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Xerox® EC70 Color Copier/Printer System Administrator Guide

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Introduction

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- [Configuration Steps](#) 12
- [More Information](#) 13

Configuration Steps

When you configure the printer for the first time, Xerox suggests that you follow these steps in this order:



Note: Most configuration settings are located on the Properties tab in CentreWare Internet Services. If the printer is locked, log in as the system administrator.

1. Connect an Ethernet cable from your printer to the network.
2. Confirm that the printer is recognized on your network. By default, the printer is configured to receive an IP address from a DHCP server over a TCP/IP network.
3. Complete the Installation Wizard to provide the basic information such as your location, time zone, and date and time preferences.
4. Print a Configuration Report listing the current configuration of the printer. Review the report and locate the IP address of the printer.
5. Open a Web browser and type the IP address of the printer to access CentreWare Internet Services. CentreWare Internet Services is administration and configuration software installed on the Embedded Web Server of the printer.
6. Print the Configuration Checklist. The Configuration Checklist list provides space for you to write down the important information as you go through the configuration process. Use it to record information about your network settings, including passwords, network paths, and server addresses.
7. Configure Authentication.
8. Configure Security.
9. Enable services in CentreWare Internet Services.
10. Configure Print, Scan, and Fax features.
11. Configure Accounting.

More Information

For more information about the printer and its capabilities, refer to the following sources:

Information	Source
Quick User Guide	Software and Documentation disk www.xerox.com/support
User Guide (PDF)	Software and Documentation disk www.xerox.com/support
Recommended Media List	www.xerox.com/paper (United States)
Printer Management Tools	www.xerox.com/support
Online Support Assistant	www.xerox.com/support
Technical Support	www.xerox.com/support

Initial Setup

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Physical Connection

To connect the printer:

1. Connect the power cable to the printer, and plug it into an electrical outlet.
2. Connect one end of a Category 5 or better Ethernet cable to the Ethernet port in the back of the printer. Connect the other end of the cable to a correctly configured network port.
3. If you have purchased and installed the Fax Hardware Kit, connect the printer to a correctly configured telephone line.
4. Power on the printer.

Initial Setup at the Control Panel

The Installation Wizard

The first time the printer is turned on, the Installation Wizard starts. The wizard prompts you with a series of questions to help you configure basic settings for the printer. You are prompted to:

- Set the current date and time.
- Select your local time zone.
- Configure certification, system access level, SMTP, and LDAP.

Configuration Report

After you complete the installation wizard, you can obtain a Configuration Report. The Configuration Report lists the current settings of the printer. By default, a Configuration Report prints at startup.

Printing the Configuration Report

To print a configuration report:

1. At the printer Control Panel, press the **Machine Status** button and touch the **Machine Information** tab.
2. Touch **Print Reports**.
3. Touch **Printer Reports**.
4. Touch **Configuration Report** and press the **Start** button.

System Administrator Access at the Control Panel

To configure the printer from the control panel, press the **Machine Status** button, then touch the **Tools** tab. If the printer is locked, log in as the System Administrator.

To log in as a System Administrator:

1. At the printer control panel, press the **Log In/Out** button.
2. Type `admin`, then touch **Next**.
3. Type the administrator password, then touch **Enter**.



Note: The original password is the device serial number. When the administrator password is set to the device serial number, administrator functions are not accessible. If the administrator password is set to the device serial number, at the next administrator login attempt, you are prompted to change the administrator password. After you change the administrator password, you have full access to administrator privileges.

Locking or Unlocking the Printer

To lock or unlock the printer:

1. Log in as a System Administrator.
2. At the printer Control Panel, press **Machine Status** and touch the **Tools** tab.
3. Touch **Authentication / Security Settings** → **System Administrator Settings** → **System Administrators Login ID**.
4. Touch **On** to lock the printer or **Off** to unlock. If you touched **On**, touch **Keyboard** and enter the new Login ID of System Administrator. Touch **Save**. Touch **Keyboard**, re-enter the ID, and **Save**.

To confirm the change, touch **Yes**.

5. Touch **Save**.

Manually Setting the Ethernet Interface Speed of the Printer

The Ethernet interface of the printer automatically detects the speed of your network. If your network is connected to another auto-sensing device, such as a hub, the hub do not detect the correct speed. To ensure that the printer detects the correct speed of your network, refer to the configuration page. To view the configuration page, refer to [Printing the Configuration Report](#).

To set the speed of the Ethernet interface of the printer manually:

1. Log in as a System Administrator.
2. At the printer Control Panel, press **Machine Status**, then touch the **Tools** tab.
3. Touch **System Settings**→**Connectivity + Network Setup**→**Protocol Settings**.
4. Touch **Ethernet Settings** and **Change Settings**.
5. Touch **Ethernet Rated Speed** and **Change Settings**.
6. Select the Speed to match the speed set on your hub or switch.
7. Touch **Save**, then **Close**.

Assigning a Network Address

By default, the printer automatically acquires a network address from a DHCP server. To assign a static IP address, configure DNS server settings, or configure other TCP/IP settings. Refer to [TCP/IP](#).

Viewing Services and Options

To view which services and options are enabled or installed:

1. At the printer control panel, press the **Machine Status** button, then touch the **Machine Information** tab.
2. Touch **Machine Configuration**.

CentreWare Internet Services

CentreWare Internet Services is an application on the Embedded Web Server of the printer that allows you to configure and administer the printer from a Web browser on any computer.

Accessing CentreWare Internet Services

Before you begin:

- Enable TCP/IP and HTTP to access CentreWare Internet Services. If you disable either of these services, enable them at the printer before you can access CentreWare Internet Services.
- To determine the IP address of the printer, obtain a Configuration Report. To verify the IP address of the printer, press the **Machine Status** button on the printer Control Panel.

To access CentreWare Internet Services:

1. Open a Web browser.
2. Type the IP address of the printer in the address field. Click **Enter**. The device Internet Services screen appears.
3. Click the **Properties** tab.

If prompted, enter the user name and password of the administrator account.



Note: The default administrator user name is admin and the original password is the device serial number. When the administrator password is set to the device serial number, administrator functions are not accessible. If the administrator password is set to the device serial number, at the next administrator login attempt, you are prompted to change the administrator password. After you change the administrator password, you have full access to administrator privileges.

4. Click **Log In**. It enables you to access any Administrator functions within Internet Services.

Enabling Services and Options

Enable some services and options before they can be used. To enable these special services and options, use either the Control Panel or CentreWare Internet Services.

Enabling Services and Options at the Control Panel

To enable services and options at the printer Control Panel:

1. Log in as a System Administrator.
2. At the printer Control Panel, press the **Machine Status** button and then touch the **Tools** tab.
3. Touch **System Settings**→**Common Service Settings**→**Maintenance**.
4. Touch **Software Options**.
5. Touch **Keyboard**.
6. Type the code and touch **Save**.
7. Touch **Close**.

Enabling Features in CentreWare Internet Services

To enable services and options in CentreWare Internet Services:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Feature Enablement**.
2. Type the unique function code.
3. Click **Apply**.
4. Click **Reboot**.

Changing the System Administrator Password

For security purposes, Xerox recommends that you change the default System Administrator password after you configure the printer. Ensure that you store the password in a secure location.

To change the Administrator password:

1. In CentreWare Internet Services, click **Properties**→**Security**→**On Demand Overwrite**→**System Administrator Settings**.
2. If needed, change the Login ID of Administrator.
3. For Administrator's Passcode, type the new password.
4. Retype the password to verify.
5. If needed, change the maximum number of login attempts.
6. Click **Apply**.

Using the Configuration Overview Page

In CentreWare Internet Services, the Configuration Overview page provides shortcuts to commonly accessed pages under the Properties tab. To access the Configuration Overview page, click **Properties**→**Configuration Overview**.

Assigning a Name and Location to the Printer

The Description page provides a place to assign a name and location to the printer for the future reference.

To assign a printer name and location:

1. In CentreWare Internet Services, click **Properties**→**Description**.
2. For Machine Name, type a name for the printer.
3. For Location, type the location of the printer.
4. If needed, type the contact information of the System Administrator and the email address of the printer in the provided fields.
5. Click **Apply**.

Paper Tray Settings

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Accessing Paper Tray Settings

To access Paper Tray Settings to manage the paper options that are available at the Control Panel and that appears on the Paper Tray Settings screens:



Note: To access Paper Tray Settings, log in as Administrator.

1. At the printer Control Panel, log in as Administrator, press the **Machine Status** button, and touch the **Tools** tab.
2. Under the Group heading, touch **System Settings**→**Common Service Settings**.
3. Under the Features heading, touch **Paper Tray Settings**.

Setting Custom Paper Name or Color

From the Paper Tray Settings screen, you can select the Custom Paper Name/Color feature to set a custom name for paper loaded in the machine. You can use a maximum of twelve characters for each custom paper name.



Note: Use this feature for plain paper which is 64–105 g/m² only.

To set a custom paper name or color:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select the option **Custom Paper Name/Color**.
3. Select the paper type to be renamed and touch **Change Settings**.
4. Enter the name that you want for Custom Paper. Touch **Save** to save the name and return to the previous screen.
You can name Custom Paper Types 1–5, available from the **Paper Type** option, and Custom Paper Colors 1–5, available from **Paper Tray Attributes**→**Paper Color**. You can use up to 23 characters such as letters, numbers, and symbols for each name and color. For example, you can use a name that shows its usage, such as Color for colored paper, and Covers for bond paper.

Paper Catalog

The Paper Catalog allows you to define a unified set of stocks for an entire fleet of Xerox® Color EC70 Printer. The system administrator defines the paper stocks on the print server. The most commonly used paper stocks appear at the top of the list in the Paper Catalog. When loading media in a paper tray, the user can use the Paper Catalog to assign a specific paper stock to the tray. When you submit a print job or copy job, the user can use the Paper Catalog to choose a specific paper stock for the job.

To be available for use, enable the Paper Catalog. You can enable or disable Paper Catalog at the Control Panel or in CentreWare Internet Services using the following codes:

- Enable: *3361333451
- Disable: *3361333450



Note: When you enter the code, ensure to include the asterisk (*).

For enablement instructions, refer to [Enabling Services and Options](#).

For details and setup instructions, refer to www.efi.com.

Assigning a Paper Stock to a Tray Using Paper Catalog

To assign a paper stock to a tray using the Paper Catalog:

1. Send a .csv file through the JDF to the appropriate location on the print server.
The stock list in the .csv file replaces the Stock Library and is transferred to the printer for use during tray programming.

2. Open the paper tray and load the paper stock.

3. Close the paper tray and touch **Paper Catalog** on the printer Control Panel touch screen.

4. Select the appropriate paper stock from the list and touch **Save**.

The Control Panel touch screen shows the paper stock type loaded in the tray.

5. Touch **Confirm**.

The stock is associated with the tray and the association is reflected in the tray settings on the print server.

Establishing Start-up Attributes

You can change and set the paper tray attributes that are displayed on the control panel when the machine first starts up.

To modify the paper tray attributes available at startup:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select the **Paper Tray Attributes on Setup** screen.
3. Select **Enabled** or **Disabled**, then select **Save**.

Paper Type Priority

You can define the priority of the trays to use when paper of the same size and the same orientation is set in multiple trays for automatic tray selection. Auto paper selection is a tray that contains the appropriate paper for which the machine automatically selects the paper for copying or printing. The paper type setting is prioritized over the paper tray priority settings. If different paper types appear in the same priority sequence, the paper tray priority sequence determines the paper. A tray that contains paper type set to Auto Paper Off is not included in automatic tray selection.



Note: Not all print servers adhere to this feature setting.

Setting Paper Type Priority

To set the paper type priority:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Touch **Paper Type Priority**.
3. Select the option you need. The following table lists the current default settings for the paper type priority:

Item	Current Setting
Plain	First
Plain reloaded	Auto paper Off
Recycled	Second
Custom type 1	Auto paper off
Custom type 2	Auto paper off
Custom type 3	Auto paper off
Custom type 4	Auto paper off
Custom type 5	Auto paper off

4. Touch **Change Setting**.
5. Select the feature you want and then touch **Save**→**Close**.

Setting Paper Tray Attributes

From the Paper Tray Settings area, you can set the size and type of paper loaded in the trays.

To set paper tray attributes:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select **Paper Tray Attributes**. The following table lists the current default settings.
3. Select the tray you want to change.
4. Touch **Change Settings** for the tray you want.
5. Select the paper type, paper size, and paper color. For Auto Paper, select color by using the up or down scroll arrow.

The following table lists the current default settings for the paper tray attributes:

Item	Current Setting
Tray 1	Auto Detect-Plain (64–79 g/m ²)
Tray 2	Auto Detect-Plain (64–79 g/m ²)
Tray 3	Auto Detect-Plain (64–79 g/m ²)
Tray 4	Auto Detect-Plain (64–79 g/m ²)
Tray 5	8 1/2 x 11 in.-Plain (64–79 g/m ²)
Tray 6	Auto Detect-Plain (64–79 g/m ²)
Tray 7	Auto Detect-Plain (64–79 g/m ²)

6. Touch **Confirm** and **Close**.

Change Paper Settings During Loading

From the Paper Tray Settings area, you can set which paper tray attributes are displayed for selection when paper is loaded.

To set which paper tray attributes are available when paper is loaded:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select **Paper Tray Attribute During Loading**.
3. Select **Off** or **On**.
4. Touch **Save**.

Establishing Bypass Tray Defaults

The Paper Tray Settings area allows you to define up to 20 sizes that are displayed when Tray 5 (Bypass) is loaded and in which order they appear.

The following table lists the current paper size default settings:

Item	Current Setting	Item	Current Setting
Paper size 1	8.5 x 11 in. Long Edge (LE)	Paper size 11	A4 LE
Paper size 2	8.5 x 11 in. Short Edge (SE)	Paper size 12	A4 SE
Paper size 3	8.5 x 14 in. SE	Paper size 13	A3 SE
Paper size 4	11 x 17 in. SE	Paper size 14	SRA3 SE
Paper size 5	12 x 18 in. SE	Paper size 15	A5 LE
Paper size 6	5.5 x 8.5 in. SE	Paper size 16	A5 SE
Paper size 7	8 x 10 in. LE	Paper size 17	8.5 x 13 in. SE
Paper size 8	5 x 7 in. SE	Paper size 18	9 x 11 in. LE
Paper size 9	4 x 6 in. SE	Paper size 19	B4 SE
Paper size 10	13 x 19 in. SE	Paper size 20	B5 SE

The following alternate sizes can be loaded in Tray 5:

- A/B Series Size: A3, A4, A4, A5, A5, A6, B4, B5, B5, B6
- Inch Size includes: 3 x 19 in., 13 x 18 in., 12.6 x 19.2 in., 12 x 18 in., 11 x 17 in., 11 x 15 in., 8.5 x 14 in., 8.5 x 13 in., 8.5 x 11 in., 8 x 10 in., 7.25 x 10.5 in., 5.5 x 8.5 in., 5 x 7 in.
- Others: SRA3 (320 x 450 mm), A4 Cover, 9 x 11 in., 215 x 315, 8K (270 x 390 mm), 16K (195 x 270 mm), 100 x 148 mm, 148 x 200 mm, 4 x 6 in., Envelope 120 x 235, Envelope 240 x 332, Envelope 229 x 324, Envelope 162 x 229
- Custom Size

To define and set the paper sizes that are displayed when Tray 5 is loaded:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select **Tray 5 - Paper Size Defaults**.
3. Use the up or down arrow to select the option that you want to change.
4. Touch **Change Setting**.
5. Select the feature that you want. Select from **A/B Series Size**, **Inch Size**, **Others**, or **Custom Size**.
6. Touch **Save**→**Close**.

Customizing the Paper Supply Screen

Use this feature to specify whether Usage or Size Detection, shown under Paper Tray Attributes, displays on the Paper Supply Screen.

To define the paper tray attributes that appear on the paper supply screen:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select the **Customize Paper Supply** screen.
3. Select the required option:
 - Usage (Auto Paper Select): Displays the setting in Auto Paper Select.
 - Disabled: Does not display the items specified in Paper Size.
 - Size Detection: Displays the setting in Paper Size.
4. Touch **Save** and touch **Close**.

Paper Tray Priority

Set the priority of the trays to use when paper of the same size and the same orientation is set in the multiple trays or print data does not include the paper tray information for automatic tray selection.

Auto paper selection is a tray that contains the appropriate paper for which the machine automatically selects the paper for copying or printing. This setting applies to Trays 1–4 and 6 (optional). You cannot apply this setting to Tray 5.



Note: Not all print servers adhere to this feature setting.

Setting Paper Tray Priority

To set the paper tray priority:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select **Paper Tray Priority**. The following table lists the current default priority settings. The current, default priority setting for trays is: **Paper Tray Priority = 6>7>4>3>1>2>5**.
3. Touch **Change Settings**.
4. Touch each **Tray** and set the corresponding **Priority**.
5. Touch **Save**.
6. Touch **Close**.

Managing Auto Tray Switching

From the Paper Tray Settings area, you can set the alternative tray or paper to use when the selected tray runs out of paper.



Note: Not all print servers support this Auto Tray Switching feature setting.

To manage auto tray switching controls:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Use the up or down arrow to select **Auto Tray Switching Control**.
3. The available options are **Enable during Auto Select** and **Enable for Same Paper Type/Color**. If **Enable during Auto Select** is selected, the machine switches the tray when **Auto Select** is selected in the Copy screen or in the paper selection of the print driver.

You can select **Targeted Paper Type (Copy Jobs)** and select paper types. When **According to Priority Assigned** is selected, the paper type is determined according to the settings in Paper Type Priority. When you select **Selected Paper Type Only**, you can specify the paper type.

4. Touch **Change Setting**, then make the selection. Touch **Save**.
 5. Touch **Close**.
- The machine does not switch the tray automatically in the following cases:

- Tray 5 is selected.
- The tray that contains paper other than plain paper, recycled paper, or plain reload paper is selected.
- The tray that contains paper that is set as **Auto paper off** in Paper Type Priority is selected.

Image Quality

The Image Quality feature provides a way to fine-tune the machine for paper weight.

You can specify the image quality processing method for the following paper types: Plain, Recycled, Plain Reload, Punched, Heavyweight, Heavyweight Reload, Hole Punched Heavyweight 1, Gloss, Gloss Reload, HW Gloss, HW Gloss Reload, XHW Gloss, XHW Gloss Reload, Labels, X-HW Labels, Tab Stock, Postcards, and Custom Paper 1–5.

When you copy or print a document, the machine applies the image quality settings defined in the Paper Tray Attributes area of the control panel. The type of paper set in Paper Tray Attributes, and the image quality processing method specified for that type of paper, control the amount of ink transfer, speed, and fuser temperature applied.



Note: The image quality setting for these paper types changes the weight range displayed for each paper type.

Specifying Image Quality Settings

You can select the media weight range to apply to a print or copy job that optimizes the image quality of the machine output. The following table shows the available default settings that you can select and apply.

To specify image quality settings:

1. At the printer Control Panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Use the scroll down arrow to advance and select **Image Quality**.
3. Select the paper type you want to change.
4. Touch **Change Settings**. You can see the different Image Quality settings for the paper type you selected. These represent the media weight range.

Paper Tray Settings

5. Select a different setting. Touch **Save**→**Close**.

For all Custom paper types, the options available for display include Plain A, Plain B, and Plain C paper.



Note: For all Custom paper types, the options available for display include Plain A, Plain B, and Plain C paper.

Item	Current Setting	Options Available for Display
Plain	Plain A (64–79 g/m ²)	Plain A (64–79 g/m ²) Plain B (80–90 g/m ²) Plain C (91–105 g/m ²)
Plain RL	Plain A Reloaded (64–79 g/m ²)	Plain A Reloaded (64–79 g/m ²) Plain B Reloaded (80–90 g/m ²) Plain C Reloaded (91–105 g/m ²)
Recycled	Recycled A (64–79 g/m ²)	Recycled A (64–79 g/m ²) Recycled B (80–90 g/m ²) Recycled C (91–105 g/m ²)
Hole Punched	Plain A (64–79 g/m ²)	Plain A (64–79 g/m ²) Plain B (80–90 g/m ²) Plain C (91–105 g/m ²)
HW 1	Heavyweight 1A (151–176 g/m ²)	Heavyweight 1A (106–128 g/m ²) Heavyweight 1B (129–150 g/m ²) Heavyweight 1C (151–176 g/m ²)
HW 1 RL	HW 1A Reloaded (106–128 g/m ²)	HW 1A Reloaded (106–128 g/m ²) HW 1B Reloaded (129–150 g/m ²) HW 1C Reloaded (151–176 g/m ²)
Punched HW 1	Punched HW 1A (106–128 g/m ²)	Punched HW 1A (106–128 g/m ²) Punched HW 1B (129–150 g/m ²) Punched HW 1C (151–176 g/m ²)
Coated 1	Coated 1A (129–150 g/m ²)	Coated 1A (106–128 g/m ²) Coated 1B (129–150 g/m ²)
Coated 1 RL	Coated 1A RL (106–128 g/m ²)	Coated 1A Reloaded (106–128 g/m ²) Coated 1B Reloaded (129–150 g/m ²)
Coated 2	Coated 2A (177–220 g/m ²)	Coated 2A (151–176 g/m ²) Coated 2B (177–220 g/m ²)
Coated 2 RL	Coated 2A (221–256 g/m ²)	Coated 2A Reloaded (151–176 g/m ²) Coated 2B Reloaded (177–220 g/m ²)

Item	Current Setting	Options Available for Display
Coated 3	Coated 3A (221–256 g/m ²)	Coated 3A (151–176 g/m ²) Coated 3B (177–220 g/m ²)
Coated 3 RL	Coated 3A RL (221–256 g/m ²)	Coated 3A Reloaded (221–256 g/m ²) Coated 3B Reloaded (257–300 g/m ²)
Labels	Labels 1A (106–128 g/m ²)	Labels 1A (106–128 g/m ²) Labels 1B (129–150 g/m ²) Labels 1C (151–176 g/m ²)
X-HW Labels	Labels 3A (221–256 g/m ²)	Labels 3A (221–256 g/m ²) Labels 3B (257–300 g/m ²)
Tab Stock	Tab Stock 1A (106–128 g/m ²)	Tab Stock 1A (106–128 g/m ²) Tab Stock 1B (129–150 g/m ²) Tab Stock 1C (151–176 g/m ²)
Transfer	Transfer B (129–150 g/m ²)	Transfer B (129–150 g/m ²) Transfer C (151–176 g/m ²)
Custom 1	Plain A (64–79 g/m ²)	Recycled A (64–79 g/m ²) Recycled B (64–79 g/m ²) Recycled C (64–79 g/m ²)
Custom 2	Plain A (64–79 g/m ²)	Recycled A (64–79 g/m ²) Recycled B (64–79 g/m ²) Recycled C (64–79 g/m ²)
Custom 3	Plain A (64–79 g/m ²)	Recycled A (64–79 g/m ²) Recycled B (64–79 g/m ²) Recycled C (64–79 g/m ²)
Custom 4	Plain (64–79 g/m ²)	Recycled A (64–79 g/m ²) Recycled B (64–79 g/m ²) Recycled C (64–79 g/m ²)
Custom 5	Plain A (64–79 g/m ²)	Recycled A (64–79 g/m ²) Recycled B (64–79 g/m ²) Recycled C (64–79 g/m ²)


Image Quality and Calibration

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- [Calibrating Image Color](#) 48
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Setting Image Quality for the Scanner


When you copy, you can select the image quality processing method and parameters that the scanner uses and applies to the copy job. For example, you can enhance the color reproduction when copying photos.

 **Note:** To associate a media type and weight with a particular image quality setting, refer to [Paper Tray Settings](#).

To set copy image quality:

1. At the printer control panel, log in as Administrator, then access the Paper Tray Settings screen. For more information, refer to [Accessing Paper Tray Settings](#).
2. Select **Common Service Setting** → **Image Quality Adjustment** → **Image Quality**.
3. Select one of the features from the following table.

Feature	Default Setting
<p>Photo and text Recognition: Allows you to change the sensitivity level that the machine uses to determine a document as text or photos. To access this setting, from the Image Quality screen, for Original Type, select Photo and Text.</p> <ul style="list-style-type: none"> • Selecting More Text enables the machine to identify easily fine print as text. • Selecting More Photo enables the machine to identify easily halftone images from newspapers and advertisements as photos. 	Normal
<p>Output Color Recognition: Allows you to change the sensitivity level from the five levels that the machine uses to determine a document as monochrome or color. This setting is used when you select Auto Detect for Output Color on the Copy screen.</p> <ul style="list-style-type: none"> • Selecting More Black and White enables the machine to identify monochrome documents easily. • Selecting More Color enables the machine to identify color documents easily. 	Normal
<p>Photo Reproduction level: When Original Type on the Image Quality screen is set to Photo and Text, you can adjust the color reproduction level in the areas that the machine identifies as photos.</p> <ul style="list-style-type: none"> • Selecting More Text yields a bold copy effect, which emphasizes the dense parts of an image. • Selecting More Photo softens the image gradation of an image, which enhances the reproducibility of subtle colors. 	Normal
<p>Background Suppression (color copy): Allows you to set the method of background suppression to be used when making color copies. Background suppression is the function to detect the density of colors and suppress the scan of background colors when a document has background colors on colored paper.</p> <ul style="list-style-type: none"> • Select High Speed to sample a section of the document and detect the background color. • Select High Quality to conduct a prescan and sample the whole document to detect the background color. 	High Quality
<p>Background Suppression (BIW copy): Background suppression is the function to detect the density of colors and suppress the scan of background colors when a document has background colors on colored paper.</p> <ul style="list-style-type: none"> • Select High Speed to sample a section of the document and detect the background color. 	High Quality

Feature	Default Setting
<ul style="list-style-type: none"> Select High Quality to conduct a prescan and sample the whole document to detect the background color. <p> Important: When you select High Quality and Corner Shift is selected for Image Shift with a reduce/enlarge ratio of 60 or less, a part of the image is not printed, or the printer outputs blank paper.</p>	
Background Suppression (scan jobs): Allows you to set the method of background high-quality suppression to be used for scan operations. Set how the machine detects density and deletes the background color.	High Quality
Image Enhancement: Select On to give the image a smoother appearance when printed.	On

4. Touch **Change Settings**.
5. Make a new selection from the available options.
6. Touch **Save→Close**.

Calibrating Image Color



Note: When you perform this calibration process, it affects only those jobs printed at the printer control panel. The calibration process does not apply to jobs that come from the print servers.

When color gradation of a printed image shift, you can use the Calibration feature at the control panel to calibrate the color of the image and maintain quality of the output at a certain level.

To calibrate the image color:

1. At the printer control panel, log in as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Select **Common Service Settings**→**Image Quality Adjustment**→**Calibration**. Read the directions on the touch screen and follow the steps.
3. From the Calibration screen, select the screen type to calibrate.



Note: For optimal color, calibrate all four screen types.

4. Load A3, A4, 11 x 17 in. or 8.5 x 11 in. paper, then choose the paper supply that you need.
5. To print the calibration chart for the color correction, select **Start** on the touch screen.
6. Continue to follow the steps on the touch screen.
7. To perform calibration, place the calibration chart face down with both magenta patches against the left edge of the document glass.
8. To prevent light from bleeding through the sheet, place five sheets or more of blank white paper over the chart.
9. Lower the document glass, then select **Start** on the touch screen.
10. Select **Confirm**.
11. Select **Target**, then specify the job types that you want the calibration to impact. Select from **Copy and Print jobs**, **Copy Jobs Only**, **Print Jobs Only**, or **None**.
12. Touch **Save**.
13. Continue to calibrate another screen type, or touch **Close**.

Two-Sided Color Scanning Calibration

Calibrating Two-Sided Color Scanning

1. At the printer Control Panel, log in as Administrator, press the **Machine Status** button, and touch the **Tools** tab.
2. Select **Common Service Settings**→**Image Quality Adjustment**→**2 Sided Color Scanning Calibration**.
3. Touch **Print Chart** and select a **Paper Supply** location. Touch **Save**.
4. Press **Start**.
5. Follow the on-screen directions.
6. Touch **Confirm**.
7. Touch **Close**.

Restoring Previous Color Values for the Duplex Automatic Document Feeder (DADF)

1. At the printer Control Panel, log in as Administrator, press the **Machine Status** button, and touch the **Tools** tab.
2. Select **Common Service Settings**→**Image Quality Adjustment**→**2 Sided Color Scanning Calibration**.
3. Touch **Restore Previous Values** and touch **Start**.
4. Touch **Close**.

Restoring Factory Default Color Values for the Duplex Automatic Document Feeder (DADF)

1. At the printer Control Panel, log in as Administrator, press the **Machine Status** button, and touch the **Tools** tab.
2. Select **Common Service Settings**→**Image Quality Adjustment**→**2 Sided Color Scanning Calibration**.
3. Touch **Restore Factory Default Values** and touch **Start**.
4. Touch **Close**.

Network Configuration


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TCP/IP


Transmission Control Protocol (TCP) and Internet Protocol (IP) are two protocols within the Internet Protocol Suite. IP manages the transmission of messages from computer to computer while TCP manages the actual end-to-end connections.

You can configure IPv4 settings at the printer Control Panel or through CentreWare Internet Services. You can configure IPv6 only through CentreWare Internet Services.

 **Note:** You can configure IPv4 settings at the printer Control Panel or through CentreWare Internet Services. You can only configure IPv6 through CentreWare Internet Services.

Enabling TCP/IP

TCP/IP is enabled by default. If you disable TCP/IP, enable it at the printer Control Panel before you can access CentreWare Internet Services.

 **Note:** TCP/IP is enabled by default. If you disable TCP/IP, before you access CentreWare Internet Services, enable TCP/IP at the printer Control Panel.

