FS-1030MFP/FS-1035MFP/FS-1130MFP
FS-1135MFP
Printer Driver
User Guide
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Examples of the operations given in this guide support the Windows 7 printing environment. Essentially the same operations are used for Microsoft Windows Vista, Windows XP, Windows Server 2003, and Windows Server 2008 environments.

User Interface screen captures shown in this guide may differ depending on your printing system.

This user guide and its contents were developed for the 5.3 driver.

Models supported by the KX printer driver

FS-1030MFP
FS-1035MFP
FS-1130MFP
FS-1135MFP

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1 Installation

A printer driver is an application that manages communication between a printer and your computer. Once installed, the printer driver settings must be configured in the printer Properties and Printing Preferences.

**Note:** In Windows operating systems, you must be logged in with administrator rights to install the printer driver.

Preparing to Install the Driver

This section describes the initial steps to take before you install the printer driver, and based on your operating system, the next procedure you can follow.

1. Turn on the computer and the printer.

   In Windows 7 and Windows Vista with a USB connection, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the driver for an expanded feature set. In Windows, if the Found New Hardware Wizard dialog box appears during the installation process, click Cancel. If the Hardware Installation warning dialog box appears, click Continue Anyway.

2. Insert the Product Library disc into the disc drive. The main menu appears.

   **Note:** If the Product Library fails to start after inserting it into the disc drive, use Windows Explorer to locate Setup.exe on the local drive and double-click to open.

3. Click View License Agreement to read the license agreement.

4. Click Accept to proceed.

5. To begin the installation, click Install Software.

   **Note:** If the Windows Security warning dialog box appears at any point during the installation process, click Install this driver software anyway.

6. The Installer appears with several installation methods displayed.

Selecting an Installation Method

You can select Express Mode for a network or USB connection and the installation wizard will discover your printers. You can also select Custom Mode for a network or USB connection and either manually select installation packages and specify utilities or let the installation wizard discover your printer.
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Installing Utilities

On the Installation Method page, click Utilities to install printer utilities. You can also select utilities to install during the Custom Installation procedure.

Upgrading Driver Components

If the installation wizard detects older driver or utility components, the Software Component Upgrade page appears.

1 Choose the component to upgrade. Click Next.

2 Confirm your upgrade settings. To start the upgrade, click Upgrade.

3 When the upgrade completes, click Next. The Installation Method page appears.

Express Installation

Express Mode applies to driver installation for a USB or network connection only. The installation wizard discovers printers that are turned on, and connected by USB or network cable. In Custom Mode, you are able to select the installation packages and specify the port.

Installing in Express Mode

This section describes the express installation procedure of the driver software in Windows operating systems.

1 Ensure that your printer and computer are turned on and connected by USB or network cable.

Note: In Windows 7 and Windows Vista with a USB connection, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the KX Driver for an expanded feature set. In Windows, if the Found New Hardware Wizard dialog box appears during the installation process, click Cancel. If the Hardware Installation warning dialog box appears, click Continue Anyway.
On the Installation Method page, click Express Mode.

The Discover Printing System page opens, searching for your printing system.

If Discover finds your printing system, select your model from the list and click Next.

If Discover does not find your printing system, a message appears. Remove and reinsert the USB or network cable, and ensure it is connected properly. Click Refresh to retry the discovery. If the system still cannot find your printing system, contact your system administrator.

Select Use host name for port name to use a host name for the Standard TCP/IP port. If the installation wizard still displays the IP address, contact your system administrator. (Not available with a USB connection.)

Click Information if you want to open a dialog box with details about IP Address, Host Name, Printer Model, Contact, Location, and Serial Number. Click OK. Click Next. (Not available with a USB connection.)

On the Printer Settings page, you can assign a name to your printing system.

Note: With a first time USB connection, the Printer Settings page does not appear.

You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click Next.

On the Confirm Settings page, click Install if the settings are correct. Click Back to correct the settings.

The Installation Completed page appears displaying the following driver options.

- **Print a test page**
  This selection verifies a connection with the printer and creates a print out of the installed driver components.

- **Enable Status Monitor**
  The Status Monitor displays system status messages on your computer screen during printing tasks. The Status Monitor button appears on the Advanced tab.

- **Show Quick Print Tab**
  This selection lets you define basic print options into group profiles that can be accessed easily. The Show Quick Print tab option also appears in the Administrator Settings in Device Settings.

- **Device Settings**
  Select the Device Settings check box to open Device Settings where you can choose installed options for your printing system. (The Device Settings check box appears only in Windows XP with a network connection.)

When the installation completes successfully, click Finish to exit the installation wizard.

A message may appear if there is a software installation failure.

Click Finish, and retry the installation. If the same message appears again, contact your system administrator.
The installation of the printer is now complete. If prompted, restart your computer.

**Custom Installation**

**Custom Mode** applies to driver installation for a USB or network connection. The installation wizard can discover printers that are turned on, and connected by USB and network cable, or you can manually select the driver from drivers that are available. You can specify the printer port, fonts, and the utilities you want to install.

Printer drivers that ship with Windows operating systems are called minidrivers. The minidriver is available separately for PCL and KPDL and provides basic support for your printer.

The KX XPS driver is only available for printing systems used with Windows 7, Windows Vista, or Windows Server 2008. The XPS driver is discussed in the *Device Settings* chapter. Minidriver functionality is not documented in this user guide.

**Installing in Custom Mode with a Network Connection using Discover**

This section describes the custom installation procedure of the driver software in Windows operating systems using a network connection.

1. Ensure that your printer and computer are connected to a network.

2. On the **Installation Method** page, select **Custom Mode**.

3. The **Discover Printing System** page opens searching for your printing system. The **Discover** button is automatically selected. A list of models appears. Click **Next**.

   If Discover does not find your printing system, a message appears. Remove and reinsert the network cable, and ensure it is connected properly. Click **Refresh** to retry the discovery. If the system still cannot find your printing system, contact your system administrator.

4. On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

   If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

5. On the **Printer Settings** page, you can assign a name for your printing system. You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

6. On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

**Note:** If the **Hardware Installation** warning dialog box appears, click **Continue**.
7 The **Installation Completed** page appears displaying the following driver options.

**Print a test page**
This selection verifies a connection with the printer and creates a print out of the installed driver components.

**Enable Status Monitor**
The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

**Show Quick Print Tab**
This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

**Device Settings**
Select the **Device Settings** check box to open **Device Settings** where you can choose installed options for your printing system. (The **Device Settings** check box appears only in Windows XP.)

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.
Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

**Installing in Custom Mode with a USB Connection using Discover**

This section describes the custom installation procedure of the driver software in Windows operating systems using a USB connection. With **Discover**, all devices available for the driver installation are found automatically. This is the recommended Custom Mode USB installation method.

1 Ensure that your printer and computer are turned on and connected using a USB cable.

**Note:** In Windows 7 and Windows Vista, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the KX Driver for an expanded feature set.

2 On the **Installation Method** page, select **Custom Mode**.

3 The **Discover Printing System** page opens, searching for your printing system. The **Discover** button is automatically selected.
Select your device and click **Next**.
If Discover does not find your printing system, a message appears. Remove and reinsert the USB cable, and ensure it is connected properly. Click **Refresh** to retry the discovery. If the system still cannot find your printing system, contact your system administrator.
4 On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

5 On the **Printer Settings** page, you can assign a name to your printing system.

**Note:** With a first time USB connection, the **Printer Settings** page does not appear.

You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

6 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

**Note:** If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

7 The **Installation Completed** page appears displaying the following driver options.

- **Print a test page**
  
  This selection verifies a connection with the printer and creates a print out of the installed driver components.

- **Enable Status Monitor**
  
  The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

- **Show Quick Print Tab**
  
  This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

### Installing in Custom Mode with a Network Connection using Custom Select

This section describes the custom installation procedure of the driver software in Windows operating systems using a network connection.

1 Ensure that your printer and computer are connected to a network.

2 On the **Installation Method** page, select **Custom Mode**.
3 The **Discover Printing System** page opens, searching for your printing system. The **Discover** button is automatically selected. Choose **Custom select** and click **Next**.

4 The **Printing System** page appears. Select your printing system model from the list and click **Next**. If there is only one driver model, this page does not appear. Proceed to the next step.

5 On the **Printer Port** page, select the port connected to your printing system, or add a port connected to your system by clicking **Add Port**. Click **Next**.

6 On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

   If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

7 On the **Printer Settings** page, you can assign a name for your printing system. You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

8 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

   **Note:** If the **Hardware Installation** warning dialog box appears, click **Continue**.

9 The **Installation Completed** page appears displaying the following driver options.

   **Print a test page**
   This selection verifies a connection with the printer and creates a print out of the installed driver components.

   **Enable Status Monitor**
   The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

   **Show Quick Print Tab**
   This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

   **Device Settings**
   Select the **Device Settings** check box to open **Device Settings** where you can choose installed options for your printing system. (The **Device Settings** check box appears only in Windows XP.)

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.
The installation of the printer is now complete. If prompted, restart your computer.

**Installing in Custom Mode with a USB Connection using Custom Select**

This section describes the custom installation procedure of the driver software in Windows operating systems using a USB connection. With the Custom select option, you manually select the printing system and printer port to install.

In Custom mode, Custom Select is not recommended for USB in environments where printing systems are connected and reconnected using USB ports. The Discover method provides a more reliable installation path.

1. Ensure that your printer and computer are turned on and connected using a USB cable.

   **Note:** In Windows 7 and Windows Vista, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend the Custom Mode using Discover for USB connections to ensure a reliable installation.


3. The Discover Printing System page opens, searching for your printing system. The Discover button is automatically selected. Choose Custom select and click Next.

4. The Printing System page appears. Select your printing system model from the list and click Next.

5. On the Printer Port page, select an existing port connected to your printing system. Click Next.

6. On the Custom Installation page, select the driver and software packages you want to install from the Driver and Utility tabs, and clear those not intended for installation. Click Next.

   If you only select software packages from the Utility tab, you will skip to the Confirm Settings page.

7. On the Printer Settings page, you can assign a name to your printing system.

   You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click Next.

8. On the Confirm Settings page, click Install if the settings are correct. Click Back to correct the settings.

   **Note:** If the Hardware Installation warning dialog box appears, click Continue Anyway.

9. The Installation Completed page appears displaying the following driver options.

   - Print a test page
This selection verifies a connection with the printer and creates a print out of the installed driver components.

Enable Status Monitor
The Status Monitor displays system status messages on your computer screen during printing tasks. The Status Monitor button appears on the Advanced tab.

Show Quick Print Tab
This selection lets you define basic print options into group profiles that can be accessed easily. The Show Quick Print tab option also appears in the Administrator Settings in Device Settings.

When the installation completes successfully, click Finish to exit the installation wizard.

A message may appear if there is a software installation failure.
Click Finish, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

Optional Printer Components
You can expand the functionality of your printer driver by installing optional components.

Installing Optional Printer Components

1 On the Product Library disc menu > Advanced Tools menu, select Optional Printer Components.

2 Select a printer to install optional components, and click Next.

3 On all Select pages, choose your components, and click Next.

4 On the Confirm Settings page, click Install if the displayed settings are correct. Click Back to correct any settings.

5 The Printer Components Installation Completed page appears. Click Finish.

When you have completed installing printers and optional components, restart your computer if prompted.

The Add Printer Wizard
The Add Printer Wizard displays a series of pages that guide you through printer installation. You are prompted to make installation choices on each page.

Installing a Printer Driver in Windows 7 and Windows Vista
This section describes how to install a printer driver using the Add Printer Wizard in Windows 7 and Windows Vista.
1 Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista).

2 Click **Add a printer**.

3 The **Add Printer Wizard** appears. Click either **Add a local printer** or **Add a network, wireless or Bluetooth printer**. Follow the instructions on each page, and then click **Next** to proceed to the next page.

   **Note:** If the **Windows Security** warning dialog box appears, click **Install this driver software anyway**.

4 The last page of the wizard appears with a message that you’ve successfully added the printer you selected. Installation of the printer driver is now complete. Click **Print a test page** if you want to produce sample print output from the newly installed printer. To close the **Add Printer Wizard**, click **Finish**.

### Installing a Printer Driver in Windows XP

This section describes how to install a printer driver using the **Add Printer Wizard** in Windows XP.

1 Click **Start** and **Printers and Faxes**.

2 Click **Add a printer**.

3 The **Add Printer Wizard** appears. Follow the instructions on each page, and then click **Next** to proceed to the next page.

   **Note:** If the **Found New Hardware Wizard** page appears, click **Cancel**. If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

4 When the **Completing the Add Printer Wizard** page appears, installation of the printer driver is now complete. To close the **Add Printer Wizard**, click **Finish**. If prompted, restart your computer.

### Printer Driver Settings Access

The printer driver software can be accessed from the **Print** dialog box of an application, or from **Start**. If accessed from an application, then changes made to driver settings remain in effect until the application ends. If accessed from **Start**, changes are maintained as the default printer settings.

### Changing the Default Driver Settings

Default driver settings apply to print jobs initiated from any application, but they are overwritten by setting changes made within each application.

1 Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP).

2 Right-click on your printing system icon.
3 Click **Printing Preferences**.

4 In the **Printing Preferences** dialog box, select the desired features in all tabs.

5 Click **OK** to save the settings.
2 Device Settings

In Device Settings, you can select installed printing system options so the associated features can be used with the printer driver. You can also match the memory setting in the driver with the memory installed in your printing system, which lets the driver manage font downloads more efficiently. Administrator, User, PDL (Page Description Language), and Compatibility settings can also be selected.

Accessing Device Settings

Device Settings can be accessed from Devices and Printers (Windows 7), Printers (Windows Vista), or Printers and Faxes (Windows XP) folder.

1 Click Start and click Devices and Printers (Windows 7), or click Control Panel and double-click Printers (Windows Vista), or Printers and Faxes (Windows XP).

2 Right-click the desired printing system model.

3 Click Printer properties (Windows 7) or Properties (Windows Vista, Windows XP).

4 Click Device Settings.

Device Options

Optional devices extend the capabilities of your printing system for source and job storage.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Setting Device Options

You can set the printer driver to match the optional devices installed on your printing system.

