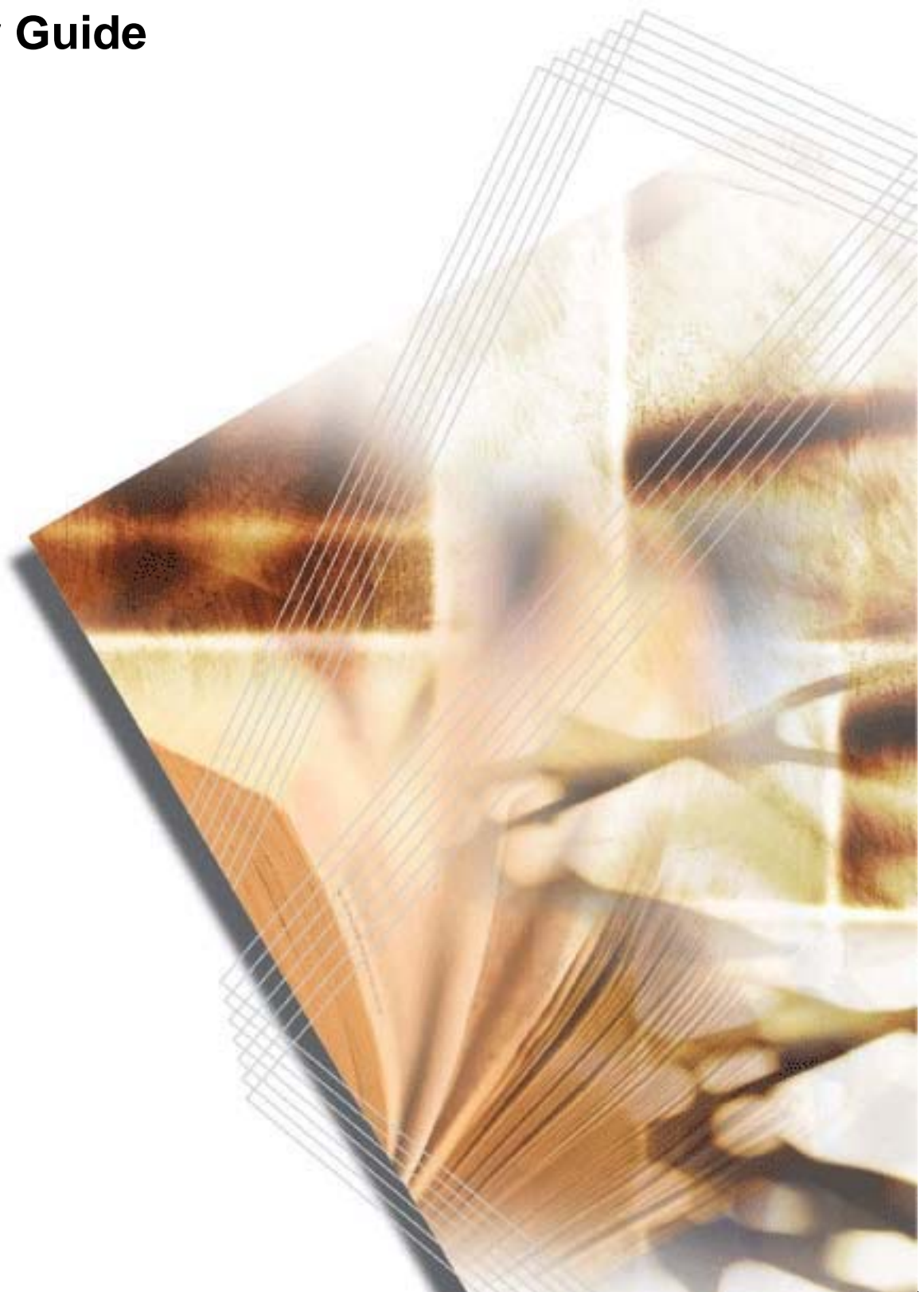


# **KX Driver User Guide**



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Examples of the operations given in this guide support the Microsoft Windows XP printing environment. Essentially the same operations are used for Microsoft Windows Vista, Windows Server 2008, and Windows 2000 environments.