To enable TCP/IP:

1. At the printer Control Panel, log in as System Administrator, press the **Machine Status** button, and touch the **Tools** tab.
2. Touch **System Settings**→**Connectivity & Network Setup**→**Protocol Settings**.
3. Touch **TCP/IP - Common Settings**.
4. Touch **Change Settings**.
5. Select the item you want to change and touch **Change Settings**.
6. To enable both IPv4 and IPv6, touch **IPv4 Mode**, **IPv6**, or **Dual Stack**.
7. Touch **Save**.
8. Touch **Close**.

Configuring TCP/IP Settings at the Control Panel

Manually Configuring an IPv4 Network Address

To configure an IPv4 network address:

1. At the printer Control Panel, press the **Machine Status** button, and then touch the **Tools** tab.
2. Touch **System Settings**→**Connectivity and Network Setup**→**Protocol Settings**.
3. Select **TCP-IP - Network Settings** and touch **Change Settings**.
4. Select **IPv4 - IP Address Resolution**, and touch **Change Settings**.
5. Touch **Static**, then touch **Save**.
6. Touch **IPv4 - IP Address**, and touch **Change Settings**.
7. Type the static IP address using the touch-screen keypad, and touch **Save**.
8. Touch **IPv4 - Subnet Mask**, and touch **Change Settings**.

9. Type the subnet mask using the touch-screen keypad, and touch **Save**.
10. Touch **IPv4 - Gateway Mask**, and touch **Change Settings**.
11. Type the gateway mask using the touch-screen keypad, and touch **Save**.

Manually Configuring an IPv6 Network Address

To configure an IPv6 network address:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **Connectivity & Network Setup**→**Protocol Settings**.
3. Touch **IPv6 Address Manual Configuration**, then touch **Change Settings**.
4. Touch **Enabled**, then touch **Save**.
5. Touch **Manually Configured IPv6 Address**, then touch **Change Settings**.
6. Type the static IP address using the touch-screen keypad, and touch **Save**.
7. Touch **Manually Configured IPv6 Address Prefix**, and touch **Change Settings**.
8. Type the prefix using the touch-screen keypad, and touch **Save**.
9. Touch **Manually Configured IPv6 Address Gateway**, and touch **Change Settings**.
10. Type the gateway using the touch-screen keypad, and touch **Save**.

Configuring IPv4 Dynamic Address Settings

To configure IPv4 dynamic address settings:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Connectivity & Network Setup**→**Protocol Settings**.
3. Touch **IPv4 - IP Address Resolution**, and touch **Change Settings**.
4. Touch **DHCP**, **DHCP/AutoIP**, **BOOTP**, or **RARP**, then touch **Save**.

Configuring IPv6 Dynamic Address Settings

To configure IPv6 dynamic address settings at the Control Panel:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Connectivity & Network Setup**→**Protocol Settings**.
3. Touch **TCP/IP-Network Settings** and touch **Change Settings**.
4. Touch **IPv6 Address Manual Configuration**, and touch **Change Settings**.
5. Touch **Disabled**, then touch **Save**.
6. Touch **Automatically Configured IPv6 Address**, then to see the acquired IPv6 address information, touch **Change Settings**.

Configuring DNS and DDNS Settings


Domain Name System (DNS) and Dynamic Domain Name System (DDNS) is a system that maps host names to IP addresses.

To configure DNS settings at the Control Panel:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Connectivity & Network Setup**→**Protocol Settings**.
3. Touch **IPv4 DNS Server Setup**, or **IPv6 DNS Server Setup**, then touch **Change Settings**.
4. Do one of the following:
 - a. To allow your DHCP server to provide the DNS server address, on the **Get IP Address from DHCP** screen, touch **Enabled**, then touch **Save**.
 - b. To provide the DNS server address manually, touch **Preferred DNS Server IP Address** then touch **Change Settings**. Type the DNS server address, then touch **Save**.


Configuring Settings for IPv4


IPv4 can be used in addition to or in place of IPv6.

 **Note:** If both IPv4 and IPv6 are disabled, you cannot access CentreWare Internet Services. Re-enable TCP/IP at the printer Control Panel before you can access CentreWare Internet Services. Disabling TCP/IP or changing the IP address also disables any dependent protocols.

To configure settings for IPv4:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**TCP/IP**.
IPv4 is enabled by default.
2. Type a unique Host Name for your printer.
3. Select the method that you require for obtaining a dynamic IP address from the IP Address Resolution menu, or select **Static** to define a static IP address.
4. If you select **Static**, type the IP Address, Subnet Mask, and Gateway Address in the appropriate fields.

 **Note:** If you select BOOTP or DHCP, you cannot change the IP address, Subnet Mask, or default gateway.

 **Note:** If you select RARP address resolution mode, you cannot change the IP address.

5. Type a valid Domain Name.

Configuring TCP/IP Settings in CentreWare Internet Services

If the printer has a valid network address, you can configure TCP/IP settings in CentreWare Internet Services.

DNS Configuration for IPv4

To configure settings for IPv4:

1. To allow your DHCP server to provide the DNS server address, select the **Enabled** check box for Obtain DNS Server Address Automatically. To provide the DNS server address manually, clear the check box and type an IP address for the Preferred DNS Server, Alternate DNS Server 1, and Alternate DNS Server 2 in the appropriate fields.



Note: If DHCP or BOOTP is the IP Address Resolution setting, you cannot change the **Domain Name**, **Primary DNS Server**, **Alternate DNS Server 1**, and **Alternate DNS Server 2** settings.

2. To register the host name of the printer in the DNS server, for Dynamic DNS Registration (DDNS), select **Enabled**. If you want to overwrite existing entries in the DNS server, select **Overwrite**.



Note: If the DNS Server does not support dynamic updates, you do not need to enable DDNS.

3. If you want the printer to generate a list of search domains, for Generate Domain Search List Automatically, select **Enabled**. If the option is disabled, type the domain names.
4. Next to **Connection Time-Out**, type the time allowed until the printer stops attempting to connect to the server.
5. If you want the printer to release its IP address when it restarts, for Release Current IP Address When the Host is Powered Off, select **Enabled**.

Zero-Configuration Networking

To configure settings:

1. If the printer cannot connect to a DHCP server to obtain an IP address, select **Self Assigned Address** to allow the printer to assign itself a Link-Local address. Link-Local addresses are between 169.254.0.0 and 169.254.255.255.
2. Click **Apply**.

Configuring Settings for IPv6

IPv6 hosts can configure themselves automatically when connected to a routed IPv6 network using the Internet Control Message Protocol Version 6 (ICMPv6). ICMPv6 performs error reporting for IP along with other diagnostic functions. When first connected to a network, a host sends a link-local multicast router solicitation request for its configuration parameters. If suitably configured, routers respond to this request with a router advertisement packet that contains network-layer configuration parameters.



Note: IPv6 is optional and can be used in addition to or in place of IPv4. If both protocols are disabled, you cannot access CentreWare Internet Services. The host name is the same for IPv4 and IPv6. If you change the host name for IPv6, the host name changes for IPv4 as well.



Note: If both IPv4 and IPv6 are disabled, you cannot access CentreWare Internet Services. Before you can access CentreWare Internet Services, at the printer control panel, re-enable the TCP/IP. Disabling TCP/IP or changing the IP address disables any dependent protocols.

To configure settings for IPv6:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**TCP/IP**.
2. Under **IP Mode**, select **IPv6**, or to use both IPv4 and IPv6, select **Dual Stack**. By default, IPv6 is disabled.
3. Type a unique host name for the printer.
4. If you want to assign an address manually, for **Enable Manual Address**, select **Enabled**. Type the IP Address and Gateway Address.
5. To allow your DHCP server to assign an IP address to the printer, for Get IP Address from DHCP, select **Enabled**.
6. Type the required domain name.



Note: When you click **Apply**, it enables or disables IPv6 and restarts the printer.

DNS Configuration for IPv6

To configure settings for IPv6:

1. Next to **Obtain IPv6 DNS Server Address Automatically**, select **Enabled** to allow the DHCP server to provide the DNS server address.
2. Type an IP address for the **Preferred DNS Server**, **Alternate DNS Server 1**, and **Alternate DNS Server 2**.
3. Next to **Dynamic DNS Registration**, select **Enabled** or select **Overwrite** to replace the existing DNS entry.
4. Next to **Generate Domain Search List Automatically**, select **Enabled** to enable.
5. Type Domain Name 1, 2 and 3.
6. Enter the number of seconds until **Connection Time-Out**.
7. Click **Apply**.

SNMP

Simple Network Management Protocol (SNMP) is used in network management systems to monitor network-attached devices for conditions that require an administrative attention. It consists of a set of standards for the network management that includes an application layer, a database schema, and a set of data objects. Agents, or software modules, reside in the SNMPv3 engine of the printer. A manager is an SNMPv3 management application such as OpenView, that is used to monitor and configure devices on the network. The agent responds to read (GET) and write (SET) requests from the manager and can also generate alert messages, or traps, based on certain events.

SNMP settings can be configured in CentreWare Internet Services. You can also enable or disable Authentication Failure Generic Traps on the printer. SNMPv3 can be enabled to create an encrypted channel for secure printer management.

Enabling SNMP

To enable SNMP:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to **SNMP**, select **Enabled**.
3. If necessary, select **UDP** to enable this transport protocol.


Configuring SNMP


To configure SNMP settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**SNMP Configuration**.
2. Under SNMP Properties, select **Enable SNMP v1/v2c Protocols**, or **Enable SNMP v3 Protocol**.
3. Under Authentication Failure Generic Traps, select **Enabled** if you want the printer to generate a trap for every SNMP request received by the printer that contains an invalid community name.
4. Click **Apply**.

 **Note:** Click **Apply** to save your settings or the protocol remains disabled.

Editing SNMP v1/v2c Properties

 **Note:** For security purposes, Xerox recommends that you change the SNMP v1/v2c public and private community names from the default values.

 **Note:** Any changes made to the GET or SET community names for this printer require corresponding changes to GET or SET community names for each application that uses SNMP to communicate with this printer.

To edit SNMP v1/v2c properties:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**SNMP Configuration**.
2. Under SNMP Properties, click **Edit SNMP v1/v2c Properties**.

3. Type a name up to 256 characters for the Community Name (Read Only) or use the default value of public.

GET returns the password for the SNMP GET requests to the printer. Applications obtaining information from the printer using SNMP, such as CentreWare Internet Services, use this password.

4. Type a name up to 256 characters for the Community Name (Read / Write) or use the default value of private.

SET returns the password for the SNMP SET requests to the printer. Applications that set information on the printer using SNMP, use this password.

5. Type a name up to 256 characters for the default Trap Community Name or use the default value of SNMP_TRAP.



Note: The Default Trap Community Name is used to specify the default community name for all traps generated by this printer. The Trap Community Name specified for each individual trap destination address overrides the Default Trap Community Name. The Trap Community Name for one address cannot be the same Trap Community Name specified for another address.

6. Type the **System Administrator's Login ID**.
7. Click **Apply**.

Editing SNMP v3 Settings



Note: Before SNMP v3 can be enabled, a digital certificate is installed on the printer and SSL is enabled.

To edit SNMP v3 properties:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**SNMP Configuration**.
2. Under SNMP Properties, click **Edit SNMP v3 Properties**.
3. Under Administrator Account, to create the administrator account, click **Account Enabled**.
4. Type an Authentication Password then confirm it. Ensure that the Authentication Password is at least eight characters in length and can include any characters except control characters. This password is used to generate a key used for authentication.
5. Type a Privacy Password and confirm it. The Privacy Password is used for encryption of SNMP v3 data. The password used to encrypt the data needs to match with the Server.
6. Under Print Drivers/Remote Clients Account, click **Account Enabled**.
7. Click **Apply**.

Adding IP Trap Destination Addresses

To configure IP trap destinations:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**SNMP Configuration**.
2. Click **Advanced** at the bottom of the page.
3. Under Trap Destination Addresses, click **Add UDP IPv4 Address** or **Add UDP IPv6 Address**.

4. Type the IP address of the host that runs the SNMP manager application to be used to receive traps.



Note: Port 162/UDP is the default port for traps. Select v1 or v2c based on what the trap receiving system supports.

5. Under Traps, the SNMP manager selects the type of traps to be received.
6. Click **Apply**.

LPD

The Line Printer Daemon (LPD) protocol is used to provide printer spooling and network print server functionality for operating systems such as HP-UX, Linux®, and MAC OS X.



Note: For information on setting up print queues on your client system, refer to the system documentation of your client.

Enabling LPD

To enable the LPD protocol:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to LPD, select the **Enabled** check box.



Note: Disabling LPD affects the clients printing to the printer over TCP/IP using the LPR printing port.

Configuring LPD

To configure the LPD protocol:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LPD**.
2. Type an LPD port number or use the default port number of 515.
3. Enter the **Connection Time-Out**.
4. Enter the **Maximum Number of Sessions**.
5. If necessary, next to **TCP-MSS Mode**, select **Enabled**.
6. If TCP-MSS mode is enabled, type the IP addresses for Subnets 1, 2, and 3 under IPv4.
7. Click **Apply**.



Note: TCP-MSS settings are common for LPD and Port 9100.

Raw TCP/IP Printing

Raw TCP/IP is a printing method used to open a TCP socket-level connection over Port 9100, to stream a print-ready file to the input buffer of the printer. It then closes the connection either after sensing an End-Of-Job character in the PDL or after expiration of a preset time-out value. Port 9100 does not require an LPR request from the computer or the use of an LPD running on the printer. Port 9100 is selected in Windows as the Standard TCP/IP port.

Enabling Port 9100



Note: Before you enable Port 9100, ensure that the TCP/IP is enabled.

To enable port 9100:

1. In CentreWare Internet Services, click **Connectivity**→**Port Settings**.
2. Next to Port 9100, select **Enabled**.

Configuring Port 9100

To configure port 9100:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**Port 9100**.
2. If necessary, next to TCP-MSS Mode, select **Enabled**.
3. If TCP-MSS mode is enabled, type the IP addresses for Subnets 1, 2, and 3 under IPv4.
4. Ensure that the TCP Port Number is set to 9100.
5. Set the **End of Job Timeout** to the required number of seconds between 0 and 1800 before processing a job with an End of Job character. The default time is 300 seconds.
6. Click **Apply**.



Note: TCP-MSS settings are common for LPD and Port 9100.

SMTP

Simple Mail Transfer Protocol (SMTP) is used by the email feature of the printer to deliver scanned images and Internet Fax jobs through email. After you enable SMTP, the email button is enabled on the Control Panel of the printer.

Configuring SMTP Server Settings

To configure SMTP server settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**SMTP Server**.
2. Under Required Information, select the method to locate an SMTP server:
 - To allow DNS to automatically find an SMTP server on the network, select **From DNS**.
 - To map to a specific SMTP server, select **STATIC**.



Note: If you select **From DNS**, before you can define the SMTP server, ensure that DNS is configured for either IPv4 or IPv6.

3. Type the SMTP server IP address or host name.
4. Enter the port numbers for sending email and Internet Fax, and for receiving email. The default port number is 25.
5. Next to Port 9100, select **Enabled**.

Configuring Optional SMTP Settings

To configure optional SMTP settings:

- **Split Send:** To improve transmission speed, you can set messages to be fragmented 2–500 times. For Split Send, select **Enabled**, and enter the number of fragments in the Maximum Split Count field.

If you enable **Split Send**, you can select how to split the email jobs. For Split Send Method, select one of the following:

- **Split into Pages:** If you select this option, the email client does not reassemble the job on receipt.
- **Split by Data Size:** If you select this option, the email client is required to reassemble the job on receipt.
- **Maximum Data Size per E-mail:** To define a maximum message size for messages with attachments, type a value from 512–20480 KB. The default size is 10240 KB.
- **Maximum Total Data Size:** To set a maximum job size, type a value from 512–2000000 KB.
- **Login Credentials for the Machine to Access the SMTP Server to send automated emails:** To authenticate the printer using the login name and password set up on this page, select **POP before SMTP** or **SMTP AUTH**.
 - If you select **System**, type the login name and password. Retype the password to confirm.
 - If you select **None**, the printer does not provide authentication credentials to the SMTP server.
- **Login Credentials for Sending E-mails:** If authentication is enabled, and the printer is configured to require users to log in before they can access email, to use the credentials of the user to access

the SMTP server, select **Remotely Authenticated User**. To allow this field to default to the same setting that you selected for sending automated email messages, select **System**.

When you finish configuring these options, click **Apply**.

LDAP

Lightweight Directory Access Protocol (LDAP) is a protocol used to process queries and updates to an information directory, also known as an LDAP directory, stored on an external server. LDAP directories are heavily optimized for read performance. Use this page to define how the printer retrieves user information from an LDAP directory.


Configuring LDAP Server Settings

To configure LDAP server settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP Server**.
2. Under Server Information, type the appropriately formatted main and backup LDAP server addresses, host name, and port numbers. The default port number is 389.
3. Select the **LDAP server type** from the LDAP Server menu.
4. Complete the Optional and Query sections, if necessary.
5. Click **Apply**.


Defining User Mappings

LDAP servers provide different results to search queries that depend on how user data is mapped. Editing the mapping allows you to fine-tune server search results.

 **Note:** If you are using Internet Fax, ensure that the Internet Fax field is not set to **No attribute type that can be used**. This setting prevents the LDAP Address Book from displaying on the Internet Fax screen on the Control Panel of the printer. Select **mail** as the Internet Fax setting.

To define LDAP user mappings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP User Mappings**.
For the information you entered on the LDAP Server tab, refer to [Configuring LDAP Server Settings](#).
2. To send a test query, type the name of the user you want to search for in the **User Name** field, then click **Search**. If a match occurs, the information of the user appears.
3. Use the menus under **Imported Heading** to remap fields as needed.
4. Click **Apply**.

 **Note:** LDAP Schema of the server defines the Headings.

Configuring LDAP Custom Filters

To configure LDAP filters:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**Custom Filters**.


2. In the User ID Query Filter field, type the LDAP search string or filter that you want to apply.



Note: Ensure that the filter defines a series of conditions that the LDAP search fulfills to return the information you want.



Note: The search string should be formatted as LDAP objects inside of parentheses. For example, to find the user with a sAMAccountName of Bob, type `(objectClass=user)(sAMAccountName=Bob)`.

3. Under Email Address Book Filter, select **Enable Filter**.
4. In the Email Address Book Filter field, type the LDAP search string or filter that you want to apply.
 **Note:** Format the search string as LDAP objects placed inside parentheses. For example, to find all users that have an email attribute (**mail enabled**), type `(objectClass=user)(mail=*)`.
5. Under Fax Address Book Filter, select **Enable Filter**. Then type the LDAP search string or filter that you want to apply.
6. Under Internet Fax Address Book Filter, select **Enable Filter**. Then type the LDAP search string or filter that you want to apply.
7. Click **Apply**.

POP3

Post Office Protocol, version 3 (POP3) allows email clients to retrieve email from remote servers over TCP/IP on network port 110. This printer uses POP3 for the Internet Fax service.

To configure the POP3 Internet Fax service:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**POP3 Setup**.
2. Type the appropriately formatted IP address, host name, and port number. The default port number is 110.
3. Next to POP Receive Password Encryption, select **APOP Authentication**, if required.
4. Type the Login Name assigned to the printer that will be used to log into the POP3 server.
5. Type a password. Retype the password to confirm.
6. Select the checkbox to enable POP3–SSL/TSL Communication, if necessary.
7. Type a Polling Interval value between 1 and 120 minutes. The default value is 10 minutes.
8. Click **Apply**.

HTTP

Hypertext Transfer Protocol (HTTP) is a request-response standard protocol between clients and servers. Clients making HTTP requests are referred to as User Agents (UAs) while servers that respond to these requests for resources such as HTML pages, are referred to as origin servers. There can be any number of intermediaries, such as tunnels, proxies, or gateways between UAs and origin servers.

Enabling HTTP

HTTP is enabled by default. If you disable HTTP, enable it at the printer before you can access CentreWare Internet Services.

To enable HTTP:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Connectivity + Network Setup**→**Port Settings**.
3. Touch **Internet Services (HTTP)**, then touch **Change Settings**.
4. Touch **Enabled**, then touch **Save**.

Configuring HTTP Settings

To configure HTTP settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**HTTP**.
2. Change the maximum number of sessions, if necessary. The default is 5.
3. Type the Port Number, if necessary. The default is 80.
4. Next to Secure HTTP (SSL), select **Enabled** to encrypt HTTP communication between the printer and client computers using CentreWare Internet Services. This includes data sent using IPSec, SNMP, and Audit Log. Ensure that a digital certificate is installed on the printer.
5. Type the Secure HTTP Port Number, if necessary. HTTP traffic is routed to this port when SSL is enabled. The default is 443.
6. Enter the amount of time until the connection times out, if necessary.
7. Click **Apply**.

Proxy Server

A proxy server acts as a go-between for clients seeking services and servers that provide them. The proxy server filters client requests, and if the requests conform to the filtering rules of the proxy server, grants the request and allows the connection.

A proxy server has two main purposes:

- It keeps any devices behind it anonymous for security purposes.
- It decreases the amount of time needed to access a resource by caching content, such as web pages from a web server.

To configure proxy server settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**Proxy Server**.
2. Under **General**→**Use Proxy Server**, select **Enabled**.
3. Next to **Proxy Setup**, select **Same Proxy for All Protocols** to use the same proxy settings for HTTP and HTTPS, or **Different Proxy for each Protocol**.
4. Under Addresses to Bypass Proxy Server, type any web addresses or domains that you want to bypass the proxy server, such as intranet site of your company.
5. Under HTTP Server, type the Server Name and Port Number. The default port number is 8080.
6. Next to **Authentication**, select **Enabled** if your proxy server is configured to require authentication, then type a Login Name and Password. Retype the password to confirm.
7. Under HTTPS Server, enter the HTTPS proxy server information, if required.
8. Click **Apply**.



Note: Proxy server settings are also used for Smart eSolutions.

Microsoft Networking

Configuring WINS

When running WINS, the printer registers its IP address and NetBIOS host name with a WINS server. WINS allows users to communicate with the printer using host name only.

To configure primary and secondary WINS servers:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**Microsoft Networking**. The SMB client page opens.
2. To allow your DHCP server to provide your WINS server address to the printer, select **DHCP** next to Obtain WINS Server Address Automatically.
3. If you want to provide the WINS server address manually, type it in the **Primary Server IP Address** field.
4. If necessary, type the secondary WINS server address in the **Secondary Server IP Address** field.
5. Click **Apply**.

IPP

Internet Printing Protocol (IPP) is used for remote printing and managing print jobs.

Enabling IPP

To enable IPP:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to **IPP**, select **Enabled**.
3. Click **Apply**.

Configuring IPP

To configure IPP printing:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**IPP**.
2. For Add Port Number, type the port number that you want the printer to use.
3. For Administrator Mode, to allow only one specific user to control or delete any print job, select **Enabled**.
4. Type the connection time-out period. The default is 60 seconds.
5. Click **Apply**.

WebDAV

Web-based Distributed Authoring and Versioning (WebDAV) is a set of extensions to HTTP that allow users to edit and manage files collaboratively on remote Web servers. WebDAV is enabled to use Network Scan Utility 3.

Enabling WebDAV

To enable WebDAV:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to **WebDAV**, select **Enabled**.
3. Click **Apply**.

Configuring WebDAV

To configure WebDAV settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**WebDAV**.
2. Type the port number.
3. Type the connection time-out period. The default is 30 seconds.
4. Click **Apply**.

WSD

Web Service for Devices (WSD) is a technology from Microsoft that provides a standard method for discovering and using network connected devices. It is supported in Windows Vista and Windows Server 2008 operating systems. WSD is one of several supported communication protocols.

Enabling WSD

To enable the WSD protocol:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to WSD Print, select **Enabled** to enable the WSD print service.
3. Next to WSD Scan, select **Enabled** to enable the WSD scan service.
4. Click **Apply**.

Configuring WSD

To configure the WSD protocol:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**WSD**.
2. If necessary, edit the following settings:
 - Port Number. The default is 80.
 - Data Receive Time-Out in seconds. The default is 30
 - Notification Delivery Time-Out in seconds. The default is 8.
 - Maximum TTL. The default is 1.
 - Maximum Number of Subscribers. The default is 50.
3. Click **Apply**.

Security

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Setting Up Access Rights

Overview

You can control access to the services and features of the printer by setting up authentication, authorization, and personalization.

Authentication

Authentication is the process of confirming the identity of a user by comparing information provided by the user, such as their user name and password, against another source of user information, such as a Lightweight Directory Access Protocol (LDAP) network directory. Users can be authenticated when they access the control panel or when they access CentreWare Internet Services.

There are several ways to authenticate a user:

- **Local:** If you have a limited number of users, or do not have access to a Lightweight Directory Access Protocol (LDAP) network directory, you can add user information, such as user names and passwords, to the internal database of the printer. Then you can specify tools and feature access for all users. Users are authenticated and authorized when they log in at the control panel.
- **Network:** The printer retrieves user information from an LDAP network directory to authenticate and authorize users when they log in at the control panel. For network authentication, first configure LDAP server settings. The printer can use any of the following protocols to communicate with your authentication server:
 - Kerberos (Solaris, or Windows 2000/2003)
 - SMB (Windows 2000/2003)
 - LDAP
- **Card Reader:** Purchase and install a magnetic or proximity card reading system, such as Xerox® Secure Access. To access the printer, users are required to swipe a pre-programmed identification card.

Authorization

Authorization is the process of defining the services and features that users are allowed to access. For example, you can configure the printer to allow a user to copy, scan, and fax, but not email. There are two types of authorization:

- **Locally on the Device (Internal Database):** User login information is stored locally in the internal User Information Database of the printer.
- **Remotely on the Network:** User login information is stored externally in a network database such as an LDAP directory.

Personalization

Personalization is the process of customizing services for a specific user. If your network is connected to an LDAP server, the printer can look into the home directory and email address of the user when using the Scan to Home, or email scanning features.



Note: Personalization is only available when the printer is configured to use network authentication.

Local Authentication

Setting Up Local Authentication

To configure local authentication:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Authentication Configuration**.
2. On the Authentication Configuration page, next to Login Type, select **Login to Local Accounts**.
3. For Print Stored File from Folder or Folder to PC/Server, to enable these services, select **Enabled**.
4. For Non-account Print, to allow users without accounts to access the printer, select **Enabled**.
5. Click **Apply**, then click **Reboot Machine**.

Defining User Information

Before you can define privileges for users, ensure that the user information is defined. You can add information to, or edit the internal User Information Database of the printer, or you can specify a network database or LDAP server that contains the user information.

Specifying Login Requirements

To specify password requirements:

1. In CentreWare Internet Services, click **Properties**→**Security**→**User Details Setup**.
2. If you want the printer Control Panel to display text other than User ID, type the text in the **Alternative Name for User ID** field.
3. For Mask User ID, if you want user ID characters to appear as asterisks at the Control Panel, select **Hide** or if you want the text to display, select **Show**.
4. If you want the printer Control Panel to display text other than Account ID, type the text in the **Alternative Name for Account ID** field.
5. For Mask Account ID, if you want user ID characters to appear as asterisks at the Control Panel, select **Hide** or if you want the text to display, select **Show**.
6. For Failed Access Log, type the number of allowed login attempts (1–600). To allow an unlimited number of login attempts, type 0. If the maximum number of allowed attempts is exceeded, ensure that the printer is locked and is restarted.
7. To allow users to log in without case sensitivity, for User ID, select **Non-Case Sensitive** for Login.
8. To accept the changes, click **Apply**, or to retain the previous settings, click **Undo**.

Network Authentication

If you have an LDAP server connected to your network, you can configure the printer to retrieve user information from the LDAP directory when authenticating a user at the Control Panel.

Setting up Network Authentication

To set up network authentication:

1. In CentreWare Internet Services, click **Properties**→**Securities**→**Authentication Configuration**.
2. On the Authentication Configuration page, next to Login Type, select **Login to Remote Accounts**.
3. Select **Enabled** next to Print Stored File from Folder or Folder to PC/Server Enabled to enable these services.
4. Select **Enabled** next to Non-account Print to allow users without accounts to access the printer.
5. To allow a guest user to access the printer, select **On** next to Guest User. Type the Guest Password, then retype the password to verify.
6. To have the printer cache remote account information, select **Enabled** next to Save Remote Accounts in This Machine. Specify if you want to have the cached information deleted by clicking **Delete Remote Accounts** and how often you want to delete cached information by selecting a deletion day, month, and time.
7. Click **Apply**, then click **Reboot Machine**.
8. After the printer restarts, refresh your browser and navigate back to the **Authentication Configuration**→**Step 1 of 2 page**, and click **Next** at the bottom of the page.
9. Next to Authentication System, click **Configure**.
10. On the Authentication System page, select your **Authentication System** from the menu.
11. Type the **Server Response Time-Out**, and the **Search Time-Out**.
12. Select **Enabled** next to Assign UPN (User Principal Name) if needed.
13. Click **Apply** to accept the changes or **Undo** to retain the previous settings.
14. Click **Reboot Machine**.

Configuring Authentication Server Settings for Kerberos

To configure authentication settings for the Kerberos server:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Remote Authentication Servers**→**Kerberos Server**.
2. Next to Server Certificate Validation, select **Enabled** to enable the Kerberos validation services.
3. Under **Kerberos Server 1**, type the host name or IP address of your primary server.
4. Type the Primary Server Port Number.
5. Type the host name or IP address of your secondary server.
6. Type the Secondary Server Port Number.
7. Type the Domain Name (realm name) of your server.