1 In Device Settings > Device options, select the check boxes for all installed devices.

2 Click OK in the Properties dialog box.

Auto Configure

Auto Configure detects the devices installed on the printing system if it is connected over a network. Auto Configure can detect printing system devices such as input devices. When your computer is connected to the printing system
through a TCP/IP or WSD port, the **Auto Configure** button appears in **Device Settings**. **Auto Configure** varies by operating system, see Enabling Auto Configuration for details.

Not all installed devices are detected by using **Auto Configure**. Before selecting **OK** in **Device Settings**, check the settings to make sure that they are correct.

**Note:** The default setting for Windows XP Service Pack 2 is for the Windows Firewall to be set to **On**. The setting can be changed to allow communication between the printing system and your computer. In the Windows **Security Alert** dialog box, click **Unblock**.

**Silent Auto Configuration**

**Silent auto configuration** checks the printing system every 10 minutes for changes in optional devices or memory. When a change is detected, the driver is automatically updated with the new settings. **Silent auto configuration** is only available for printing systems installed in Windows 7, Windows Vista or Windows Server 2008.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

**Enabling Auto Configuration**

The **Auto Configure** button can be used to detect all available device options when the printing system is connected to a network through a TCP/IP port.

1 Verify that all optional devices are attached to the printing system, and that it is turned on and ready to print.

2 In **Device Settings**, click **Auto Configure**.

   In Windows XP, the driver settings are updated immediately.

   In Windows 7, Windows Vista, and Windows Server 2008, the **Auto Configure** dialog box opens. Select from Auto configure options:

   **Auto Configure Now**

   Click the button at any time to retrieve the current settings from the printing system. It is recommended to do this when the driver is first installed and when **Silent auto configuration** is turned off.

   **Silent auto configuration**

   Select to let the driver check the printing system every 10 minutes for any changes in optional devices or memory. When a change is detected, the driver is automatically updated with the new settings.

**Memory**

Memory is the amount of standard and optional memory installed in the printing system. To maximize the downloading of printing system fonts, the driver must be set to match the total printing system memory.

**Setting the Memory**

By default, the **Memory** setting matches the standard memory in the printing system. If optional memory is installed, set the memory in the printer driver to match the total amount of memory.
Device Settings

1 Install optional DIMM memory in the printing system.

2 In Device Settings > Memory, type or select the amount of total installed memory by clicking the up and down arrows until the text box shows the correct number of megabytes (MB).

   If your printing system includes the Auto Configure feature, you can use it to obtain information about the memory size.

RAM Disk

The RAM disk functions as a virtual hard disk, saving print requests into the printing system’s memory. Because the RAM disk is temporary memory, all data stored there is lost when the power is turned off.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

**Note:** RAM disk requires additional printing system memory. After installing the memory, set the RAM disk in Device Settings > Device options.

If selected, the Ignore application collation feature in the Compatibility Settings dialog box lets the driver control collation. RAM disk can then increase the print speed of collated multiple copies by sending the print job just once.

Setting RAM Disk

You can set the RAM disk to save print requests into the printing system’s memory.

1 At the printing system’s operation panel, turn on RAM disk and set its size.

2 In Device Settings > Device options, select RAM disk.

3 In the RAM disk text box, type or select the desired RAM disk size. Click the up and down arrows until the text box shows the correct number of megabytes (MB) available physically on the operation panel.

   The maximum RAM disk size depends on the amount of installed memory.

Administrator Settings

Administrator Settings lets you set options that include controlling accessibility, displaying features in the interface and setting a password to control access to the Administrator Settings options. Selections vary according to printing system model.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

General

An administrator can control the display of the Quick Print tab, and other miscellaneous settings, including password and SNMP settings.
Show Quick Print Tab

This option lets you control the display of the Quick Print tab. You can define basic print options into group profiles for improved accessibility.

With a cleared check box for Show Quick Print tab, the tab does not appear in the Printing Preferences dialog box.

To enable this feature, in Device Settings > Administrator Settings > General, select Show Quick Print tab.

With a selected check box for the Show Quick Print tab, the tab appears in the Printing Preferences dialog box. When you select the Show Quick Print tab check box, you can access additional check boxes:

- Hide other tabs displays only the Quick Print tab to the user.
- Set Quick Print tab as default opens to this tab when you access Printing Preferences.
- Hide Edit Quick Print control prevents users from customizing the Quick Print tab.

Send Count Information

This option lets you embed count information in the print job, which can be used by some applications for accounting purposes. Count information includes the number of copies produced as well as duplex printing, multiple pages per sheet, color mode, color page count, and paper size values.

When PDF is selected in the PDL settings dialog box, only color page count information is sent with PDF.

To enable this feature, in Device Settings > Administrator Settings > General, select Send Count information.

Send Application Name

This option lets you send the application name with a print job, so that a different printing process is used for each application. Some third party print accounting programs use this information to calculate print totals based on application type.

This option is unavailable if PDF is selected in the PDL Settings dialog box.

To enable this feature, in Device Settings > Administrator Settings > General, select Send Application name.

Associate Profile with Application

This option lets you set all printing from each installed application to use the same driver settings as defined in a profile. Before using this feature:

- A profile must be created in the Profiles dialog box, accessed from any Printing Preferences tab.
- An association must be created between a profile and an application in the Application Based Printing dialog box, accessed from the Profiles dialog box.

To enable this feature, in Device Settings > Administrator Settings > General, select Associate Profile with application.

Password Protect Administrator Settings

You can set Password protect administrator settings in the Administrator Settings dialog box to prevent unauthorized changes in this dialog box. If
selected, this setting prompts you to enter a password and confirm the password. This password protection blocks access to all Administrator Settings options.

Setting the Administrator Password

You can set a password to prevent unauthorized changes in the Administrator Settings dialog box.

1 In Device Settings > Administrator Settings > General, select Password protect administrator settings.

2 In the Password dialog box, enter a password, using at least 4 and no more than 16 characters. Reenter the password in Confirm password and click OK.

Clearing the Administrator Password

You can remove the administrator password.

1 In Device Settings, click Administrator.

2 In the Enter Password dialog box, type the password and click OK.

3 In the Administrator Settings dialog box, clear the Password protect administrator settings check box and click OK.

SNMP

Simple Network Management Protocol (SNMP) is a set of rules that govern the management of network devices, such as printing systems. These settings determine the level of security when using the Auto Configure feature, and prevent unauthorized printing to the SNMPv3 printing system. SNMP settings must be set in the printer driver and in the printing system’s Command Center.

The following options are available:

SNMPv1/v2c
This option ensures successful Auto Configure communication using Read community name and Write community name.

SNMPv3
This option ensures secure Auto Configure communication using a user name and password. Authentication and privacy options are available by selecting Settings.

Apply to other models
This option displays a list of installed printing systems to apply the selected settings.

SNMPv3 Options

You can select options for secure communication with the printing system.

Authentication
This option provides an algorithm to check that a transferred file has arrived intact. Message Digest 5 (MD5) and Secure Hash Algorithm 1 (SHA1) are hash algorithms used to authenticate packet data.

MD5
This option provides a cryptographic hash function with a 128 bit hash value. It adds security and protection against Gateway Load Balancing Protocol (GLBP)-spoofing software.

**SHA1**

This option produces a message digest that is 160 bits long. SHA1 is the successor to MD5.

**Privacy**

This option uses encryption for secure communication. It is available after you select the **Authentication** option. You may select one **Privacy** option.

**DES**

This option uses the Data Encryption Standard for encryption. DES turns cleartext into ciphertext via an encryption algorithm. It encrypts and decrypts data using 8-byte blocks and a 56-bit key.

**AES**

This option uses the Advanced Encryption Standard for encryption. AES is a symmetric block cipher that can process data blocks of 128 bits, using cipher keys with lengths of 128, 192, and 256 bits. It is more secure than DES.

**Selecting SNMP Settings**

These settings in the driver must be set to match the settings in the printing system’s Command Center.

1. In **Device Settings** > **Administrator** > **General**, click **SNMP Settings**.
2. Select **SNMPv1/v2c** or **SNMPv3**.
   - For **SNMPv1/v2c**, type the **Read community name** and **Write community name**, to a maximum of 32 characters, and click **OK**.
   - For **SNMPv3**, type a **User name** to a maximum of 32 characters, and a **Password** from 8 to 32 characters.
3. To set authentication and privacy options for **SNMPv3**, click **Settings**.
4. In the dialog box, select from the available options.
5. Click **OK**.
6. Optional: Under **Apply to other models**, you can select all or any available models. The **SNMP** settings are applied to all selected models.

**Lock Settings**

An administrator can specify settings at the tab or feature level in the driver, and then lock them. The settings are then applied to all print jobs, and changes are restricted. The settings are locked in **Device Settings** > **Administrator Settings** > **Lock Settings**. For example, a driver setting could be set for printing duplex documents. This would save paper, resulting in cost savings and ecological benefits.

Locking a setting will also lock the feature where it appears in other tabs. For example, selecting **Lock Multiple pages per sheet** will also select and lock that feature in the **Quick Print** and **Layout** tabs.
**Device Settings**

The administrator can also set a password that is required to temporarily unlock a feature.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

**Lock Settings Options**

The **Lock Settings** tab displays driver settings that an administrator can lock. Once locked, user changes are restricted and the settings are applied to all print jobs. Once the settings are made, the **Password settings** option can be accessed. This lets an administrator control usage of paper and toner amounts:

- **EcoPrint**
  This option locks the EcoPrint setting.

- **Duplex**
  This option locks the current Print on both sides setting selected in the Quick Print or Basic tab.

- **Multiple pages per sheet**
  This option locks the current Multiple pages per sheet setting selected in the Quick Print or Layout tab. The Pages per sheet option is not locked. Clicking the icon in the Quick Print tab, or the selection in the Layout tab, switches between the two-page and four-page options. In the Layout tab, all options are available and not limited to two-page and four-page.

- **Profile with application**
  This option locks a defined profile of driver settings by application.

- **Job tab**
  This option locks settings selected in the Job tab.

- **Security settings**
  This option locks the Security Watermark in the Advanced tab. Security Watermark is an optional plug-in.

- **Password settings**
  The password set by the administrator temporarily unlocks driver features. It prompts the user for a password. When the administrator sets the password, the Unlock button appears in the driver tabs or the Application Based Printing dialog box. To unlock a feature, click Unlock and type the password.

**User Login**

**User login** provides job restriction by user, in contrast to the Job accounting feature, which assigns privileges by division or department. A maximum of 20 login user names and passwords can be registered at the printing system and 100 User IDs and passwords can be stored in the printer driver for use with multiple printing systems.

**User login** adds users with a user name and password. This feature limits printing privileges to specified users for secure printing and accounting. The number of pages printed by each user will be tracked by the printing system.

Users added in the printer driver must also be manually registered at the printing system’s operation panel.
Device Settings

User Login Options

User login settings selected in the driver are applied to every print job sent from your computer.

Use specific name

This option can be used to specify a name and password to use the same User login for every print job. If this option is selected, the user does not have to type the name and password for each print job.

A client computer in a client/server environment can accept the default name and password set by the administrator or type another name and password. Clicking Reset restores the default values.

Prompt for name

This option prompts the user for a name and password. You can use a name that is not on the list, and the name is not added to the list. When sending a print job, type a name and password when prompted, then click OK to print.

Prompt for name and validate

This option prompts for a name and password. For the job to print, the name and password entered must be on the Login user name list. You can use the Login user names entered in the Login user name list of the driver.

When sending a print job, type a name and password when prompted, then click OK to print. This option ensures that the job prints, only after verifying that the selected name is saved in the driver.

Validate user name (computer) or prompt for login user name

This option searches for the Windows User name in the driver's Login user name list. Validation is done every time the user prints a job. If the Windows User name exists in the Login user name list, the associated driver Login user name and password from the list are used for the print job. To release the print job, the user must enter the Login user name and password at the printing system operation panel.

If a match is not found, the driver checks for administrator or user permissions. With user permissions, the print job is canceled, and the user is prompted to contact an administrator to establish printing permissions. With administrator permissions, the driver prompts for the Login user name and password. Along with the Windows User name, these are then added to the list so succeeding print jobs do not require the user to enter a Login user name and password again.

Login User Name

Click to add, delete, edit, import, or export login user names and passwords. Once a Login user name list is created, the list can be exported as a group by saving it as a text file (.CSV, .KXC., and .TXT). To import a Login user name list, browse for an existing list and save it in your printer driver.

Printing with User Login

After login user names are assigned and user login mode is set to On at the printing system, you can choose User login to print in user login mode.

In a client/server environment, the client computer is automatically set to the User login selection made in the server.

1 In Device Settings > Administrator Settings > User Login, select User Login.

2 Select a User Login option:
Use specific name
Prompt for name

The remaining User Login options become available when you create a login user name list.

Note: If you select the Use specific name or Prompt for name option, proceed to step 5.

3 Under the Login user name list, click the buttons to add, delete, edit, import or export names in the list.

4 Select from the remaining User Login options:
   - Prompt for name and validate
   - Validate user name (computer) or prompt for login user name

5 Click OK in all dialog boxes.

6 Print the document from the application.

7 When the Print Options dialog box appears, type or select a name and password and click OK. Login is required for some options.

Job Accounting

Job accounting gives an administrator the ability to control usage of a printing system. With Job accounting, an administrator can assign account IDs (identification numbers) to users or departments, a specific account ID, or make account ID input mandatory for printing. After account IDs are created, you can view from the printing system operation panel the number of copies associated with a specific ID as well as limit the number of copies for individual IDs. Account IDs can be up to 8 digits.

Note: Job accounting must be set to On at the printing system. A maximum of 20 account IDs can be registered at the printing system and 100 account IDs can be stored in the printer driver for use with multiple printing systems.

Job Accounting Options

Job accounting supports the following options:

Use specific account ID

Select this option to track the print jobs of a user or group with an account ID. It sends the account ID with each print job. An administrator can restrict a user or group from changing their account ID by using the Password protect administrator settings in the Administrator Settings dialog box.

A client computer in a client/server environment can accept the default account ID set by the administrator or type another account ID. Clicking Reset restores the default values.

Prompt for account ID

Select this option to track the print jobs of a user or group with an account ID as well as prompt for an account ID. At the time a print job is sent, the user is prompted to enter a Job accounting ID.
**Prompt for account ID and validate**
Select this option to prompt for an account ID that is saved in the driver. When sending a print job, type an account ID when prompted, and then click **OK** to print. The account ID is validated against the account ID list. If typed incorrectly, you are prompted to type it again.