## Models supported by the KX printer driver

FS-C5100DN  
FS-C5200DN  
FS-C5300DN

User Interface screen captures shown in this guide may differ based upon your printing system.

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## Glossary

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# 1 Installation

A printer driver is an application that sends documents to a printer and manages communication between a printer and your computer.

These features are available in the installation process:

- [Preparing to Install the Driver](#)
- [Express Installation](#)
- [Custom Installation](#)
- [Installing Optional Components](#)
- [Add Printer Wizard - Windows XP/2000](#)
- [Add Printer Wizard - Windows Vista](#)

## Preparing to Install the Driver

**1** Power on the computer and the printer. The Windows **Found New Hardware Wizard** appears, click **Cancel**.

**2** Insert the **Product Library CD-ROM** into the CD drive.

After the installation wizard begins, the **Main Menu** appears.

---

**Note:** If the **Product Library Software Installation Wizard** fails to start after inserting the CD-ROM into the CD drive, use Windows Explorer to locate **Setup.exe** on the local driver, and double-click to open.

---

**3** Click **View License Agreement** to read the License Agreement.

**4** Click **Accept** to proceed.

**5** To begin installation, click **Install Software**.

---

**Note:** During any point in the installation process, if the **Windows Security** warning dialog box appears, click **Install this driver software anyway**.

---

**6** The **Software Installation Wizard** appears. Click **Next**.

The installation differs depending on your operating system and connection method. Select your operating system and connection method from the following list and proceed to the referenced page to continue the installation.

### Express Installation

[Windows XP and Vista](#) on page 1-2

### Custom Installation

[Windows XP - USB](#) on page 1-3

[Windows XP - Network Connection](#) on page 1-4

[Windows Vista - USB](#) on page 1-5

[Windows Vista - Network Connection](#) on page 1-6

---

**Note:** KPrint installs a client port monitor that provides Windows TCP/IP printing to any network card connected to Kyocera printing systems. KPrint supports LPR and IPP printing. For the **KPrint Installation** instructions, refer to your CD. KPrint uses a stand-alone installer.

---

---

**Note:** During any point in the installation process, if the **Windows Security** warning dialog box appears, click **Install this driver software anyway**.

---

## Upgrade Driver Components on Windows Vista

If the installation wizard finds an existing driver component that has an earlier version compared to the installation package, it will go from the **Welcome** page to the **Upgrade** page.

- 1 Choose the component to upgrade. Click **Next**.
- 2 Confirm your upgrade settings. To start the upgrade, click **Upgrade**.
- 3 The **Upgrade Completed** page appears. Click **Next** to start a Custom or Express installation.

## Express Installation

Express mode is for a Universal Serial Bus (USB) or network connection only. The installer can find the Kyocera printer if it is turned on and connected by USB or network cable. For the default installation, select **Express Mode**. In the Custom method, you are able to choose which software packages to install and specify the port. To use the Custom method, see [Custom Installation](#) on page 1-3.

## Windows XP and Vista

In **Windows Vista**, the installation dialog boxes have a slightly different appearance, but the steps are the same.

- 1 For the default connection, select **Express Mode**, and then click **Next**.
- 2 The **Discover Printing System** page opens to search for your printer. If Discovery does not find your printing system, a message box appears. Ensure that your printer is properly connected by USB or network cable and that it is turned on, and then close the message box and retry Discovery.
- 3 On the **Discover Printing System** page, select the printing system you would like to install.

---

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

---

- 4 On the **Discover Printing System** page, 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.

- 5 On the **Discover Printing System** page, 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 **Next**.
- 6 In **Printer Settings**, you can assign a name to the printing system. This is the name that appears in Windows **Printers and Faxes** and in the printer list in applications.

---

**Note:** If your printer is connected locally, **Printer Settings** does not appear, skip to [step 7](#).

---

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

- 7 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.
- 8 The **Installation Completed** page appears showing the installation details.
  - Select **Device Settings** to open the **Device Settings** tab where you can choose installed options for your printing system. In **Windows Vista** or a **USB** connection, the **Device Settings** check box is not displayed.
  - Select **Enable Status Monitor** to display system status messages on your computer screen during printing tasks. For more information, see [Status Monitor](#) on page 2-13.
  - Select **Print a test page** to verify a connection with the printer and create a print out of the installed driver components.