8. Type the server name, port name, and domain name of any additional Kerberos servers if necessary.
9. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

Configuring Authentication Server Settings for SMB

To configure settings for the Server Message Block (SMB) server:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Remote Authentication Servers**→**SMB Server**.
2. Next to SMB Server Setup, select **By Domain Name** or **By Server Name /IP Address**.
3. Type the Domain Name and Server Name/IP Address for each of your servers.
4. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

Configuring Authentication Server Settings for LDAP

To configure authentication settings for the Lightweight Directory Access Protocol (LDAP):

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP Authentication**.
2. For Authentication Method, select **Direct Authentication** or **Authentication of User Attributes**.
Direct Authentication: For authentication with the LDAP server, this option uses the user name and password that the user entered.
Authentication of User Attributes: This option allows you to specify what the user enters and what the printer uses to authenticate the user, using the Attribute of Typed User Name and Attribute of Login User Name fields.
3. If you selected **Authentication of User Attributes**, do the following:
 - a. Type the **Attribute of Typed User Name**. Enter the LDAP attribute that corresponds to the information you want the user to enter at the control panel. For example, if you want the user to enter the email address, enter `mail`. The email address can be maximum of 32 characters.
 - b. Type the **Attribute of Login User Name**. Enter login information registered on the LDAP server. The login information can be maximum of 32 characters.
4. For Added Text String, select **Enabled**. If you want to add text to the user input before authentication, type the additional text string.
5. Click **Apply**.

Authentication Using a Card Reader System

Setting Up Authentication for Xerox® Secure Access

Before you begin:

- Enable Secure HTTP (SSL).
- Install the Xerox® Secure Access Unified ID System (authentication server) and configure with user accounts. Refer to the *Authentication Server Documentation* for help.
- Connect and configure your card reader.
- Install the appropriate plug-in for your card reader and printer model. Download the latest plug-in files and plug-in installation instructions at www.xerox.com.



Note: Accounts created on the Xerox® Secure Access authentication server must match accounts stored in the local database of the printer or in another network authentication server.

To configure authentication services for Xerox® Secure Access:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Authentication Configuration**.
2. On the Authentication Configuration page, next to Login Type, select **Xerox Secure Access**.
3. For Print Stored File from Folder or Folder to PC/Server, to enable these services, select **Enabled**.
4. For Non-account Print, to allow users without accounts to access the printer, select **Enabled**.
5. Click **Apply**, then click **Reboot Machine**.
6. After the printer restarts, refresh your browser and navigate back to the **Authentication Configuration**→**Step 1 of 2 page**, and click **Next** at the bottom of the page.
7. For Authentication System, click **Configure**.
8. On the Authentication System page, select **Authentication Agent** from the menu.
9. Type the **Server Response Time-Out** and the **Search Time-Out**.
10. For Assign UPN (User Principal Name), select **Enabled** if necessary.
11. To accept the changes, click **Apply**, or to retain the previous settings, click **Undo**.
12. Click **Reboot Machine**.

Configuring Xerox® Secure Access Login Settings

To configure Xerox® secure access login settings:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Remote Authentication Servers**→**Xerox Secure Access Settings**.
2. Type the **Default Prompt** text and **Default Title** text.
3. For Local Login, to allow users to type their credentials at the Control Panel, select **Enabled**.

4. For **Get Accounting Code**, to allow the printer to obtain the accounting code of a user from a network accounting server automatically when the user logs in at the Control Panel, select **Enabled**. Ensure that the network authentication and network accounting are configured. If this setting is not enabled, the user needs to enter an accounting code when they log in at the Control Panel.
5. Type the **Connection Time-Out** period (1–300 seconds).
6. To accept the changes, click **Apply**, or to retain the previous settings, click **Undo**.

Setting Up Authentication for a USB SmartCard Reader System

To use the printer with a card reader system other than Xerox® Secure Access, you must order and install the Xerox® Common Access Card Enablement Kit. The kit includes hardware, software, and instructions for connecting and configuring your card reader system.

Before you begin:

- Install the USB Enablement Kit.
- Install a Kerberos authentication server and configure with user accounts.
- Connect your card reader to the printer.

Configure Network Authentication Settings

1. Configure network authentication. For details, refer to [Network Authentication](#).
2. Configure Kerberos server settings. For details, refer to [Configuring Authentication Server Settings for Kerberos](#).

Enable SmartCard Settings

To enable SmartCard settings:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, and touch the **Tools** tab.
2. Touch **Authentication / Security Settings**→**Authentication**→**User Details Setup**→**Use of SmartCard**.
3. Touch **Change Settings**.
4. Touch **Enabled**.
5. Under **Jobs Validated by Card**, select **Copy**, **Print** or **Fax/Scan**, and touch **Save**.

Set the SmartCard Certificate Verification Mode

For additional security, you can set the printer to validate the SmartCard of a user against certificates stored on the printer.

To set the SmartCard verification mode:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, and touch the **Tools** tab.

2. Touch **Authentication / Security Settings**→**Authentication**→**User Details Setup**→**SmartCard Certificate Verification**.
3. Touch **Change Settings**.
4. Touch **Enabled**.



Note: Configure certificate revocation retrieval settings as necessary.

- The root CA and intermediate CA of the SmartCard certificate of a user must be stored on the printer.
- The date and time settings of the printer must be correct to validate the certificate.

Set the SmartCard Logout Timing

Use this feature to set whether the SmartCard must remain in the card reader while using the printer or the user can tap the card on the reader to gain access to the system. If the card does not remain in the card reader, the user must log out using the Control Panel.

To set the SmartCard Logout Timing:

1. At the printer Control Panel, press the **Machine Status** button and touch the **Tools** tab.
2. Touch **Authentication / Security Settings**→**Authentication**→**User Details Setup**→**SmartCard Logout Timing**.
3. Touch **Change Settings**.
4. Touch either **Log Out when Card is Removed** or **Log Out from Control Panel**.
5. Touch **Save**.

Controlling Access to Tools and Features

Controlling Access for All Users

Locking or Unlocking Tools and Features for all Users

1. In CentreWare Internet Services, click **Properties**→**Security**→**Authentication Configuration**.
2. Click **Next**.
3. Under Access Control, next to **Device Access**, click **Configure**.
4. Select **Locked** to require authentication for all services at the Control Panel (Services Pathway), Job Status button (Job Status Pathway), or the Machine Status button (Machine Status Pathway).
5. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

Locking, Unlocking, or Hiding Individual Services for all Users

1. In CentreWare Internet Services, click **Properties**→**Security**→**Authentication Configuration**.
2. Click **Next**.
3. Under Access Control, next to **Service Access**, click **Configure**.
4. Select **Locked** to require authentication for individual services at the Control Panel, or select **Locked (Hide Icon)** to hide the service.
5. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

Controlling Access for a Group of Users

If the network is connected to an LDAP server, you can configure the network authentication and control individual user or group access to services and features.

LDAP server user groups can be used to control access to services and features of the printer. For example, the LDAP server contains a group of users called Admin. You can configure the Admin group on the printer so that only members of this group have Administrator access to the printer. When a user that belongs to the group Admin logs onto the printer, the printer performs an LDAP directory lookup to verify the user. After authenticated, the user is allowed administrative rights to the printer.

You can set up and control access to the printer in four ways:

- User Roles Access Setup
- Device Access Setup
- Service Access Setup
- Feature Access Setup

Before you begin:


- Configure [Network Authentication](#).
- Configure [LDAP server settings](#).

User Roles Access Setup

To assign users to specific role or access groups:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP Authorization Process**.
2. Under User Roles, in the **System Administrator Access** field, type the name of the group, defined in the LDAP server database, that you want to use to grant System Administrator access to the printer.
3. In the **Accounting Administrator Access** field, type the name of the group, defined in the LDAP server database, that you want to use to grant Accounting Administrator access to the printer.
4. Continue with other access settings or scroll down and click **Apply**.
 - [Device Access Setup](#)
 - [Service Access Setup](#)
 - [Feature Access Setup](#)


Device Access Setup

 **Note:** Device Access setup requires that Authentication is enabled and Tools and Feature Access are configured to require users to log in before they can access pathways.

To set up device access:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP Authorization Process**.
2. Under Device Access, in the Services Pathway, type the name of a group, defined at the LDAP server, that you want to use to provide access to the Services features on the printer.
3. Repeat the same process for the Job Status Pathway and the Machine Status Pathway.
4. Continue with other access settings or scroll down and click **Apply**.
 - [Service Access Setup](#)
 - [Feature Access Setup](#)

Service Access Setup

 **Note:** Service Access Setup requires that Authentication is enabled and Tools and Feature Access are configured to require users to log in before they can access services.

You can specify access to the services of the printer under Service Access. Type the names of the LDAP groups for any of the services listed.

To set up service access:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP Authorization Process**.
2. Under Service Access and the Access Group setting, type the names of the LDAP groups allowed to access each of the individual printer services.
3. Continue with other access settings or scroll down and click **Apply**.
 - [Device Access Setup](#)
 - [Feature Access Setup](#)

Feature Access Setup



Note: Feature Access Setup requires that Authentication is enabled and Tools and Feature Access are configured to require users to log in before they can access features.

You can set specific access to the color copying feature of the printer listed on the Feature Access page.

To set up feature access:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**LDAP**→**LDAP Authorization Process**.
2. Under Feature Access and the Access Group setting, type the names of the LDAP groups allowed to access each individual feature.
3. Continue with other access settings or scroll down and click **Apply**.
 - [Device Access Setup](#)
 - [Service Access Setup](#)

Digital Certificates

A digital certificate must be installed on the printer before you can enable secure HTTP (SSL). A digital certificate is a set of data used to verify the identity of the holder or sender of the certificate. A certificate includes the following data:

- Information about the person, organization, or computer that the certificate is issued to, including the name, location, email address, and other contact information.
- Serial number of the certificate
- Expiration date of the certificate
- Name of the certificate authority (CA) that issued the certificate
- A public key
- A certificate with digital signature of the authority

Installing a Digital Certificate

There are three ways to install a certificate on the printer:

- Create a Self-Signed Certificate. A Self-Signed Certificate is the result when the printer creates its own certificate, signs it, and creates a public key for the certificate to be used in SSL encryption.
- Create a request to have a certificate authority (CA), or a server functioning as a certificate authority sign a certificate and then upload the certificate to the printer. An example of a server functioning as a CA is Windows Server running Certificate Services.
- Install a trusted root certificate created by a CA.



Note: Installing a self-signed certificate is less secure than installing a trusted CA signed certificate. However, if you do not have a server functioning as a certificate authority this is your only option.

Creating a Self-Signed Certificate

1. Enable S/MIME capability for the self-signed certificate if necessary. For details, refer to [Assigning a Name and Location to the Printer](#).
2. In CentreWare Internet Services, click **Properties**→**Security**→**Machine Digital Certificate Management**.
3. Click **Create New Certificate**.
4. Select **Self Signed Certificate**.
5. Click **Continue**.
6. Click a digital signature encryption algorithm.
7. Select the **Public Key Size** and type the name of the Issuer.
8. Next to Days of Validity, type the number of days (1–9999) until the certificate expires.
9. Click **Apply**.

Creating a Request

To create a request:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Machine Digital Certificate Management**.
2. Click **Create New Certificate**.
3. Select **Certificate Signing Request (CSR)**.
4. Fill out the form with your 2-Letter Country Code, State/Province Name, Locality Name, Organization Name, Organization Unit, and Email Address.
5. Click **Apply**.
6. Values from the form are used to generate a Certificate Signing Request.
7. When the process is complete, you are prompted to save the Certificate Signing Request. Right-click the link and save the `csr.pem` file to the computer.
8. Email the file to a trusted certificate authority to be signed.



Note: If you want to use SSL/TLS for SMTP communication, next to SMTP-SSL/TLS Communication, select a method that the server supports.

Uploading a Certificate

When a signed certificate is received back from a trusted certificate authority (CA), you can upload the certificate to the printer. You can also upload certificates, root certificates, and intermediate CA certificates to establish a complete chain of trust.

To upload a certificate:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Machine Digital Certificate Management**.
2. Click **Upload Signed Certificate**.
3. If the certificate is password protected, type the password and retype it to verify.
4. Click **Browse** or **Choose File**, navigate to the signed certificate in .crt format, and click **Open** or **Choose**.
5. Click **Import**.



Note: The signed certificate must match the printer which creates CSR.

Managing Certificates

To see information about the certificates installed on the printer, or specify the certificate to use for S/MIME, SSL, and IPSEC:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Certificate Management**.
2. Select a **Category**, **Certificate Purpose**, and **Certificate Order** to filter the display.
3. Click **Display the list**.
4. Select a certificate from the list and click **Certificate Details**.

5. To set the certificate as the primary certificate, click **Use this certificate**. If **Use this certificate** is not available, then the selected certificate has expired or is not valid. All certificates in the certification path (chain of trust) must be installed on the printer and be valid.
6. Click **Delete** to remove the certificate or **Export** to save the certificate to the computer.

Certificate Revocation Retrieval Settings

To configure certificate revocation retrieval settings:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Certificate Revocation Retrieval Settings**.
2. Under General, select the **Level of Certificate Verification**.
 - **Low**: The revocation status of certificates is not checked. The printer verifies that the certificate has not expired and that the certificate issuer and signature are valid.
 - **Medium**: The revocation status of certificates is checked. If the certificate status cannot be obtained due to a network error, the certificate is still considered valid.
 - **High**: The revocation status of certificates is checked. The certificate is considered valid only after successfully verifying that the certificate has not been revoked.
3. Select the **Retrieval of Certificate Status**. Select **OCSP** or **CRL**.
4. If you selected OCSP as the retrieval method:
 - a. Under OCSP, next to Send Query to OCSP Responder With, select **URL as Specified in Certificate** or **URL as Specified by Administrator**.
 - b. Type the URL of **OCSP Responder**.
 - c. Type the **OCSP Communication Time-Out** (5–60 seconds).
5. If you selected CRL as the retrieval method:
 - a. Under CRL, next to Auto Retrieval of CRL, select **Enabled** if needed.
 - b. Type the **CRL Retrieval Time-Out** (5–60 seconds).
6. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

Secure HTTP and SSL/TLS


You can encrypt all data sent over HTTP by establishing an encrypted SSL connection. You can enable SSL encryption for the following services:


- Configuring the printer in CentreWare Internet Services
- Printing from CentreWare Internet Services
- Printing using IPP
- Managing scan templates
- Network scanning
- Network accounting

Before you begin:

- [Install a digital certificate.](#)
- Ensure that the date and time configured on the printer is correct. This is used to set the start time for self-signed certificates.


Configuring Secure HTTP (SSL/TLS)

 **Note:** A digital certificate must be installed on the printer before you can enable Secure HTTP.

 **Note:** If Secure HTTP is enabled, when accessing CentreWare Internet Services, all pages will contain **https://** in the web page URL.

To configure HTTP (SSL/TLS):

1. In CentreWare Internet Services, click **Properties**→**Security**→**SSL/TLS Settings**.
2. Next to HTTP-SSL/TLS Communication, select **Enabled**.
3. Type the port number you want to use for HTTP SSL/TLS.
4. If you want to use SSL/TLS for SMTP communication, select a method that your server supports.
5. If you want to use Secure E-mail, select the appropriate option next to SMTP-SSL/TLS Communication. You can choose either STARTTLS (if available), STARTTLS, or SSL/TLS.
6. If you want to use S/MIME communication, select **Enabled** next to S/MIME-SSL/TLS Communication.
7. Select **Enabled** next to Verify Remote Server Certificate if necessary.
8. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

 **Note:** If you are unsure what method your server supports, select STARTTTLS (if available). If you select STARTTLS, the printer attempts to use STARTTLS. If your server does not support STARTTLS, SMTP communication is not encrypted.

S/MIME

Secure/Multipurpose Internet Mail Extensions (S/MIME) is a standard for public key encryption and signing of email encapsulated in MIME.

Before you begin:

- Enable SSL/TLS.
- Install an S/MIME certificate and all certificates in the certification path (chain of trust) for the S/MIME certificate. The S/MIME certificate must be in PKCS #12 format, and the email address in the certificate must be the same as the email address of the printer.
- Enable S/MIME Communication on the SSL/TLS Settings page.

IPsec

Internet Protocol Security (IPsec) is a group of protocols used to secure Internet Protocol (IP) communications by authenticating and encrypting each IP data packet. It allows you to control IP communication by creating protocol groups, policies, and actions for the following:

- DHCP v4/v6 (TCP and UDP)
- DNS (TCP and UDP)
- FTP (TCP)
- HTTP (Scan Out, TCP port 80)
- HTTPS (Scan Out, TCP port 443)
- HTTPS (Web Server, TCP port 443)
- ICMP v4/v6
- IPP (TCP port 631)
- LPR Print (TCP port 515)
- Port 9100 Print (TCP port 9100)
- SMTP (TCP/UDP port 25)
- SNMP (TCP/UDP port 161)
- SNMP Traps (TCP/UDP port 162)
- WS-Discovery (UDP port 3702)
- Up to 10 additional services

Configuring IPsec



Note: Secure HTTP (SSL) must be enabled with an installed digital certificate before you can enable IPsec.

To configure Internet Protocol (IP) security communications:

1. In CentreWare Internet Services, click **Properties**→**Security**→**IPSec**.
2. Next to Protocol, select **Enabled**.
3. Select the **IKE Authentication Method**, **Preshared Key**, or **Digital Signature**.
4. If you select Preshared Key, type the **Shared Key** and retype the key to verify.
5. Type the IKE SA LIFE Time (5-28800 minutes).
6. Type the IPsec SA Life Time (300-172800 minutes).
7. Select the **DH Group** type.
8. Enable **PFS** if necessary.
9. Type the **Specific Destination IPv4 Address**.
10. Type the **Specific Destination IPv6 Address**.
11. To restrict the printer from communicating with devices that are not using IPsec, select **Disabled** next to Communicate with Non-IP Sec Device.

12. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

802.1X


802.1X is an Institute for Electrical and Electronics Engineers (IEEE) standard that defines a method for port-based network access control or authentication. In an 802.1X-secured network, the printer must be authenticated by a central authority, typically a RADIUS server, before it can access the physical network. You can enable and configure the printer to be used in an 802.1X-secured network.

Before you begin:

- Ensure your 802.1X authentication server and authentication switch are available on the network.
- Determine the authentication method supported by the server.
- Create a user name and password on your authentication server.
- Ensure that the printer can be offline for several minutes. Changing and applying 802.1X settings causes the printer to restart.

Configuring 802.1X

To configure 802.1x network settings:

1. In CentreWare Internet Services, click **Properties**→**Security**→**IEEE 802.1X**.
 2. For Enable IEEE 802.1x, select **Enabled**.
 3. For Authentication Method, select the method used on your network:
 - **EAP-MD5**: Extensible Authentication Protocol (unencrypted)
 - **EAP-MS-CHAPv2**: Microsoft Challenge Handshake Authentication Protocol (unencrypted)
 - **PEAP/MS-CHAPv2**: Protected EAP (encrypted)
-  **Note: EAP-TLS**: This method is available if the printer is configured to use EAP-TLS.
4. Type the login name, which is the device name, required by your authentication switch and server.
 5. Type the password, then retype the password to verify.
 6. If necessary, for Certificate Validation, select **Enabled**.
 7. To accept the changes, click **Apply**, or to retain the previous settings, click **Undo**.

FIPS140-2 Data Encryption

The printer encrypts all data that is stored and transmitted. Some services and protocols, such as SMB, NetWare, SNMPv3, and the PDF Direct Print service do not use an encryption method that complies with government standard FIPS140-2. You can warn users with a control panel message when data is about to be transmitted that is not encrypted to FIPS140-2 standard. For more information, refer to the Security White Paper of the printer on the Xerox website.

To enable the data encryption warning message:

1. In CentreWare Internet Services, click **Properties**→**Security**→**FIPS140 Validation Mode**.
2. For FIPS140 Validation Mode, select **Enabled**.



Note: FIPS 140-2 encryption does not apply to the services and protocols such as SMB, NetWare, SNMPv3, or PDF Direct Print Service.

Overwriting Image Data

To ensure that image data on the hard drive of the printer cannot be accessed, you can delete and overwrite image data. Image data is all in-process or temporary user data on the hard drive, such as current jobs, queued jobs, and temporary scan files, but not saved jobs or folders. To use this feature, you must purchase and install the Data Security Kit.

Manually Deleting Image Data

To manually delete image data on the hard drive of the printer:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **Authentication/Security Settings**→**Overwrite Hard Disk**.
3. Touch **Number of Overwrites**, then touch **1 Overwrite**, or **3 Overwrites**.
4. Touch **Save**.
5. Touch **Run Image Overwrite**.
6. Touch **Start**.
7. Touch **Yes** to confirm. The following is deleted:
 - Secure, Sample, and Delay print jobs
 - Images stored in folders
 - PDL spool files
 - Fax documents
 - Any temporary files



Note: All image data is deleted.



Note: While data is being deleted, the printer is offline. The printer restarts when the process is complete.

Scheduling Routine Deletion of Image Data

To schedule a regular time when image data on the hard drive of the printer is deleted:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **Authentication/Security Settings**→**Overwrite Hard Disk**.
3. Touch **Number of Overwrites**, then touch **1 Overwrite**, or **3 Overwrites**.
4. Touch **Save**.
5. Touch **Run Image Overwrite**.
6. Touch **Scheduled Image Overwrite**.
7. Touch **Daily**, **Weekly**, or **Monthly** and touch the arrow icons to specify when you want image data to be deleted.



Note: All image data is deleted.

IP Filtering

You can prevent unauthorized network access by allowing only data to be transmitted to and from specific IP addresses and ports.

Creating an IP Filter Rule


To create an IP filter rule:

1. In CentreWare Internet Services, click **Properties**→**Security**→**IP Filtering**.
2. Under IPv4 Filtering or IPv6 Filtering, select **Enabled**.
3. Click **Add** next to the option you selected.
4. Type the Source IP Address. This is the IP address of the computer or device that you want to allow.
5. Type a number for the **Source IP Mask** that uses this rule. The allowable range of 0–32 corresponds to the 32-bit binary number that comprises IP addresses. A number of 8, for example, represents a Class A address (mask of 255.0.0.0). The number 16 represents a Class B address (mask of 255.255.0.0). The number 24 represents a Class C address (mask of 255.255.255.0).
6. Click **Apply** and follow the prompts to restart the machine.
7. Refresh your Web browser and navigate back to the IP Filtering page. Under IP Filter Rule List, select the rule that you created.
8. Select your rule in the list, and click **Apply**.
9. Click **Edit** or **Delete** to edit or delete an existing rule.

Audit Log

When the Audit Log feature is enabled, the printer begins recording events that happen on the printer. You can download the Audit Log as a tab-delimited text file and review it to find security breaches and assess the security of the printer.

Enabling Audit Log

 **Note:** Secure HTTP (SSL) must be enabled before you can enable the Audit Log. For details, refer to [Secure HTTP \(SSL\)](#).

To enable the Audit Log:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Audit Log**.
2. Next to Audit Log, select **Enabled**.
3. Click **Apply** to accept the changes or **Undo** to retain the previous settings.


Saving an Audit Log


1. In CentreWare Internet Services, click **Properties**→**Security**→**Audit Log**.
2. Under Export Audit Log, right-click the **Export as text file** link and save the compressed `auditfile.txt` file to your computer.
3. Open the file in an application that can read a tab-delimited text file.


Interpreting the Audit Log

The Audit Log is formatted into columns:

- **Log ID:** A unique value that identifies the event.
- **Date:** The date that the event happened in mm/dd/yy format.
- **Time:** The time that the event happened in hh:mm:ss format.
- **Audit Event ID:** The type of event. The number corresponds to a unique description.
- **Logged Events:** An abbreviated description of the type of event.
- **User Name:** User Name, Job Name, Computer Name, Printer Name, Folder Name, or when Network Accounting is enabled, Accounting Account ID.
- **Description:** More information about the Logged Event. For example, when the Logged Event is system status, one of the following appears: `Started normally (cold boot)`, `Started normally (warm boot)`, `Shutdown requested`, `Image Overwriting started`.
- **Optionally Logged Items:** Other information recorded when the event occurs, such as login and authentication access method.

 **Note:** One audit log entry is recorded for each network destination within a Network Scanning scan job.

 **Note:** For Server Fax jobs, one audit log entry is recorded for each Server Fax job.

 **Note:** For Email jobs, one audit log entry is recorded for each SMTP recipient within the job.



Note: Ensure that Network Authentication is configured to record the name of the user in the Audit Log.

PDF and XPS Signatures

You can add a digital signature to PDF or XPS documents that are created by the printer scan feature. The signature uses the information in an S/MIME digital certificate.

Before you begin:

- Install an S/MIME digital certificate.
- Enable secure [HTTP](#) (SSL) and [S/MIME](#) communication.

To set digital signatures:

1. In CentreWare Internet Services, click **Properties**→**Security**→**PDF / XPS Signature Settings**.
2. Select the desired PDF Signature Hash Algorithm.
3. Next to **XPS Signature**, select when you want the signature to be added.
4. Select the type of certificate to which these changes apply.
5. Click **Apply**.

Address Book Security

Controlling CentreWare Internet Services Address Book Access

You can allow all users to edit the public address book in CentreWare Internet Services or restrict access to System Administrators only.

To control address book access:

1. In CentreWare Internet Services, click the **Address Book** tab.
2. Under Security, click **Access Rights**.
3. Select **System Administrators Only** or **Open to All Users**.

Controlling Control Panel Address Book Access

Before you begin, configure [Local Authentication](#). You can create an Authorization Group to restrict users from using or editing the address book at the Control Panel.

To restrict access to the Control Panel address book:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Create Authentication Groups**.
2. Click **Edit** next to one of the group numbers.
3. Type the **Group Name**.
4. Next to Restrict Recipient Selection Method, select **No Restriction** to allow access for the group, or **Always Apply Restriction** to require authentication for the group.
5. Next to Restrict User to Edit Address Book, select **No Restriction**, or **Always Apply Restriction**.
6. Next to Allow User to Disable Active Settings, select **Allow** or **Do Not Allow**.
7. Click **Apply** to accept the changes or **Undo** to retain the previous settings.

Restricting Access to Job Information

You can control how job information is displayed at the Control Panel when users press the Job Status button.

Hiding or Password Protecting Completed Job Information

To control access to completed job information:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Job Status Default**→**Completed Jobs View**.
2. Next to Completed Jobs View, select **Require Login to View Jobs** or **No Job Viewing** to keep users from seeing completed job information.
3. If you selected **Require Login to View Jobs**, select **All Jobs** or **Jobs Run By Login User Only**.
4. Next to Hide Job Details, select **Yes** or **No**.
5. Click **Apply**.

Hiding Active Job Information

To hide or show active job information:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Job Status Default**→**Active Jobs View**.
2. Next to Hide Job Details, select **Yes** or **No**.
3. Click **Apply**.

Hiding or Displaying Network Settings

To show or hide the IPv4 address or host name of the printer on the Control Panel touch screen:

1. In CentreWare Internet Services, click **Properties**→**Security**.
2. Click **On Demand Overwrite**→**Display Network Settings**.
3. Select **Show IP Address (IPv4 only)** or **Show Host Name**. To hide network information, select **Hide Network Information**.
4. Click **Apply**.

Printing

This chapter contains:

- [Selecting Print Mode Options](#) 104
- [Managing Banner Sheet Printing Options.....](#) 105
- [Print Service Settings.....](#) 107
- [UNIX®, Linux®, and AS/400 Printing.....](#) 109

Selecting Print Mode Options

To specify the print mode that you want the printer to use for individual protocol types:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Printing**→**Print Mode**.
2. For each print mode listed, select **Auto**, **HP-GL/2**, **PCL 6/5e**, or **TIFF/JPEG** from the menu.
3. Select **PJL** if necessary.

Managing Banner Sheet Printing Options

You can set the printer to print a banner page with each print job. The banner page contains information that identifies the user and job name.



Note: Ensure that the Banner Sheet printing option is enabled in the print driver. Ensure that the feature is enabled at the control panel or in CentreWare Internet Services. If the feature is not enabled, banner pages do not print.

Enabling Banner Sheet Printing in CentreWare Internet Services

1. In CentreWare Internet Services, click **Properties**→**Services**→**Printing**→**Print Mode**.
2. Under Banner Sheet, next to Sensing Separator Page, select **Enable**.
3. Next to Banner Sheet, select **Start Sheet**, **End Sheet**, or **Start Sheet & End Sheet**.
4. Select the tray from which the banner sheet must print.
5. To allow banner sheet printing to be enabled or disabled from the print driver, select **Enabled** next to **Allow Print Driver to Override**.
6. Click **Apply**.

Enabling Banner Sheet Printing from the Control Panel

To enable banner sheet printing from the Control Panel:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Print Service Settings**→**Other Settings**.
3. Touch **Banner Sheet**.
4. Touch **Change Settings**.
5. Touch **Start Sheet**, **End Sheet**, or **Start Sheet & End Sheet**.
6. Touch **Allow Print Driver to Override** to allow banner sheet printing to be enabled or disabled from the print driver.
7. Touch **Save**.

Enabling Banner Sheet Printing in the Print Driver

To enable banner sheet printing in the print driver:

1. With your file open, from the File menu of your application, click **Print**. The application print window appears.
2. Select your printer from the **Printer Name** menu.
3. To access the print settings for the job, click **Properties**.
4. Click the **Advanced** tab.

Printing

5. Expand the **Paper/Output** option.
6. Click **Banner Sheets**, then click the down arrow and select **Enabled** or **Disabled**.
7. Click **OK**.



Note: If banner sheet printing is disabled through CentreWare Internet Services or the at the printer control panel, setting the print driver to print banner sheets has no effect.

Print Service Settings

Configuring Print Service Settings

Allocating Memory for Print Settings

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Print Service Settings**→**Allocate Memory**.
3. Touch the item and then **Change Settings**.
4. Specify the amount of memory allocated to the following print settings as necessary.
 - HP-GL/2 Auto Layout Memory
 - Job Ticket Memory
 - Receiving Buffer USB, LPD, IPP, Port 9100
5. Touch **Save**.