**Display account ID list**
Select this option to display the account ID list at the time of printing. The print job can be assigned to a user or group. The account ID list is stored in the driver and more than one ID must be established for the list to appear.

**Account IDs**
Add, edit, or delete account IDs from the list stored in the driver. Account ID descriptions match the user or group with an account ID. After an account ID list is created, the list can be exported as a group by saving it as a text file (.CSV, .KXC, .TXT). To import an account ID list, browse for an existing list and open it.

**Printing with Job Accounting**
After account IDs are assigned and Job accounting is set to **On** at the printing system, the number of pages printed is added to the selected account ID total. In a client/server environment, the client computer is automatically set to the **Job accounting** selection made in the server.

1. In **Device Settings > Administrator Settings > Job Accounting**, select **Job accounting**.
2. Select a **Job Accounting** option:
   - **Use specific account ID**
   - **Prompt for account ID**
   The remaining **Job accounting** options become available when you create an account ID list.

   **Note:** If you select the **Use specific account ID** or **Prompt for account ID** option, continue to step 5.

3. Under the **Account IDs** list, click the buttons to add, delete, edit, import, or export **Account IDs** in the list.
4. Select from the remaining **Job accounting** options:
   - **Prompt for account ID and validate**
   - **Display account ID list**
5. Click **OK** in all dialog boxes.
6. Print the document from the application.
7. For some options, when the **Print Options** dialog box appears, type or select an account ID, and click **OK**.
Policy Manager

Policy Manager is a server-based application that provides centralized user authentication, authorization, user access control, and secure pull printing features. The Policy Manager application must be installed separately. It is also necessary to make settings in the printer driver Device Settings > Administrator > Policy Manager to integrate with Policy Manager. This Policy Manager driver feature is installed as an optional component of the driver.

The XPS driver does not support Policy Manager. For more information about Policy Manager, please contact your printing system dealer.

An administrator can set the Policy Manager server and user information for users and groups to print according to defined policies.

When policies restrict printing features, Policy Manager reconfigures the printer driver so that the restricted printing features are unavailable to the user or group. The Policy Manager options let you choose how conflicts are handled between a policy and a driver selection.

Secure pull printing lets the user choose a printing system after the job is sent. To use the secure pull printing feature, the driver must be connected to the Policy Manager spooler server using the Policy Manager spooler port. Print jobs are held in the Policy Manager spooler server until the user is authenticated at the printing system.

For a restricted user in a client/server environment, the Administrator button in Device Settings becomes the Identity button. A user can select Policy Manager options in the Identity Settings dialog box.

Selecting Policy Manager Options

After Policy Manager is installed and the server is set up, you can use the printer driver’s Policy Manager tab to set server and user information.

1 In Device Settings > Administrator Settings > Policy Manager, select Policy Manager.

2 Enter the server address and port number.

3 Select an authentication option:
   - **Use Windows authentication**
     Select to use Windows login information for Policy Manager authentication. The Policy Manager Login dialog box does not appear during printing unless Windows authentication fails. If selected, continue to step 5.
   - **Use specific name**
     Select to enter specific login information. When selected, continue to step 4.

4 Type the Login user name and Password. The Login user name can be in the user principal name (UPN) format to support multiple domains: username@domain.com.
   If left blank, the Windows login user name is used.

5 You can select No notification message for policy conflicts if you do not want a message to appear when policy conflicts occur during printing. When selected, choose a printing result:
   - **Continue printing**
Device Settings

Applies the policy and prints the job

Cancel printing
Cancels the print job

6 A restricted user in a client/server environment can click Reset to change the Login user name to the server's Policy Manager user name.

7 Click OK in all dialog boxes.

Printing with Policy Manager

With Policy Manager set to on in the driver, you can send a private and secure print job.

1 Print the document from the application. You can click Preferences or Properties to open the Properties dialog box and view printing restrictions set by the policy.

2 If the Policy Manager Login dialog box appears, enter a Login user name and password. This dialog box is generated when an invalid or blank Policy Manager user name or password is set in the driver. The Policy Manager Login dialog box does not appear if Use Windows authentication is selected in Administrator Settings > Policy Manager, except when the Windows authentication fails.

3 You can click Do not ask again to use the most recently-saved Login user name and password for each print job. When selected, the Policy Manager Login dialog box does not appear again.

4 Click Log in to send the print job to the Policy Manager spooler server, where the Login user name and password are authenticated. Otherwise you can print directly to the printing system instead of using the Policy Manager spooler.

The print job appears in the Spooler folder in Policy Manager or in Client Viewer. Please refer to the Policy Manager User Guide for Policy Manager and Client Viewer details.

5 On the printing system’s operation panel, enter the Login user name and password to print all jobs under the Login user name. You can print from any printing system managed by the Policy Manager server.

User Settings

User Settings lets you specify user and department names, select the default unit of measure, and change the driver display language.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Identification

Identification lets you identify your print job with a User name and Department information, to a maximum of 31 characters. They can appear in the Operation panel message, or User name can be used to identify a print job stored on RAM disk memory.
Device Settings

Setting User Identification

You can type User name and Department information.

1 In Device Settings > User, type your preferred name in the User name text box.

2 Type your department or group name in the Department text box. You can type up to 31 characters in the User name and Department text boxes.

3 Click OK in the User Settings and Properties dialog box.

Units

You can set Inches or Millimeters as the unit of measurement. This is used for the following settings:

- Custom page size setting in the Page Sizes dialog box in the Basic tab.
- Spacing setting in the Add Watermark and Edit Watermark dialog boxes in the Advanced tab.
- Poster settings and Gutter settings in the Layout tab.

Selecting a Unit of Measurement

You can select a unit for displaying measurements in the user interface.

1 In Device Settings > User Settings, select Inches or Millimeters.

2 Click OK in the User Settings and Properties dialog boxes.

Language Preference

The Language preference option specifies the user interface language of Device Settings in Properties and all tabs of Printing Preferences. Available languages vary depending on your locale and your computer settings.

Setting Language Preference

You can select a user interface language.

1 In Device Settings > User Settings, select the desired language from the Select language list.

2 Click OK in the User Settings and Properties dialog boxes.

PDL (Page Description Language)

A Page Description Language (PDL) specifies the contents and layout of a printed page. In Device Settings, you can choose from PCL XL, (Printer Command Language XL), PCL 5e, KPDL (an emulation of PostScript printing), or PDF (Portable Document Format). The printer default is PCL XL, which is suitable for most printing purposes. When using the XPS driver in Windows 7, Windows Vista, or Windows Server 2008, XPS is the only PDL selection. After you select a PDL, the selection appears in the lower corner of the Preview image.
In **GDI compatible mode**, vector graphics are rasterized for printing as bitmap images. Use the **GDI compatible mode** option to improve the output quality of the graphic created by the application.

**Note:** To add **PDF** to the list of PDL choices, you must install the **Output to PDF** plug-in.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

**PDL Options**

The PDL options, available in the **PDL Settings** dialog box, are accessed in **Device Settings**.

**PCL XL**

The most recent version of HP PCL and PCL 6. This PDL includes PCL 5e features. PCL XL lacks backward compatibility with earlier PCL versions, though it is enhanced over PCL 5e in these areas:

- Reduced file size
- Better print speed
- Faster return to application

**PCL 5e**

- Fully compatible with earlier PCL versions
- Bidirectional communication support
- Wide selection of fonts for use with Microsoft Windows applications
- Complex graphics might not print as well

**KPDL**

KPDL is used when printing from applications that support PostScript 2 or 3.

- An emulation of PostScript printing
- Strong graphics reproduction
- Print speeds may be slower than PCL 5e
- Requires more printing system memory than PCL 5e
- Enables native TrueType font downloading
- Supports most Graphics settings options

**PDF**

**Output to PDF** is a plug-in feature that lets you print and save documents from multiple sources to Adobe PDF. This feature can be used as an alternative to existing commercial applications for creating PDF documents. Documents saved as PDF retain their original appearance, and can be viewed and printed with Adobe Reader on Windows, Mac OS, and UNIX platforms.

For a document using mixed paper sizes, all pages in the PDF use the size of the first page.

**Note:** With **PDF** selected in the **PDL Settings** dialog box, only a limited set of driver options are available.
Device Settings

PDL Settings

When you click the Settings button, the available options are:

PCL XL Settings or KPDL Settings

Enable smart duplex printing

This option automatically keeps a sheet of paper from being sent through the duplex unit if the sheet will only be printed on one side. The duplex unit will be bypassed for the following types of print jobs: a one page document, one page from a multi-page document, or a multi-page document that prints onto a single sheet. Selecting this option can reduce wear on the mechanical duplex unit, and result in comparatively faster printing times.

PCL XL Settings

Skip printing blank pages

This option prevents the printing system from outputting any page that contains no data, or that has, at most, one space character. Selecting this option can save paper, and result in comparatively faster printing times. This feature is for regular printing (not for booklet, duplex or multiple pages per sheet).

KPDL Settings

Allow data passthrough

This option reduces errors when printing complex jobs from applications that use PostScript formatting. When selected, EMF spooling is not available in the Advanced tab.

PDF Settings

Provides options for printing and saving documents to Adobe PDF format. See PDF topics for details.

Selecting a PDL

You can select a page description language from PDL options.

1 In Device Settings > PDL > PDL Settings, select the desired page description language from the Select PDL list.

2 You can select the GDI compatible mode option to improve the output quality of graphics created by your application.

3 Select Settings when the PDL is set to PCL XL, KPDL or PDF.

   If you select PCL XL, you can select Skip printing blank pages and Enable smart duplex printing.

   If you select KPDL, you can select Allow data passthrough and Enable smart duplex printing.

   If you select PDF, you can select from the available PDF Settings.

4 Click OK in the PDL Settings and Properties dialog boxes.
PDF Options

You can select PDF options if you have installed the Output to PDF plug-in. Color originals are produced as black and white PDFs, whether printed or saved to a file.

The PDF Settings dialog box contains the following options:

PDF Settings

Embed fonts
This option ensures that document fonts appear accurately in the PDF file on screen. This option ensures accurate reproduction but significantly increases the file size.

Compress data
This option enables flat compression for the generated PDF document. This option significantly reduces the file size. Additional compression options are available within Adobe Acrobat.

Security
This option applies encryption to the PDF document. Click Settings for additional Security settings. See the next section for details.

Print and save
This option lets you print and save a document as a PDF file. Click Settings for additional Print and save settings.

Security Settings

This option lets you select an encryption level and create passwords for the generated PDF file.

The following security options are available:

Encryption
Encryption provides password protection so that a document cannot be opened or altered by unauthorized users.

40 bit
This encryption option provides low level security for a PDF document. It is supported for Adobe Acrobat and Adobe Reader 6.0, or later.

128 bit
This encryption option provides high level security for a PDF document. It is supported for Adobe Acrobat and Adobe Reader 6.0, or later.

Passwords
Select passwords for changing security settings and for opening a document. Passwords are supported up to 16 characters in length.

Require password to change security settings
Type an Owner password. Within Adobe Acrobat, this password is required to change the document restrictions in the Files > Properties > Security section. When a document with this password is opened in Adobe Reader, it cannot be printed or edited, and document data cannot be copied.

Require password to open document
Type a User password. The user password must be entered at the time the PDF document is opened. This password must be different from the owner password.
**Print and Save Settings**

This option lets you print and save a document as a PDF file.

- **Save to file only**
  A PDF file is created and saved locally.

- **Save to file and print**
  A PDF file is created, saved locally, and sent to print.

After you select between these two options, you can choose the following option:

- **Automatically save to default file**
  A PDF file can be saved automatically as a default file to be used again.

You can then select from the following options:

- **Replace default file**
  This option lets you replace the default file.

- **Use default file + date and time**
  This option lets you use the default file name and add a date and time stamp each time the document is saved.

- **Default file directory**
  This option lets you browse to a location to save your PDF.

**Printing and Saving to PDF**

You can print a document and save it to Adobe PDF, if you have installed the Output to PDF plug-in.

1. In **Device Settings > PDL Settings**, in the **Select PDL** list select **PDF**.
2. Click **Settings**.
3. In the **PDF Settings** dialog box, select **Print and save**.
4. Click **Settings**, and select from print and save options. See the **PDF Options** topic for details.
5. Click **OK** in all dialog boxes.
6. Open and print the document.
7. Name and save the **PDF** file.

**XPS Driver**

In Windows 7, Windows Vista, and Windows Server 2008, the XML Paper Specification (XPS) Page description language provides the most efficient method for displaying, processing, and printing documents. As both a PDL and a document format, XPS requires compatible printer hardware and software written for the Windows Presentation Foundation (WPF) architecture. **PCL** and **KPDL** are not compatible with an XPS environment. Therefore, an XPS driver supports a single PDL setting. The XPS driver can be installed from the...
Device Settings

Product Library disc. In the Installation Method menu, click Custom Mode, and on the Custom Installation page, select KX XPS DRIVER.

To view a print to file XPS document, download and install the Microsoft XPS Viewer.

Compatibility Settings

Compatibility Settings lets you specify media source values, override the application's Collate setting, and combine the Source and Media type lists in the Basic tab.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Media Source Enumeration

Media source enumeration supports compatibility for media source values unique to the printer driver, such as those for cassettes or feeders. Your newly installed printer driver maintains identical media source support with the driver it replaces, whether for this driver or one from another manufacturer. If media source macros exist for the older driver, then the alignment of media source values maintains support without the need to change the macros.

Setting Media Sources

Use the Driver Info utility (Utility\Driver Info\DrvInfo.exe) to compare the source values for all installed drivers.

If the values for a given media source differ between printer drivers, you can reassign an enumerated value to create a match between the drivers.

1 In Device Settings > Compatibility Settings, from the Media source enumeration list select the paper supply method. The current value is listed in the Enumerated value box.

2 Type an Enumerated value for the media source, and click Apply. To align settings with a different driver, this value should align with those in the other driver.

3 Click OK in the Compatibility Settings and Properties dialog boxes.

You can restore all the options in Compatibility Settings to the default by clicking Reset.

Ignore Application Collation

This option bypasses the Collate setting in software applications, and gives priority to the printer driver setting.

With the check box selected, the printer driver Collate setting is used.
With the check box cleared, the application Collate setting is used.