When the installation completes successfully, click **Finish** to exit the Printer Installation Wizard and return to the CD-ROM main menu.

For software installation failures, a message box appears, *One or more software installations have failed. See the details below*. 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 system.

## Custom Installation

When using the **Custom mode** you can specify the printer port and choose which software packages to install. For information, see [Windows Vista KX XPS Driver](#) on page 2-11.

### Windows XP - USB

- 1 Ensure that your printer and computer are connected using the USB cable.
- 2 On the **Installation Method** page, select **Custom Mode > Driver**. If you also want to install fonts, select **Utilities**.
- 3 On the **Connection Type** page, select **Universal Serial Bus (USB)**, and then click **Next**.

The **Printing System** page appears in certain conditions, for example, when the installer cannot detect the USB connection. From the list, select the printing system to install. Click **Next**.



- 4 On the **Custom Installation** page, ensure that the KX Driver is selected as the product and then click **Next**.
- 5 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

---

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

---

- 6 The **Installation Completed** page appears showing the installation details.
  - Select **Enable Status Monitor** to display system status messages on your computer screen during printing tasks. For more information, see [Status Monitor](#) on page 2-13.
  - Select **Print a test page** to verify a connection with the printer and create a print out of the installed driver components.

When the installation completes successfully, click **Finish** to exit the Printer Installation Wizard and return to the CD-ROM main menu.

For software installation failures, a message box appears, *One or more software installations have failed. See the details below.* 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 system.

## Windows XP - Network Connection

- 1 On the **Installation Method** page, select **Custom Mode > Driver**. If you also want to install fonts, select **Utilities**.
- 2 On the **Connection Type** page, select **Network connection** and then click **Next**.
- 3 On the **Network Port Type** page, select a port type. Select **Standard TCP/IP Port**. If you select Standard TCP/IP port, the installer automatically creates a new port if needed.
- 4 On the **Printing System** page, select the model and then click **Next**.
- 5 In **Custom Installation**, select the software packages you want to install, and clear those not intended for installation. Click **Next**.
- 6 In **Printer Settings**, you can assign a name for the printing system. This name appears in Windows **Printers and Faxes** and in the printer list in applications. 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**.
- 7 On the **Standard TCP/IP Port** dialog box, you can select **Discover** or **Host name or IP address**.

The **Discover Printing System** page opens to search the network for your printer. If Discovery does not find your printing system, a message appears. Ensure that your printer is properly connected. Contact your system administrator if the system cannot find your printer. If your printer is found, select it, and then click **Next**. To use **Host name or IP address**, type the IP address or host name and then click **Next**.

- 8 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.
- 9 The **Installation Completed** page appears showing the installation details.
  - Select **Device Settings** to open the **Device Settings** tab where you can choose installed options for your printing system.
  - Select **Enable Status Monitor** to display system status messages on your computer screen during printing tasks. For more information, see [Status Monitor](#) on page 2-13.
  - Select **Print a test page** to verify a connection with the printer and create a print out of the installed driver components.

When the installation completes successfully, click **Finish** to exit the Printer Installation Wizard and return to the CD-ROM main menu.

For software installation failures, a message box appears, *One or more software installations have failed. See the details below.* 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 system.

## Windows Vista - USB

- 1 Ensure that your printing system is connected using a Universal Serial Bus (USB) cable.
- 2 On the **Custom Installation** page, ensure that the KX Driver is selected as the product. To install fonts or utilities, click the **Utility** tab, and select from the options there. When you are finished selecting items for installation, click **Next**.
- 3 The **Discover Printing System** page appears.

Select your printing system from the list, which displays a **Type** of *USB* for a USB cable. Click **Next**, then go to [step 6](#).

If Discovery does not find your printing system, a message box appears. Ensure that your printer is properly connected by the correct cable and is powered on, and then close the message box and retry Discovery. You also have the choice to manually select your printing system and port by selecting **Custom select**, and then clicking **Next**.
- 4 On the **Printer Port** page, select the port connected to your printing system. For a USB connection, the **Port Name** should begin with *USB*, and the **Description** should read *Virtual printer port for USB*.