Setting Memory for Other Types of Print Settings

1. At the printer control panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Print Service Settings**→**Other Settings**.

3. Touch the item, then select **Change Settings**.
 - **Print Area**: Touch **Extended** to print beyond the standard page margins.
 - **Substitute Tray**: Specify what happens when the printer runs out of a specific size paper, such as **Display a Message**, **Use Larger Size**, **Use Closest Size**, or **Select Tray 5**.
 - **Paper Type Mismatch**: Specify what happens when the paper type loaded in the tray does not match the paper type specified such as **Print**, **Display Confirmation Screen**, or **Display Paper Supply Screen**.
 - **Unregistered Forms**: Set whether to print a job if a form specified for printing in a form data file (overlay printing) is not registered on the printer. If you touch **Print**, only the data is printed, because the specified form is not present. The setting is added to the print settings menu when there is a print specification from the host computer.
 - **Resume Job After Print Error**: Touch **Job Resumes Automatically** to cancel a print job automatically when an error occurs. Touch **Resume by User** to display a control panel prompt that requires a user to cancel the job manually.
 - **When Paper Jam Occurs**: Touch **Resume Job after Jam Clearance** to continue printing a job after clearing a paper jam, or **Delete Job** to cancel the print job.
 - **Printer User ID**: You can print the User ID of a user on the page. Touch **Top Left**, **Top Right**, **Bottom Left**, or **Bottom Right**. Ensure that the User ID is specified in the print driver of the user.
 - **Sensing Separate Page**: Touch **Enabled** or **Disabled**.
 - **Banner Sheet**: To print an identifying page before each print job, touch **Start Sheet**. To print an identifying page after each print job, touch **End Sheet**. To print a page before and after each print job, touch **Start Sheet and End Sheet**.
 - **Banner Sheet Tray**: Select the tray to use for printing banner pages.
 - **XPS Print Ticket Processing**: Specify how the printer processes print tickets in XPS documents. Select **Standard Mode** or **Compatible Mode** to use the Microsoft-compliant mode.
 - **LPD Print Queue**: Touch **Data Processing Order** or **Job Submission Order** to specify the LPD print sequence.
 - **OCR Font Glyphs (OXSC)**: Choose between a backslash or the Japanese yen symbol.

Configuring Media Print Service Settings

To configure media print settings:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Media Print Service Settings**.
3. Select the paper supply preset from the list, and touch **Change Settings** to associate the paper tray to the paper supply selection.
4. Touch **Save**.



Note: The Media Print-Text feature allows users to print PDF, JPG, TIFF, and XPS files directly from a USB Flash Drive.

UNIX®, Linux®, and AS/400 Printing

UNIX-based printing uses LPD or LPR port 515 or port 9100 to provide printer spooling and network print server functionality. Xerox® printers can communicate using either protocol.

Xerox® Services for UNIX® Systems (XSUS)

XSUS is an application that allows you to manage and print to multiple printers in UNIX® and Linux® environments. With XSUS you can:

- Configure and check the status of network-connected printers.
- Set up a printer on your network and monitor the operation of the printer after installation.
- Perform maintenance checks and view supplies status at any time.
- Provide a common look and feel across the many different suppliers of UNIX® and Linux® operating systems.

Supported Printing Models

- **Workstation-to-printer (Peer-to-Peer):** Print jobs are processed and spooled locally on the computer, then sent directly to the printer. XSUS must be installed on each computer.
- **Workstation-to-Server (Client-Server):** Print jobs are processed and spooled on the computer and then sent to the printer to be printed. This model requires XSUS to be installed on both the server and on the computer.
- **Server Based:** Print jobs are sent unprocessed from the computer and are spooled on the server and then sent to the printer. This model requires XSUS to be installed on the server only. Individual computers can print to the printer by setting up a generic lp or lpr queue that points to the queue on the print server.
- **Network Information Service (NIS) Based:** NIS uses a printer configuration map on the server. When new printer queues are added to a print server, only the configuration file in the master NIS server must be updated. NIS clients can print to any of the queues listed on the server map without setting up local queues.



Note: For more information on how to set up NIS-based printing, refer to the *UNIX® or Linux® Operating System Manual*.

Installing XSUS

Before you begin:



Note: You must have root or superuser privileges to install XSUS.

Download the latest Unix®, Linux®, or Oracle® Solaris software from the Support page of the Xerox website. This includes the following two .tgz files:

- **Printer Model Package file** which contains ppd files for all printer models. The file name is **PrinterPkgXPXX_20xx_xx_xx.tgz**.
- **Print Driver** for your operating system. The available files are:

- **XeroxAIXpowerpcpxx_x.xx.xx.tgz** for the IBM RS6000 family.
- **XeroxHPUXXPXX_x.xx.xx.tgz** to support HP workstations.
- **XeroxLinuxi386XPXX_x.xx.xx.tgz** to support Linux® environments.
- **XeroxSolarisXPXX_x.xx.xx.tgz** for Oracle® Solaris systems.

Download the Files

To download XSUS software:

1. Set up a temporary directory to download the files.
2. Download the print driver and Printer Model Package .tgz files to the temporary directory.
3. At the UNIX® command line, type `gzip -dfv {filename.tgz}` then press **Return** or **Enter**. The {filename} must include a .tgz extension.
4. Type `tar -xvf {filename.tgz}` then press **Return** or **Enter**.
5. The files are expanded and two directories are created with names that match the print driver and Printer Model Package .tgz file names.



Note: The expansion steps must be done for both .tgz files.

Perform the Installation Procedure

The installation creates a Xerox directory in /usr or /opt depending on your operating system.

To install XSUS:

1. Change to the directory created by the expansion of the Code .tgz file.
2. On the command line, type `./setup` then press **Return** or **Enter**.
3. Change to the directory created by the expansion of the Printer Definition .tgz file.
4. Type `./setup` then press **Return** or **Enter**.

Launching XSUS

To launch XSUS from a terminal window prompt as root, type **xpadmin**, then press **Enter** or **Return**.



Note: XSUS detects automatically if your system X server can run in graphical mode, then starts accordingly.

For more information on managing printers and queues through XSUS, refer to the *XSUS Administrator Online Help*.

Printing from a Linux® Workstation

Ensure that CUPS is installed and running on your workstation. The instructions for installing and building CUPS are contained in the CUPS Software Administrators Manual, written and copyrighted by Easy Software Products.



Note: For complete information on CUPS printing capabilities, refer to the CUPS Software Users Manual available from www.cups.org/documentation.php.

Installing the Xerox® PPD on the Workstation

The Xerox® PPD for CUPS is available on the Xerox website. Download the file and follow the instructions that come with it.

To install the Xerox® PPD for CUPS:

1. Download the latest UNIX® PPD from the Support page of the Xerox® website.
2. Copy the PPD into your CUPS ppd or Xerox folder on your workstation. If you are unsure of the folder location, use the **Find** command to locate the PPDs on the workstation.

Adding the Xerox® Printer

To add the Xerox® printer to the CUPS printer list:

1. Verify that the CUPS daemon is running.
2. Open a Web browser and type `http://localhost:631/admin`, then click **Enter** or **Return**.
3. In User ID, type **root**. For password, type the root **password**.
4. Click **Add Printer** and follow the on screen prompts to add the printer to the CUPS printer list.

Printing with CUPS

CUPS supports the use of both the System V (lp) and Berkeley (lpr) printing commands.

- To print to a specific printer in System V, type: `lp -dprinter filename`, then click **Enter**.
- To print to a specific printer in Berkeley, type: `lpr -Pprinter filename`, then click **Enter**.

AS/400

Xerox provides Workstation Customizing Object (WSCO) files to support AS/400 or iSeries, V5R2 or later. The WSCO is a file that provides printer-specific PCL codes that the host print transform uses to select the correct tray, 2-sided (duplex) option, font size and type, and orientation.

The XTOOLSxxxx library provides a source WSCO file for each supported Xerox® printer or device. You are required to download and install the library once.



Note: The host print transform works only on files that are of the type AFPDS and SCS. To use the WSCO for printing, create PIDS-formatted printer files as AFPDS files.



Note: To create a device description or a remote queue, IOSYSCFG permissions are required.



Note: For details on AS/400, refer to the IBM AS/400 Printing V Redbook, available on the IBM website.

Installing the WSCO and Setting up Print Queues

For detailed instructions on installing the library and setting up print queues, refer to the installation instructions that are included with the library.

Image Registration Setups

This chapter contains:

- [Adjusting Image Alignment.....](#) 114
- [Adjusting Fold Position.....](#) 116

Adjusting Image Alignment

Adjustments can be made to the image based on the alignment output of a document. Various adjustments can be modified such as magnification and skew. This can be achieved by using the twenty default adjustment types. In addition, a specific paper tray can be assigned to a specific adjustment type.

Adjustments can be made when the position of the output image is misaligned or skewed. This may be a result of paper expansion or contraction, cutting inaccuracy, or paper storage conditions. Use Alignment Adjustment Setting features to compensate for misalignment and skew.

The following alignment adjustments can be made to the position of the output image. These are described in more detail in the following pages.

- **Perpendicularity Adjustment:** Adjust an image to be straight up or down.
- **Skew Adjustment:** Adjust a skewed image.
- **Magnification Adjustment:** Adjust this when the size (scale) of the printed image is offset.
- **Print Position Adjustment:** Use this option when making adjustments to the leading edge of the image (X direction) and side edge of the image (Y direction). For example, use this when the images on sides 1 and 2 are misaligned.



Note: When making adjustments to multiple items, adjust the image in the following order: Perpendicular, Skew, Magnification, and finally Print Position Adjustment.



Note: Select an adjustment and then click **Change Settings** to view the effect the settings have on the image.

Alignment Adjustment Procedure



Note: Adjust side 1 first, then match side 2 to side 1. When you account for paper size tolerances, the most accurate image alignment results are from folding the sheets in half instead of using the line that prints 10 mm from the edge of the paper.

1. Press the **Log In/Out** button, then enter System Administrator mode.
2. Select **Tools**→**System Settings**.
3. Select **Common Service Settings**, then select **Maintenance Settings**.
4. Use the arrows to scroll down the page.
5. Select **Alignment Adjustment**.
6. Select **Alignment Adjustment Type Setup**, then touch **Change Settings**.
7. Select **Type**.
8. To assign a type name, touch **Change Settings**.
9. Touch **Save**.



Note: Use a name such as A4 Plain to indicate the paper type in the tray.

10. Touch **Sample Printout**.
11. Select the paper tray from which you are printing, then select **1-Sided**. Using the **Number of Sheets** option, run at least 3 sheets.

12. Press the **Start** button.



Note: If the position of the sample output is correct, a line prints at a position 10 mm from the edge of the paper. If the position of the line on the sample output is misaligned, make adjustments accordingly. Two lines print on the image of side 1 and one line prints on the image of side 2 of the sample to indicate the paper feed direction.

The current sample output is printed.

13. Adjust the image in this order: Perpendicular, Skew, Magnification, and Print Position.
14. Touch **Save**.
15. Repeat steps 12–14 until Side 1 reaches the state that you require.
16. Select **2-Sided Print** and align side 2 to match side 1.



Note: Hold the sheet up to a light source where you can see through the sheet. This helps you to match the images on both sides.



17. After you finish making adjustments, touch **Sample Printout** again to print an output sample, then check the adjustment results.
18. Make adjustments again if necessary.
19. Touch **Close**.
20. Select the tray to which you want to assign the adjustment type, then touch **Change Settings**.
21. Select the adjusted type, then touch **Save**.

Adjusting Fold Position

This section describes the procedure for adjusting the fold position. You can adjust the fold position for various paper types and set adjustment values to any of 10 default types. You can assign a set type to each tray.

Fold Position Adjustment

To adjust the fold position:

1. Load the paper tray.
2. Press the **Log In/Out** button, and enter System Administrator mode.
3. Select **Tools**→**System Settings**.
4. Select **Common Service Settings**, then select **Maintenance Settings**.
5. Select **Finisher Adjustment**.
6. Select **Adjust Fold Position**.
7. Select **Fold Position Type Setup**, then touch **Change Settings**.
8. Select the paper fold position type you want to set or adjust, then touch **Change Settings**.
9. Select **Name**, then touch **Change Settings**.
10. Enter a name for the paper fold position type, then touch **Save**.
 **Note:** Use a name that indicates the fold type, for example Single Fold Plain.
11. Select the fold type, then touch **Change Settings**.
 **Note:** For details on making each fold adjustment, refer to the onscreen instructions.
12. Select the settings that you require, then click **Sample Printout**.
13. Select the tray, then press the **Start** button.
14. Measure the fold position using the output sample, and adjust the fold position accordingly.
15. Make adjustments to the items, if necessary.
16. After you finish making adjustments, print another output sample using the **Sample Printout** option, then check the adjustment results.
17. Touch **Save**.
18. Make adjustments accordingly. If necessary, repeat steps 12–14.
19. Touch **Close** until the **Adjust Fold Position** screen appears.
20. Select the tray to assign the fold position type for the tray in which you loaded the paper in step 1, then touch **Change Settings**.
21. Select the adjusted fold position type, then touch **Save**.



Single Fold Position Adjustment

To adjust single fold settings:

1. Select **Single Fold**, then touch **Change Settings**.
2. Specify the sheets to be folded, then select **Sample Printout**.
3. Select the tray, then press the **Start** button.
4. Touch **Close**.
5. Check the output sample printout, and measure the offset amount.
6. Select **Long at Left** or **Long at Right**.
7. In the **Values A Before Adjustment** field, enter the measurement value that you obtain in step 5 using the up or down arrows.
8. Touch **Adjust**.
9. Touch **Sample Printout** again to print an output sample, then check the adjustment results.
10. Make adjustments again if necessary. Repeat steps 6–8.
11. Touch **Save**.

Booklet Position Adjustment

To adjust booklet fold positioning:

1. Select **Booklet**, then touch **Change Settings**.
 2. Touch **Sample Printout**.
 3. Select the tray, select **2-Sheet Stack**, then press the **Start** button. An output sample is printed.
 4. Select the tray, select **15-Sheet Stack**, then press the **Start** button.
 5. Touch **Close**.
 6. Check the output sample, and measure the position offset amount for 2-sheet stack and 15-sheet stack.
 7. Select **Booklet Fold State (2 Sheets)**.
 8. Select the state of the fold and staple position of the output paper, and enter the 2-sheet stack offset amount that you measured in step 6 in the **Values A** field.
 9. Touch **Save**.
-  **Note:** The values between 2-sheet stack and 15-sheet stack are adjusted automatically.
-  **Note:** When you want to specify the number of sheets separately, use the set **Variable-Sheet Booklet** option to make the proper selections.
10. Touch **Sample Printout** again to print an output sample, then check the adjustment results.
 11. Make adjustments again if necessary. Repeat steps 6–9.
 12. Touch **Save**.

C Fold Position Adjustment

To adjust the C fold position:

1. Select **C Fold-A4** or **C Fold-8.5x11**, then touch **Change Settings**.

2. Touch **Sample Printout**.
3. Select the tray, then press the **Start** button.
4. Touch **Close**.
5. Check the output sample, and measure the A and B fold position movement amounts.
6. In the **Values A** field, enter the measurement value that you obtained in the previous step.



Note: Set value A and value B so that an edge of the paper does not extend past a fold position of the paper. An edge of paper that extends past a fold position of the paper can cause a paper jam.

7. Touch **Sample Printout** again to print an output sample, then check the adjustment results.
8. Make adjustments again if necessary, as in [step 6](#).
9. Touch **Save**.

Z-Fold Position Adjustment

To adjust the Z-fold position:

1. Select **Z Fold-A4** or **Z Fold-8.5x11** and press **Change Settings**.
2. Touch **Sample Printout**.
3. Select the tray, then press the **Start** button.
4. Touch **Save**.
5. Check the output sample, and measure the A and B fold position movement amounts.
6. In the **Values A** field, enter the measurement value that you obtained in the previous step.



Note: Set value A and value B so that an edge of the paper does not extend past a fold position of the paper. An edge of paper that extends past a fold position of the paper can cause a paper jam.

7. Touch **Sample Printout** again to print an output sample, then check the adjustment results.
8. Make adjustments again if necessary, as in [step 6](#).
9. Touch **Save**.

Z Fold Half Sheet Position Adjustment

To adjust Z-fold positioning:

1. Select **Z Fold Half Sheet-A3**, **Z Fold Half Sheet-B4**, **Z Fold Half Sheet-11x17**, or **Z Fold Half Sheet -8K**, then touch **Change Settings**.
2. Touch **Sample Printout**.
3. Select the tray, then press the **Start** button.
4. Touch **Save**.
5. Check the output sample, and measure the A and B fold position movement amounts.

6. In the **Values A** field, enter the measurement value that you obtained in the previous step.



Note: Set value B so that an edge of the paper does not extend past a fold position of the paper. An edge of paper that extends past a fold position of the paper can cause a paper jam.

7. Touch **Sample Printout** again to print an output sample, then check the adjustment results.
8. Make adjustments again if necessary, as in [step 6](#).
9. Touch **Save**.

Copying

This chapter contains:

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- Creating Copy Feature Presets..... 123
- Copy Control..... 124
- Original Size Defaults 125
- Reduce and Enlarge Presets..... 126
- Defining Custom Colors..... 127

Specifying Default Copy Settings

To specify the default copy settings that users see at the Control Panel:

1. At the printer Control Panel, log in as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Copy Service Settings**.
3. Touch **Copy Defaults**.
4. Touch the desired setting. For copy setting details, refer to *Xerox® EC70 Color Copier/Printer User Guide*.
5. Touch **Change Settings**.
6. Make the desired changes to the setting, then touch **Save**.

Creating Copy Feature Presets

To define a preset for commonly used copy settings:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Copy Service Settings**.
3. Touch **Preset Buttons**.
4. Touch a preset in the list, then touch **Change Settings**.
5. Make the desired changes to the preset, then touch **Save**.

Copy Control

To control copy settings:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Copy Service Settings**.
3. Touch **Copy Control**.
4. Touch a setting in the list.
5. Touch **Change Settings**.
6. Make the desired changes, then touch **Save**.

Original Size Defaults

To change the default size specifications for originals:

1. At the printer Control Panel, log in as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Copy Service Settings**.
3. Touch **Original Size Defaults**.
4. Touch an original size in the list.
5. Touch **Change Settings**.
6. Make the desired changes to the preset, then touch **Save**.

Reduce and Enlarge Presets

To change the presets for reducing or enlarging images:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Copy Service Settings**.
3. Touch **Reduce/Enlarge Presets**.
4. Touch a preset in the list, then touch **Change Settings**.
5. Make the desired changes to the preset, then touch **Save**.

Defining Custom Colors

To define custom colors:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Copy Service Settings**.
3. Touch **Custom Colors**.
4. Touch a custom color in the list, then touch **Change Settings**.
5. Touch the arrows to increase or decrease the values for Yellow, Magenta, or Cyan, then touch **Save**.

Scanning

This chapter contains:

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Configuring General Scan Service Settings

Setting Scan Defaults

To define scanning default settings for all users:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Scan Service Settings**→**Scan Defaults**.
3. Touch a default setting in the list, then touch **Change Settings**.
4. Make the desired changes to the default setting, then touch **Save**. For details, refer to www.xerox.com/support. Enter *Xerox Color EC70 Printer* in the **Search** or **Choose** field and select the desired documentation.

Setting Scan to PC Defaults

To define default Scan to PC settings for all users:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Scan Service Settings**→**Scan to PC Defaults**.
3. Touch a default setting in the list, then touch **Change Settings**.
4. Change the following settings as necessary:
 - **Transfer Protocol:** Touch **FTP**, **SMB**, or **SMB (UNC Format)**.
 - **Login Credential to Access Destination:** Touch **Remotely Authenticated User** to use the user name and password of the remotely authenticated user for login.
 - **User Name for FTP Scan:** If you selected **Remotely Authenticated User** for the **Login Credential to Access Destination** setting, touch **User Name Only**, to only use the User Name for login, or **Add Domain Name** to use the full login credential name of the user, including the domain name.

Scanning to a Folder on the Printer

The Store to Folder feature allows users to scan files to folders created on the hard drive of the printer. These files can then be retrieved through CentreWare Internet Services. This feature provides network scanning capability without the need to configure a separate server.

- To use this feature, you must purchase and install the Scan Kit. For details, refer to the instructions included with the kit.
- For details, refer to www.xerox.com/support. Enter Xerox Color EC70 Printer in the **Search** or **Choose** field and select the desired documentation.

Managing Folders and Scanned Files

Creating and Editing a Folder

To create a scan folder on the hard drive of the printer:

1. In CentreWare Internet Services, click the **Scan** tab and choose **Folder**.
2. Next to a folder number, click **Create**.
3. Type a name for the folder.
4. If required, type a password, then retype the password again to verify.
5. Next to Check Folder Passcode, select **Always**, **Save (Write)**, or **Print/Delete**.
6. Next to Delete Files after Print or Retrieve, select **Enabled** to delete files after they are printed or retrieved.
7. Next to Delete Expired Files, select **Enabled** to delete files after the stored file folder date expires.
8. Click **Apply**.
9. To edit or delete a folder, click **Edit** or **Delete** next to the folder number.

Scheduling Deletion of Files Stored in Folders

To minimize disk space consumed by stored files, the printer can delete files after a specified time period.

To schedule deletion of files stored in scan folders:

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Stored File Settings**.
3. Touch **Expiration Date for Files Stored in Folder** and **Change Settings**.
4. Touch **On** and select the number of days that files are kept before deletion, and the time that they are deleted on the last day.
Touch **Next** to move between fields, if necessary.
5. Touch **Save**.

Configuring Scan Folder Service Settings

To configure scan folder settings:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Folder Service Settings**.

3. Touch **Change Settings** and change the following settings as necessary:
 - **Files Retrieved by Client:** Specify when to delete files that have been retrieved from a folder. Touch **Delete According to Folder Settings** to use the folder settings or touch **Force Delete** to ignore the folder settings and delete files from folders after they are retrieved.
 - **File Display Default:** Touch **List** or **Thumbnail**.
 - **Orientation for Stored Print Jobs:** Select **Portrait** or **Landscape**.
 - **Print and Delete Confirmation Screen:** Touch **Enabled** to display a confirmation message on the touch screen when a file is printed and deleted from a folder.
 - **Quality/File Size for Retrieval:** Select the quality and size that files will be compressed to when retrieved from a folder.
 - **Convert Custom Size to Standard Size:** Touch **Yes** to convert files in folders to a standard size when transferring a fax or Internet Fax for secure polling.
 - **Standard Size Threshold Value:** Specify the standard size for the **Convert Custom Size to Standard Size** setting.
 - **Internet Fax to Internet Fax:** Touch **Enabled** to allow users to forward files stored in folders using the Internet Fax service.
 - **Internet Fax to Email:** Touch **Enabled** to allow users to forward files stored in folders using the Email service.

Scanning to an Email Address

Scanning to an email address sends scanned documents as attachments to email.

For instructions explaining how to use this feature, refer to the User Guide at www.xerox.com/support.

Configuring Email Settings

1. At the printer Control Panel, login as Administrator, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**E-mail/ Internet Fax Service Settings**→**E-mail Control**.

3. Change the following settings as necessary:

- **Maximum Address Entries:** Select the maximum number of email addresses to which a scanned document can be sent. This includes To:, Cc:, and Bcc: fields.
- **Incoming E-Mail Print Options:** Select the parts of the email that you want to print: **Print Attachment Only**, **Attachment**, **Full Headers + Message**, **Attachment**, **Basic Headers + Message**.
- **Print Error Notification E-mail:** Touch **On** to print an error report when an email transmission error occurs.
- **Response to Read Receipts:** Touch **On** to allow the printer to respond to a request for a read receipt (MDN) after an email is received.
- **Read Receipts:** Touch **On** to allow the printer to request a read receipt (MDN) when an email is sent.
- **Print Delivery Confirmation Mail:** Touch **On** to print a confirmation report (Delivery Status Notification - DSN response or Mail Delivery Notification - MDN response) for every transmission. Touch **Print when delivery fails** to print a report when a transmission fails.
- **Split Send Method:** Touch **Split into Pages**, or **Split by Data Size** to split a large email into multiple email messages.
- **Maximum Data Size per E-Mail:** Specify the maximum size of an email that splits when using the Split by Data Size method.
- **Maximum Total Data Size:** Specify the maximum size of an email that can be sent.
- **Maximum Split Count:** Specify the maximum number of splits.
- **Allow Casual Users to Edit From Field:** Touch **Yes** to allow any user to edit the From field of an email.
- **Allow Guest Users to Edit From Field:** Touch **Yes** to allow users authenticated as a guest to edit the From field of an email.
- **Allow to Edit From if Search Found:** Touch **Yes** to allow users to edit the From field of an email if the search for an email address of the user in the address book is successful.
- **Allow to Edit From if Search Failed:** Touch **Yes** to allow users to edit the From field of an email if the search for an email address of the user in the address book fails.
- **Email Sending When Search Failed:** Touch **Enabled** to disable the Email service if the user's search for an email address in the address book fails.
- **Add Me to "To" Field:** Touch **Yes** to automatically add the authenticated email address of the user to the To field of an email.
- **Add Me to "Cc" Field:** Touch **Yes** to automatically add the authenticated email address of the user to the Cc field of an email.
- **Edit E-mail Recipients:** Touch **Yes** to allow users to edit the To, Cc, and Bcc fields of an email.

Editing Default Email Settings

To edit default email settings in CentreWare Internet Services:

1. In CentreWare Internet Services, click **Properties**→**Services**→**E-mail**→**General**.
2. Click **Edit**.

3. Next to Receiving Protocol, select **POP3** or **SMTP**.
4. Next to From Address, type the text that you want to appear in the **From** field of email.
5. Next to From Name, type the text that you want to appear in the **Name** field of email.
6. Next to Allow Authenticated Users to Edit [From:] Field when, select: **Address Book (LDAP) Search Successful** or **Address Book (LDAP) Search Failure**.
7. Next to Allow Guest Users to Edit [From:] Field, select **Yes** to allow users authenticated as a guest to edit the From field of an email.
8. Next to Allow Authenticated Users to send E-mail despite LDAP Search Failure, select **Yes** to allow authenticated users to send an email if the search in the address book of the user fails.
9. Next to Edit [From:] Field when Authorization is not Required, select **Yes** to allow users to edit the **From** field of an email if the search for an email address of the user in the address book is successful.
10. Next to Subject, type the text that you want to appear in the Subject field of an email.
11. Next to Message, type the text that you want to appear in the body of an email.
12. Under User, Attachment, or Device Information, select additional information that you want to be added to the body of the email.
13. Next to Signature, type the text that you want to be added to the end of the body of the email.
14. Next to Encryption, select **Enabled** if you want to use E-mail encryption.
15. From the Confirmation Sheet drop-box, select **On** to always print a confirmation sheet, **Off** to never print a confirmation, or **Errors Only** to print a confirmation only when errors occur.
16. Next to Add Me to "To" Field, select **Enabled** to automatically add the authenticated email address of the user to the To field of an email.
17. Next to Add Me to "Cc" Field, select **Enabled** to automatically add the authenticated email address of the user to the Cc field of an email.
18. Next to Edit E-mail Recipients, select **Enabled** to allow users to edit the To, Cc, and Bcc fields of an email.
19. Next to Incoming E-mail Print Options, select the parts of the email that you want to print.
20. Next to Print Delivery Confirmation E-mail, select **On** to always print a confirmation report or select **Print when delivery fails** to print a confirmation message when a transmission fails.
21. Next to Print Error Notification E-mail, select **Enabled** to print an error report when an email transmission error occurs.
22. Next to Response to Read Receipts, select **Enabled** to allow the printer to respond to a request for a read receipt (MDN) after an email is received.
23. To block or allow email transmissions to or from specific domains, next to Domain Filtering, select **Allow Domains** or **Block Domains**, then click **Edit**. Type the domain names on the Domain Filter Settings page, click **Apply** at the bottom of the page.
24. Click **Apply**.

Network Scanning

Network Scanning allows you to scan an original document and distribute and archive the scanned image file. The Network Scanning feature is designed to simplify the task of scanning many multi-page documents and saving the scanned image files in one or more file locations.

To specify how and where scanned images are stored, you must create a template. You can create, manage, and store multiple templates in a template pool repository on a network server. Xerox® software, such as SMARTsend and ScanFlowStore, is designed to help you create and manage Network Scanning templates.



Note: To use this feature, you must purchase and install the Scan Kit. For details, refer to the instructions included with the kit.



Note: For details, refer to www.xerox.com/support. Enter Xerox Color EC70 Printer in the **Search** or **Choose** field and select the desired documentation.

Before you begin:

- Purchase and install the Scan Kit. For details, refer to the instructions included with the kit.
- Verify that a digital certificate is installed on the printer, and Secure HTTP (SSL) is enabled.

Enabling Network Scanning

To enable network scanning:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**Scan Template Management**.
2. Next to Status, click **Enabled**.

Configuring Network Scanning

To configure network scanning:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**General**.
2. Next to Confirmation Sheet, click **On** to print a confirmation sheet for every scan, or select **Errors Only** to print only a confirmation sheet if an error occurs.
3. Next to File Name Extension, select whether extensions need to be reflected in lowercase or uppercase letters.
4. If you are using a remote template pool server, next to Refresh Start Time, select the time of day (0:00–23:59) when the list of templates is refreshed.
5. Click **Refresh Template List Now** to refresh the list immediately.

Configuring File Repository Settings

A file repository is a network location where scanned images are stored. Configure the file repository settings before you create a template.

The printer supports the following transfer protocols:

- FTP
- SMB
- HTTP/HTTPS

Before you begin:

1. Ensure that FTP services are running on the server or computer to be used to store scanned image files. Note the IP address or host name.
2. Create a user account and password with read and write access for the printer to use to access the repository folder. Note the user name and password.
3. Create a folder within the FTP root. Note the directory path, user name, and password. This is your file repository.
4. Test the connection. Log into the file repository from a computer with the user name and password. Create a new folder in the directory, then delete it. If you cannot do this, check the user account privileges.