Selecting Printer Driver Collation

You can ignore the collation setting in the application and use the printer driver collation setting.

1 In Device Settings > Compatibility Settings, select Ignore application collation.
Device Settings

2 Click OK in the **Compatibility Settings** and **Properties** dialog boxes.

You can restore all the options in **Compatibility Settings** to the default by clicking **Reset**.

**Combine Source and Media Type Lists**

You can change the driver's **Basic** tab so that **Media type** and **Source** are combined into one list, labeled **Source**. In the combined list, Media types are listed first, followed by cassettes and **MP tray**.

**Creating a Combined Source List**

You can combine the **Source** and **Media type** lists in the **Basic** tab to make one **Source** list.

1 In **Device Settings > Compatibility Settings**, select **Combine source and media type lists**.

2 Click OK in the **Compatibility Settings** and **Properties** dialog boxes.

You can restore all the options in **Compatibility Settings** to the default by clicking **Reset**.

**Removing a Plug-in**

You can remove an installed plug-in from the driver. If removed, the plug-in features do not appear in the driver interface.

**Note:** To remove the **Output to PDF** module, **PDF** must not be selected in the **PDL Settings** dialog box.

1 In **Device Settings**, click **Kyocera logo > Plug-in**.

2 Select a plug-in module from the list and click **Delete**, then **Yes**.

3 Click **OK** in all dialog boxes.
3 Quick Print

In the Quick Print tab, you can apply basic print settings to print jobs. Any Quick Print settings can be saved as a group, called a profile, and applied to any print job. Profiles support common printing tasks.

The administrator can set the view of the Quick Print tab through the Installation process, or Administrator Settings in Properties.

This chapter can be used as a separate Quick Print user guide when KX Driver support is controlled by an administrator.

Quick Print Options

You can set one or more print options on the Quick Print tab. You can create your own customized view of print options with Edit Quick Print. And you can also select from profiles that have been set with predefined options for frequently run print jobs.

Common Printing Options

The upper section of the Quick Print tab has several icons that represent the most common options for print jobs. Click on the Quick Print icons to change settings for the print job. Some of these options also appear on the Basic, Layout, and Imaging tabs.

Orientation

This icon changes between portrait, landscape, portrait rotated, landscape rotated printing formats.

Collate
Quick Print

This icon changes the ordering of the printed pages. The page ordering sequence can either be 123, 123, or 111, 222 and so on.

Print on both sides
This icon changes between duplex printing for flipping on the long edge, duplex printing for flipping on the short edge, or for not using duplex printing.

Multiple pages per sheet
This icon changes between Off, 2, and 4 for the number of pages printed on one sheet. For more than 4 pages per sheet, define these settings in Layout > Multiple pages per sheet.

EcoPrint
This icon changes the text and graphics to appear lighter in the printed job. EcoPrint does not increase print speed.

Edit Quick Print
This button lets you select the print option icons to display and in what order when you access the Quick Print tab. The Edit Quick Print button is not available when the driver is accessed from an application’s Print dialog box.

Any basic print options can be Reset to the default values in the Quick Print tab. This button only appears when it is accessed from an application’s Print dialog box.

The following sections describe some of the Quick Print tab options in more detail. Collate, Duplex printing, and EcoPrint can also be found in the Basic and Imaging tabs, and Multiple pages per sheet in the Layout tab. The Profiles options are accessed from Printing Preferences.

Collate
Collate specifies the order in which the pages of a multiple copy job are printed. With Collate selected, the first time the print job is sent to the printing system the data is rendered as page images in the printing system's memory. The remaining job copies are printed from the stored data. This avoids the extra processing involved in sending every copy from the computer to the printing system.

With Collate selected, the driver prints the complete job set by set. With Collate cleared, it prints each page by set. For example, with Collate selected, three copies of a five-page document output as pages one through five in succession, three times.

You can use the application’s Collate setting by clearing the Ignore application collation check box in the Compatibility Settings dialog box accessed from Device Settings.

Duplex Printing
Duplex printing is printing on both sides of each page. Select Print on both sides to start duplex printing. The printing system contains a duplex unit that turns the paper over to allow printing on the reverse side. Print on both sides must be selected to print on both sides of the cover and insert pages.

Flip on long edge
Turn the long edge of the page to view the content.

Flip on short edge
Turn the short edge of the page to view the content.
Multiple Pages per Sheet

Multiple pages per sheet prints several pages on a single sheet of paper for the purpose of reviewing the document and conserving paper. The size and readability of the multiple pages decrease as the number of pages per sheet is increased. You can set the arrangement of the pages from the Layout tab as well as print borders around each of the pages.

When Multiple pages per sheet is selected, Scaling and Poster are unavailable.

Edit Quick Print

The assortment of icons at the top of the Quick Print tab can be customized to include features that you use most often. Any number of icons from 0 to 5 can be displayed. All icons can be removed from view if you want to use only the Profiles options in the Quick Print tab.

Note: An administrator can hide the Edit Quick Print button by selecting Hide Edit Quick Print control in Device Settings > Administrator Settings. The Edit Quick Print button is unavailable when the driver is accessed from an application’s Print dialog box.

Editing Quick Print Options

You can select from a limited set of driver features to appear in the Quick Print tab.

1. Click Start and click Devices and Printers (Windows 7), or click Control Panel and double-click Printers (Windows Vista), or Printers and Faxes (Windows XP).

2. Right-click on the desired printing system model and click Printing Preferences.

3. Select the Quick Print tab.

4. Click Edit Quick Print.

   To add a feature to the Quick Print tab, select the feature under Available controls, and click the right arrow to move the feature to Selected controls. A maximum of 5 features can appear under Selected controls.

   To remove a feature from the Quick Print tab, select the feature under Selected controls, and click the left arrow to move the feature to Available controls. To use only the Profiles in the Quick Print tab, move all features to Available controls.

   Click the up and down arrows to change the position of the features under Selected controls. The feature at the top appears on the left in the Quick Print tab.

   To restore the list to factory default options, click Reset.

5. After making your selections, click OK.

Profiles

In Profiles, you can save printer driver settings as a profile. You can select multiple options in any Printing Preferences tabs, save them as a profile, and
use all of them at once when you apply the profile. The profiles list always includes a Factory Default profile that returns the driver options to their default settings. The profiles can include Common Profiles, which are installed as optional components through the Optional Printer Components, and any custom profiles created. A maximum of 26 profiles can be established in one driver, including the Factory Default profile. Settings made in Device Settings cannot be saved to a profile.

Selecting a Profile

You can select and apply a profile from the Quick Print tab or from the Profiles dialog box.

Quick Print tab

1. In the Quick Print tab, select a Profile. The side panel displays the options for that profile using an icon and a summary.

2. Click Apply.

Profiles dialog box

1. In any of the Printing Preferences tabs, click Profiles.

2. In the Profiles dialog box, select a profile.

3. Click Apply. The dialog box displays a summary of the settings for that profile.

4. Click OK.

Saving a Profile

The Save button lets you create your own profiles. You can select the printing options you want in the driver, then save the driver settings including your customizations as a profile. You can then use that profile to print the same type of print job again without having to reselect all the settings. In Printing Preferences, the Profiles button appears at the bottom of all the tabs.

1. Set the printing options you want for your print job by opening Printing Preferences and selecting all your driver settings.

2. Click Profiles > Save.

3. To identify the profile, type a Name, select an Icon, and type a Description.

4. Click OK to save the profile.

   The newly added profile appears in the Profiles dialog box.

5. Click Apply to use the selected profile for the current print job, or click OK to close the dialog box.

Note: To reset the printer driver to default settings, select the Factory Default profile, and click Apply. This clears the settings of a selected profile.
You can remove a profile by selecting it in the Select profile list and clicking Delete.

**Editing a Profile**

The Edit button lets you make changes to an existing profile. The Factory Default profile cannot be edited.

1. Click Profiles.

2. In the Select profile section, select the profile to be edited, and click Edit.

3. Any of the three options can be edited: name, icon and description. Click OK to save the edited changes.
   The newly edited profile appears in the Profiles dialog box.

4. Click Apply to activate the selected profile to the current print job, or click OK to close the dialog box.

**Importing a Profile**

The Import button lets you import a copy of a profile from other printer drivers into your printer driver.

1. Click Profiles > Import.

2. Browse for the existing profile (.KXP), select it, and click Open.
   A message appears if any of the profile settings in the imported file are unavailable in the existing driver. Select Yes, to import the profile, or No, to cancel the import.

3. If you selected Yes in the previous step, the newly imported file appears in the Profile dialog box.

4. Click Apply to use the selected profile for the current print job, or click OK to close the dialog box.

**Exporting a Profile**

The Export button lets you export a copy of a profile from your printer driver for use in other printer drivers. The Factory Default profile cannot be exported.

1. Click Profiles.

2. In the Select profile section, select the profile to be exported, and click Export.

3. In the Export Profile dialog box, name and save the profile.

4. Click OK to close the Profiles dialog box.
Application Based Printing

An administrator can associate a profile with an application so that all printing from the application uses the same profile settings. This makes profiles easier to use and ensures consistent printing from an application. For example, a duplex profile can be applied to all spreadsheet printing to save paper.

Associations between profiles and applications can be created at any time in the Profiles dialog box. To use the associations in printing, the feature must be turned on in the Administrator Settings dialog box, accessed from Device Settings.

A maximum of 25 associations can be created in the Application Based Printing dialog box, accessed from the Profiles dialog box.

In a client/server environment, clients can view details about server associations but cannot change settings or select another profile.

Adding an Association

Once profiles have been created or imported, you can create an association between a profile and an application. Then the application always prints using the associated profile settings.

1 In any tab, click Profiles to open the Profiles dialog box.
2 Click Application to open the Application Based Printing dialog box.
3 Click Add to open the Add Association dialog box.
4 Enter a name for the association, to a maximum of 31 characters.
5 Under File name, enter a valid executable file name (.EXE) for an application that allows printing, or browse to find a file located on your computer.
6 Select a profile from the list.
7 Click OK in the Add Association and Application Based Printing dialog boxes to create the association.

You can remove an association by selecting it and clicking Delete.

Editing an Association

You can change the name, file, and profile for an association.

1 In any tab, click Profiles to open the Profiles dialog box.
2 Click Application to open the Application Based Printing dialog box.
3 Select an association to edit and click Edit to open the Edit Association dialog box.
4 Change desired settings under Association name, File name, or Profile.
Click **OK** in the **Edit Association** and **Application Based Printing** dialog boxes to save the revised association.
4 Basic

In the Basic tab, you can specify the most commonly used printer driver settings.

Basic Settings

The Basic tab contains several settings for the most commonly used printing tasks.

Print size
This setting sets the size of the area that the printer prints to, regardless of the actual paper size that is used by the printing system.

Source
This setting specifies the cassette or tray that the printing system draws paper from. Unless you are using a custom paper type, you can leave it set to Auto source selection.

Page Sizes
This setting should match the page size setting in your application. The printing result is based on the page size specified in this setting. You can also create a custom page size.

Media type
This setting selects the Source based on the types of media that are specified in the printing system. In general, you can leave it set to Unspecified.

Destination
This setting specifies which output tray is used for the print job output.
Basic

Orientation
These settings specify the paper orientation of the print job. If Rotated is selected, the print job orientation is rotated 180 degrees.

Copies
This setting specifies the number of copies to print. For collating multiple copies, select Collate.

Duplex
These settings enable printing on both sides of a sheet of paper.

Quality
This EcoPrint check box makes the entire image, text and graphics, appear lighter in the printed job. This setting does not increase print speed.

Print Preview
This setting lets you view your document before printing.

Note: Some applications may override print settings made in the driver. Usually the application can be set to follow the settings. In Microsoft Word 2007, ensure that Default tray in Options is set to Use printer settings.

Source and Media Types

In the Basic tab, Source specifies which tray or cassette the printer uses for a printing job. The default is Auto source selection, which instructs the printer to search for the media requested by the application or the printer driver. If the selected tray or cassette empties during a print job, then the printer searches for another source, and continues the job.

Media type instructs the printer to search for the type of paper or media that is requested by the application or the printer driver. The choices shown may change depending on the selection in Source. If Auto media selection is selected, then the printer searches for another tray or cassette using the same media.

Transparencies, labels, and envelopes must be supplied from the MP tray. Ensure the paper is properly loaded by following the instructions outlined in the printing system's Operation Guide.

Note: Source and Media type are separate items in the dialog box, but can be combined using the Combine source and media type lists setting in Compatibility Settings. If they are combined, Media type is not available on the Basic tab. To change this setting, open Device Settings > Compatibility Settings and clear the Combine source and media type lists selection.

Print Size and Page Size

Print size controls the output page size of the document. To use this setting, ensure that the Page Sizes setting matches the page size setting in your application. If the Print size is different from the page size in your application, then each page is enlarged or reduced to match the Print size. The percentage value shown in brackets indicates the size of the Print size setting relative to the Page Sizes setting. If the Page Sizes does not match the page size setting in the application (the size of the original) then, in most cases the Print size is ignored and the document is printed based on its original size.

You can create a page size with your chosen dimensions for printing on non-standard size paper. For example, you can create a custom banner with a
Basic

height from 5.82 inches (148.0 mm) to 14.01 inches (356.0 mm) and a width from 2.75 inches (70.0 mm) to 8.5 inches (216.0 mm). You can then save the custom setting to the Page Sizes and Print size lists for later selection.

Creating a Custom Page Size

To use custom page sizes, they must be created and added to the Print size list. The driver supports a maximum of twenty custom sizes.

1 In the Basic tab, click Page Sizes.

2 Click New.

3 A default custom name appears in the Name box. Type a name for your custom page size.

4 Type or select values for the height and width. If the height or width value exceeds the allowable limit, it automatically adjusts to the limit after Apply or OK is clicked.

5 When done, click Apply.

The custom page size appears in the Print size list, which is used for enlarging and reducing the sizes of prints.

To delete a custom page size from the Page Sizes dialog box, select the name of the custom page size and click Delete.

Printing with Custom Size Pages

You can print on custom-sized pages.

