the corrective action that is recommended by the User Guide. Do not attempt to resolve a network problem if the local printer functions are not operating correctly.
2. Check that the machine has power and it is switched on.
3. Check that the network cable is connected to the machine.
4. Check that the network cable is connected to the workstation.
5. Check that the correct printer driver for the machine is selected at the workstation.
6. Check that the software application being used to send print jobs is set up correctly.
7. If printing is not available from a workstation, re-install a printer driver on the workstation.
8. Call the local Xerox Welcome Center, where a representative will assist in the diagnosis and solution of the problem.

Printing

I cannot print to the machine.	<ol style="list-style-type: none"> 1. Ensure that there are no network connectivity problems with the Xerox machine. 2. Print a Test Page from the Xerox printer driver to the machine to verify connectivity. 3. Ensure that the print server is functional. 4. Print a Configuration Report at the Xerox machine to ensure that the network address information is correctly configured. See Print a Configuration Report on page 16. 5. Ensure that the correct printer driver is installed on the User's workstation.
The machine is printing slowly.	<ol style="list-style-type: none"> 1. Configure the Xerox machine with an Ethernet speed that matches the speed set on your hub or switch. 2. Ensure that the correct printer driver is installed on the User's workstation.

Connectivity

<p>The machine is not available on the network.</p>	<p>Network Connectivity</p> <ol style="list-style-type: none"> 1. Print a Configuration Report at the machine to ensure that the network address information is correctly configured. See Print a Configuration Report on page 16. 2. Connect to the machine's IP address from a web browser to check connectivity. 3. Ensure that the machine is configured with an Ethernet speed that matches your hub or switch. 4. Ensure that the machine's Ethernet cable is correctly patched in at the hub/switch. 5. Ensure that the machine's Ethernet cable is functioning. 6. Ensure that other computers on your network can communicate.
<p>The machine has an incorrect IP Address.</p>	<p>Test TCP/IP Connectivity</p> <ol style="list-style-type: none"> 1. Ping the address of the machine from a command prompt window. 2. If you receive a reply, the machine may be configured with a duplicate IP Address. Unplug the Ethernet cable from the machine and ping the IP Address again. If you still receive a reply, re-connect the Ethernet cable. 3. If you do not receive a reply when you ping the machine's IP Address, check the network cables at the machine and the computer that you are using to ping the machine. 4. Configure the Xerox machine with an Ethernet speed that matches the speed set on your hub or switch. 5. Ensure that the Ethernet cable is correctly patched in at the hub/switch. 6. Try a different Ethernet cable at the machine. 7. Check that other machines/computers can communicate over the network.

	<p>Incorrect IP Address</p> <p>In certain situations you may find the machine is configured with an incorrect IP Address or displays a network error. There are several possible causes of this:</p> <ol style="list-style-type: none"> 1. When the machine boots up it discovers that it has been configured with an IP Address that is owned by another machine. <p>Solution - Configure the machine with a unique IP Address.</p> <ol style="list-style-type: none"> 2. The machine cannot connect to the DHCP or BootP server. The machine will use AutoIP to establish an address. <p>Solution - Check the DHCP or BootP server works correctly. Configure the printer with a static IP Address.</p> <ol style="list-style-type: none"> 3. The printer has an IP Address of 169.254.x.x. <p>Solution - The machine cannot connect to the DHCP or BootP server. The printer has used AutoIP to establish an address. Check the DHCP or BootP server works correctly. Configure the printer with a static IP Address.</p> <p>Note AutoIP (AutoNetting) When DHCP or BootP are enabled on the machine, AutoIP is automatically enabled. If a DHCP or BootP server does not respond with an IP Address, the machine will use AutoIP to configure its own IP Address in the 169.254.0.0 range. When the machine connects to the DHCP or BootP server it will obtain a dynamic IP Address as normal. If the machine is configured with a static IP Address, it will not use AutoIP.</p>
<p>I cannot access Internet Services.</p>	<ol style="list-style-type: none"> 1. Ensure that the Xerox machine is configured with a valid IP Address. 2. Ensure HTTP Activate is enabled within the Menu > Network Setup area at the machine control panel. 3. Within your web browser, set the option to bypass the proxy server for local addresses.

Appendix A

Management Information Base (MIB)

A MIB (Management Information Base) is a database of objects that can be accessed by a network management system.

Xerox public MIBs are located at: <http://origin-download.support.xerox.com/pub/drivers/MIBs/>

Customers can download the MIBs and use their SNMP tool to obtain the required information.

Note All information presented on the control panel display is also presented in the MIB and CentreWare Internet Services. This includes e-mail addresses, phone numbers and passwords as they are being entered. If this presents a security concern, Xerox recommends enabling the SNMPv3 and the IP Filtering security feature in order to control remote access to the device. For SNMPv3, refer to [SNMPv3](#) on page 71 and for IP Filtering, refer to [IP Filtering](#) on page 73.

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