FTP

Before you begin:

- Ensure that FTP services are running on the server or computer to be used to store scanned image files. Note the IP address or host name.
- Create a user account and password with read and write access for the printer to use to access the repository folder. Note the user name and password.
- Create a folder within the FTP root. Note the directory path, user name, and password. This is your file repository.
- Test the connection. Log into the file repository from a computer with the user name and password. Create a new folder in the directory, then delete it. If you cannot do this, check the user account privileges.

To configure FTP repository settings:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**File Repository Setup**.
2. Click **Add**.
3. Next to Friendly Name, type a name for the repository.
4. Select **FTP** from the Protocol menu.
5. Next to Host Name / IP Address + Port, type the appropriately formatted address and port number of your FTP server.
6. Next to File Path, type the directory path of the folder beginning at the root of FTP services. Example: /directoryname/foldername.

7. Under Login Credentials to Access the Destination, select one of the following:
 - **Authenticated User and Domain:** The authentication server validates the user credentials prepended by the domain name against the LDAP server.
 - **Authenticated User:** The authentication server validates the user credentials against the LDAP server.
 - **Prompt at User Interface:** Users type their credentials at the Control Panel.
 - **System:** Login name and password credentials are specified in this field and stored in the printer. The printer uses the system credentials to log into the file server.
8. Type the **Login Name** and **Password** if the system is accessing the file server directly.
9. Retype the password to confirm.
10. Click **Apply**.

SMB

- Ensure that SMB services are running on the server or computer where you want to store scanned image files. Note the IP address or host name.
- Create a user account and password with read and write access for the printer to use to access the repository folder. Note the user name and password.
- On the SMB server, create a shared folder. This is your file repository. Note the directory path, share name of the folder, and the computer name or server name.
- Test the connection. Log into the file repository from a computer with the user name and password. Create a new folder in the directory, then delete it. If you cannot do this, check the user account privileges.

To configure SMB file repository settings:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**File Repository Setup**.
2. Click **Add**.
3. Next to Friendly Name, type a name for the repository.
4. Select **SMB** from the Protocol menu.
5. Next to Host Name / IP Address + Port, type the appropriately formatted address and port number for the server where the file repository is located. The default port number is 139.
6. Next to Shared Name, type the share name.
7. Next to the File Path field, type the directory path of the folder that starts at the root of the shared folder. Example: If you have a folder named scans in the shared folder, type `\scans`.
8. Under Login Credentials to Access the Destination, select one of the following:
 - **Authenticated User and Domain:** The authentication server validates the user credentials prepended by the domain name against the LDAP server.
 - **Authenticated User:** The authentication server validates the user credentials against the LDAP server.
 - **Prompt at User Interface:** Users type their credentials at the Control Panel.
 - **System:** Login name and password credentials are specified in this field and stored in the printer. The printer uses the system credentials to log into the file server.
9. Type the Login Name and Password if the system is accessing the file server directly.
10. Retype the password to confirm.

11. Click **Apply**.

HTTP/HTTPS

Before you begin:

- Enable HTTP or Secure HTTP (SSL). Ensure that a certificate is installed on the printer if you are using SSL.
- Configure your Web server, and ensure that HTTP/HTTPS services are running. CGI script processes the POST requests and scanned data that are sent to the server. Note the IP address or host name of the Web server.
- Create a user account and password for the printer on the Web server. Note the user name and password.
- Create a home directory for the printer.
- Create a bin directory in the home directory
- Copy an executable CGI script in the bin directory. You can create your own script, or download a sample script. Note the path to the script. The script can be defined with `script_name.extension` or by `path/script_name.extension`.
- Create a folder with read and write permissions on the Web server, or alternate server. Note the directory path, user name, and password. This is your file repository.
- Test the connection by logging in to the home directory of the printer on the Web server. Send a POST request and file to the Web server. Check to see if the file is in the repository.

CGI Scripts

A Common Gateway Interface (CGI) script is a program on a Web server that is executed when the server receives a request from a Web browser. A CGI script is required to allow files to be transferred to your HTTP server from your printer.

When a document is scanned, the printer logs into the Web server, sends a POST request along with the scanned file, then logs out. The CGI script handles the remaining details of file transfer.

To configure HTTP/HTTPS file repository settings:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**File Repository Setup**.
2. Click **Add**.
3. Next to Friendly Name, type a name for the repository.
4. Select **HTTP** or **HTTPS** from the Protocol menu. Secure HTTP (SSL) is used to encrypt HTTP communication between the printer and client computers using CentreWare Internet Services. This includes data sent using IPSec, SNMP, and Audit Log A.
5. Next to Host Name / IP Address + Port, type the appropriately formatted address and port number of your HTTP or HTTPS server.
6. For HTTPS, click **View Trusted SSL Certificates** to verify that a digital certificate is installed on the printer.
7. For HTTPS, select **Validate Repository SSL Certificate** to have the SSL certificate of the server validated for the correct host name and checked for a signature of a trusted certificate authority.

8. Click **View HTTP Proxy Server Settings** to verify that your proxy settings allow the printer to access your Web server.
9. Next to Script Path and Filename from HTTP Root, type the path to the CGI script that starts at the root. Example: /directoryname/foldername.
10. Next to File Path, type the directory path of the folder that starts at the root. For Web server directories, type in the path that starts at the root. Example: \\directoryname\\foldername.
11. Under Login Credentials to Access the Destination, select one of the following:
 - **Authenticated User and Domain:** The authentication server validates the user credentials prepended by the domain name against the LDAP server.
 - **Authenticated User:** The authentication server validates the user credentials against the LDAP server.
 - **Prompt at User Interface:** Users type their credentials at the control panel.
 - **System:** Login name and password credentials are specified in this field and stored in the printer. The printer uses the system credentials to log into the file server.
 - **None:** No credentials required.
12. If necessary, type the **Login Name** and **Password**, if the system is accessing the file server directly.
13. Retype the password to confirm.
14. Click **Apply**.

Configuring the Default Template

Before you can use the Network Scanning feature, you must create and edit a template. A template contains scan settings and at least one destination for the scanned image files.

You must configure the default template before you can create a new template. After the default template is configured, all new templates created inherit the default template settings and can be edited as required.



Note: The default template cannot be deleted.

To configure the default template:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**Default Template**.
2. Under File Destination, select **File** to add file destinations, and **Fax** to add fax destinations.
3. Add File Destinations, Fax Destinations, MetaData fields, and configure other scanning options.

Editing File Destination Settings

To edit scan file destinations in the scan template:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**Default Template**.
2. Under File Destination, select the template and click **Edit**.
3. Select the required **Filing Policy** from the menu.
4. Click **Apply**.

Adding MetaData Fields

You can add fields to the template to help you manage scanned image files. The fields appear when a user selects the template at the Control Panel. The user can type information about the document they are scanning. The information is filed with each scanned image file in the Job Log. The third-party software accesses the Job Log and the information can be retrieved and associated with the scanned files.

To add MetaData Fields:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**Default Template**.
2. Under MetaData Fields, click **Add**.
3. Type a name for **Field Name**. This text is not shown at the Control Panel and is used by third-party software to access the MetaData information. This field cannot be empty.
4. Next to **User Editable**, select **Editable** if you want to allow users to modify the field. Under **Label**, type a label that identifies the purpose of the field to the user. Select **Not Editable** if you do not want the user to change the value. The field appears not on the Control Panel, and the text typed in the **Default Value** field is used.
5. Type a **Default Value** if the field is not editable. The **Default Value** is optional if the user edits the field.
6. If the field is editable, select **Require User Input** to prompt the user to type data for this field before scanning.
7. If the field is editable, select **Mask User Input** to display typed characters as asterisks (****) at the Control Panel. Select **Record User Input to Job Log** to write any masked data to the Job Log file. Consider data security issues before you select this.
8. **Validate Data Before Scanning** options are also available if there are validation servers configured for the printer.
9. Click **Apply** to save the settings.

Configuring Other Default Template Scanning Options

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**Default Template**.
2. Click **Edit** to edit the following settings. Many of these settings are described in the User Guide.
 - Network Scanning
 - Advanced Settings
 - Layout Adjustment
 - Filing Options
 - Report Options
 - Network Scanning Image Settings
 - Compression Capability
3. To restore the Default Template to its original settings, click **Apply Factory Default Settings**. This deletes any custom settings applied to the Default Template.

Configuring Template Pool Repository Settings

If you want to store Network Scanning templates on your network, or if you are using a scanning management application such as SMARTsend®, or ScanFlowStore®, you must provide information about the server that hosts the templates.

1. In CentreWare Internet Services, click **Properties**→**Service**→**Network Scanning**→**Advanced**→**Template Pool Setup**.
2. Your template pool repository can be configured to transfer files using FTP, SMB, HTTP, or HTTPS. Configure the settings by following the same instructions as you did when [Configuring File Repository Settings](#).



Note: The format for an FTP directory path is `/directory/directory` while the format for a directory path for SMB is `\directory\directory`.

Updating the List of Templates at the Control Panel

If you are storing templates on your network in a template pool repository, when you make any changes to the templates in the repository, update the list of templates that displays at the Control Panel.

To update the list of templates displayed on the Control Panel:

1. Press the **Services Home** button on the Control Panel, then touch the **Network Scanning** icon.
2. Touch **Update Templates**.

Configuring a Validation Server

Scan metadata entered at the printer Control Panel can be verified against a list of valid values by a validation server.

To configure a validation server:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Network Scanning**→**Validation Servers**.
2. Click **Add**.
3. Select the appropriate protocol from the menu.
4. Next to Host Name / IP Address + Port, type the appropriately formatted address and port number of the server. The default port number is 443 for HTTPS.
5. Next to Path, type the path on the server.



Note: The format for an FTP directory path is `/directory/directory` while the format for a directory path for SMB is `\directory\directory`.

6. Type a **Response Timeout** between 5 and 100 seconds.
7. Click **Apply**.

Scanning to the Home Folder of a User

The Scan to Home feature allows users to scan to their home folder, as defined in your LDAP directory, or to a shared folder on the network.

Before you begin:

- Enable and configure Network Scanning.
- Configure Network Authentication. The authentication server and the server that you are scanning to must have the same domain.

If you want to scan to the home folder defined in an LDAP directory:

- LDAP server settings must be configured.
- Each home folder of the user location must be defined in the LDAP directory.

If you want to scan to a shared folder on the network, create a shared folder on your network with read and write access privileges.

Configuring Scan to Home

To configure scanning to the home directory of a user:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Scan to Home**→**General**.
2. Next to Status, click **Enabled**.
3. Type a Friendly Name up to 127 characters in length. This is the default description of the template that displays for users when you scan at the Control Panel.
4. Type a Template Name up to 127 characters. This is the default name that displays for users when scanning at the Control Panel. If you leave this field blank, the template is named @S2HOME.
5. Specify the home directory:
 - To scan to the home directory of a user defined in the LDAP directory, next to Determine Home Directory, select **LDAP Query**.
 - To scan to the home directory of a user defined on a specific computer, next to Determine Home Directory, select **NO LDAP Query**. Next to Network Home Path, type the IP address of the computer.
6. To create a subdirectory that contains the scanned files, select **Automatically Create Subdirectory**, and type the Subdirectory name.
7. Select **Append "User Name" to Path** to create a folder for each user in the directory.
8. Select **Automatically Create "User Name" directory if one does not exist** to create a folder for each user in the directory if it does not exist.
9. Select the directory structure that you want to use.
10. Choose the level of login access and control required to access the destination.
11. Enter the Login Name, if necessary.
12. Enter the Password and retype to confirm.
13. Click **Apply**.

Scanning to a USB Drive

The Store to USB feature allows users to scan a document to a USB flash drive using the USB port on the printer Control Panel.



Note: To use this feature, you must purchase and install the Scan Kit. For details, refer to the instructions included with the kit.

Enabling Scan to USB Functionality

To enable users to scan files to a USB drive:


1. In CentreWare Internet Services, click **Properties**→**Services**→**Store to USB**→**General**.
2. Next to Store to USB, select **Enabled**.
3. Click **Apply**.


Job Flow Sheets

You can create a Job Flow to execute a series of actions on a scanned document that is stored in a folder. The actions are defined in a Job Flow Sheet.

To configure a Job Flow, you must:

- Create a Folder
- Create a Job Flow Sheet
- Link the Job Flow Sheet to the Folder

 **Note:** To use scanning with this feature, you must purchase and install the Scan Kit. See the instructions included with the kit for details.

 **Note:** To use fax with this feature, you must purchase and install the Fax Hardware Kit. See the instructions included with the kit for details.

 **Note:** For details, refer to www.xerox.com/support. Enter Xerox Color EC70 Printer in the **Search** or **Choose** field and select the desired documentation.

Before you begin:

- Purchase and install the Scan Kit. For details, refer to the instructions included with the kit.
- Enable ports for SNMP, SOAP, and UDP.

Create a Folder

Create a folder. For details, refer to [Creating and Editing a Folder](#).

Create a Job Flow Sheet

To create a job flow sheet:

1. In CentreWare Internet Services, click **Scan** → **Job Flow Sheets**.
2. Next to Sheet Type, select **Personal** or **Shared**.
3. Enter a User Name.
4. Next to Sheet Order, select the order in which you want to have sheets displayed.
5. Click **Display Job Flow Sheets List**.
6. Click **Create Job Flow Sheet**.
7. Next to Job Flow Sheet Name, type a name for the sheet.
8. Next to Description, type a description for the sheet.
9. Next to Keyword, type keywords that help users find the sheet when you search at the Control Panel.
10. Click **Apply**.
11. Refresh your Web browser and navigate back to the Job Flow Sheets page.
12. Click **Display Job Flow Sheets List**.
13. Select the sheet you created and click **Edit Job Flow Sheet**.

14. Under Edit Job Flow Sheet, next to **Edit Destination**, select an action that you want to take on the documents in your folder such as Print, Fax, Internet Fax, Email, FTP, SMB, and Email Notification.



Note: Ensure the service that you select is configured correctly as specified in this guide, and the required scan or fax kit is installed on the printer.

15. Click **Edit Job Flow Sheet**.

16. Select file handling options:

- Email or Internet Fax: Type the names and email addresses of the recipient, and select the **File Format**.

For email, enable thumbnail previews if necessary. To use this option, you must purchase and install the Thumbnail Preview Kit.

Select **MRC High Compression options**, and enable **Searchable Text** options if needed. To use this option, you must purchase and install the Searchable PDF Kit.

- Print: Select the **Paper Supply** tray, **Output Destination** tray, **Quantity**, and **2 Sided Printing** options as required.
- Fax: Type the name and email address (fax phone number) of the recipient, and select the **Starting Rate**.

Type the **Folder Number** of the folder and the **Folder Passcode**.

Select **Send Relay Broadcast**, or **Print at Relay Station** if necessary.

Type the **Relay Station ID / Broadcast Recipients**, **F Code** and **Password** if necessary.

- FTP or SMB: Type the **Name** and the **Server Name**.

Next to Save in, type the directory path of the folder where you want to send scanned documents.

Type the **Login Name** and **Password** of the folder.

Select the **File Format**, and enable thumbnail previews if needed. To use this option, you must purchase and install the Thumbnail Preview Kit.

Select **MRC High Compression options**, and enable **Searchable Text** options if needed. To use this option, you must purchase and install the Searchable PDF Kit.

- Email Notification: Type the email addresses of the recipient and select **When to Notify** options. Type a message that is included in the body of the email.

17. Click **Apply**.

18. Add other destinations as necessary. Destinations appear on the Job Flow Sheet Common Attributes page after they are added to the Job Flow Sheet.

Job Flow Sheet Restrictions

Actions available for use in a Job Flow Sheet are listed below.

- Print
- Fax
- Internet Fax
- Mail

Scanning

- FTP
- SMB

There are restrictions on the combination of actions that can be used in a Job Flow Sheet. The table shown here illustrates the availability of various actions.

Action	Print	Fax	Internet Fax	Mail	FTP	SMB
Fax Documents for Secure Polling	■	■	■	■	■	■
Scanning	■	■	■	■	■	■
Fax to Folder	■	■	■	■	■	■
Internet Fax Received	■	■	●	●	■	■
Print Stored	▲	▲	▲	▲	▲	▲
■ Always Available; ● Never Available; ▲ Available depending on System Administrator Settings						

Link the Job Flow Sheet to a Folder

To link a job flow sheet to a scan folder:

1. In CentreWare Internet Services, click **Scan→Folder**.
2. Next to the folder to which you want to create a link, click **Edit**.
3. If available, under Link Job Flow Sheet to Folder, next to **Sheet Type**, select the type of Job Flow Sheet to which you want to create a link.
4. Click **Display Job Flow Sheets List**.
5. Select your Job Flow Sheet from the list, and click **Link Job Flow Sheet to Folder**.

Xerox® Scan Utility

The Xerox® Scan Utility (XSU) allows you to scan directly to your computer and helps you manage and distribute scanned image files. Before you can scan, you must create a template in the utility. The template is saved on the printer. The scan utility is installed when you install scan drivers. For instructions explaining how to use this feature, refer to the User Guide at www.xerox.com/support.



Note: Secure HTTP (SSL) must be enabled, and a certificate must be installed on the printer before you can scan using XSU.



Note: The SMB protocol must be enabled on your computer. SMB is not enabled by default on Macintosh computers.



Note: Templates created in XSU cannot be deleted from the printer using CentreWare Internet Services. Templates must be deleted in XSU by the user who created the template.

Enabling Network Scan Utility 3

Network Scan Utility 3 allows you to scan directly to your computer and helps you manage and distribute scanned image files. Before you can use the utility, you must enable SNMP, SOAP, and WebDAV.

To enable port settings to run the Network Scan Utility 3:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to SNMP, SOAP, and WebDAV, select **Enabled**.
3. Click **Apply**.

Now you can install and use the scan utility.

Faxing

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Embedded Fax

When you send a fax from the printer control panel, the document is scanned and transmitted to a fax machine using a dedicated telephone line.

Before you begin:

- Verify that the printer has access to a functioning telephone line and has a telephone number assigned to it.
- Install the Fax Hardware Kit and set the country code. For details, refer to the instructions provided with the kit.

Enabling Embedded Fax

 **Note:** The Embedded Fax and Server Fax Services cannot be enabled at the same time.

To enable the embedded fax server:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Fax Settings**.
2. Next to Fax Service, select **Scan to Fax**.
3. Click **Apply**.

Configuring Embedded Fax Settings

To configure embedded fax settings at the printer:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Fax Service Settings**→**Local Terminal Information Settings**.
3. Touch **G3 Line 1 - FaxID**, and touch **Change Settings**.
4. Type the fax number, then touch **Save**.
5. Touch **G3 Line 1 - Dial Type**, then touch **Change Settings**.
6. Touch the dial type, then touch **Save**.
7. Touch **G3 Line 1 - Line Type**, then touch **Change Settings**.
8. Touch the line type, then touch **Save**.
9. Repeat for lines 2–3 if you have installed the 3-line fax hardware kit.
10. You can set a password to prevent the printer from receiving faxes or from other machines that are being polled that are not F-Code compatible. Touch **Machine Password**, then touch **Change Settings**.
11. Type a password, then touch **Save**.
12. Touch **Local Name** and type the name of the printer if needed.
13. Touch **Company Logo** and type the name of your company if needed.

Configure Fax Control Settings

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.

2. Touch **System Settings**→**Fax Service Settings**→**Fax Control**.

3. Change the following fax settings as necessary:

- **Re-enter Recipients:** Touch **Enter Twice** to require users to enter the recipient address twice, ensuring that the fax is sent to the correct address.
- **Re-enter Broadcast Recipients:** Touch **Enter Once Only** to allow the broadcast send, or **Enter Twice** to require users to enter the recipient twice before allowing the broadcast send.
- **Re-enter Speed Dial Recipients:** Touch **Enter Twice** to require users to enter the speed dial recipient twice. Touch **Re-enter Fax Number of E-mail** to require users to type the fax number or email address after you enter the speed dial recipient.
- **Re-enter Group Recipients:** Touch **Enter Twice** to require users to enter the group recipient twice.
- **Transmission Header Text - Polling:** Touch **Display Header** to attach a transmission header to a polling file.
- **Polled Files - Auto Delete:** Touch **Yes** to delete polled faxes automatically.
- **Rotate 90 Degrees:** Touch **Yes** to rotate scanned faxes 90 degrees.
- **G3 Sender ID - Fax:** Touch **On** to notify G3-ID to recipients.
- **Save Undelivered Faxes:** Touch **Yes** to save undelivered faxes. You can access saved undelivered faxes on the Job Status screen.
- **Save Deleted Faxes:** Touch **Yes** to save deleted faxes. You can access saved deleted faxes on the Job Status screen.
- **Saved Faxes - Auto Delete:** Touch **Delete** after 24 Hours to delete saved faxes after 24 hours automatically.
- **Transmission Interval:** Specify how often faxes are transmitted (3–155 seconds). A longer transmission interval increases the total time required to send a broadcast transmission, but allows faxes to be received during that time.
- **Batch Send:** Touch **Yes** to allow multiple faxes addressed to a single destination to be sent in a single fax transmission whenever possible. This reduces transmission costs.
- **Manual Send / Receive Default:** Touch **Manual Receive** or **Manual Send** to specify the default on-hook manual setting when a fax line is shared with a telephone.
- **Fax Receiving Mode:** Touch **Auto Receive** or **Manual Receive** to set the default fax receiving mode that appears when you press the **Machine Status** button.
- **Border Limit:** If a received fax document is longer than a page, specify the border size around the document to force a page break (0–177mm).
- **Auto Reduce On Receipt:** Touch **Yes** to fit a long received fax document on a single page if the document is within the range specified in the Border Limit setting.
- **Tray for Printing Incoming Faxes:** Select the tray that you want to use for received faxes.
- **2 Pages Up On Receipt:** Touch **Yes** to print two pages on a single sheet of paper.
- **2 Sided Printing:** Touch **Yes** to print on both sides of a single sheet of paper.
- **Edge Erase:** Set top, bottom, left, and right edge erase margins.
- **Reduce 8.5 x 11 Original to A4:** Touch **Yes** to resize letter size documents to A4 when the Reduce/Enlarge setting is set to Auto on the Layout Adjustment screen.
- **Pseudo-Photo Gradation Mode:** Touch **Error Diffusion** or **Dither**.

- **Folder Selector by G3 ID:** Store faxes based on G3 ID.
- **Folder Selector Setup:** Touch **Enabled** to classify received faxes by line type and store them in folders as specified in CentreWare Internet Services at **Properties→Services→Fax→Fax Received Options**.
- **Filename Format for Store and Folder:** Specify the file format to be used.
- **Memory Full Procedure:** If the hard disk of the printer becomes full while scanning a document, the current job can be aborted and deleted or the partially stored job can be sent. Touch **Delete Job** or **Run Job**.
- **Maximum Stored Pages:** Set the maximum number of pages stored for a fax document.
- **Fax Data in Folder Priority 1, 2, 3:** Select **F Code**, **Remote Terminal ID**, or **Remote Terminal Name** to classify received faxes and store them in folders.
- **Direct Fax:** Select **Enabled** to allow the printer to receive a LAN fax sent from a print driver. For details about LAN fax, refer to the *Print Driver Help*.
- **Block Inbound Faxes:** Type up to 50 fax numbers that you want to block.
- **Block Unknown Fax Numbers:** Touch **Yes** to block unknown fax numbers.

Setting Fax Defaults

To define defaults for incoming faxes for all users:

1. At the printer control panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings→Fax Service Settings→Fax Defaults**.
3. Touch a default setting in the list, then touch **Change Settings**.
4. Make the required changes to the default setting, then touch **Save**.

Setting Incoming Fax Options

Fax Forwarding

For each fax line, you can configure incoming faxes to be routed to an internal folder automatically. Faxes that have been routed to one of these folders can then be sent to a destination using one or more of the following methods:

- **Print:** Print a hardcopy output of the received fax.
- **Send as Fax:** Forward the fax to another fax number
- **Send as Internet Fax:** Forward the fax to an Internet fax address
- **FTP transfer:** File the fax to an FTP repository
- **SMB transfer:** File the fax to an SMB repository

To set up fax folder options:

1. In CentreWare Internet Services, click **Properties→Services→Fax→Fax Received Options**.
2. Next to the Folder Selector Setup, click **Enabled**.
3. Click **Apply**. After the printer restarts, navigate back to the Fax Received Options page.

4. Under **Folder Selector Setup**, select a line and click **Change Settings**.
5. Next to Save Incoming Fax in Designated Folder, select **Enabled**.
6. Type a three-digit folder number and click **Apply**. Navigate back to the Faxed Received Options page.
7. Click **File Transfer Settings**.
8. Select the destination options you would like faxes for this line to be forwarded to and click **Next**.
9. Enter appropriate settings for all selected destinations.
10. Click **Apply**.

Selecting the Folder Where Received Faxes are Stored

To designate a folder for storing received faxes:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Fax Service Settings**→**Fax Received Options**.
3. Touch **Folder Selector Setup**.
4. Touch a line, then touch **Change Settings**.
5. Touch **On**, and type the three-digit number of the folder that you want to use for storing received faxes.
6. Touch **Save**.

Reduce or Enlarge Presets

To modify the reduce or enlarge adjustment values available to users:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Fax Service Settings**→**Reduce/Enlarge Presets**.
3. Choose one of the pre-configured presets or select an item in the list and touch **Change Settings**.
4. If you are modifying settings, change the following settings as necessary:
 - **Preset %**: Specify the preset magnification values to appear in the Layout Adjustment Screen.
 - **Variable %**: Specify the default magnification value to appear in the Layout Adjustment Screen.
5. Touch **Close**.
6. Touch **Save**.

Original Size Defaults

To specify default size settings for received faxes:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Fax Service Settings**→**Original Size Defaults**.
3. Choose one of the pre-configured settings from the list or select an item in the list.

4. To modify an option, select the item in the list, touch **Change Settings**, and modify the default settings as needed.

Fax Confirmation Report

You can configure a confirmation sheet to notify users if a fax transmission was not successful.

To enable fax transmission error confirmation sheet printing:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Defaults**.
2. Next to Confirmation Sheet, select **Errors Only**.
3. Click **Apply**.

Server Fax

The Server Fax kit allows you to send a fax over a network to a fax server, which then sends the fax to a fax machine over a phone line.

Before you can send a server fax, ensure that you configure a fax filing repository, or filing location. Once configured, the printer transfers faxed images to the repository. The fax server retrieves the documents from the repository and transmits them over the telephone network. You can also print a transmission report.

You can set up a repository that uses one of the following protocols:

- FTP
- SMB
- SMTP

Enabling Server Fax

Before you begin, purchase and install the optional Server Fax Kit.

To enable the Server Fax functionality:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Fax Settings**.
2. For Fax Service, select **Scan to Fax Server**.
3. Click **Apply**.

Configure a Server Fax Filing Repository

Before you can send a server fax, ensure that you configure fax repository settings. Once configured, the printer transfers faxed images to the repository. The fax server then sends the fax to its destination over the phone line.

You can set up a repository that uses one of the following protocols:

- FTP
- SMB
- SMTP

Configuring a Fax Repository using FTP

Before you begin:

- Ensure that FTP services are running on the server or computer where the fax repository resides. Note the IP address or host name.
- Create a user account and password for the printer. When the Server Fax feature is used, the printer logs in using this account, transfers the file to the server or computer, and logs out. Note the user account and password details.
- Create a directory within the FTP root to be used as a fax repository. Note the directory path.

To configure a fax repository using FTP:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Fax Repository Setup**.
2. Select **FTP** from the **Protocol** menu.
3. Type the appropriately formatted IP address or host name and port number of the FTP server.
4. Next to **File Path**, type the full path to the root location of the fax repository. For example: `/(directory name)/(directory name)`.
5. Type the user account and password in the **Login Name** and **Password** fields.
6. Retype the password to confirm.
7. Click **Apply**.

Configure a Fax Repository using SMB

Before you begin:

- Create a shared folder to be used as a fax repository. Note the Share Name of the folder and the Computer Name or Server Name.
- Create a user account and password for the printer with full access rights to the fax repository. Note the user account and password.

To configure a fax repository using SMB:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Fax Repository Setup**.
2. Select **SMB** from the **Protocol** menu.
3. Type the appropriately formatted address or host name and, if required, port number of the SMB server or workstation where the fax filing repository is located.
4. Next to Share, type the share name.
5. Type the **File Path**, relative to the share, where the fax repository is located. For example: if the path is `sharename\wc\fax`, type `\wc\fax` in the File Path field.
6. Type the Login Name and Password.
7. Retype the password to confirm.
8. Click **Apply**.

Configure a Fax Repository using SMTP

To configure a fax repository using SMTP:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Fax Repository Setup**.
2. Select **SMTP** from the **Protocol** menu.
3. Type the domain name of your SMTP server in the **Domain** field.
4. Next to E-mail Address Display Format, select **add "FAX="** if necessary.
5. Click **Apply**.

Server Fax Confirmation Report and Job Log

You can configure a confirmation sheet to notify users about the status of a fax transmission.

To configure the server fax confirmation report and job log settings:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Fax**→**Defaults**.
2. Next to Confirmation Sheet, select **On** to print a confirmation sheet for every transmission, or select **Errors Only** to print only when a fax transmission fails.
3. Next to Job Log, select **User Name** or **Domain** if you want this information to display on the Job Log. The Job Log is filed in the fax repository with the fax job.
4. Click **Apply**.

Internet Fax

Internet Fax allows you to scan a document at the printer and send it to a destination using an email address or to receive and print an email with attachments. You can also print a transmission report. Internet Fax enables this functionality without the use of a telephone line.