1 Load custom-sized paper into the MP tray.

2 In the Basic tab, select the name of your custom page size in the Print size list.

3 Click OK to return to the Print dialog box.

4 Click OK to start printing.

Duplex Printing

Duplex printing is printing on both sides of each page. Select Print on both sides to start duplex printing. If it is not selected, then the printer prints on only one side of each page. The printer system contains a duplex unit that turns the paper over to allow printing on the reverse side. Print on both sides must be selected to print on both sides of the cover and insert pages.

Flip on long edge
Turn the long edge of the page to view the content.

Flip on short edge
Turn the short edge of the page to view the content.
Printing in Duplex Mode

You can print on both sides of each page.

1 In the Basic tab, select Print on both sides.

2 Select either Flip on long edge or Flip on short edge.

3 Click OK to return to the Print dialog box.

4 Click OK to start printing.

Collate

Collate specifies the order in which the pages of a multiple copy job are printed. With Collate selected, the first time the print job is sent to the printing system the data is rendered as page images in the printing system's memory. The remaining job copies are printed from the stored data. This avoids the extra processing involved in sending every copy from the computer to the printing system.

With Collate selected, the driver prints the complete job set by set. With Collate cleared, it prints each page by set. For example, with Collate selected, three copies of a five-page document output as pages one through five in succession, three times.
Basic

You can use the application’s Collate setting by clearing the Ignore application collation check box in the Compatibility Settings dialog box accessed from Device Settings.

Printing Collated Documents

When printing multiple copies of a multiple page document, the printer can assemble the pages of each copy in numerical order.

1. In the Basic tab, select the Collate check box.

2. Type or select the number of complete sets of the print job in the Copies box. The document page count must not exceed the printer tray capacity.

3. Click OK to return to the Print dialog box.

4. Click OK to start printing.

Quality

The Quality feature, EcoPrint, changes toner saturation in the printed job, making the entire print image, including text and graphics, appear lighter. The amount of toner varies based upon your printing system model and the type of data printed (text, graphics, or both). EcoPrint is also available in the Quick Print and Imaging tabs. To enable this feature in the Basic tab, select the EcoPrint check box.

Print Preview

After selecting driver settings, you can use Print preview to check the print job before you proceed with printing. If you are satisfied with the preview, you can print. Or you can cancel printing if you want to change driver settings.

Previewing a Print Job

You can see a print preview before printing.

1. Select desired driver settings in all tabs, or select a profile.

2. In the Basic tab, select Print preview.

3. Click OK in the Printing Preferences and Print dialog boxes.

4. When the Print preview dialog box appears:
   - Click the arrow buttons to view document pages.
   - To close the preview and make additional changes in driver settings before printing, click the “X” button.
   - If you are satisfied with the preview, click the printer button to print the job.
**Kyocera Logo**

The **Kyocera** logo appears on the bottom portion of any **Printing Preferences** screen or **Device Settings** screen. Click the logo to open the **About** dialog box that displays the driver version number and driver plug-in information.

### Displaying Version Information

In **Device Settings** or any tab, click **Kyocera logo > Version** to view the following driver information:

- File Name
- Version
- Description
- Date
- Manufacturer
- Comments

To view copyright information, click **Legal Notices**.

Click **OK** to close the driver information dialog boxes.

### Displaying Plug-in Information

A plug-in integrates with the printer driver to extend the driver’s capabilities.

In **Device Settings** or any tab, click **Kyocera logo > Plug-in** to view the following plug-in information:

- Module
- Description
- Version

Click **OK** to close the driver information dialog boxes.
5 Layout

In the **Layout** tab, you can arrange document data on printed pages without affecting the original document.

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### Multiple Pages per Sheet

**Multiple pages per sheet** prints several pages on a single sheet of paper for the purpose of reviewing the document and conserving paper. The size and readability of the multiple pages decrease as the number of pages per sheet is increased. You can set the arrangement of the pages from the **Layout** tab as well as print borders around each of the pages.

When **Multiple pages per sheet** is selected, **Scaling** and **Poster** are unavailable.

#### Printing Multiple Pages per Sheet

You can print several pages on a single sheet of paper.

1. In the **Layout** tab, select **Multiple pages per sheet**.

2. In **Pages per sheet**, select the number of pages to print on each sheet of paper.

3. If you want to print a border around each page, select **Print borders**.

4. In the **Layout** list, select the direction the pages should flow.
5 Click **OK** to return to the **Print** dialog box.

6 Click **OK** to start printing.

**Scaling**

Scaling increases or decreases text and graphics on a page. You can also select a gutter setting that enlarges the margins to accommodate manual stapling or manual hole punch. Scaling is unavailable when other Layout tab options are selected.

**Setting Scaling on the Page**

You can increase or decrease text and graphics on a page.

1 In the Layout tab, type or select a scaling percentage between 20 to 500. Scaling adjusts proportionately the height and width of the page. A lower percentage reduces the page and a higher percentage enlarges the page.

2 Click **OK** to return to the **Print** dialog box.

3 Click **OK** to start printing.

**Gutter**

Gutter increases the margins around your text and graphics on the left side and at the top of the printed sheet. Gutter is often used for binding, hole punch, or stapling to make a print job easier to read. This creates a larger margin space by shifting the printable area to the right, or down, as much as one inch (25.4 mm).

**Creating a Gutter**

You can increase the margins on the left side and at the top of the printed sheet.

1 In the Layout tab, click **Gutter**.

2 In the Gutter width options, type or select a value between 0.20 to 1.00 inches (5.0 to 25.4 mm).

   **Short edge (top)**
   This selection modifies the outside margin on the top-edge of the page.

   **Long edge (left)**
   This selection modifies the outside margin on the left-side of the page.

**Note:** Availability of Gutter settings varies depending on Orientation and Duplex settings in the Basic tab.

3 If text extends too close to the edge of the page, select **Reduce image to fit**. The text appears slightly reduced and away from the edge of the page. If text does not extend beyond the page when the gutter increases, clear Reduce image to fit.
4 Click OK to save gutter settings, then click OK again to return to the Print dialog box.

5 Click OK to start printing.

**Booklet**

**Booklet** prints a two-page layout on both sides of each sheet of paper. You can fold and bind the booklet in the center. Folded booklets are half the size of the selected paper. For example, if you select Letter in Basic > Paper > Print size, the printed output can be folded into a 5.5 x 8.5 inch-size booklet.

When **Booklet** is selected, other **Layout** tab options are unavailable.

A different paper source can be selected for the booklet cover. To include a cover on the booklet, select the **Publishing** tab, then select **Cover mode**.

**Printing a Booklet**

You can print a booklet.

1 In the **Layout** tab, select **Booklet**, and one of the two binding options.

   - **Left edge binding**
     This selection prints text that reads from left to right.

   - **Right edge binding**
     This selection prints text that reads from right to left.

2 Click OK to return to the Print dialog box.

3 Click OK to start printing.

**Poster**

The **Poster** feature lets you create a document to a size that is larger than the paper your printer can support. You can print a poster, or banner, up to 25 times larger than the original document. Segments of the poster document are printed on several sheets of paper and with the assistance of poster settings, you can reassemble the sheets easily to create a poster.

Use **Sheets per page** to select the poster size in relation to the original document size. Each option shows the number of sheets to be printed and the maximum poster size.

When **Poster** is selected, other **Layout** tab options are unavailable.

**Note:** **Sheets per page** displays the unit of measurement in inches or millimeters. You can change the **Units** setting in the **User Settings** dialog box, accessed from **Device Settings**.

Use **Print format** to print a proof sheet, along with the poster, to guide you in assembling the printed poster sheets.

- **Poster pages**
  This selection prints all of the sheets to be assembled as a poster.

- **Proof sheet**
This selection prints all the poster pages on one sheet with markings that display the sheet assembly.

**Poster pages and proof sheet**
This selection prints all poster sheets and a one-page proof sheet.

Use **Poster Settings** to select options, in any combination to make it easier to create a poster. These options print visual cues on the poster sheets that provide help in cropping and assembling the pages.

**Overlap edges**
This selection duplicates the edges of document data on adjoining sheets. Poster appearance is improved when the edges overlap slightly. Select the check box, then type or select a value between 0.00 and 1.20 inches (0.0 and 30.4 mm). This option reduces the final poster size slightly.

**Print crop marks**
This selection prints a border at the edges of each poster sheet. You can crop each sheet on the border before assembling the sheets. This option ensures that data on adjoining sheets matches precisely.

**Print assembly marks**
This selection prints numbers at the edges of each sheet, matching numbers on adjoining sheets. Assemble each sheet edge to the same numbered edge on another sheet.

**Printing a Poster**
You can print a poster.

1. In the **Layout** tab, select **Poster**.

2. In **Sheets per page**, select the poster size. Each option describes the number of sheets it takes to represent one finished poster page.

3. Click **Poster Settings** to select options in any combination. These options ensure a precise assembly of the pages to create the poster.

4. In **Print format**, select one of the options for a finished print format.

5. Click **OK** to return to the **Print** dialog box.

6. Click **OK** to start printing.
In the Imaging tab, you can manage print quality and grayscale settings.

Print Quality and Custom Quality

Print quality lets you set the resolution for the print job. Resolution is a measurement, in dots per linear inch (dpi), that describes the sharpness and clarity of printed text and images. Custom Quality lets you set a more refined resolution for the print job. Half speed mode lets you reduce print speed to improve printing on small or thick paper.

Selecting Print Quality

In the Imaging tab, select a Print quality from the list. The number of selections in Print quality depends on the number of resolutions supported by the printing system.

High quality, Proof, Draft
Select one of these settings to print from the highest to the lowest print resolution. Proof is unavailable when PCL 5e is selected in the PDL Settings dialog box.

Custom
Custom lets you choose a setting for Custom Quality and EcoPrint.

Click Custom Quality to open a settings dialog box with selections for a more refined resolution. Depending on your model, Resolution can be set to Fine 1200, Fast 1200 (unavailable for the PCL 5e Page description language), 600 dpi, or 300 dpi. Kyocera image refinement smoothes the edges of text and vector graphics and can be set to On, or Off.
Selecting EcoPrint

EcoPrint changes toner saturation in the printed job, making the entire print image, including text and graphics, appear lighter. The amount of toner varies based upon your printing system model and the type of data printed (text, graphics, or both). EcoPrint does not increase print speed. EcoPrint is also available in the Quick Print and Basic tabs.

1. In the Imaging tab, in the Print Quality list, select Custom.
2. Click EcoPrint to open the EcoPrint dialog box.
3. To start EcoPrint, select On; to stop it, select Off.
4. Click OK to close the EcoPrint dialog box.

Half Speed Mode

Half speed mode reduces the print speed to half the rated speed. When selected, the toner adheres better when printing on small size, thick, or textured paper. This mode may result in quieter printing.

Note: Half speed mode applies to all media types except Transparency and Vellum.

Fonts

A computer font is a data file containing a set of glyphs (visual representations of textual elements), characters, or symbols. Common terms for fonts are:

- **Outline fonts**, in contrast to bitmap fonts, are defined as a set of mathematical lines and curves. An outline font is more easily scalable (designed to display and print clearly at any point size) than a bitmap font.

- **Bitmap fonts** define each character as a pattern of pixels (the smallest resolvable rectangular areas of an image). Such fonts are not easily scalable and distort when reduced or enlarged.

- **Native fonts** are the basic or original fonts installed with the computer operating system. TrueType fonts are the native fonts used by Microsoft Windows.

- **TrueType fonts** are a type of scalable outline fonts. TrueType has long been the most common format for fonts on Microsoft Windows.

- **System fonts** are the primary fonts used by the operating system. They are typically accessed through an application interface or through a common font dialog box.

- **Device fonts** are stored either permanently or temporarily in the printing system memory.

Font Settings

The Font Settings dialog box lets you specify how TrueType fonts are sent to the printing system. The chosen method affects the speed and quality of the print job:

- Download as outlines
This method is best suited for large documents or print jobs using multiple fonts and font sizes. Print speeds are faster because of the optimization features in this setting. The repetition of similar font data sent to the printing system is reduced, thereby increasing the print speed. Print speed is not increased when using Asian fonts such as Japanese, Chinese, and Korean, because of the large amount of font information used for these particular fonts.

**Allow native download**

This method improves text quality and increases print speed by converting TrueType fonts to Adobe Type 42 font format. This feature is available when KPDL is selected in the PDL Settings dialog box.

**Download as bitmaps**

Downloading fonts as bitmaps provides more detail, however it creates large file sizes. This is best suited for print jobs with custom fonts, very small fonts (point size 1-4), or Asian fonts.

**Substitute with device fonts**

System fonts and device fonts are automatically matched based on typeface name. This function increases print speed and efficiency. It is useful for changing a font used throughout a large document, by replacing the old font with the desired font.

**Note:** GDI compatible mode does not support Substitute with device fonts.

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**Selecting Font Settings**

You can specify how TrueType fonts are sent to the printing system.

1. In **Imaging > Fonts**, select one of the methods for sending TrueType fonts.

2. Click **OK** to return to the Print dialog box.

3. Click **OK** to start printing.

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**Font Substitution**

Font substitution is the process of using one font in place of another when the intended font is not available to a printing system. Font substitution may be critical for output of documents to printing systems that are not well supported by a large font inventory.

**Setting Font Substitution**

You can use one font in place of another.

1. Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP).

2. Right-click on the desired printing system model and click **Printing Preferences**.

3. In **Imaging > Fonts**, select **Substitute with device fonts**, and then click **Fonts**.
In the Fonts Substitution dialog box, the System fonts list shows the fonts installed on your computer. The Available device fonts list shows the printing system fonts.

4 Select the system font, and then the available device font to be substituted.

5 Click OK to save your settings.

If the device font does not have similar font characteristics to the system font, character spacing in the document may appear incorrect.

Disable Device Fonts

In some cases, the printing system substitutes fonts even if you send the TrueType fonts as outline fonts or bitmap images. Select Disable device fonts to prevent substitution of device fonts for TrueType fonts.

This option also improves portability of printable data. (If cleared, device fonts may not match when sent to a different printing system.)

Some Adobe applications have device font limitations. To overcome these limitations, select Disable device fonts. Device fonts are normally visible in the application font lists as printer icons next to the font name, unless there are equivalent system fonts, in which case the “TT” TrueType icon remains.

Disabling Device Fonts

You can prevent substitution of device fonts for TrueType fonts.