Click **Next**.
- 5 The **Printing System** page appears. From the list, select the printing system to install, and then click **Next**.
- 6 On the **Confirm Settings** page, click **Install** if the settings are correct. Click the back arrow to correct the settings.
- 7 The **Installation Completed** page appears showing the installation details.
  - Select **Enable Status Monitor** to display system status messages on your computer screen during printing tasks. For more information, see [Status Monitor](#) on page 2-13.

- Select **Print a test page** to verify a connection with the printer and create a print out of the installed driver components.

When the installation completes successfully, click **Finish** to exit the Printer Installation Wizard and return to the CD-ROM main menu.

For software installation failures, a message box appears, *One or more software installations have failed. See the details below.* 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 system.

## Windows Vista - Network Connection

- 1** Ensure that the printing system is powered on and connected to the network. On the **Installation Method** page, select **Custom Installation**. Click **Next**.

- 2** On the **Custom Installation** page, ensure that the KX Driver is selected as the product. To install fonts or utilities, click the **Utility** tab, and select from the options there. When you are finished selecting items for installation, click **Next**.

- 3** The **Discover Printing System** page appears.

To find a printing system already turned on and connected to the network, click **Discover**, select the printing system, and go to [step 8](#).

If Discovery does not find your printing system, a message box appears. Ensure that your printer is properly connected by the network cable and that it is powered on, and then close the message box and retry Discovery. You also have the choice to manually select your printing system and port by selecting **Custom select**, and then clicking **Next**.

- 4** The **Printer Port** page appears. If the port you want to use appears in the **Port name** list, select it and click **Next**, then go to [step 7](#).

To create a new port, click **Add Port**, and then click **Next**. The **Add Port Wizard** page appears.

- 5** Type the printer name or IP address, and then click **Next**. The wizard automatically attempts to detect the TCP/IP port. If it cannot detect the port, the **Additional Port Information Required** page appears. Click **Back** to correct the IP address, or, if you are sure the address is correct, select an **Address Type**. Click **Next**.

- 6** After the port has been created, the **Completing the Add Standard TCP/IP Printer Port Wizard** page appears. Click **Finish** to close the **Add Port Wizard** page.

- 7** The installation wizard **Printing System** page appears. From the list, select the **Printing System** to install, and click **Next**.

- 8** In **Printer Settings**, you can assign a name to the printing system. This is the name that appears in Windows **Printers and Faxes** and in the printer list in applications. 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**.

- 9** On the **Confirm Settings** page, click **Install** if the settings are correct. Click the back arrow to correct the settings.

- 10** The **Installation Completed** page appears showing the installation details.

- Select **Enable Status Monitor** to display system status messages on your computer screen during printing tasks. For more information, see [Status Monitor](#) on page 2-13.
- Select **Print a test page** to verify a connection with the printer and create a print out of the installed driver components.

When the installation completes successfully, click **Finish** to exit the Printer Installation Wizard and return to the CD-ROM main menu.

For software installation failures, a message box appears, *One or more software installations have failed. See the details below.* 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 system.

## Installing Optional Components

You can expand the functions of your printer driver by installing optional components that complement the ways in which you use your printer. Available components may include Common Profiles and Plug-ins.

- 1** In the CD-ROM Main Menu, select **Advanced Tools**.
- 2** On the **Advanced Tools** page, select **Optional Printer Components**.
- 3** The **Optional Components Wizard** dialog box appears. Click **Next** to install optional components or **Cancel** to close the wizard.
- 4** The **Select Printer** page appears. From the list, select the printer you want to install, and click **Next**.
- 5** The **Select Components** page appears. Select the components to install, and click **Next**.
- 6** In any **Select** pages that appear make your selections and click **Next**.
- 7** On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.
- 8** The **Printer Components Installation Completed** page appears. Click **Finish**.

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

## Add Printer Wizard - Windows XP/2000

This section describes how to install a printer driver using the **Add Printer Wizard** in Windows XP or Windows 2000.

- 1** Click **Start** in the Windows taskbar, and click **Printers and Faxes** to open the **Printers and Faxes** window.
- 2** Click **Add printer** in the window area on the left.

---

**Note:** The **Add Printer Wizard** can also be started by clicking **Add printer** in the **File** menu of the **Printers and Faxes** window.