Configuring Internet Fax Settings

Before you begin:

- Create an email address for the printer if you want it to receive Internet faxes.
- Configure POP3 settings.
- Configure SMTP settings.
- Install the Fax Hardware Kit.



Note: A domain name must be entered before you can enable Internet Fax.



Note: The Internet Fax service uses many of the same settings as the email scanning service.

To configure E-mail or Internet Fax settings:

1. At the printer control panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**E-mail / Internet Fax Service Settings**→**Email Control**.

Configure Internet Fax Control Settings

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Fax Service Settings**→**Internet Fax Control**.

3. Change the following fax settings as necessary:

- **Internet Fax Path:** Select **Via E-mail Server** to send to an email address using an SMTP server. Select **Direct (P2P)** to send to an email address using a fully qualified host name or IP address in one of the following formats:
 - **Hostname:** `example.address@device.domain.jp`
 - **IP Address:** `example.address@[129.249.123.1]`
- **Profile for Broadcast Job:** Select the profiles to use when sending an Internet Fax broadcast:
 - **TIFF-S:** Documents larger than A4 are reduced to A4 automatically.
 - **TIFF-F:** Select this profile when you specify Superfine for Resolution or when sending A3 or B4 documents.
 - **TIFF-J:** Select this profile to use JBIG compression.
- **Broadcast Starting Rate:** Select G3 Auto, Forced 4800 bps, or G4 auto as the default communications mode
- **Delivery Confirmation Method:** If **Print Delivery Confirmation Mail (E-mail→Internet Fax Settings→E-Mail Control)** is set to **On**, you can select Delivery Receipts to print a delivery confirmation report, or select **Read Receipts** to confirm that the Internet fax was received and processed. Ensure that the destination machine supports DSN or MDN.
- **Incoming Internet Fax Print Options:** Select the parts of the Internet fax that you want to print:
 - Print Attachment Only
 - Print Attachment Only Attachment, Full Headers and Message
 - Print Attachment Only Attachment, Basic Headers and Message
- **Internet Fax Output Destination:** Select the output tray where you want Internet faxes to be printed
- **Fax Transfer from Address Book:** Select **On** to allow users to forward a fax to a number listed in the fax address book.
- **Transmission Header Text - Fax Transfer:** Select **Display Header** to add a transmission header to a received Internet fax when it is forwarded.
- **Fax Transfer Maximum Data Size:** Use the touch screen keypad to specify the maximum size allowed to forward an Internet fax up to 65535 KB.

Internet Fax Defaults Settings

Configuring Incoming Internet Fax Print Options

1. In CentreWare Internet Services, click **Properties→Services→Internet Fax→Defaults**.
2. Next to Incoming Internet Fax Print Options, select if you want to print just the faxed attachment, or Basic Headers, Message, and Headers.
3. Click **Apply**, or configure outgoing Internet Fax default options.

Configuring Outgoing Internet Fax Options

1. In CentreWare Internet Services, click **Properties**→**Services**→**Internet Fax**→**Defaults**.
2. Next to **Subject**, type the default text that appears in the **Subject** field of outgoing Internet fax email.
3. Next to **Message**, type the default text that appears in the body of outgoing Internet fax email. Select other information that you want to include in the body of the email.
4. Next to **Signature**, type the text you want to include as a signature.
5. Click **Apply**.

Configuring an Internet Fax Confirmation Report

To configure default settings for an Internet Fax configuration report:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Internet Fax**→**Defaults**.
2. Next to **Confirmation Sheet**, select **Errors Only** if you want to print a confirmation sheet when an Internet Fax transmission fails.
3. Click **Apply**.

Internet Fax Addresses

You can store Internet Fax email addresses in the internal address book of the printer or you can configure the printer to reference a network LDAP directory.


LAN Fax

Local Area Network (LAN) Fax allows you to send a fax from the print driver on your computer to a fax machine over a telephone line.

Users select the Fax option from their print driver. For details about using or configuring LAN Fax, refer to the *Driver Help*.

Session Initiation Protocol Fax


Session Initiation Protocol (SIP) Fax or Fax Over IP (FoIP) Fax, allows you to send and receive fax documents over the Internet to and from another FoIP fax machine or a standard G3 fax machine. If you have an SIP server, you can associate the SIP User Name of the printer with a fax number, so that users can type the fax number in a familiar format. If you have a VoIP gateway, the printer can communicate with standard G3 fax machines. Configure SIP server settings, register VoIP gateways, and configure T.38 settings, if necessary.

 **Note:** Before you begin, purchase and install the Fax over IP (FoIP) Kit.

To enable SIP Fax at the Control Panel:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Common Service Settings**→**Maintenance**.
3. Touch **Software Options**, then touch **Keyboard** on the Software Options dialog.
4. Enter the software PIN to enable SIP Fax.
5. Touch **Save**.
6. Follow any prompts given on the screen.
7. Touch **Close**.

Enabling SIP Fax

 **Note:** Before you begin, purchase and install the SIP Fax Kit.

To enable SIP Fax using CentreWare Internet Services:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Port Settings**.
2. Next to SIP, select **Enabled**.
3. In CentreWare Internet Services, enable TCP/IP (no special settings are required).
4. In CentreWare Internet Services, click **Properties**→**Protocols**→**SIP**.
5. Enter the **SIP User ID**, which consists of a SIP user name and IP address, such as 1111@192.168.1.1. This corresponds to the Fax Number of the printer for the G3 FAX. The IP address is that of the SIP server. If no SIP server is in the environment, use the printer IP address.
6. Select the appropriate **SIP Transfer Protocol**.
7. Next to Enable SIP Server, select **Yes**.
8. Next to SIP Server IP Address Resolution, select **DHCP** or **Manual**.
9. Enter the required data in the **Primary SIP Proxy Server Setup** fields.
10. Enter the required data in the **Primary SIP Registrar Server Setup** fields.
11. Next to Domain Filtering, select **Off**, **Allow**, or **Block**.
12. Click **Apply**.

Configuring SIP Gateway Registration

Up to 50 SIP Gateways can be registered. Each entry consists of an ID and a Gateway Address (IP).

To register an SIP Gateway:

1. In CentreWare Internet Services, click **Properties**→**Protocols**→**SIP Gateway**.
2. Click **Create** to add a new SIP Gateway ID. Click **Edit** to revise an existing SIP Gateway ID.
3. Click **Apply**.

Configuring T.38 Settings

T.38 settings is changed only if network policy does not allow the default settings.

To configure T.38 settings:

1. In CentreWare Internet Services, click **Properties**→**Connectivity**→**Protocols**→**T.38**.
2. Select a **T.38 Transport Protocol**.
3. Enter the appropriate Port Numbers in the fields provided.
4. Click **Apply**.

Configuring SIP Settings at the Printer Control Panel

Commonly used SIP Fax settings can be changed on the Fax Options tab of the Control Panel. Also, the following SIP Fax settings can be viewed and edited by accessing the Tools tab in System Administrator mode:

- **Fax Screen Default Settings:** Set the Default Fax Screen Tab options, Address Book Speed Dial Numbers, and Transmission Screen options.
- **Fax Default Settings:** Set the Resolution, Original Type, Starting Rate, and so on
- **Fax Control Settings:** Re-enter Recipient Data, Transmission Header Text, Rotation settings, and so on.
- **Fax Received Options Settings:** Set up folders for received faxes.
- **Output Destination Settings:** Set the appropriate tray for received faxes.
- **Local Terminal Information:** Set the Local Name, Company Logo, G3 SIP Line ID, and so on.

Accounting

This chapter contains:

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Xerox® Standard Accounting

Xerox® Standard Accounting (XSA) tracks the number of copies, print, scan, and fax jobs for each user. You can set different user limits for each type of job performed. Limits can be reset remotely anytime. You can generate reports that list usage data for individual users, groups, or departments.

When XSA is enabled, before accessing the services, ensure that the users log in to the printer. Before printing documents from a computer, ensure that the users provide their account details in the print driver.



Note: If XSA is enabled, you cannot enable other accounting modes.

You can create a maximum of:

- 2499 unique XSA user IDs
- 500 General Accounts
- 499 Group Accounts

Assign all the user IDs to one or more group accounts.



Note: XSA settings and account data are stored in the printer. Xerox recommends that you backup settings using the Cloning feature. If XSA settings are lost or deleted, you can restore them using the cloning backup file.

Before you begin:

- Install Print and Fax Drivers on all user computers.
- Configure Network Authentication.

Configuring Xerox® Standard Accounting

To configure Xerox® Standard Accounting:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→**Accounting Configuration**.
2. For Accounting Type, select **Xerox® Standard Accounting**.
3. Select **Enabled** next to the features that you want to track.
4. To authenticate users at the Control Panel, for Verify User Details, select **Yes**. Ensure that local authentication is configured.
5. To authenticate users at the Control Panel, for Verify User Details for Printer / Direct Fax Jobs, select **Yes**. Ensure that local authentication is configured.
6. For Customize User Prompts, select how you want to prompt users for their credentials.
7. For Color Tracking Only, select **Enabled** if you only want to track color impressions.
8. Click **Apply**.
9. Click **Reboot Machine**.
10. Refresh your browser and navigate to the Accounting Configuration page.
11. Configure Network Authentication if it is not configured.

Creating a Group Account

Before creating new user accounts, ensure that you create a group account.

To create a group account:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→ **Xerox® Standard AccountingGroup Accounts**.
2. For Group Accounts, type an Account ID using up to 12 digits, then type an **Account Name** using up to 32 alphanumeric characters for the new group account.



Note: Ensure that the Account ID and Account Name are unique.

3. Click **Add Account**, then click **OK**.

Creating a New User Account and Setting Usage Limits



Note: Before you create and add user accounts, ensure that you create a group account.

To create a new user account:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→ **Xerox® Standard Accounting**→**Manage Accounting**.
2. Click **Add New User**.
3. Type a **User ID** and a **Name** using up to 32 alphanumeric characters for the new user.



Note: Ensure that the User ID and Name are unique.

4. Under **Usage Limits**, type the maximum number of impressions or sent images that the user can produce. The maximum number of impressions or images sent is 9,999,999.
 - Black Printed Impressions includes all black and white documents printed from a computer using the print driver.
 - Black Copied Impressions includes all black and white copies.
 - Color Printed Impressions includes all color documents printed from a computer using the print driver.
 - Color Copied Impressions includes all color copies.
 - Network Images Sent includes documents sent over the network, including network scans, scans to email, server and Internet faxes.
 - Fax Images Sent includes documents faxed to a phone number. The total number of documents is the number of faxed documents, including cover sheets, multiplied by the number of destinations.
 - Black Faxed Impressions includes received fax documents that are printed.



Note: Cover sheets and banner sheets are counted as impressions.



Note: If the printer is set to print a scan confirmation report or an Internet Fax acknowledgement report, these documents are counted towards the limit of the user.

5. Assign the user to a User Role and Authorization Group.

6. Click **Apply**.

Maximum Usage Limits

When a user reaches the maximum usage limit set for them, they are no longer able to use that feature until you reset their limit. When the user logs in to the printer, they are presented with a notification message that their limit has been reached for that feature.

If the user exceeds their limit while a job is in progress, the printer tracks the number of impressions generated over their limit. When the limit of the user is reset, the printer subtracts these impressions from their limit.

If the limit of the user is reached before a print job completes, an error report prints that notifies the user that their limit has been reached. The job is deleted from the print queue, and any sheets that remain in the paper path finish printing.

Resetting Usage Data Values

To reset usage data values:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→**Xerox Standard Accounting**→**Report and Reset**.
2. To reset all usage data to 0, click **Reset Usage Data**.
3. To acknowledge the confirmation message, click **OK**.

Resetting Standard Accounting to Factory Default Settings

To reset Standard Accounting settings to factory defaults:



Note: The following step deletes all of the Xerox® Standard Accounting (XSA) accounts on the printer.

1. In CentreWare Internet Services, click **Properties**→**Accounting**→ **Xerox® Standard Accounting**→**Report and Reset**.
2. To delete all user, group, and general accounts, click **Reset to Default**.
3. To acknowledge the warning message, click **OK**.

Printing a Standard Accounting Report

You can print a report that lists the number of impressions recorded for each user and each account.

To print a report:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→**Xerox Standard Accounting**→**Report and Reset**.
2. Click **Generate Report**.
3. Right-click the **Download report in .CSV format** link and save the `.csv` file to the computer.

Network Accounting

Network Accounting allows you to manage the printer usage with detailed cost analysis capabilities. Print, Scan, Fax, and Copy jobs are tracked at the printer and stored in a job log. All jobs require authentication of User ID and Account ID, which are logged with the job details in the job log. The job log information can be compiled at the accounting server and formatted into reports.

The Network Accounting software can be combined with Xerox® Business Partner Solutions for the enhanced functionality and the ability to scale to enterprise accounts.

Before you begin:

- Install and configure Xerox® certified network accounting software on your network. Refer to the instructions of manufacturer for help.
- Test communication between the accounting server and the printer. To do this, open a Web browser, type the IP Address of the printer in the address bar, then click **Enter**. The home page of the CentreWare Internet Services of the printer appears.
- Install print drivers on all user computers if you want to track print and LAN Fax jobs.

Enabling and Configuring Network Accounting

To enable and configure Network Accounting:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→**Accounting Configuration**.
2. For Accounting Type, select **Network Accounting**.
3. For the features that you want to track, select **Enabled**.
4. For Verify User Details, to authenticate users at the Control Panel, select **Yes**. Ensure that the local authentication is configured.
5. For Verify User Details for Printer / Direct Fax Jobs, to authenticate users at the Control Panel, select **Yes**. Ensure that the local authentication is configured.
6. For Customize User Prompts, select how you want to prompt users for their credentials.
7. For Color Tracking Only, select **Enabled** if you only want to track color impressions.
8. Click **Apply**.
9. Click **Reboot Machine**.
10. Configure Network Authentication if it is not configured.

Configuring Accounting Login Screen Settings

To configure accounting login settings:

1. In CentreWare Internet Services, click **Properties**→**Accounting**→**Accounting Login Screen Settings**.
2. Next to Alternative Name for User ID, type the text that appears on the Control Panel to prompt a user for their user name.
3. Next to Mask User ID, select **Hide** to display user ID characters as asterisks; otherwise, select **Show**.
4. If you have configured Network Accounting, next to Alternative Name for Account ID, type the text that appears on the Control Panel to prompt a user for their user name.
5. If you have configured Network Accounting, next to Mask Account ID, select **Hide** to display user ID characters as asterisks.
6. Click **Apply**.
7. Click **Reboot Machine**.

Accounting and Billing Device Settings

To configure accounting settings on the printer:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Click **Touch Accounting**→**Accounting / Billing Device Settings**.
3. Change the following settings as necessary:
 - **Connection with Accounting/Billing Device:** Touch **Connected** to enable an accounting or billing device that is connected to the printer.
 - **Account / Billing Device:** Touch the type of device.
 - **Track Copy Jobs:** Touch **Track with Accounting/Billing Device** to track copy pages.
 - **Track Print Jobs:** Touch **Track with Accounting/Billing Device** to track print pages.
 - **Track Scan / Fax Jobs:** Touch **Track with Accounting/Billing Device** to track scanned or faxed pages.
 - **Interrupt Mode:** Touch **Enabled** to enable the interrupt mode.
 - **Job with Insufficient Credit:** Touch to delete, hold, or delete after a timeout for jobs with insufficient credit.
 - **Charge Print Jobs:** Touch **Charge by Card Number** to track charges by card number.
 - **Track with Cumulative Device:** Touch the type of device.
 - **Scan Ahead for Copy Job:** Touch **Enabled** to scan ahead for a copy job.

Enabling Accounting in Print Drivers

Jobs sent from the computer of a user can be counted only if accounting functionality is enabled in the print driver.

Enabling Accounting in a Windows Print Driver

To enable account in Windows print drivers:

1. Perform one of the following:
 - **Windows XP:** From the **Start** menu, select **Printers and Faxes**.
 - **Windows 7:** From the **Start** menu, select **Devices and Printers**.
 - **Windows 2000/Server 2003:** From the **Start** menu, select **Settings**→**Printers**.
2. Right-click the printer in the list, and select **Properties**→**Configuration**→**Accounting**.
3. From the Accounting System menu, select **Auditron (Local Accounting)**, **Xerox® Standard Accounting**, or **Xerox® Network Accounting**.
4. If you want users to type their User ID and Account ID each time they print, select **Always Prompt**. If you do not want users to log in, select **Do Not Prompt** and type the information of the user in the **Default User ID** and **Default Account ID** fields.
5. To show characters as asterisks when an ID is entered, select **Mask User ID** and **Mask Account ID**.
6. To show the last entered code when a user is prompted for their Account ID, select **Remember Last Entered Codes**.
7. If you are using Xerox® Network Accounting with an external accounting device, select **Auxiliary Accounting Interface**.
8. If you want to specify the default User ID and Account ID, type them in the **Default User ID**, and **Default Account ID** fields, then select the default account type.
9. Click **OK**.
10. To exit, click **OK**.

Enabling Accounting in an Apple Macintosh Print Driver

To enable accounting in Macintosh print drivers:

1. Open a document and select **File**, then select **Print**.
2. Select the Xerox printer.
3. Select **Accounting** from the menu.
4. For Accounting System, select **Auditron (Local Accounting)**, **Xerox® Standard Accounting**, or **Xerox® Network Accounting**.
5. If you want users to type their User ID and Account ID every time they print, select **Prompt for Every Job**.
6. To show characters as asterisks when an ID is typed, select **Mask User ID** and **Mask Account ID**.

7. If you want to specify the default User ID and Account ID, select **Use Default Accounting Codes**, type them in the **Default User ID** and **Default Account ID** fields, then select the default account type.
8. If you are using Xerox® Network Accounting with an external accounting device, select **Auxiliary Accounting Interface**.
9. To save your settings, click the **Presets** menu and select **Save As**.
10. Type a name for the preset.
11. Click **OK**.



Note: Ensure that the users select this preset each time they print or send a LAN fax using the print driver.

Administrator Tools

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Monitoring Alerts and Status

You can configure alert and status notices to be sent automatically as an email message to one or more recipients.

Setting Up Job Completion Alerts

To set up job completion alerts for email recipients:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Alert Notification**→**Notify Job Completion by E-mail**.
2. Under Recipient Email Address, type up to five addresses of recipients who are to receive job completion alerts.
3. Under Targeted Jobs, select the types of jobs for which recipients receive notification when a job is completed.
4. Under When to Notify, select whether recipients receive notification on all job completions or only after job errors occur.
5. In the Message field, type the text that appears in the message.
6. Click **Apply**.

Setting Up Machine Status Alerts

To set up machine status alerts for email recipients:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Alert Notification**→**E-mail Notification for Machine Status**.
2. Under Send Notice, select the status types that requires immediate notification or notification at regular intervals.
3. Under the Mail Notice Status Settings, set the appropriate mail status notification for each recipient.
4. Under the Notice Frequency Settings, select how often the email should be sent.
5. Click **Apply**.

Setting Up Billing Meter Read Alerts

To set up billing meter read alerts for email recipients:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Alert Notification**→**Billing Meter Read Alerts**.
2. Under Billing Administrator E-mail Addresses, type in the email addresses of the administrator.
3. Under Send Alert, set alerts to report billing meter reads and registration cancellation to the Xerox server.
4. Click **Apply**.

Setting Up Supplies Data Alerts

To set up supplies data alerts for email recipients:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Alert Notification**→**Supplies Data Sent Alerts**.
2. Under Supplies Administrator E-mail Addresses, type in the email addresses of the email recipients.
3. Under Send Alert, set alert to send notification of registration cancellation to the Xerox server.
4. Click **Apply**.

Configuring Stored File Settings

To configure stored file settings:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Stored File Settings**.
3. Change the following settings as necessary:
 - **Expiration Date for Files Stored in Folder:** To minimize disk space consumed by stored files, the printer can delete files after a specified time period. Touch **On** and select the number of days that files are kept before deletion, and the time that they are deleted on the last day.
 - **Stored Job Expiration Date:** Touch **On** and select how long print files stored on the printer such as Charge Print, Private Charge Print, Secure Print, and Sample Print are kept before being deleted. Touch **Same Date as Files in Folder** to keep files until the date specified in the Expiration Date for Files Stored in Folder setting. Under **Power Off Deletes Jobs**, touch **Yes** to delete jobs every time the printer is turned off.
 - **Minimum Passcode Length for Stored Jobs:** Specify the minimum number of allowed passcode digits (0–12). A passcode is required when Secure Print or Private Charge Print files are stored or printed.
 - **Print Order for All Selected Files:** Specify the order that files print when a user prints all stored files.

Touch Screen Settings

Setting Default Touch Screen Settings

To set default touch screen settings:

1. At the printer Control Panel, press **Machine Status**, then touch the **Tools** tab.
2. To set the control panel default screens and buttons, touch **System Settings**→**Common Service Settings**→**Screen / Button Settings**.
3. Change the following settings as necessary:
 - **Screen Default:** Set the screen that displays when the printer is first turned on.
 - **Service Screen Default:** Set the screen that displays when the Services button is pressed.
 - **Service Screen After Auto Clear:** Set the service screen that displays when a certain amount of inactive time has passed (Auto Clear). Touch **Last Selection Screen** to revert to the last service screen used, or touch **Services Home** to revert to the main Services screen.
 - **Auto Display of Login Screen:** Set the screen to automatically prompt users to log in when authentication is configured.
 - **Services Home:** Specify the service icons that display when a user presses the **Services Home** button.
 - **Job Type on Job Status Screen:** Specify the types of jobs that display when the Job Status button is pressed.
 - **Screen Brightness:** Adjust the brightness of the screen.
 - **Reconfirm E-mail Recipient:** Touch **Always Reconfirm Recipient**, or **Always Reconfirm Multiple Recipients** to require users to retype recipient addresses when sending an email.
 - **Reconfirm Fax Recipient:** Touch **Always Reconfirm Recipient**, or **Always Reconfirm Multiple Recipients** to require users to retype recipient addresses when sending a fax.
 - **Reconfirm Internet Fax Recipient:** Touch **Always Reconfirm Recipient**, or **Always Reconfirm Multiple Recipients** to require users to retype recipient addresses when sending an internet fax.
 - **Customize Keyboard Button:** Customize the touchscreen keyboard button in the lower right corner. The default text is .com.
4. Touch **Save**.

Taking the Printer Offline

To prevent the printer from either sending or receiving jobs over the network at any given time, you can take the printer offline. This allows you to perform printer maintenance without jobs being sent to the printer. When the printer is offline, any services, such as Network Scanning, are unavailable.

To take the printer offline:

1. At the printer Control Panel, press the **Machine Status** button.
2. Touch **Print Mode**.
3. Touch **Online/Offline**.
4. Touch **Close**.



Note: Taking the printer offline does not turn the printer off.

Restarting the Printer in CentreWare Internet Services

To restart the printer using CentreWare Internet Services:

1. In CentreWare Internet Services, click the **Status** tab.
2. At the bottom of the General page, click **Reboot Machine** then click **OK**.



Note: Restarting the printer can take up to five minutes. During this time, network access is not available.

Restarting the Printer from the Control Panel

To restart the printer from the Control Panel:

1. At the printer Control Panel, press the **Machine Status** button.
2. Touch the **Tools** tab.
3. Touch **Troubleshooting**.
4. Touch **Resets**.
5. Touch **Software Reset**.
6. Under Reset Options, select the type of reset you want:
 - All Software
 - Network Software
 - Copy Software
7. Touch **Reset**.



Note: Using Software Resets to restart the printer is faster and wastes less consumables than turning the printer on and off.



Note: Restarting the printer can take up to five minutes. You cannot access CentreWare Internet Services during this time.

View Usage and Billing Information

Usage Counters

The Usage Counters page displays the total number of pages printed or generated by the printer.

1. In CentreWare Internet Services, click **Status**→**Billing and Counters**→**Usage Counters**. The entire detailed list of pages printed or generated by the printer displays.
2. Click **Refresh** to update the page.

Billing Information

The Billing Information page displays the count of pages printed or generated in black and white or color for billing purposes.

1. In CentreWare Internet Services, click **Status**→**Billing and Counters**→**Billing Information**. The list of pages printed or generated by printer displays.
2. Click **Refresh** to update the page.

Cloning

This feature allows you to save the printer settings in a clone file. You can use the clone file to copy the printer settings to another printer, or use it to back up and restore settings on your own printer.



Note: If you are using the clone file to copy your printer settings to another printer, ensure that both the printers are of same model, and have the same version of software.

To determine the Software Version of your printer:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Configuration**.
2. Scroll down to the **Software** section.

Saving Printer Settings

To save printer settings to a clone file:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Cloning**.
2. For Create Clone File, select the feature settings that you want save. All features are selected by default.
3. To view the specific parameters that can be cloned for any of the features, click **View Feature Details**.
4. Click **Clone**.

The Cloning page appears.

5. On the Cloning page, under Create Clone File, right-click `Cloning.dat` and save the file to the computer.



Note: The default name for the file is `Cloning.dat`. If you rename the file, use `.dat` as the file extension.

Installing a Clone File



Note: This procedure causes the printer to restart. It is inaccessible for several minutes using the network.

To install a clone file:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Cloning**.
2. Under **Install Clone File**, click **Choose File** and navigate to your clone file.
3. Select the file and click **Open**.
4. Click **Install** and click **OK**.

Address Books

Depending on the network and printer configuration, there are variety of different methods that you can use to manage email addresses and fax numbers.

- **LDAP Directory:** If the network is connected to an LDAP server, you can configure the printer to look up addresses from the LDAP directory.
- **Public Address Book/Fax Address Book:** If you do not have an LDAP server, you can use the Fax Address Book and the Public Address Book to store fax machine phone numbers, Internet fax addresses, and email addresses on the printer.



Note: An Internet fax address is the email address of an Internet fax machine.



Note: You can configure the device to access an LDAP directory and a Public Address Book. If both are configured, users are given the choice to use the LDAP directory or the Public Address Book.

- **LAN Fax Address Book:** The LAN Fax feature has a separate directory for storing and managing addresses. For details, refer to the *Print Driver Help*.

Public Address Book

Email addresses, internet fax addresses, and fax numbers are stored in the Public Address book.



Note: An Internet Fax Address is the email address of an Internet fax machine.

Editing the Public Address Book as a .csv File

If you have many addresses to manage, you can create a list of addresses in a spreadsheet application, save it as a .csv file, and upload it to the printer.

The address book file is in a comma separated format (.csv). The printer recognizes the second row in the .csv file as the first data entry. The first row contains headings for the data in each column. The default column heading names are: Name, Email Address, Fax Number, Internet Fax Address.

Name	Email Address	Fax Number	Internet Fax Address
Jim Smith	jim.smith@corp.com	1234567898	faxmachine.one@corp.com
Matt Lukas	Matt.Lukas@corp.com	4566544985	faxmachine.two@corp.com
Richard Allen	richard.allen@corp.com	7899877754	faxmachine.three@corp.com

Downloading a Sample .csv File

1. In CentreWare Internet Services, click the **Address Book** tab.
2. Under Management, click **Download Template**.
3. Click **Download in CSV format**.
4. Save the file to your computer.

Downloading a .csv File with Headings Only with no Sample Data

1. In CentreWare Internet Services, click the **Address Book** tab.

2. Under Management, click **Export Template with Column Headings only**.
3. Click **Download in CSV format**.
4. Save the file to your computer.

Importing an Address Book File

1. In CentreWare Internet Services, click **Address Book→Import**.
2. If you want to import a new address book file, under Import Your Address Book File, click **Choose File** to locate your file in .csv format.
3. Select the file. Click **Open**. Under Management, click **Import**.
4. Next to First row of the .CSV file, select if the first row of data as Column headings or Recipient data. If you downloaded and edited a sample .csv file, select **Column headings**.
5. Click **Next**.
6. On the Import page, under Imported Heading, select the labels from your imported file that you want to map to the labels in the Address Book.
7. Click **Import**.

Adding and Editing Address Book Entries

Adding a New Name

1. In CentreWare Internet Services, click the **Address Book** tab.
2. Under Common Tasks, click **Add New Name**.
3. Edit the fields under Common Settings. To provide more detailed information, click **Details**.
4. Click **Save→Close**.

Editing an Existing Name

1. Next to the name, click **Edit**.
2. Edit the fields under Common Settings. To provide more detailed information, click **Details**.
3. Click **Save→Close**.

Deleting all Names

1. Under Management, click **Delete All Names**.
2. Click **OK**.

Font Management Utility

The CentreWare Font Management Utility allows you to manage fonts on one or more printers on your network.



Note: The Xerox® CentreWare Font Management utility is available on the Xerox website at www.xerox.com/support.

You can use the utility to download soft fonts to the printer, such as the branded fonts or unicode fonts of your company to support multiple languages. You then can add, delete, or export the fonts to a file. You can add or delete printers in the printer list to display only those printers you want to manage.

Customizing Printer Contact Information

The support page in CentreWare Internet Services displays the contact information for service and supplies and for the system administrator. You can customize this information to display the contact information of your company.

To add your own custom information:

1. In CentreWare Internet Services, click the **Support** tab.
2. Click **Change Settings**.
3. Update the fields with the information you require and click **Apply**.

Updating the Printer Software

When Xerox releases a new version of printer software or firmware, you can update the printer to incorporate the new fixes and improvements.

Updating the Software

Before you begin:

- Determine the current software version of the printer.
- Download the latest software update file in `.bin` format from the Drivers and Downloads page for the specific printer.

Determining the Currently Installed Software Version

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Configuration**.
2. To verify the software version, scroll down to **Software**.