1 In Imaging > Fonts, select the Disable device fonts check box.

2 Click OK to save your settings.

Graphics

Graphics are pictorial representations of information. Graphics can be functional (charts, diagrams) or artistic (drawings, photographs). Graphics Settings let you select options for your printed graphics.

Note: Some options are available only when a specific PDL is selected.

Selecting Graphics Settings

1 In the Imaging tab, click Graphics.

2 In the Graphics Settings dialog box, select from the available options, and then click OK to save your selections.

Pattern Scaling

Pattern scaling is a feature that can help improve visual compatibility between screen and print output. Graphics objects, such as a shape or a path, often include patterns and fills that are composed of collections of printed dots. A pattern is a planned or random repetition of colors, shapes, lines, values, and textures to create a visual arrangement. A fill is the application of a color or grayscale to a graphics object. If printed patterns and fills do not match the appearance of that on the screen, use Pattern scaling to select a different density of printed dots.
In Imaging > Graphics settings, select Pattern scaling settings.

Auto (default setting)
This setting prints patterns and fills to match the on-screen appearance.

Coarse
This setting prints patterns and fills with the fewest number of lines, patterns, or dots. Coarse is the same as Auto when PCL XL or PCL 5e is selected in the PDL Settings dialog box.

Medium
This setting prints patterns and fills with a greater number of lines, patterns or dots than the Coarse setting. Medium is the same as Auto when KPDL is selected in the PDL Settings dialog box.

Fine
This setting prints patterns and fills with the greatest number of lines, patterns, or dots. Printed patterns and fills may appear more dense than the on-screen appearance.

Line Thinning

Line thinning reduces the pen width of lines used for barcodes and line drawings. Drawing values controlled by an application are not changed.

Line thinning is available when PCL XL is selected in the PDL Settings dialog box. When GDI compatible mode is selected in the PDL Settings dialog box, Line thinning is not available.

Off (default setting)
Line thinning is not applied.

Barcodes
This setting reduces the pen width value for vertical and horizontal lines. It improves the readability of barcodes.

Fine lines
This setting reduces the pen width value for vertical, horizontal, and diagonal lines.

All
This setting reduces the pen width by a value of 1 for vertical, horizontal, and diagonal line used in barcodes or line drawings.

Inversion Options

Inversion is the opposite of the normal order, arrangement, or position of an image or printed content.

In Imaging > Graphics Settings, select Inversion options. The settings are available when KPDL is selected in the PDL Settings dialog box.

Reverse image
This setting prints images like a photo negative, reversing black and white areas of the image.

Mirror print
This setting prints the page content backwards, as it would appear in a mirror image.
Optimization

Optimization is a process or methodology of improving a printing system’s function or effectiveness.

In Imaging > Graphics Settings, select Optimization. The settings are available when KPDL is selected in the PDL Settings dialog box.

**Fast printing**

This setting increases print speed and decreases spool size. It delivers images in binary format. It can be used for most everyday printing needs.

**Document portability**

This setting creates a PostScript file in ASCII text encoding. Unlike the binary format created in Fast printing, the ASCII text created with this selection can be edited.

CIE Option

CIE optimization bypasses the normal procedure of processing every aspect of the CIE color space used in applications such as Adobe Acrobat and Photoshop. This feature increases print speed for documents printed from these applications by optimizing CIE data. It has no effect on print jobs that do not use CIE data. CIE optimization should be selected for speed not accuracy, so printed output may be different from appearance on the screen.

In Imaging > Graphics Settings, select the CIE optimization check box. CIE optimization is available when KPDL is selected in the PDL Settings dialog box.

Halftone Screen

Halftone Screen lets an experienced user print different shades of gray as are found in photographs. Shades are produced by printing dots of various sizes and shapes, and by spacing them closer or farther apart. Shading can also be adjusted by the number of rows of data, the angle of the rows, and the shape of the data.

Halftone Screen is available when KPDL is selected in the PDL Settings dialog box. It is unavailable when GDI compatible mode is selected in the PDL Settings dialog box.

Setting the Halftone Screen

Halftone Screen provides a means to apply shades of gray to black and white printed output.

1. In Imaging > Graphics Settings, click Halftone Screen.

2. Clear the Use printer's default screens check box.

3. Set the available options to the desired values:
   - **Ink**
     Lists the halftone screens available. For black and white printers, this option appears unavailable and is permanently set to Black.
   - **Frequency**
     Displays the number of rows of dots per inch or centimeter. Set the range from 2.0 to 999.9, and select lines/inch or lines/cm.
   - **Angle**
Imaging

Sets the angle at which rows are aligned. Set the range from -180 to 180 degrees.

Shape
Select the shape of the halftone dot:

Ellipse
Resists optical jump. An optical jump occurs when an area of an image suddenly become darker. An ellipse shape provides a smooth gradation of tones. Select Ellipse for images with dark areas.

Round
Resists moiré formation and dot gain. Moiré formation is an unintended pattern that occurs when two or more colors are printed at the wrong angles. The correct angles depend on the number of colors being printed. Dot gain is when the halftone dots increase when printed, causing a moiré pattern. Select Round for images with light tints and highlighted areas.

Line
Used for special effect. Select Line to change the effect by selecting a different angle.

4 Select Increase accuracy of screens for better print quality, possibly increasing print time.

5 Click OK to return to the Print dialog box.

6 Click OK to start printing.

Adjusting Grayscale

The grayscale adjustment settings change the Brightness and Contrast of graphics. These settings are useful if graphic images are printing too light, too gray, or too dark. Text remains unaffected.

1 In the Imaging tab, under Adjustment, select Custom.
A preview image in the Adjustment Settings dialog box illustrates any brightness and contrast changes.

2 Drag the Brightness slider right to lighten, or left to darken the graphic images of the print job.
You can also change brightness by entering a numeric value in the text box at the right. The brightest setting is +100; the darkest is -100. Zero is the default mid-level setting. Adjusting brightness is useful when graphic images are printing too dark or too light.

3 Drag the Contrast slider right or left to increase or decrease the proportion of light to dark in the graphic images of the print job.
A high contrast setting decreases the grayscale spectrum, making light grays lighter and dark grays darker. A low contrast setting increases the grayscale spectrum, making light grays darker and dark grays lighter.
You can also change contrast by entering a numeric value in the text box at the right. The highest contrast setting is +100; the lowest is -100. Zero is the default
imaging

mid-level setting. Adjusting contrast is useful if graphic images are printing too gray, or too black and white.

4 Click OK to save your grayscale adjustment settings.

Text and Graphics Effects

Special settings are available for printing.

Print text as black
This option prints all color text as black. It produces faster printing of color text by reducing the amount of data sent to the printer. In black and white printers, it increases the detail for light-colored text printed. White text and image colors are unaffected.

Print graphics as black
This option prints all color graphics with black, rather than grayscale. This feature is intended for CAD applications.
7 Publishing

In the Publishing tab, you can create covers and inserts for a print job, and add backing sheets between transparencies.

Cover Mode

Cover mode lets you add cover pages for the front and back of your document. You can print on cover pages of a different weight or color than the main document. The source of the cover paper is specified by adjusting the Media for cover settings in the Publishing tab.

Print on both sides must be selected in the Basic tab or Quick Print tab in order to print using the Front inside or Back outside options.

Although Cover mode and Page insert can be used simultaneously, they cannot be used with Transparency interleaving.

Printing Covers

You can choose cover pages for printing.

1. In the Publishing tab, select Cover mode.

2. Select Front or Front and back to specify the type of covers.

3. Select from Print onto options if you want to print on the covers.

4. Click OK to return to the Print dialog box.
5 Click **OK** to start printing.

**Cover Mode Options**

<table>
<thead>
<tr>
<th>Check Box Selection</th>
<th>Cover Insertion Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>Inserts a blank front cover.</td>
</tr>
<tr>
<td>Front</td>
<td>Prints on the outside surface of the front cover.</td>
</tr>
<tr>
<td>Front outside</td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>Prints on the inside surface of the front cover.</td>
</tr>
<tr>
<td>Front inside</td>
<td></td>
</tr>
<tr>
<td>Front outside</td>
<td>Prints on the outside and inside surfaces of the front cover.</td>
</tr>
<tr>
<td>Front inside</td>
<td></td>
</tr>
</tbody>
</table>

[Image of front cover options]

— continued
<table>
<thead>
<tr>
<th>Check Box Selection</th>
<th>Cover Insertion Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front and back</td>
<td>Inserts blank front and back covers.</td>
</tr>
<tr>
<td>Front and back</td>
<td>Prints on the outside surface of the front cover and inserts a blank back cover.</td>
</tr>
<tr>
<td>Front and back</td>
<td>Prints on the inside surface of the front cover and inserts a blank back cover.</td>
</tr>
<tr>
<td>Front and back</td>
<td>Prints on both sides of the front cover and inserts a blank back cover.</td>
</tr>
</tbody>
</table>

— continued
## Choosing Cover Media

You can select media for the cover.

<table>
<thead>
<tr>
<th>Check Box Selection</th>
<th>Cover Insertion Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front and back</td>
<td>Prints on the inside surface of the back cover and inserts a blank front cover.</td>
</tr>
<tr>
<td>Back inside</td>
<td></td>
</tr>
<tr>
<td>Back inside</td>
<td></td>
</tr>
<tr>
<td>Back outside</td>
<td></td>
</tr>
<tr>
<td>Back outside</td>
<td></td>
</tr>
</tbody>
</table>

| Front and back      | Prints on the outside surface of the back cover and inserts a blank front cover. |
| Back inside         |                      |
| Back outside        |                      |
| Back outside        |                      |

| Front and back      | Prints on both sides of the back cover and inserts a blank front cover. |
| Back inside         |                      |
| Back outside        |                      |

| Front and back      | Prints on both sides of the front and back covers. |
| Front outside       |                      |
| Front inside        |                      |
| Back inside         |                      |
| Back outside        |                      |
**Publishing**

1. In the **Publishing** tab, select **Cover mode**.

2. In the **Media for cover** list, select the media type or source cassette for the front and back covers. When you choose the media type, a source cassette matching that media type is automatically selected.

3. Click **OK** to return to the **Print** dialog box.

4. Click **OK** to start printing.

**Page Insert**

A **Page insert** is a preprinted page or a page of a different paper type that is inserted at specified points in a print job. The inserted page can also be printed on during the print job. Both sides of the page insert can be printed on by using the duplex unit.

**Print on both sides** must be selected in the **Basic** tab or **Quick Print** tab in order to print using the **Front inside** or **Back outside** options.

Although **Cover mode** and **Page insert** can be used simultaneously, they cannot be used with **Transparency interleaving**.

**Printing Page Inserts**

Several ways are available to arrange page inserts: you can print on one or both sides or insert a blank sheet.

1. In **Publishing > Page insert**, select the option corresponding to your desired page arrangement.

2. To print on both the front and back of the inserted page, select the **Print onto front** and **Print onto back** check boxes.

3. In **Insert before pages**, type the page number to insert. A page is inserted between the page number you typed and the page before it.

4. From the **Media for page** list, select the media type of the inserted page or the source paper cassette. When you choose the media type, a source cassette matching that media type is automatically selected.

5. Click **OK** to return to the **Print** dialog box.

6. Click **OK** to start printing.
Page Insertion Options

<table>
<thead>
<tr>
<th>Check Box Selection</th>
<th>Page Insertion Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page insert</td>
<td>Inserts a blank page.</td>
</tr>
<tr>
<td>Print onto front</td>
<td>Prints on the front side of the inserted page.</td>
</tr>
<tr>
<td>Print onto back</td>
<td>Prints on the back side of the inserted page.</td>
</tr>
<tr>
<td>Print onto front and back</td>
<td>Prints on both sides of the inserted page.</td>
</tr>
</tbody>
</table>

Transparency Interleaving

Transparency interleaving inserts a backing sheet between printed transparencies. The backing sheet, also known as an interleaf, helps keep transparencies clean and prevents them from clinging together. This feature is
only available when printing on transparencies supplied from the **MP tray**. You can print the same content on the backing pages as on the transparencies. **Transparency interleaving** cannot be used together with **Cover mode** or **Page insert**.

**Inserting Backing Sheets Between Transparencies**

You can insert backing sheets between transparencies.

1. In **Basic > Media type**, select **Transparency**. If the **Source** and **Media type** lists have been combined (by a selection in **Device Settings > Compatibility Settings**), **Media type** does not appear. Instead, in the **Source** list select **Auto (Transparency)**.

2. In **Publishing**, select **Transparency interleaving**.

3. To print the transparency content on the inserted pages also, select the **Print onto backing** check box.

4. In the **Media for backing** list, select the **Media type** of the backing sheet or the **Source** paper cassette. When you choose the media type, a source cassette matching that media type is automatically selected.

5. Click **OK** to return to the **Print** dialog box.

6. Click **OK** to start printing.

   The printing system's operation panel prompts you to load transparencies into the **MP tray**, and if necessary, load backing paper into the selected cassette.
8 Job

In the Job tab, you can store print jobs in the memory installed in the printing system. You can also select a Job name to use with Job storage features. You can use this tab to set or change the default settings that apply when you print a document from a Microsoft Windows application.

Job Storage (e-MPS)

Job storage (e-MPS) offers a set of options for saving print jobs in printing system memory, so that you can print or reprint them later. Print jobs can easily be reprinted later using the printing system’s operation panel, and printing of sensitive documents can be restricted to approved users.

E-MPS is a multitier solution that provides advanced print management, directly from the desktop. By storing a job in the printing system, you can print it from the operation panel without sending it again from the computer.

To use the Job storage (e-MPS) features, you can set a user name in the User Settings dialog box, available in Device Settings. If you do not set a user name, the Windows login user name is the default.

Job Storage (e-MPS) options

<table>
<thead>
<tr>
<th>Storage location</th>
<th>Access code required</th>
<th>When job is printed</th>
<th>When job is deleted from memory</th>
</tr>
</thead>
</table>

— continued
Proof and Hold

**Proof and hold** is a **Job storage (e-MPS)** option that prints one copy of a print job so that you can proof it before printing the remaining copies. This feature is available when a RAM disk is set up in the driver and turned on at the printing system.

After the proof copy is printed and checked, remaining copies can be printed from the printing system's operation panel without sending the job again from the computer. If desired, you can change the number of copies printed.

**Note:** **Proof and hold** is not available for some applications such as Microsoft Excel.

All Proof and hold jobs are stored in RAM disk memory after printing but are deleted when the printing system is turned off. You can manually delete a job at the operation panel.