---

- 3** The **Add Printer Wizard** appears. The wizard provides you with step-by-step driver installation instructions. 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 system.

## Add Printer Wizard - Windows Vista

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

- 1** Click the **Start** icon in the Windows taskbar at the bottom of the screen. In the **Start** window click **Control Panel**. In the Control Panel window under the **Hardware and Sound** category, click **Printer**.
- 2** In the toolbar at the top of the **Printers** window, click **Add a printer**.
- 3** The **Add Printer Wizard** appears. The wizard provides you with step-by-step driver installation instructions. 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**.

## 2 Printer Properties

The **Device Settings** tab lets you 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, page description language, and compatibility settings can also be selected.

These features are available in the Device Settings tab.

- [Accessing Printer Properties](#)
- [Installing Optional Devices](#)
- [Administrator Settings](#)
- [User Settings](#)
- [Page Description Language \(PDL\)](#)
- [Windows Vista KX XPS Driver](#)
- [Compatibility Settings](#)
- [About](#)

Proceed with the following steps to set your preferred options as the default settings. These default settings can be changed temporarily when printing from Windows-based applications.

### Accessing Printer Properties

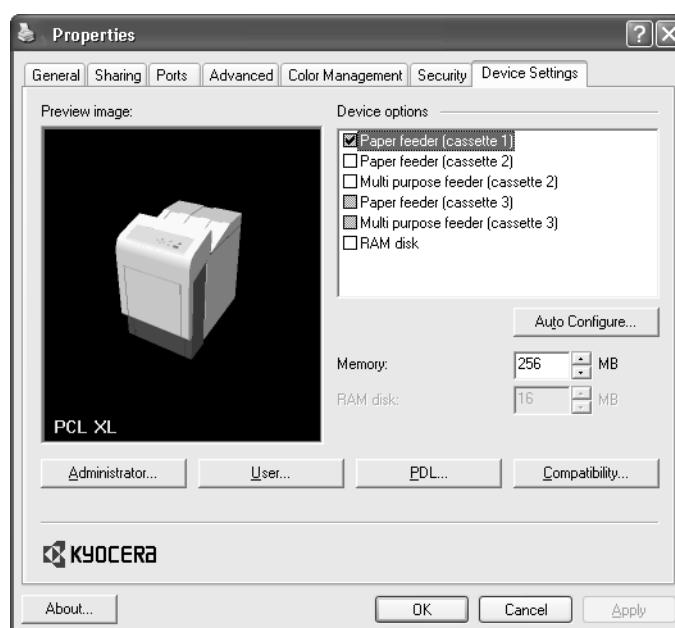
- 1 Click **Start** in the Windows taskbar and click **Printers and Faxes**.
- 2 Right-click the printer icon in the **Printers and Faxes** window.
- 3 Click **Properties** in the list. The **Properties** dialog box appears.

### Installing Optional Devices

In **Printer Properties**, open the **Device Settings** tab. For each optional device installed in your printing system, select the equivalent setting under the **Device options** list.

For models connected to a network, the **Auto Configure** button can be used to detect all available devices. See [Auto Configure](#) for more information. You can also

specify the memory setting, PDL (Page Description Language), settings for the user, administrator settings for passwords and more.



## Auto Configure

Auto Configure detects the installed device options on the printing system if it is connected over a network. It detects printing system devices such as input devices, output devices, and hard disk size. Then it updates the **Device options** list in the **Device Settings** tab. Auto Configure keeps the printer driver's **Device Settings** consistent with the actual printing system devices. This is a manual process and can be run at any time.

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

The Auto Configure feature cannot communicate with a printer if the printer is powered off or in the middle of startup. In these cases, the driver displays the message, *Please verify that the printer is powered on and ready to print.*

If the driver's model is different from the actual printer model at the port, Auto Configure stops the device settings update and displays the message, *The selected TCP/IP port is connected to a network printer that does not match the current printer driver. In order to use the Auto Configure feature, select a TCP/IP port that matches the current printer driver.*

Under the following conditions the Auto Configure tool cannot communicate with the printing system:

- The Windows XP firewall prevents the communication. It opens a Windows Security Alert dialog box with this message: *Do you want to keep blocking this program? (Keep Blocking, Unblock, Ask me Later).*

The Microsoft Windows XP Firewall settings can be changed to allow communication between the printing system and your computer. The default setting for Windows XP Service Pack 2 is for the Windows Firewall to be set to **On**.