Updating the Software

1. In CentreWare Internet Services, click **Properties**→**Services**→**Machine Software**→**Upgrades**.
2. Under Upgrades select **Enabled**.
3. Click **Apply**.
4. Refresh your browser and navigate to **Properties**→**Services**→**Machine Software**→**Manual Upgrade**.
5. Under Manual Upgrade, click **Choose File** to locate and select the software upgrade file in `.bin` format.
6. Click **Open**.
7. Click **Install Software**. The file is sent to the printer. Once the software is installed, the printer restarts.
8. Check the configuration report to verify that the software version has updated.

Date and Time Settings

When the printer is first set up, you are asked to set the date and time. If you want to change the date and time after the initial setup, use the Control Panel to change the settings. You can also use date and time settings to enable Network Time Protocol (NTP) synchronization, set energy savings, and set other timing functions for the printer.

To change date and time settings:

1. At the printer Control Panel, press the **Machine Status** button, then touch the **Tools** tab.
2. Touch **System Settings**→**Common Service Settings**→**Machine Clock/Timers**.
3. Change the following settings as necessary:
 - **Date:** Set the date.
 - **Time:** Set the time using a 12-hour or 24-hour format.
 - **NTP Time Synchronization:** Set the clock of the printer to synchronize with your Network Time Protocol (NTP) server, if you have one.
 - **Connection Interval:** Specify how often the printer connects to the NTP server.
 - **Time Server Address:** Specify the NTP server address.
 - **AutoClear:** Specify the amount of inactive time before the control panel resets to the default screen.
 - **Auto Job Release:** Specify the time elapsed until the printer cancels an active job with an error and starts the next print job.
 - **Auto Print:** Set the time period to start the next print job after you operate the Control Panel.
 - **Printer Lockout Duration:** Set the printer to disable printing during a set time period or set the machine to disable temporarily.
 - **Energy Saver Timers:** Set the energy saver to low power and sleep mode duration.
 - **Time Zone:** Set the time difference from GMT
 - **Daylight Savings:** Set the daylight savings time, if necessary. During daylight savings, the printer automatically increments the clock forward by one hour.

Fax Speed Dial Setup Settings

Perform the following steps to set up and administer the Fax Speed Dial feature.

1. At the printer Control Panel, press the **Log In/Out** button.
2. Type your System Administrator User ID and touch **Enter**.
3. If a passcode is required, type your System Administrator Passcode and touch **Enter**.
4. Select **Machine Status**. The Machine Status window opens and displays the Machine Information tab.
5. Select the **Tools** tab.
6. On the Tools tab, select **Setup** and then from the Group area, select **Add Address Book Entry**.
7. From the Speed Dial Recipient list, select the first Available entry.
8. Select **Address Type**. The Address Type window displays.
9. Select **Fax**.
10. Type the required information on this page and select **Save**.
11. Repeat steps 7 through 10 for each Address Book entry.
12. Exit the Tools window.
13. Select **Services Home** to return to the Services Home menu.

Watermarks and Annotations

A watermark inhibits the replication of a document by adding text or a background pattern to the printed page. You can configure watermarks to print dates, unique IDs, background patterns, or default text. Also, you can set watermarks to print according to the job type.

Annotations are customizable text strings that are printed on the document, similar to watermarks. If you want to create a custom annotation not found in the default selections, you can set a text string and then apply one of the four preset templates to the text string. When annotations are enabled, they print according to the layout template associated with the job type.

Watermarks

To set up the watermark appearance and enable a forced watermark:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Watermark**→**Watermark**.
2. Under Watermark, specify the following:
 - Select the date format and watermark appearance.
 - Enable the forced watermark by job type, if necessary.
3. Click **Apply**.

Universal Unique ID

To print the Universal Unique ID number in the watermark:

1. In CentreWare Internet Services, click **Properties**→**Security**→**Watermark**→**Universal Unique ID**.
2. Select **Yes** next to **Print Universal Unique ID**.
3. Use the position adjustments to choose where you want the unique ID to print on the page.
4. Choose the print position for side 2 of the page.
5. Click **Apply**.

Forced Annotations

Forced annotations allow you to create text strings for custom watermarks. You can create up to eight strings with a maximum of 32 characters. Once the string is created, you can apply a layout template to the watermark.

Creating Annotation Text Strings

1. In CentreWare Internet Services, click **Properties**→**Security**→**Force Annotation**→**Create Text String**.
2. Type up to eight annotation text strings with a maximum of 32 characters each.
3. Click **Apply**.

Applying Layouts to Text Strings

1. In CentreWare Internet Services, click **Properties**→**Security**→**Force Annotation**→**Apply Layout Template to Copy/Print Jobs**.
2. Under Apply Layout Template to Copy / Print Jobs, click **Change Settings** to apply the template to the annotation text string using one of the available types of print jobs.
3. Next to Apply Layout Template, select **Enabled** to apply the layout template.
4. Under Layout Template List, select one of the preset templates from the list.
5. Click **Apply**.

Memory Settings

Allocate memory away from ports that are not being used or allocate more memory to more heavily used ports to increase the performance.

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Memory Settings**.
2. Under Memory Settings, specify the memory allocation and spooling behavior.

Simple Image Quality Adjustment (SIQA) Tools

This chapter contains:

- [Simple Image Quality Adjustment \(SIQA\) Tools Overview.....](#) 198
- [Accessing the SIQA Tools.....](#) 199
- [Image Transfer Adjustment](#) 200
- [Auto Alignment Adjustment.....](#) 204
- [Density Uniformity Adjustment.....](#) 210

Simple Image Quality Adjustment (SIQA) Tools Overview

Simple Image Quality Adjustment (SIQA) is a set of maintenance tools that adjust the quality of the printed images that the printer generates. SIQA performs three types of adjustments. Ensure that you perform these adjustments in the following order:

- **Image Transfer:** This tool creates an image transfer adjustment to the Bias Transfer Roll in the printer to make adjustments for uneven toner and color shift. The adjustment is created and saved for specific stocks and can be selected for any tray when you print on those stocks. Before you perform any other image adjustment, perform the image transfer adjustment.
- **Alignment:** When you perform the alignment procedure, it generates an individual alignment profile for each stock or tray combination selected. These profiles ensure that images are placed correctly on the media. You can create a maximum of 50 profiles. Each created profile is used automatically each time the associated stock is used, which ensures optimal print quality. After you complete the image transfer adjustment, perform alignment adjustment.
- **Density Uniformity:** The Density Uniformity procedure adjusts print engine tables to ensure that ink is deposited uniformly and consistently across the entire surface of a page for each print. After you complete the image transfer and alignment adjustments, perform the density uniformity adjustment.

When you calibrate the printer with the SIQA tools, there are three steps that you are required to perform:

1. Print the SIQA targets.
2. Scan the targets using either the document feeder or the document glass.
3. Save the adjustment data to a file on the printer that provides the file with a unique name.

The adjustment profile is then complete and users can select the profile for print runs, as needed.

Accessing the SIQA Tools

To access the SIQA tools:

1. At the printer control panel, log in as Administrator, press the **Machine Status** button, then touch the **Tools** tab. For details, refer to [System Administrator Access at the Control Panel](#).
2. In the Features column, scroll down and touch **Maintenance**.
3. To access the SIQA tools on the next screen, touch the down arrow.

Image Orientation Definitions

Inboard and outboard are as follows:

- On the machine, **inboard** refers to the rear of the machine, the side farthest from you as you are using the machine and **outboard** refers to the front, the side nearest you.
- On the printed output, as you hold the sheet with the top facing up, **inboard** refers to the left side of the sheet and **outboard** refers to the right side. The short black line indicates the top of the sheet.

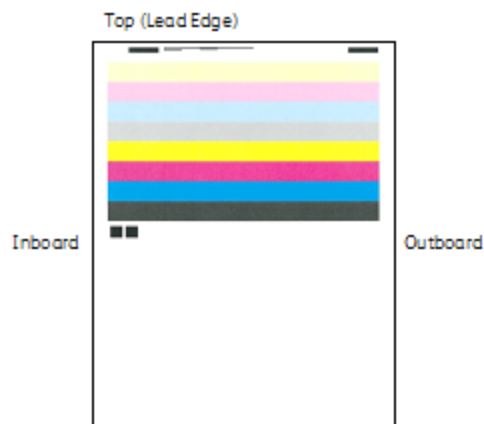


Image Transfer Adjustment

The purpose of the Image Transfer Adjustment is to correct for mottle which is an uneven toner coverage and color shift which is an inconsistent color. These image quality issues occur on heavy-weight stocks. The Image Transfer Adjustment applies only to the media type selected during the procedure. Perform this adjustment for each media type loaded in the printer.



Note: Before you perform Auto Alignment Adjustment or Density Uniformity Adjustment, it is important to perform Image Transfer Adjustment.

Adjust Image Transfer

The Image Transfer Adjustment applies only to the paper type selected during the procedure. Perform this adjustment for each paper type loaded in the printer.

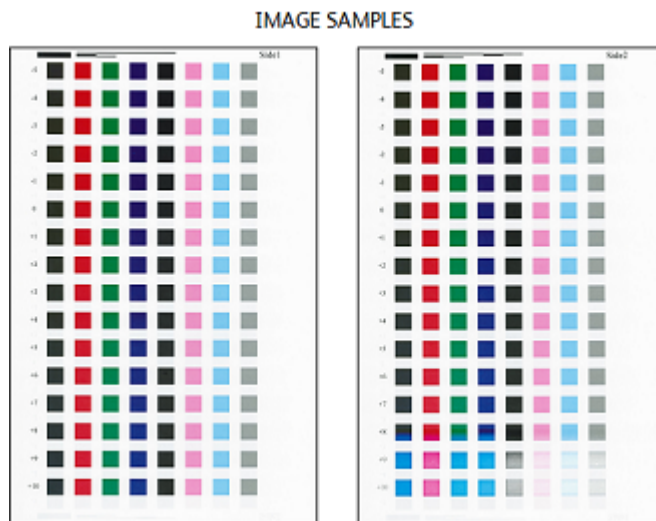
Follow these steps to perform a Simple Image Quality Adjustment (SIQA) for image transfer:


1. Log in as a System Administrator. Refer to [System Administrator Access at the Control Panel](#).
2. Access the SIQA tools screen. Refer to [Accessing the SIQA Tools](#).
3. Touch **Adjust Image Transfer**.
4. Touch **Paper Type**, and choose a paper type from the list.



5. Touch **Close**.
6. Load the selected paper type into Tray 5 (Bypass). Acceptable paper sizes:
 - 11 x 17 in.
 - 8.5 x 11 in.
 - A3
 - A4
 - SRA3
7. Touch **Print Sample**.
8. Select a paper size.
9. Select **1 Sided** or **2 Sided** for the calibration chart.

10. Press the **Start** button on the control panel to print the calibration chart.



11. Touch **Confirm**.
12. Touch **Close**.
13. Touch **Scan Calibration Chart**.
-  **Note:** If you printed a 2-sided sample, scan both sides.
14. Follow the instructions on the control panel touch screen to complete the calibration.
15. Touch **Confirm** to exit the scan.
16. View the adjustment numbers for **Side 1** and **Side 2**.



17. Touch **Adjust** to complete and save the calibration.
18. Touch **Close** twice to exit the SIQA tool.
19. To log out of Admin mode, select the Admin icon on the top right of the screen and touch **Logout**.


Adjust Image Transfer Manually

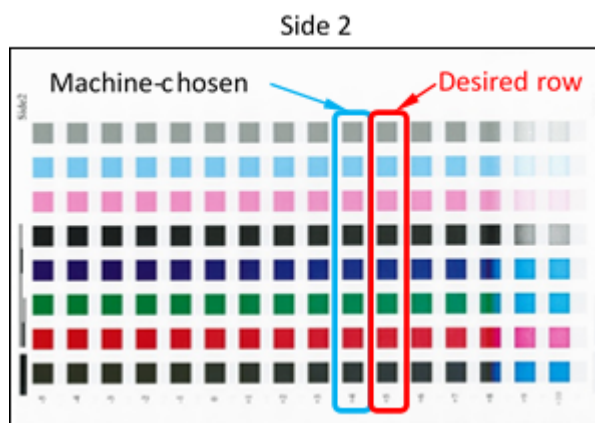
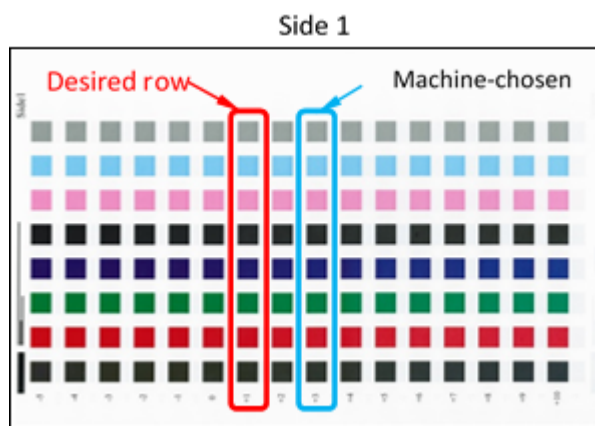
If you are not satisfied with the results achieved after completing the Image Transfer Adjustment procedure, you can run the calibration again using a different row of squares on the calibration chart. You can also change the adjustment values directly.



Adjust Image Transfer screen that shows machine-chosen values for Side 1 and Side 2 after calibration.

1. Select the row of transfer samples that you wish to use for the calibration.

 **Note:** The key to choosing the best row of samples is to select a row with the fewest white spots in each square.



2. Enter the number that represents the required sample row, which is indicated next to the row on the side of the sheet.


Using the image previous as an example, you would enter 1 for Side 1 and 5 for Side 2.



3. To save the values for image adjustment, touch **Adjust**.
4. To exit the SIQA tool, touch **Close** twice.
5. Touch **Close**.
6. To log out of Admin mode, select the Admin icon on the top right of the screen and touch **Logout**.

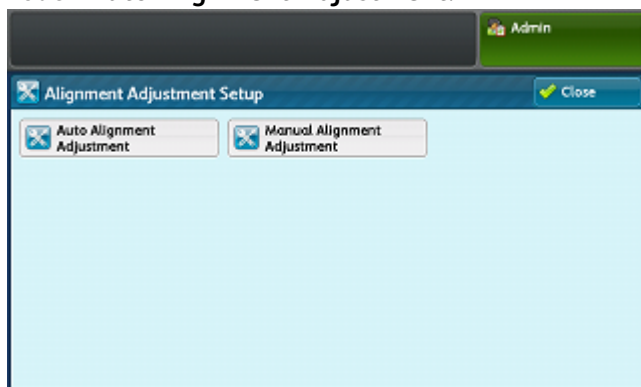
Auto Alignment Adjustment

The Auto Alignment procedure generates an individual alignment profile, or Type, for each stock or tray combination selected when performing the procedure. These Types ensure that images are placed correctly on the media. You can create up to 50 Types. Each time a stock is used, the Type associated with the stock or tray is used automatically, ensuring optimal print quality.

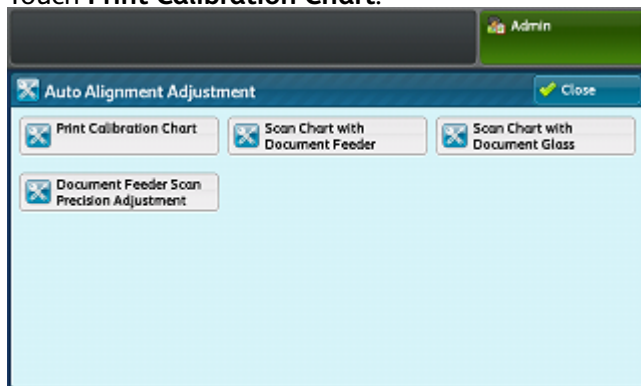
 **Note:** Before you perform Auto Alignment Adjustment, perform Image Transfer Adjustment. For details, refer to [Adjust Image Transfer](#).

Follow these steps to perform Auto Alignment Adjustment:

1. Print a duplex copy of the Black Paper PDF file that corresponds to the paper size used in your region. The PDF files are located on www.xerox.com/support under the Color EC70 Printer documentation.
 - 11 x 17 in.: SIQA Black Paper for Adjustment-Tabloid.pdf
 - A3: SIQA Black Paper for Adjustment-A3.pdf
2. Log in as a System Administrator. Refer to [System Administrator Access at the Control Panel](#).
3. Access the SIQA tools screen. Refer to [Accessing the SIQA Tools](#).
4. Touch **Alignment Adjustment**.
5. Touch **Auto Alignment Adjustment**.

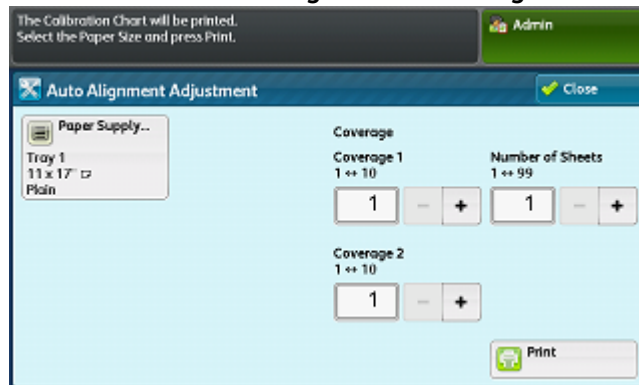


6. Touch **Print Calibration Chart**.



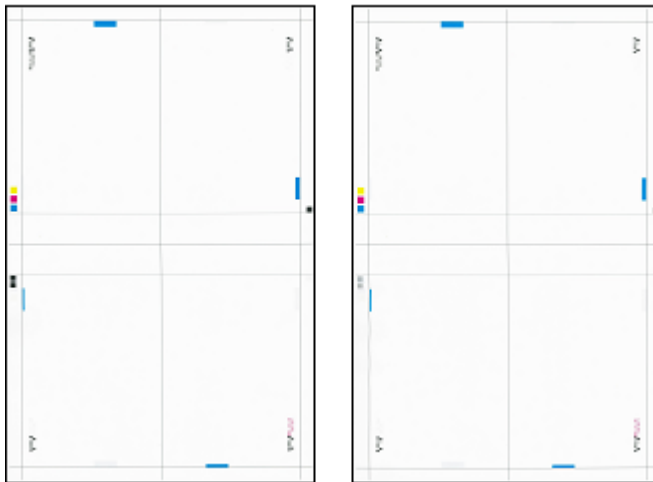
7. Select a paper tray with 11 x 17 in. or A3 size paper.

8. Set the value for **Coverage 1** and **Coverage 2** to 1.

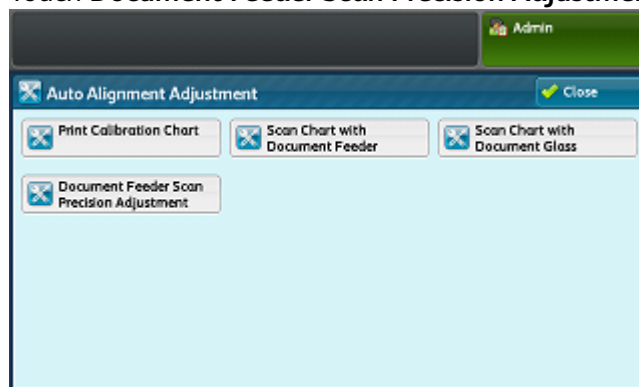


9. Touch **Print** to print the calibration chart.

IMAGE SAMPLES



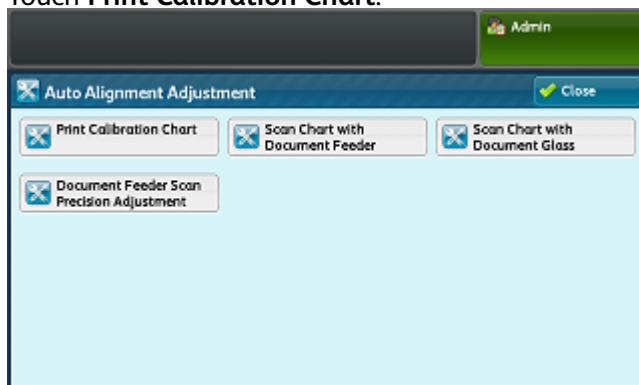
10. Touch **Confirm**.
11. Touch **Document Feeder Scan Precision Adjustment**.



12. Follow the instructions on the control panel touch screen to complete the scan using the Document Feeder and Document Glass.
- Position the Black Paper and Calibration Chart as shown on the Black Paper.
 - Reposition the Calibration Chart as indicated on the control panel touch screen and Black Paper and then touch **Scan** for each scan.

Simple Image Quality Adjustment (SIQA) Tools

- c. After all scans are completed, touch **Start**.
13. Touch **Confirm**.
14. Touch **Print Calibration Chart**.

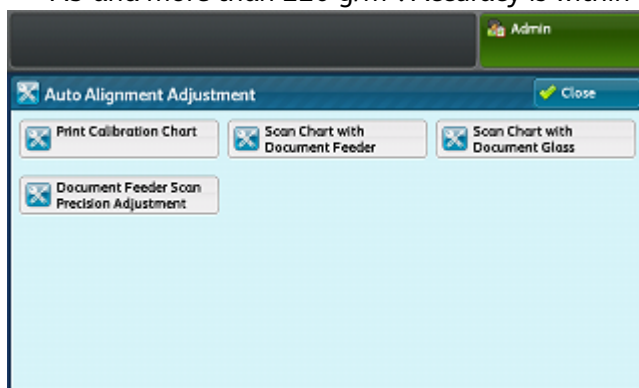


15. Select a paper tray with the correct paper size.
16. Select a coverage value for **Coverage 1** and **Coverage 2** using the table below as a guide.

Table 14.1 Area Coverage Guide

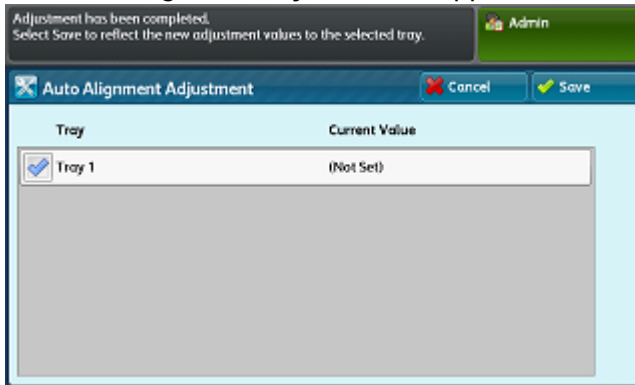
Coverage Value	Area Coverage
1–3	Low area coverage-text only
4–8	Medium area coverage-equal mixture of text and graphic images
9–10	High area coverage-primarily graphic images

17. Touch **Print**.
18. Touch **Confirm**.
19. Select a scan method:
 - Touch **Scan Chart with Document Feeder** for a target media size of 11 x 17 in. or A3 or smaller and less than 220 g/m². Accuracy is within 0.2 mm.
 - Touch **Scan Chart with Document Glass** for a target media size of larger than 11 x 17 in. or A3 and more than 220 g/m². Accuracy is within 0.1 mm.

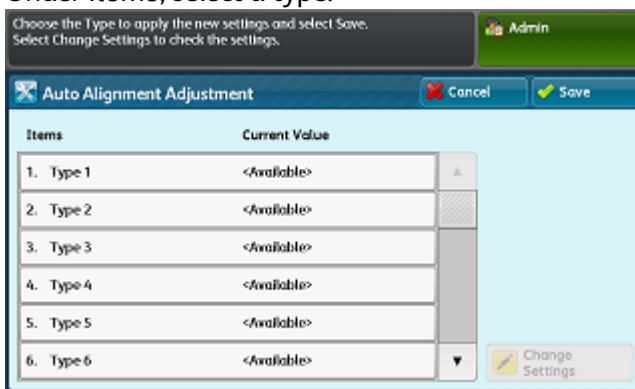


20. Touch **Start** to complete the adjustment.

21. Touch the tray name that displays on the control panel touch screen. This is the paper tray to which the alignment adjustment is applied.



22. Under Items, select a type.

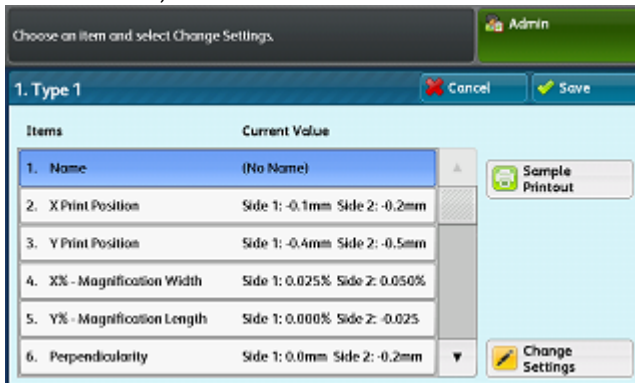


23. Touch **Change Settings**.



Note: Selecting **Save** overwrites the existing settings.

24. Under Items, select **1. Name**.



25. Touch **Change Settings** to name the Type.



Note: Use a name that identifies the paper type loaded in the tray.

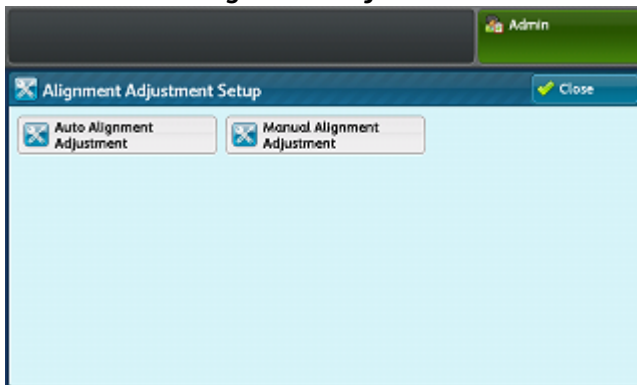
26. Touch **Save** four times to save the settings.
27. To log out of Admin mode, select the Admin icon on the top right of the screen and touch **Logout**.

Setting the Type when Loading Media

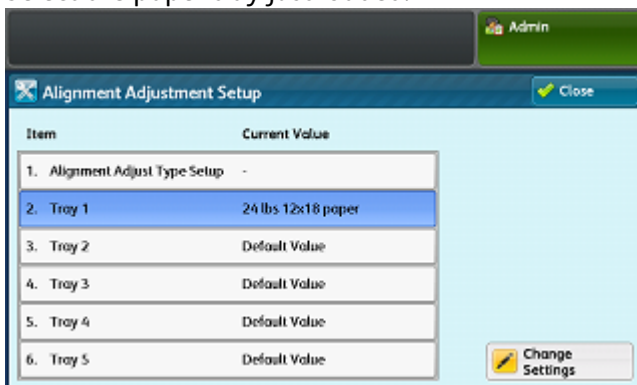
Each time you load media, ensure that you associate the paper type with the tray.

To associate the correct Type with the media loaded:

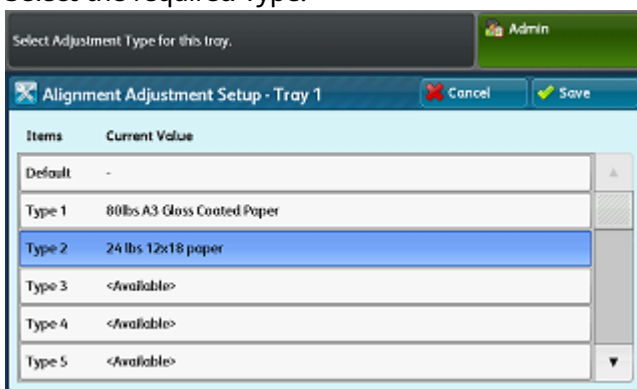
1. Log in as a System Administrator. Refer to [System Administrator Access at the Control Panel](#).
2. Access the SIQA tools screen. Refer to [Accessing the SIQA Tools](#).
3. Touch **Alignment Adjustment**.
4. Touch **Manual Alignment Adjustment**.



5. Select the paper tray just loaded.



6. Touch **Change Settings**.
7. Select the required Type.



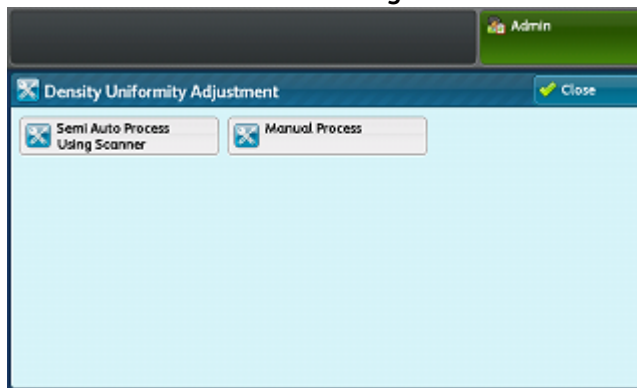
8. Touch **Save**.

9. To save the settings and exit the SIQA tool, touch **Close** three times.
10. To log out of Admin mode, select the Admin icon on the top right of the screen and touch **Logout**.

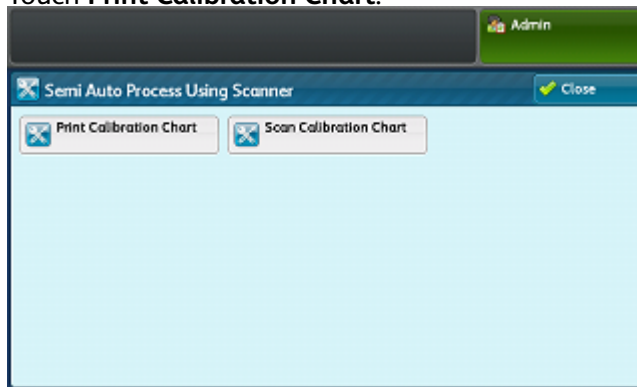
Density Uniformity Adjustment

Follow these steps to perform the Density Uniformity Adjustment:

1. Log in as a System Administrator. Refer to [System Administrator Access at the Control Panel](#).
2. Access the SIQA tools screen. Refer to [Accessing the SIQA Tools](#).
3. Touch **Density Uniformity Adjustment**.
4. Touch **Semi Auto Process Using Scanner**.