**Warning:** A print job can replace a job in RAM disk memory having the same **User name** and **Job name**. To prevent this, select **Use job name + date and time** under **Overwrite job name**.

**Printing a Proof and Hold Job**

**Proof and hold** lets you print one copy of a multicopy job to proof before printing the remaining copies. The job is stored in RAM disk memory until the printing system is turned off or the job is manually deleted.

1. In the **Basic** tab, select the number of copies to be printed.

2. In the **Job** tab, select **Job storage (e-MPS)**.

3. Select **Proof and hold**.

4. Click **OK** in all dialog boxes.

Private Print

**Private print** jobs are saved in RAM disk memory for printing until a four-digit **Access code** is entered. When the RAM disk reaches maximum capacity and a new job is sent to be stored, the oldest stored job is replaced by the new job. Private print jobs are deleted when the printing system is reset or turned off.

When sending a sensitive document to the printing system, a user must type a four-digit access code, which is attached to the print job along with the **Job**
name and User name. The job is not printed until a user enters the access code at the printing system’s operation panel. After the job is printed, it is removed from printing system memory.

The number of Private print jobs that can be stored is limited only by the storage capacity of the RAM disk. You can manually delete a job at the operation panel.

**Warning:** A print job can replace a job in RAM disk memory having the same User name and Job name. To prevent this, select Use job name + date and time under Overwrite job name.

### Storing a Private Print Job

Private print lets you store a document temporarily in printing system memory without printing, and protect it with an Access code. The job is stored in RAM disk memory until it is printed, manually deleted, or turned off.

1. In the Job tab, select Job storage (e-MPS).

2. Select Private print.

3. In the Access code box, type four numbers if you want to restrict access to your document.

4. Click OK in all dialog boxes.

### Job Name

A Job name is a unique identifier for each print job. It helps you find and print your job from the printing system’s operation panel. When you send a print job using one of the Job storage (e-MPS) options, you can assign a custom name to the job or use the name of the application file.

For Microsoft Word and PowerPoint, you can choose to include or omit the application name from the application defined Job name. You can also ensure that jobs in printing system memory are not replaced by new jobs having the same Job name.

**Don't Use Application Name**

Don’t use application name is an option to remove the application name from the job name in job storage features. By selecting Don’t use application name, the file name you choose appears clearly in the job list. This feature is applicable only when printing from Microsoft Word or PowerPoint.

**Overwrite Job Name**

Overwrite job name is an option to ensure that a saved print job is not replaced in printing system memory by a new job having the same Job name. If a user sends two print jobs with the same User name and Job name, the second job replaces the first job without any prompt. To prevent this, Overwrite job name can automatically change the Job name by adding the date and time the job is sent. This feature also helps you to track when print jobs were sent from the computer.

The selected option applies to a Job name with either Application defined or Custom selected. Overwrite job name options include:
**Replace existing file**
This option lets the current print job replace an existing job in printing system memory, if a job with the same User name and Job name exists.

**Use job name + date and time**
This option adds the current date and time to the end of the Job name, in the format:
mmddyy hhmmss
The previous print job with the same job name remains in the printing system memory.

**Selecting a Job Name**
You must select a job name to use with Job storage (e-MPS) features, so that you can find your job in job lists on the printing system’s operation panel. The selected job name is saved with the print job when the job is sent to printing system memory.

1. In the **Job** tab, select **Job storage (e-MPS)**.

2. Under **Job name**, select a name:
   
   **Application defined**
   This option uses the name of the application document as the job name. For Microsoft Word or PowerPoint documents, selecting **Don’t use application name** removes the name of the application so that only the document name appears as the job name.
   
   **Custom**
   This option uses a unique name for each job. Type a name in the box, up to 79 characters.

3. Select an **Overwrite job name** option in case a job already exists in printing system memory with the same job name:

   **Replace existing file**
   If a job with the same user name and job name exists, the current print job replaces an existing job in printing system memory.

   **Use job name + date and time**
   This option adds the current date and time to the end of the job name, in the format:
   mmddyy hhmmss
   The previous print job with the same job name remains in the printing system memory.
9 Advanced

In the Advanced tab, you can choose special features that extend the capabilities of the printing system.

![Advanced Tab](image)

Prologue/Epilogue

The Prologue/Epilogue feature lets you insert a command file at the beginning of a print job or at the end. The command file, prepared in a text editor, utilizes programming commands from the printer resident PRESCRIBE language. The Product Library disc includes a PRESCRIBE command language reference guide. A command file is a set of instructions the printing system interprets to produce a given output. For example, a Prologue/Epilogue command file may contain a macro that places a graphic object such as a logo at the top of a letterhead document.

Selecting a Prologue/Epilogue File

A Prologue/Epilogue file must be available on your computer before it can be added to a print job. To create this file, use a text editor like Windows Notepad.

In Advanced > Prologue/Epilogue, select a Prologue/Epilogue file name to insert into the print job. (If no file names are visible in the list, you must click Add to browse for files on your computer or network to add to the list.) After the file is selected, insertion point options become available.

Editing a Prologue/Epilogue File

You can edit a Prologue/Epilogue file on your computer.
1 In Advanced > Prologue/Epilogue, select a Prologue/Epilogue file name from the list, and then click Edit.

2 After your text editor opens, make your changes to the file.

3 Save the file and exit.

**Note:** Editing and saving a command file replaces the contents of the existing local or network file.

### Deleting a Prologue/Epilogue File

You can remove a Prologue/Epilogue file from the list.

1 In Advanced > Prologue/Epilogue, select a Prologue/Epilogue file name from the list, and then click Delete.

2 In the delete confirmation box, click Yes to accept.

**Note:** Only the file name is removed from the command file list. The file itself is not deleted, but remains on the network or local computer.

### Assigning a Prologue/Epilogue File

You can insert a Prologue/Epilogue file into a print job.

1 In Advanced > Prologue/Epilogue, select a Prologue/Epilogue file name from the list.

2 Under Insertion Point, select a place to insert the Prologue/Epilogue file.

### Unassigning a Prologue/Epilogue File

If you designate a Prologue/Epilogue file as unassigned, you are removing it from the print job. It remains in the list. Unassigned selections are useful when the list contains several Prologue/Epilogue files, and you want to use some but not others.

1 In Advanced > Prologue/Epilogue, select a Prologue/Epilogue file name from the list.

2 Under Insertion Point, select Unassigned.

### Specifying the Insertion Point

The insertion point is the location in the print job where the selected Prologue/Epilogue command file is processed by the printing system. Each file in the list can be assigned only one insertion point.

**Note:** The Start of the page and End of the page insertion point options are available only if PCL 5e is selected in the PDL Settings dialog box.

With a command file selected in the list, choose one insertion point option:
Unassigned
The selected command file is not inserted into the print job. This selection can be used when you are working with multiple command files and want to use some but not others. Select Unassigned for the command files you do not want to use in the print job.

Beginning of the print job
The command file is inserted as the first page of the print job. The document starts printing on the second page.

End of the print job
The command file is inserted as the last page of the print job, which prints after the last page of the document.

Start of the page
The command file is inserted at the top of each page of the print job.

End of the page
The command file is inserted at the bottom of each page of the print job.

Only on odd pages
If Start of the page or End of the page is selected, this option can be selected to insert the command file into all odd-numbered pages.

Only on even pages
If Start of the page or End of the page is selected, this option can be selected to insert the command file into all even-numbered pages.

Pages
If Start of the page or End of the page is selected, this option can be selected to insert the command file into specified pages. In the text box, type individual page numbers separated by commas, or a page range separated by a hyphen. For example, if you type 2 in the text box, the command file is inserted only into page 2. If you type 1, 3, 5-12 the command file is inserted into page 1, page 3, and pages 5 through 12. If the Pages option is selected and you click OK without typing any numbers, you will be prompted to specify page numbers.

Watermark
A watermark is a recognizable image or pattern that can be placed on a page or throughout a document. You can choose one of the standard watermarks or create your own text. The preview area at the left of the dialog box shows how the watermark appears on a page. This is useful for making adjustments to the appearance and location of the watermark.

Adding or Editing a Watermark
You can create a new watermark that displays your chosen text. Any watermark can be edited, though a limited number of options can be changed for default watermarks.

1 In Advanced > Watermark, click Add to create a user defined (custom) watermark; or under Select watermark, select a default or custom watermark and click Edit.

2 Under Watermark name, type a name, up to 39 characters. A default watermark cannot be renamed.
3 Under **Watermark text**, type your preferred text. This option is not available when editing a default watermark.

4 Select the font, style, and size of the text.

5 Select the color of the watermark from the list. The options available are black and shades of gray.

6 Select the watermark **Count**, to a maximum of 20. In the **Spacing** spin box, select the distance between two or more watermarks in tenths of an inch or in millimeters.

7 Select the **Position** of the watermark with one of the following options.
   - **Centered (default)**
     This option places the center of the watermark text in the center of the page.
   - **User defined**
     This option lets you manipulate the x and y coordinate boxes to move the text around the page.

   You can also change the position by clicking the position button at the bottom of the preview area and then clicking the watermark image. Drag the pointer to move the watermark image.

8 Select the **Angle** of the watermark with one of the following options.
   - **Diagonal (default)**
     This option places the watermark text at the default angle on the page.
   - **User defined**
     This option lets you type a degree value for the angle. An angle is measured in degrees, from 0 to 360.

   You can also change the angle by clicking the angle button at the bottom of the preview area. Click and hold as you drag the pointer to move the watermark image.

9 The **Rotate around center** check box at the bottom far right of the dialog box determines the method of rotation for the watermark. You must select **User defined** in both **Position** and **Angle** to enable this option. Select **Rotate around center** to position the watermark text with the center of the text as its axis, and clear it to position the watermark text with the left end of the text as its axis.

10 In all dialog boxes, click **OK**.

**Selecting Pages for Watermark**

The **Page selection** option for **Watermark** lets you choose the location for watermarks in your document.

1 In **Advanced > Watermark > Select watermark**, choose a default or custom watermark to print.

2 Under **Page selection**, choose pages for printing the watermark:
All pages
This option prints the watermark on each document page.

First page only
This option prints the watermark on the first document page.

All pages except first page
This option prints the watermark on all pages after the first page.

Only on specified pages
This option prints the watermark on page numbers typed in the box.

Print onto front outside cover
This option prints the watermark on the front cover. It is available when Cover mode is selected in the Publishing tab. If Cover mode and Front outside are both selected in the Publishing tab, Print onto front outside cover is selected automatically.

In all dialog boxes, click OK.

Security Watermark

The Security Watermark is a plug-in feature that prints a nearly invisible image or text against a background pattern. The security watermark appears only when the printed page is photocopied. This helps to identify printed pages that should not be photocopied, or to distinguish between original prints and photocopies. Six standard security watermarks are available as text or image, and you can create custom security watermark text.

A notable feature of Security Watermark is the Document guard pattern, which prevents the document from being photocopied, scanned, faxed, or printed from memory. If a scan, fax, or print from memory is attempted, the process is stopped and an error message appears on the printer’s operation panel.

Following installation of the printer driver, use the Optional Printer Components wizard to install the Security Watermark plug-in.

Security Watermark appears in the Advanced tab when PCL XL is selected in the PDL Settings dialog box.

The administrator can ensure that a security watermark is printed on all jobs by selecting Device Settings > Administrator > Lock Settings > Lock Security Settings.

Selecting Security Watermark sets these driver features to the following values:

Watermark in the Advanced tab is set to None.
Resolution in Imaging > Print Quality > Custom > Custom Quality is set to 600 dpi.
Kyocera Image Refinement in Imaging > Print Quality > Custom > Custom Quality is set to Off.
EcoPrint in Quick Print, Basic > Quality, or Imaging > Quality is set to Off.
Adjustment Settings (Brightness and Contrast) in Imaging > Grayscale > Adjustment > Custom is set to 0.

The reverse is also true. If these features are changed, then the Security Watermark selection is set to None, and cannot be used.
**Adding or Editing a Security Watermark**

You can create a new security watermark that displays text but not an image. Any security watermark can be edited, though a limited number of options can be changed for default security watermarks.

1. In the **Advanced** tab, click **Security Watermark**.

2. In the **Security Watermark** dialog box, click **Add**, to create a new security watermark; or under **Select security watermark**, select a default or custom security watermark and click **Edit**.

3. For **Security watermark name**, type a name up to 39 characters. A default security watermark cannot be renamed.

4. For **Security watermark text**, type text or leave blank. This option is not available when editing a default security watermark. Select from the following options:
   - **None**
     This option leaves the line blank.
   - **User defined**
     This option inserts your text up to 39 characters.
     All other options display date, time, or other job information that is obtained from the computer or printer driver when the job is printed.

5. Select the desired font, size, style, and angle of the text.

6. Select **Print as footer also** if you want the first available line of security watermark text to be printed at the bottom of the page. Select the page position from the list. This option is useful because the security watermark itself is not normally visible on the printed page.

7. Under **Background pattern**, select a design for the security watermark background.
   - **Standard pattern**
     Select a design for the security watermark background. This option prints the selected pattern with the security watermark text or image.
   - **Document guard pattern**
     The document guard design appears as the security watermark background. This option prevents the printed page from being photocopied, scanned, faxed, or printed from memory. If a photocopy is attempted, then gray copy is produced. If a scan, fax or print from memory is attempted, the process is stopped and an error message appears on the printing system’s operation panel.

8. Select **Overprint** for applications such as Microsoft PowerPoint and Internet Explorer where the document content fills the entire page. The security watermark is printed over the document data so that it can appear in a photocopy. When editing an image, or if **Device Settings > PDL Settings > GDI compatible mode** is selected, **Overprint** is selected automatically.
Adjust the calibration. After adjusting calibration, in all dialog boxes click **OK**.

### Adjusting Security Watermark Calibration

For a security watermark to be effective, it must be nearly invisible in a printed page and clearly visible in a photocopied page. Because printing systems and driver settings can vary, you must adjust the calibration before printing a security watermark. Adjusting the calibration is also recommended when changing the background pattern, replacing the toner or printing system, and after heavy printing activity.

1. In **Advanced > Security Watermark**, click **Add** to create a custom security watermark; or under **Select security watermark**, select a default or custom security watermark and click **Edit**.