When the Windows Security Alert dialog box appears, click **Unblock** to allow communication between the printing system and your computer.

When you click **Unblock**, Auto Configure is added to the **Windows Firewall > Exceptions > Programs and Services** list. The Windows Firewall is accessed through the Control Panel.

Auto Configure currently supports only TCP/IP ports for Microsoft Windows 2000, XP and Vista operating systems.

A TCP/IP port can be either an IP address or the printing system name (Host name).

### Silent Auto Configuration

Silent Auto Configuration is an automatic detection tool that runs in the background, periodically polling the printing system for information. Therefore the user is not required to make a manual request for the configuration. An additional benefit is that the driver is always up-to-date, even if devices are added or removed or the configuration otherwise altered after the printing system and driver installation.

---

**Note:** The Silent Auto Configuration feature is only available on a Vista operating system connected to a network.

---

Silent Auto Configuration is also triggered by certain events:

- When the printing system is in the process of startup or a spooler system is restarted.
- When there is a detected configuration change in the printing system.
- When changing to or using a new TCP/IP port.

### Setting Auto Configuration

Configuring the physical device settings of a printer on the **Device Settings > Properties** page maintains consistency between the printer driver's Device settings and the actual printer devices. To set Auto Configuration:

- 1 In the **Printers** directory, right-click on the printer and select **Properties**.
- 2 Click the **Device Settings** tab.
- 3 Click **Auto Configure**. The following dialog box appears:



- 4 Ensure Silent auto-configuration is selected.

The **Silent auto-configuration** checkbox is the control for auto configuration without manual intervention. When selected, it polls for printer configuration changes after time intervals (default is 10 minutes). When a change is detected in the printing system's configuration, the driver's information is automatically updated so that



whenever you use the driver, it contains the latest configuration detected from the printer.

- 5 To request a configuration of the printing system right away, click **Auto-Configure Now**. This prompts the driver to immediately retrieve printer configurations. Silent auto-configuration only updates when it detects a change in the printer. Therefore, it is advisable, after selecting Silent auto-configuration to also click on **Auto-Configure Now**. This ensures that current settings are up-to-date.

The printer driver updates the Device Options list according to the retrieved device information. It updates the check box settings in the **Device Options** list and the Preview image. It also updates the **Memory** and **RAM Disk** information.

- 6 Click **OK** to exit the Auto-Configure dialog box.

## Device options

- 1 Click the **Device Settings** tab.
- 2 In **Device options**, select the check boxes for devices installed in your printing system.
- 3 In the **Memory** box, select the memory capacity of your printing system. This setting is required to optimize the downloading of printing system fonts.

If you don't know the memory capacity of your printing system, you can use Auto Configure so the information can be automatically selected.

## RAM Disk

The RAM disk functions as a virtual hard disk saving print requests into the printing system's memory if a hard disk for printing is not installed. If you have a hard disk installed, the RAM disk function is inactive.

---

**Note:** Because the RAM disk is volatile memory, all data sent to the printing system is lost when the power is turned off.

---

## RAM Disk Settings

- 1 In the **Device options** list, select the **RAM disk** check box. The memory capacity can be adjusted in the **RAM disk** box.

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**Note:** RAM disk is functional when it is enabled in the printer.

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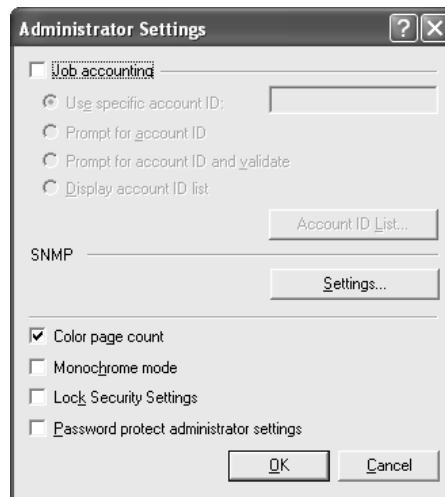
- 2 Specify the **RAM disk** size. The maximum RAM disk capacity may vary depending on the amount of memory installed.