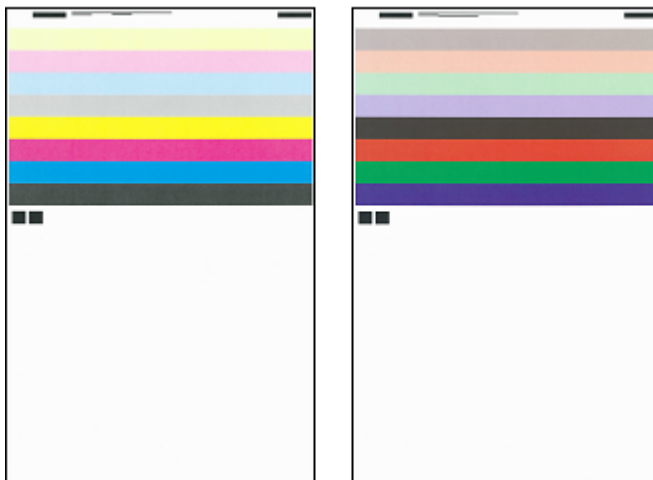


5. Touch **Print Calibration Chart**.

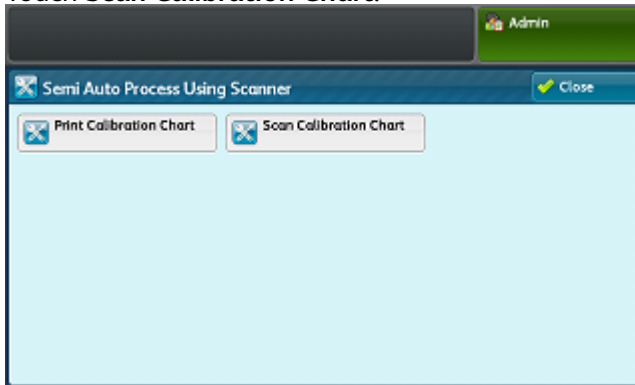


6. Touch **Print** and follow the instructions on the control panel touch screen to print the two charts.

IMAGE SAMPLES



7. Touch **Confirm**.
8. Touch **Scan Calibration Chart**.



9. Follow the instructions on the control panel touch screen to scan the two calibration charts.
10. To begin the density uniformity adjustment, touch **Start**.
11. When the adjustment has completed, touch **Confirm**.
12. To save the adjustment, touch **Save**.
13. To exit the SIQA tool, touch **Close** three times.
14. To log out of Admin mode, select the Admin icon on the top right of the screen and touch **Logout**.

Authentication Common Access Card (CAC)

This chapter contains:

- [Authentication Common Access Card \(CAC\) Overview.....](#) 214
- [Supported Card Types.....](#) 215
- [Supported Card Readers.....](#) 216
- [Requirements.....](#) 217

Authentication Common Access Card (CAC) Overview

The Common Access Card (CAC) system is part of a Department of Defense initiative to use smart identification cards to increase the security of its facilities and critical information. Eventually, all department employees will use CAC cards to gain access to computers, networks, and buildings. Often, the department requests that same level of authentication at the printer level, as well. When CAC card authentication is enabled on this printer, Department of Defense employees are required to use their CAC card to access the machine to scan, fax, or copy documents. The use of a CAC card provides greater security and management of the machines.



Xerox® CAC Enablement software supports multiple card readers and allows users to authenticate at the machine. The card reader is connected to a USB port on the printer.

Supported Card Types

The CAC solution is compatible with most common CAC card types mentioned in the following list:

- Axalto Pegasus 64K / V2
- Axalto Cyberflex 32K / V1
- Axalto Cyberflex 64K / V2
- Gemplus GemXpresso 64K / V2
- Oberthur 72K / V2
- Oberthur CosmopoIIC 32K / V1
- Oberthur D1 72K / V2 (contactless and PIV)
- Gemalto GCX4 72K DI
- Oberthur ID One 128 v5.5 Dual
- Gemalto TOPDLGX4 144K



Note: It is possible that other card types can function with the Common Access Card (CAC) or Personal Identity Verification (PIV) ID system, but they are not validated.

Supported Card Readers

The following card readers are compatible with the CAC ID system:

- Gemplus GemPC USB SL
- Gemplus GemPC Twin
- SCM Micro SCR3310
- Panasonic ZU 9PS

Other USB CCID-compliant readers functions with the CAC ID system but have not been validated.

Requirements

USB Enablement Kit (software option).

Authentication Common Access Card (CAC)

Customization and Expansion

This chapter contains:

- Xerox® Extensible Interface Platform® 220
- Auxiliary Interface Kit 222

Xerox® Extensible Interface Platform®

Xerox® Extensible Interface Platform® allows independent software vendors and partners to develop personalized and customized document management solutions that can be integrated and accessed directly from the Control Panel of the printer. These solutions can leverage existing printer infrastructure and databases. Examples of applications include the following, but are not limited to those listed here:

- ScanFlow Store®
- Xerox® Scan to PC Desktop®
- Equitrac Office®

For more information on Xerox® Extensible Interface Platform® applications for your printer, contact your Xerox Service Representative or see www.office.xerox.com/eip/enus.html on the Xerox website.

Enabling Extensible Services

Before you begin:

- Get the customer service installation file from your local Xerox representative, and copy it to your computer. Note the location of the file.
- Ensure that a digital certificate is installed on the printer.
- Enable HTTP (SSL).

Installing Custom Services Software

To install software for customer services:

1. In CentreWare Internet Services, click **Properties**→**Services**→**Machine Software**→**Manual Upgrade**.
2. Under Manual Upgrade, click **Choose File**, then locate the `InstallCustomServices.dlm` file for the custom application you want to install.
3. When you locate the file, click **Open**, then click **Install Software**.

Enabling Extensible Service Registration

To enable the extensible service registration:

1. In CentreWare Internet Services, click **Properties**→**General Setup**→**Extensible Service Setup**.



Note: If Extensible Service Setup does not display, the custom services software file was not installed correctly or the installation failed.

2. Under Setup, click **Edit**.
3. Select the services you want to enable and click **Apply**.
4. Under Enable Extensible Services, select **Export password to Extensible Services**.
5. Under Browser Settings, select **Enable the Extensible Services Browser** if necessary.
6. Select **Verify server certificates** if necessary.
7. To configure proxy settings, under Proxy Server, select **Use Proxy Server**.

8. For Proxy Setup, select **Same Proxy for All Protocols** to use the same settings for HTTP and HTTPS. Select **Different Proxy for Each Protocol** to enter separate server addresses for HTTP and HTTPS.
9. Type your HTTP and HTTPS server address and port number.
10. Click **Apply**.

Auxiliary Interface Kit

An Auxiliary Interface Kit, or a Foreign Device Interface kit, is a third-party access and accounting device such as a coin-operated printer accessory or a card reader that can be attached to the printer. Installation instructions are included with the Foreign Device Interface Kit. After the kit is installed, ensure that you enable and configure the device at the Control Panel.

Xerox® Remote Print Services

This chapter contains:

- Configuration Planning 224
- Printing the Configuration Report..... 225
- Configuring Xerox® Remote Print Services 226
- Troubleshooting 234

Xerox® Remote Print Services, formerly Smart eSolutions, is a collection of features and services that automates and simplifies the administration of Xerox® devices. These features include:

- Meter Assistant®(Automatic Meter Reading-AMR): automatically submits meter reading data which is used for customer billing purposes.
- Supplies Assistant®(Automatic Supplies Replenishment-ASR): proactively orders machine components such as toner.
- Maintenance Assistant (Automatic Information Forwarding-AIF): provides usage counters and fault conditions for Xerox technicians to manage device support requirements.



Note: Specific enablement and support of Remote Services features varies according to Xerox® device model, configuration, and operating company.

Xerox® Remote Print Services are enabled using a secure Internet connection between the printer and Xerox using Secure Socket Layer (SSL) protocols and 256-bit encryption. Only the machine performance information is sent to Xerox through this connection.

Configuration Planning

Use the following list to plan and work through the Xerox® Remote Print Services setup and configuration. Place a check mark in the last column as you complete a task.

No.	Task	Info from Task (if Relevant)	
1	Verify that you have authorized Internet connectivity for the device and that the device is connected physically to the network.		
2	Print a configuration report and record the IP address of the printer. Refer to Printing the Configuration Report .		
3	DNS Settings: DHCP Server automatically provides the DNS information or completes the following sections, where relevant:		
	a. DNS Server Address:		
	b. Alternate DNS Server Address 1: (if necessary)		
	c. Alternate DNS Server Address 2: (if necessary)		
	d. Domain Name:		
	e. Dynamic DNS Registration Used: (if necessary)		
	f. Connection Timeout: (if necessary)		
4	Confirm HTTP Proxy Server (if used) is configured to allow access to HTTP/HTTPS ports 80 and 443.		
5	HTTP Proxy Server Address:		
6	HTTP Proxy Server Port:		
7	HTTP Proxy Server Authentication Account (if used):		
	a. User Name:		
	b. Password:		
8	Confirm Firewall Proxy Server (if used) is configured to allow access to HTTP or HTTPS ports 80 and 443.		

Printing the Configuration Report

To print a configuration report:

1. At the printer Control Panel, press the **Machine Status** button and touch the **Machine Information** tab.
2. Touch **Print Reports**.
3. Touch **Printer Reports**.
4. Touch **Configuration Report** and press the **Start** button.

Configuring Xerox® Remote Print Services

Accessing CentreWare Internet Services

Before you begin:

- Enable TCP/IP and HTTP to access CentreWare Internet Services. If you disable either of these services, enable them at the printer before you can access CentreWare Internet Services.
- To determine the IP address of the printer, obtain a Configuration Report. To verify the IP address of the printer, press the **Machine Status** button on the printer Control Panel.

To access CentreWare Internet Services:

1. Open a Web browser.
2. Type the IP address of the printer in the address field. Click **Enter**. The device Internet Services screen appears.
3. Click the **Properties** tab.

If prompted, enter the user name and password of the administrator account.



Note: The default administrator user name is admin and the original password is the device serial number. When the administrator password is set to the device serial number, administrator functions are not accessible. If the administrator password is set to the device serial number, at the next administrator login attempt, you are prompted to change the administrator password. After you change the administrator password, you have full access to administrator privileges.

4. Click **Log In**. It enables you to access any Administrator functions within Internet Services.

Configuring the DNS Server

To configure the DNS Server:

1. Access the CentreWare Internet Services **Properties** menu.

- From the menu, click **Connectivity**→**Protocols**→**TCP/IP**.

CentreWare Internet Services Xerox Color C70 System Administrator - Logout

Status Jobs Print Scan Address Book Properties Support

Properties

- Configuration Overview
- Description
- General Setup
- Connectivity**
 - Port Settings
 - Physical Connections
 - Protocols
 - TCP/IP**
 - SNMP Configuration
 - SSDP
 - Microsoft Networking
 - LPD
 - Port 9100
 - SMTP Server
 - LDAP
 - POP3 Setup
 - HTTP
 - Proxy Server
 - IPP
 - UPnP Discovery
 - WebDAV
 - Bonjour
 - WSD
 - FTP
 - Google Cloud Print
 - AirPrint
 - Services
 - Accounting
 - Security

TCP/IP

General

Protocol: Enabled

Physical Connection: Ethernet

IP Mode: ☒ IPv4 ☐ IPv6 ☐ Dual Stack

Host Name: XC-A5FEBF

IP Address Resolution: *DHCP

IP Address: 13 . 141 . 45 . 51

Subnet Mask: 255 . 255 . 255 . 0

Gateway Address: 13 . 141 . 45 . 1

Domain Name

Domain Name: na.xerox.net

DNS Configuration

Obtain DNS Server Address Automatically: ☒ Enabled

Preferred DNS Server: 13 . 135 . 130 . 15

Alternate DNS Server 1: 13 . 135 . 177 . 15

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- In the **Domain Name** field, enter the Domain Name of your server.
- If you are using DHCP, to obtain the DNS server address automatically, in the DNS Configuration section, click the **Enabled** check box. Alternatively, enter the IP Address of your DNS Servers in the **Preferred DNS Server** and **Alternate DNS Servers** fields, if applicable.
- If applicable, select the check box for **Enable Dynamic DNS Registration**.
- If necessary, select the check box to generate a domain search list automatically.
- If relevant, enter your alternate domain names in Domain Name 1, 2, and 3 fields.
- Enter the amount of time before the connection times out.
- Click **Apply**.
- Click **Reboot Machine**.

Configuring the Proxy Server

To configure the Proxy Server:

1. In CentreWare Internet Services, access **Properties**→**General Setup**→**Smart eSolutions Setup**→**Proxy Server**.

CentreWare Internet Services Xerox Color C70 System Administrator - Logout

Status Jobs Print Scan Address Book Properties Support

Properties

- Configuration Overview
- Description
- General Setup**
 - Configuration
 - Job Management
 - Paper Tray Attributes
 - Paper Settings
 - Power Saver Settings
 - Stored Job Settings
 - Memory Settings
 - Internet Services Settings
 - Extensible Service Setup
 - Pool Server Settings
 - Billing Impression Mode
 - Cloning
 - Alert Notification
 - Smart eSolutions Setup**
 - Proxy Server**
 - Communication Status
 - E-mail Notification
 - Meter Assistant
 - Supplies Assistant
 - Maintenance Assistant
 - Connectivity
 - Services

Proxy Server

General

Use Proxy Server: ☒ Enabled

Proxy Setup: *Same Proxy for All Protocols ▼

Addresses to Bypass Proxy Server:

HTTP Server

Server Name:

Port Number: 8080 (1 - 65535)

Authentication: ☐ Enabled

Login Name:

Password:

Retry Password:

HTTPS Server

Server Name:

Port Number: (1 - 65535)

Authentication: ☐ Enabled

2. For Use Proxy Server, click the **Enabled** check box.
3. In the Proxy Setup menu, select **Different Proxy for Each Protocol** if you use a different proxy server for each different protocol used on your network (HTTP, HTTPS) or keep the default setting of the **Same Proxy for All Protocols**.
4. In the **HTTP Server** and **HTTPS Server Names** fields, provide a name of up to 255 characters for one or both of these Proxy Servers. A fully qualified domain name or an IP Address can be used.

If you use Domain Names, ensure that DNS Server details are configured correctly.

Note: If you use Domain Names, ensure that DNS Server details are configured correctly.

5. Enter the required **Port Number**. The default is 8080 and is the Internet Assigned Network Authority (IANA) recognized proxy port.
6. If your proxy server requires authentication, click the **Authentication: Enabled** check box and enter the Login Name and Password to provide authentication to the proxy server.
7. Click **Apply**.

Communication Status

The Smart eSolutions Communication Status page reflects the serial number of the printer and whether the printer is configured for Smart eSolutions and the date the last transmission was sent to the Xerox® Communication Server.

To enable or disable services, click **Configure**.



Enrolling and Setting up Communication

To enable SMart eSolutions or Xerox® Remote Print Services and set up communications:

1. In CentreWare Internet Services, access **Properties**→**General Setup**→**SMart eSolutions Setup**→**Communication Status**.
2. On the Communication Status page, click **Configure**. The SMart eSolutions Setup page opens.

3. In the Enrollment section of the Smart eSolutions Setup page, for Smart eSolutions Enablement, click the **Enabled** check box.

The screenshot shows the 'Smart eSolutions Setup' interface. On the left is a 'Properties' sidebar with a tree view containing 'General Setup', 'Job Management', 'Paper Tray Attributes', 'Paper Settings', 'Power Saver Settings', 'Stored Job Settings', 'Memory Settings', 'Internet Services Settings', 'Extensible Service Setup', 'Pool Server Settings', 'Billing Impression Mode', 'Cloning', 'Alert Notification', 'Smart eSolutions Setup' (highlighted), 'Proxy Server', and 'Communication Status'. The main area is titled 'Smart eSolutions Setup' and contains two sections: 'Enrollment' and 'Communication Setup'. In the 'Enrollment' section, 'Smart eSolutions Enablement' is set to 'Enabled' with a checked checkbox. Below it are fields for 'Reason:' and 'Role:' (set to '*Other'). The 'Communication Setup' section has 'Daily Transmission Time' set to '04 : 00 (UTC - 05:00)' and 'Payload Type' set to 'Engineering'. At the bottom right are 'Apply' and 'Undo' buttons.

4. In the Communication Setup section, indicate the time of day that you want communication transmissions between the printer and the communication server to occur.
5. Choose an option from the **Payload Type** menu. Generally, the default option meets most needs.
6. To save your settings, click **Apply**.
7. To test the communication between your printer and the Xerox server, click **Test XCDG Connection**.



Note: If you want to terminate the service, deselect the **Enabled** check box. Type a brief reason for your request in the **Reason** field, and select your job function from the **Role** menu.

After you request the service termination, data transmission occurs one more time.

The screen changes to simulate the communication transmission and again to confirm the success or failure of the test.

Accessing the Meter Assistant®

To access the Meter Assistant® screen:

1. In CentreWare Internet Services, access **Properties**→**General Setup**→**SMart eSolutions Setup**.

CentreWare Internet Services Xerox Color C70 System Administrator - Logout

Status Jobs Print Scan Address Book Properties Support

Properties

- Configuration Overview
- Description
- ▼ **General Setup**
 - Configuration
 - ▶ Job Management
 - Paper Tray Attributes
 - Paper Settings
 - Power Saver Settings
 - Stored Job Settings
 - Memory Settings
 - Internet Services Settings
 - Extensible Service Setup
 - Pool Server Settings
 - Billing Impression Mode
 - Cloning
 - ▶ Alert Notification
 - ▼ **SMart eSolutions Setup**
 - Proxy Server
 - Communication Status
 - E-mail Notification
 - Meter Assistant

Meter Assistant

Last Billing Meter Read

Billing Meter Reads were automatically sent to Xerox by the Meter Assistant:

Date	Time	Billing Meter	Count
04/11/2014	01:04 PM (UTC - 05:00)	Black Impressions	71
		Color Impressions	49
		Total Impressions	120
		Black Large Impressions	0
		Color Large Impressions	0

2. Click **Meter Assistant**.

The device shows the details of dates when billing meter reads were sent to Xerox on the Meter Assistant screen.

Accessing the Supplies Assistant®

To access the Supplies Assistant® screen:

1. In CentreWare Internet Services, access **Properties**→**General Setup**→**SMart eSolutions Setup**.

2. Click **Supplies Assistant**.

The screenshot shows the 'Supplies Assistant' screen within the 'Properties' tab of the 'Xerox Color C70' interface. The left sidebar lists various configuration options, with 'General Setup' and 'Smart eSolutions Setup' expanded. The main area displays 'Last Supplied Data Sent' with a table of component levels.

Date	Time	Component	Current Level
04/11/2014	01:04 PM (UTC - 05:00)	Cyan Toner [C]	Unknown
		Magenta Toner [M]	Unknown
		Yellow Toner [Y]	Unknown
		Black Toner [K1]	Unknown
		Black Toner [K2]	Unknown
		Waste Toner Container	Ready
		Cyan Drum Cartridge	3440
		Magenta Drum Cartridge	3440
		Yellow Drum Cartridge	3440
		Black Drum Cartridge	122640
		Fuser Assembly	200000

The Supplies Assistant® screen shows the details of dates when the device transmitted supplies data to Xerox and which specific components were requested.

Accessing the Maintenance Assistant

To access the Maintenance Assistant screen:

1. In CentreWare Internet Services, access **Properties**→**General Setup**→**Smart eSolutions Setup**.

2. Click **Maintenance Assistant**.

The screenshot shows the 'Maintenance Assistant' screen within the 'CentreWare Internet Services' interface for a 'Xerox Color C70'. The top navigation bar includes tabs for 'Status', 'Jobs', 'Print', 'Scan', 'Address Book', 'Properties', and 'Support'. The 'Properties' tab is active, and the left sidebar shows a tree view with 'General Setup' and 'SMart eSolutions Setup' expanded. The main content area is titled 'Maintenance Assistant' and displays the text 'Last Transmission was on: 04/11/2014 13:04 (UTC - 05:00)' with a 'Push Data To Xerox Now...' button below it.

The Maintenance Assistant screen shows the details of when data was last transmitted to Xerox and if needed, it also contains a button to enable you to transmit data to Xerox immediately.

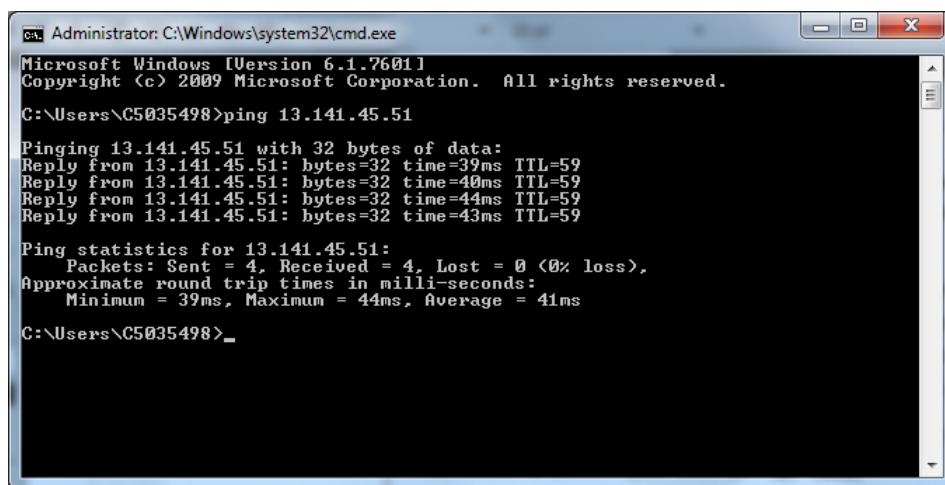
Troubleshooting

If you are experiencing problems setting up SMart eSolutions or Xerox® Remote Print Services, review the following information for assistance.

Scenario 1: The Device Cannot Access the Internet

Are you using a proxy server or firewall to control Internet access?

1. Verify connectivity with the proxy server. At the prompt, type `ping` followed by a space and the IP address of the proxy server. If there is no reply, it can be that there is no network connectivity between the device and the proxy server.



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.


C:\Users\C5035498>ping 13.141.45.51


Pinging 13.141.45.51 with 32 bytes of data:
Reply from 13.141.45.51: bytes=32 time=39ms TTL=59
Reply from 13.141.45.51: bytes=32 time=40ms TTL=59
Reply from 13.141.45.51: bytes=32 time=44ms TTL=59
Reply from 13.141.45.51: bytes=32 time=43ms TTL=59

Ping statistics for 13.141.45.51:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 39ms, Maximum = 44ms, Average = 41ms

C:\Users\C5035498>_
```

- a. Verify the information entered on the device, especially the default gateway.
- b. Verify the proxy server address.
- c. Verify that the default HTTP (80) and HTTPS (443) ports are not blocked at the proxy server.
- d. Verify if the proxy server requires authentication. If authentication is required, obtain the user name and password if you do not already have them, then enter the information using CentreWare Internet Services.
- e. Verify the proxy server IP address, or host name or fully qualified domain name, and the port number entered into the Web browser.
- f. If the proxy server was provided instead of an IP address, ensure that DNS is enabled at the printer control panel.

 **Note:** To confirm your settings, use the information you gathered on the installation worksheet.

 **Note:** You can use a host name for the proxy server only if you are running a name service, such as DNS, or if an IP address is supplied for the proxy server.

To open a command prompt, use a computer on the same subnet as the device. Select **Start**→**Run**, then enter `cmd`, or type `cmd` directly in the **Search** box.

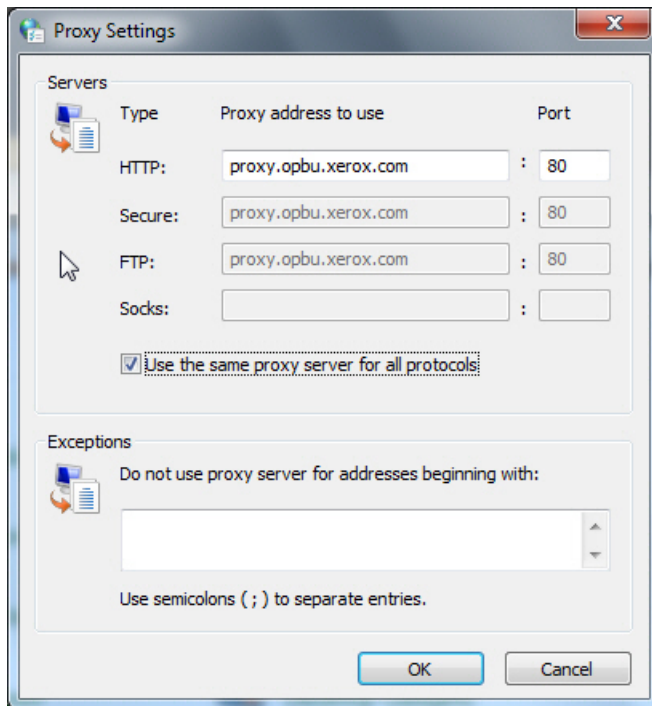
2. The firewall can block access to the Internet. Verify the following information with the IT Administrator:
 - a. The firewall rules are set to allow the device access to the Internet.

- b. The firewall does not require a user name and password for outbound access.
- c. The firewall is not blocking the standard HTTP (80) and HTTPS (443) ports.
3. A firewall, proxy server, and DNS server are not the same thing. While it is possible for the same physical host to perform more than one or all functions, usually they are not the same host. If the same IP address is given for more than one of these functions, verify with your IT administrator that this information is correct.

Scenario 2: Proxy Server Settings Are Incorrect

Finding the Proxy Server in Windows

1. At a Windows computer, click **Start**→**Control Panel**.
2. Double-click **Internet Options**. If you do not see this option, in Windows XP and Vista or **View by: Small icons** in Windows 7, click **Classic View**.
3. Click the **Connections** tab, then select **LAN Settings**. This window displays the address and port number for the proxy server.



4. Click **Advanced**. If different proxy servers are used for different protocols such as HTTP and FTP, which is not common, they are shown on the Proxy Settings window.
5. Enter the proxy server details in the device Web browser.

Finding the Proxy Server in Mac OSX

1. At a Mac OSX desktop, click the Apple icon then **System Preferences**.
2. Click **Network**.
3. Click the network adapter that is in use, then click **Configure**.

- Click the **Proxies** tab. If your computer is configured to connect to the Internet through a proxy server, the server address and port number are shown here.
- Enter the proxy server details in the device Web browser.

Scenario 3: The DNS Settings are Incorrect

To verify the DNS Settings:

- To open a command prompt, use a computer on the same subnet as the device. Select **Start**→**Run** and enter **cmd**, or type **cmd** directly in the **Search** box.
- To display the IP configuration information, at the prompt, type **ipconfig/all**.

```
Administrator: C:\Windows\system32\cmd.exe

Tunnel adapter 6T04 Adapter:

Connection-specific DNS Suffix . : na.xerox.net
Description . . . . . : Microsoft 6to4 Adapter
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes
IPv6 Address. . . . . : 2002::dec:2140::dec:2140<Preferred>
Default Gateway . . . . . :
DNS Servers . . . . . : 13.135.130.15
                        13.135.177.15
                        13.151.178.15
NetBIOS over Tcpip. . . . . : Disabled


Tunnel adapter isatap.na.xerox.net:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : na.xerox.net
Description . . . . . : Microsoft ISATAP Adapter #2
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes
```

- Write down the Connection-specific DNS Suffix, which is the domain name, and the IP addresses of the DNS Servers.
- To verify connectivity, type **ping** and the IP address of the DNS server. Verify that there is a response.
- To verify connectivity with the default router, type **ping** and the IP address of the default gateway. Verify that there is a response.
- Verify that the DNS Server and Default Gateway are set correctly on the device.

Scenario 4: Unconfirmed Support for SMart eSolutions or Xerox® Remote Print Services Features

The Xerox website contains a link to a location where you can verify whether your device can take advantage of remote services capabilities.

 **Note:** This service is available for the US-registered account only.

To perform a machine eligibility test:

1. Access the site: www.accounts.xerox.com/meters/amr-capability-test.jsf.

The screenshot shows the Xerox Remote Print Services website. The header includes the Xerox logo, a navigation bar with 'Services', 'Products', 'Supplies', 'Support & Drivers', and 'Contact', and a search bar. The main content area is titled 'Machine Eligibility Test for Automated Meter Reads and Automatic Supplies Replenishment'. It includes a 'Related Links' sidebar with 'Xerox Remote Print Services'. The main form area has a breadcrumb trail '> Account Management > Meter Readings Home', a title, and a description: 'Enter your machine's serial number and select the choice that represents its network status.' Below this is a red error message: 'Serial Number not found in the list'. The form contains a text input for 'Enter the machine serial number:', a radio button selection for 'Is your machine on a network?' (Yes/No), and 'Submit' and 'Clear form' buttons.

2. Enter the device serial number in the **Enter the machine serial number box**.
3. Select **Yes** or **No** to indicate whether the device is in a network area.
4. Click **Submit**. A status message appears confirming that your device is eligible or not eligible for Remote Services capabilities.
5. If needed, click **Clear Form** to enter another serial number.



Note: The machine connects to the network to support Remote Services.

Scenario 5: Connectivity Failed Following a Device Restart

Following a device restart process or software update action, ensure that the device is still communicating with the Xerox host, even if you performed a clone of the device settings. Verify the connectivity settings, then validate and test communication as described in this document.

Additional Information

Further information on SMart eSolutions or Xerox® Remote Print Services is available at <http://www.xerox.com/smartesolutions>.

A Xerox® Remote Services Security White Paper is available at <http://www.xerox.com/information-security/information-security-articles-whitepapers/enus.html>.