2. After all security watermark options are selected in the **Add Security Watermark** or **Edit Security Watermark** dialog box, click **Adjust Calibration**.

3. Under **Pattern shading** and **Text contrast**, select initial options:
   - **Light, Normal, Dark**
     Select the shading density of the background pattern.
   - **Contrast 1-9**
     Select the level of contrast against the background pattern, from lightest to darkest.

   These selections may need to be changed after printing a sample in the next step.

4. Click **Print Sample** to print a page displaying all nine contrast options against the selected pattern shading. It is recommended to print a sample page for each pattern shading option.

5. From the **Text Contrast Sheet**, find the sample where the security watermark is most nearly invisible.

6. In the **Adjust Calibration** dialog box, select options to match the sample chosen in step 5.

7. In all dialog boxes, click **OK**.

### Selecting Pages for Security Watermark

The **Page selection** options for security watermark determine where the security watermarks are placed in the print job.

1. In **Advanced > Security Watermark > Select security watermark**, choose a default or custom security watermark to print.

2. Under **Page selection**, choose pages for printing the security watermark:
   - **All pages**
     This option prints the security watermark on each document page.
   - **First page only**
Advanced

This option prints the security watermark on the first document page.

**All pages except first page**
This option prints the security watermark on all pages after the first page.

**Only on specified pages**
This option prints the security watermark on the page numbers typed in the text box.

**Print onto front outside cover**
This option prints the security watermark on the front cover. This option is available when Cover mode is selected in the Publishing tab. If Cover mode and Front outside are both selected in the Publishing tab, Print onto front outside cover is selected automatically.

3. In all dialog boxes, click **OK**.

**Status Monitor**

The **Status Monitor** displays printing system status messages in the lower right corner of the window during printing. You can start a status monitor for each supported printing system. More than one status monitor can be displayed at one time.

**Selecting Status Monitor Options**

You can select how to display the **Status Monitor** image and select from available options.

**Note:** The **Status Monitor** image closes on its own after 5 minutes, if there is no printing activity.

1. In the Advanced tab, click **Status Monitor**.

2. If you want the **Status Monitor** image to appear during a print job, in the **Status Monitor** dialog box, select the **Status Monitor** check box.

3. To view the print job status without changing the **Status Monitor** setting, click **Open Status Monitor**.

   The **Status Monitor** image appears in the lower right corner of your computer screen.

4. Move the pointer over the **Status Monitor** image to display balloon-style status messages containing information about printing system activity and the printer port. You can click the toner icon to display toner levels.

5. To display a list of options, right-click the **Status Monitor** icon in the system tray.

   **Hide the status monitor/Show the status monitor**

   Switches between hiding and showing the **Status Monitor** image.

   **Configure**

   Opens a web browser to display a printer web page.
**Note:** If your printer is connected with a USB cable, this feature cannot be used. Define settings using the operation panel of the printing system.

**Always on top**
Leaves the Status Monitor image on top of other open windows.

**Opacity**
Adjusts the Status Monitor to let a variable amount of background to show through the image. Select a percentage between 20 to 100.

**Enlarge window**
Select to increase the size of the Status Monitor image.

**Sound Notification**
Opens a dialog box with options for Status Monitor sound notification and display choices.

www.kyoceramita.com
Opens a web browser to the KYOCERA MITA home page.

**Exit**
Closes the Status Monitor image.

### Setting Status Monitor Preferences
You can configure printing system alerts with accompanying sound or speech in the Status Monitor **Preference** dialog box.

1. Right-click the **Status Monitor** image in the system tray.

2. Click **Sound Notification**.

3. Select the **Enables Event Notification** check box.

4. Select an event for a **Status Monitor** alert.
   - **Cover open**
   - **Paper jam**
   - **Add paper**
   - **Sleep**
   - **Add toner**
   - **Toner low**
   - **Not connected**
   - **Printing**
   - **Printing completed**

5. You can also add sound or speech to your chosen alert.
   To add a sound file:
   - Clear the **Use Text to speech** check box.
   - The **Sound file** text box becomes available. Type the location of a sound file (.WAV), or **Browse** to find a sound file located on your computer.
To add speech:

Select **Use Text to speech**.

Type your preferred text in the **Text to speech** text box. The Microsoft Text to Speech utility reads your typed text and plays it back in a spoken voice.

After you select a sound file, or type text for Text to speech, you can click the arrow below the text box to play the sound or speech.

Click **Apply** to save your settings, click **OK** to save your settings and close the dialog box, or click **Cancel** to close the dialog box without saving any settings.

**EMF Spooling**

EMF (Enhanced MetaFile) is a spool file format used in printing by the Microsoft Windows operating system. When a print job is sent from an application, it is transferred to the spool file. The application writes to and the printer driver reads from the spool file simultaneously. For multiple or large documents, this quickly returns application control to the user while the printer is still printing the document.

**Note:** **EMF spooling** is unavailable when **Allow data passthrough** is selected in the **KPDL Settings** dialog box.

**Selecting EMF Spooling**

To print with EMF spooling:

1. From the **Advanced** tab, select the **EMF Spooling** check box.

2. Click **OK** and continue the printing process as usual.

**Enable Client Profile**

Client profile refers to profile settings saved on a client computer. You have the choice to use your local profiles or the server profiles. This feature is intended for the client computer in a client-server environment.

In the **Advanced** tab, clear the **Enable client profile** check box to select profiles from the server to apply to print jobs created by the driver. Server profiles are read-only.

Select the **Enable client profile** check box for using custom profiles locally in the driver.
Glossary

A

Access code  A four-digit code that you must enter at the printing system's operation panel to print a Private print job.

Application based printing  An administrator can associate a profile with an application so that all printing from the application uses the same profile settings. This makes profiles easier to use and ensures consistent printing from an application.

Auto configure  Device settings feature that queries a printing system through the network and automatically retrieves settings for optional devices, memory, and RAM disk. Driver settings will be updated with information received from the physical printing system. Installed devices will be displayed in the Preview image.

B

Booklet  Layout feature that prints a multi-page document in a booklet format by using a duplex unit. Two pages are printed on each side of a sheet to create a document that can be read like a book.

C

Cassette  A sliding plastic tray that holds a supply of paper for input to the printer.

Collate  Outputs the complete print job set by set. With Collate cleared, it prints each page by sets. For example, with Collate selected, three copies of a five-page document output as pages one through five in succession, three times.

D

Don’t use application name  Don’t use application name is an option to shorten the application defined job name for jobs created in Microsoft Word or PowerPoint. The file name will appear clearly in the job list.

dpi  Dots per (linear) inch. Measurement that describes the sharpness and clarity of printed text and images. The higher the dpi, the more detail there is in the printed output.

E

EcoPrint  Imaging feature that changes toner saturation, making the entire image, text and graphics, appear lighter in the printed job. The actual amount of toner used depends on the printing system mode and the type of data printed (text, graphics, or both). EcoPrint does not increase print speed. This feature is also available in the Quick Print and Basic tabs.

Edit Quick Print  This feature lets you customize the Quick Print view with your preferred print job options.

Enable client profile  Client profile refers to profile settings saved on a server and accessed by clients in a client/server environment. This feature in the Advanced tab lets an administrator control and distribute profiles.

G

GDI compatible mode  A page description language option that accurately reproduces what is viewed on the screen using the Microsoft Graphical Device Interface (GDI) component to render the document. It generates data in a raster printing format, creating a larger printable file.
**Grayscale**  Range of gray tones varying from black at the darkest to white at the lightest.

**Gutter**  Blank space on the left side or top of a printed page that can be increased by scaling down text and graphics. When used with Duplex printing, the enlarged blank space lines up evenly on both sides of the sheet. The larger blank space is created by shifting the printable area to the right or down as much as one inch (25.4 mm).

**Half speed mode**  This feature lets you reduce print speed to improve printing on small size, thick, or textured paper. Selecting this mode may result in quieter printing.

**Halftone screen**  Imaging process that breaks down an image into dots. An experienced user can adjust Halftone screen settings to create shades of gray in graphic images. Larger dots spaced close together create darker shades, and smaller dots spaced farther apart create lighter shades. Shading can be varied by adjusting the number of rows of dots, the angle at which rows of dots are placed, and the shape of the dots.

**Ignore Application Collation**  Check box in Device Settings > Compatibility that determines the priority of Collate settings. If the check box is selected, the printer driver setting is used. If the check box is cleared, the software application setting is used.

**Job accounting**  An accounting system that records and controls the number of pages printed by each account ID. Account IDs can be assigned at the printing system and stored in the driver. After account IDs are assigned, you can use the Job accounting option to print in the Job accounting mode.

**Job name**  A Job name is a unique identifier for each print job, to help you find and print the job from the printing system’s operation panel. When you send a print job using one of the Job storage (e-MPS) options, you can assign a custom name to the job or use the name of the application file.

**Line Thinning**  This feature reduces the pen width of lines used for barcodes and drawings. Drawing values controlled by an application are not changed. Line thinning is available when PCL XL is selected in the PDL Settings dialog box.

**Lock Settings**  Locking feature for some settings that an administrator can specify at the tab or feature level in the driver. The settings are then applied to print jobs from the driver, and changes are restricted. Locking a setting will also lock that setting where it appears in other tabs. The administrator can also set a password that is required to temporarily unlock a feature.

**Media source enumeration**  A Device Settings option that maintains compatibility for cassettes and feeders between old drivers and new drivers or when moving from one manufacturer to another. Compatibility creates a smooth transition for environments using macros or PRESCRIBE commands to access cassettes and feeders.

**MP tray**  Source tray used for labels, transparencies, envelopes, and custom printing media.
Multiple pages per sheet  This feature lets you print several pages on a single sheet of paper for the purpose of reviewing the document and conserving paper.

Operation panel  The keys and display on the printing system. Use the operation panel to set options such as media type and EcoPrint, and to print jobs stored in RAM disk memory.

Optional Printer Components  Optional Printer Components include Common Profiles and Plug-In Modules, and need to be installed separately from the driver installer. They are located on the Product Library disc in the Advanced Tools menu.

Orientation  The position of the pages in a print job, either short side at top (portrait) or long side at top (landscape). If Rotate is selected, the print job orientation is rotated 180 degrees.

Pattern Scaling  Feature that can help improve visual compatibility between screen and print output. Graphics objects, such as a shape or a path, often include patterns and fills that are composed of collections of printed dots. A pattern is a planned or random repetition of colors, shapes, lines, values and textures to create a visual arrangement. A fill is the application of a color or grayscale to a graphics object. If printed patterns and fills do not match the appearance of that on the screen, use Pattern scaling to select a different density of printed dots.

PDF  The Adobe portable document format (PDF) is independent of the application software, hardware, and operating system used to create documents, and also of the output device on which they are displayed or printed.

PDL  Page Description Language. This is the language used by your computer to tell the printing device how to print a document. Availability of some printing options depends on the selected PDL.

Plug-in  An accessory program that integrates with the printer driver to enhance or extend the driver’s capabilities.

Poster  Layout feature for printing a document in a larger size than the maximum supported by the printer so the cumulative sheets can be assembled as a poster. Use this feature to print a document in a large, eye-catching poster format, up to 25 times larger than the original document size.

PRESCRIBE  An internal printer language that embeds commands into specified locations in a print job.

Print graphics as black  This option prints all color graphics and text with black, rather than grayscale. This feature is intended for CAD applications.

Print preview  This feature lets you view your document before you send it to print.

Print text as black  Prints all color text as black. It produces faster printing of color print jobs by reducing the amount of data sent to the printer. In black and white printing, it increases the detail for light-colored text printed. White text and image colors are unaffected.

Private print  Job option that saves print jobs in RAM disk memory for printing until a four-digit access code is entered. Private print jobs are deleted when the printing system is reset or turned off.
Profile  A set of user defined driver settings that are saved as a group. Once saved, you can select a profile by name and apply its settings to a print job without selecting each feature individually.

Prologue/Epilogue  Advanced feature that allows you to insert a macro into specific locations in the print job. An advanced user may choose to use this feature to embed a PRESCRIBE command that will call a macro to overlay PRESCRIBE form data or a graphic object, such as a logo or a signature, at a specific point in the print job.

Proof and hold  Job option that prints one copy of a print job so that you can proof it before printing the remaining copies. This feature is available when RAM disk memory installed and selected in Device Settings. After the proof copy is printed and checked, remaining copies can be printed from the printing system’s operation panel without sending the job again from the computer.

Quick Print tab  The Quick Print tab improves usability by providing an easier way to set print options. You can choose basic settings or a predefined printer profile, rather than having to go to various tabs. Quick Print settings can be captured in a group called a profile. Profiles support common printing tasks, saving you from having to repeatedly select the same settings. The Administrator can set the view of the Quick Print tab through the Installation process, or Administrator Settings in Properties.

Resolution  The number of dots printed in one inch. Higher resolution improves the quality of detailed printed images.

Scaling  Increases or decreases text and graphics on a page. Scaling is unavailable if other Layout tab options are selected.

Security Watermark  Plug-in feature that adds watermark text and a background pattern to a print job. The text blends into the background pattern making it nearly invisible when printed. The security watermark appears only when the printed page is photocopied. A security watermark can be used to help protect against unauthorized reproduction of documents, or simply to differentiate original documents from photocopies.

SNMP  Simple Network Management Protocol. The standard TCP/IP protocol for managing IP network devices, including printing devices. SNMP settings determine the level of security when using the Auto Configure feature, and prevent unauthorized printing to the SNMPv3 printing device. SNMP settings must be set in the Administrator settings in Device Settings, and in the printing system’s Command Center.

Status monitor  Optional feature that displays printing system status messages in the lower right corner of the window during printing. You can customize the appearance of the status monitor, and determine what messages are displayed and how by selecting preferences and notifications.

Transparency  A clear plastic, page-sized sheet used as a printing medium.

Transparency interleaving  Publishing feature that inserts a backing sheet between printed transparencies. The backing sheet, also known as an interleaf, helps keep transparencies clean and prevents them from clinging together.
**User login**  Registers users with a user name and password. User login provides job restriction by user, in contrast to the Job accounting feature, which assigns privileges by division or department.

**Watermark**  The Watermark feature is available in the Advanced tab. A watermark is a recognizable image or pattern that can be placed on a page or throughout a document. You can choose one of the standard watermarks or create your own text.