Matching the memory setting in the driver with the memory installed in the printing system allows font downloads to be better managed by the driver. For more information, see the printing system's *Operation Guide*.

## Administrator Settings

The following settings can be specified by selecting **Administrator** in the **Device Settings** tab.

- [Job Accounting](#)
- [SNMP](#)
- [Color Page Count](#)
- [Monochrome Mode](#)
- [Administrator Password](#)



### Job Accounting

With **Job accounting**, you can assign account IDs to print jobs, or work with IDs already created at the printing system. Job accounting features help you manage and control the number of copies in a printing system. Account IDs for newer models must be 8 digits or less.

A maximum of 100 account IDs can be assigned at the printing system and stored in the printer driver. For complete information about the job accounting features of the printing system, please see the *Operation Guide* for your particular model.

Job accounting includes the following options:

**Use specific account ID:** This option can be used to specify a single account ID to manage the print jobs of a specific user. When the user prints, your jobs are sent with the account ID. You can use **Password protect administrator settings** to protect access to the **Administrator Settings** dialog box, so that the user cannot see or change this setting.

**Prompt for account ID:** This option can be used to prompt the user for an account ID when printing. When sending a print job, type an account ID when prompted, then click **OK** to print. The account ID must be one that has been registered at the printing system, or the job does not print.

**Prompt for account ID and validate:** This option can be used to prompt the user to specify an account ID that is saved in the driver. When sending a print job, type an account ID when prompted, then click **OK** to print. The account ID is validated against the account ID list, so you must type an ID from the list, or you cannot print.

**Display account ID list:** This option can be used to display the list of IDs entered in the account ID list of the driver when sending a print job. This gives the user a selection of account IDs to choose from.

**Account ID List:** This option can be used to add, edit, or delete account IDs from the account ID list of the driver. You can also give the IDs text descriptions to help manage and track them. After an account ID list is created, the list can be exported as a group by saving it as a text file (.CSV). To import an account ID list, browse for an existing list and save it in your printer driver.

## SNMP

Simple Network Management Protocol (**SNMP**) is the Internet standard protocol for monitoring and collecting data on network devices, like printers, to ensure they are operating properly.

Select **SNMP**, and then choose a SNMP protocol in **SNMP Settings** to set up communication with the device, (such as a printing system or fax.)

The SNMP protocol selections are:

- **SNMPv1/v2c**

The SNMPv1/v2c protocol communicates with the device.

Enter a **Read community name** and a **Write community name**, up to 32 characters, for the printing system.

- **SNMPv3**

The SNMPv3 protocol communicates securely with the device. This selection provides authentication and privacy options for secure communication. Enter a **User name** up to 32 characters and a **Password** between 8-32 characters.

You can select the **Settings** button for additional **SNMPv3 Settings**.

- **Authentication**

Select from **MD5** (Message Digest 5), or **SHA1** (Secure Hash Algorithm 1) for further security protocol measures.

- **Privacy**

Select from **DES** (Data Encryption Standard), or **AES** (Advanced Encryption Standard) for encryption applied to SNMP communication. *Privacy is available only appears when Authentication is selected.*

- **Apply to other models**

You can apply the selected SNMP option, SNMPv1/v2c or SNMPv3 to other installed printing devices by clicking **Apply to other models**.

Click **Select** and choose from the Installed Printer or Fax **Model List** that appears. Make your selection, and click **OK**.

## Color Page Count

Color page count automatically tallies the number of color and monochrome pages in each print job. This feature is used by billing or accounting applications to track cost differences between pages printed with black toner only, and more expensive color pages. Optional third party accounting software can read and process the print information embedded in each page. Embedded information does not affect the appearance of printed documents. Select **Color page count** to enable this feature.

For accounting purposes:

- A page with any color is counted as a color page.
- A page with black only is counted as a monochrome page.
- A blank page is counted as a monochrome page.

## Monochrome Mode

Monochrome mode disables all color settings in the driver's **Imaging** tab and prints with black toner only.

To use monochrome mode in the **Device Settings** tab, click **Administrator > Monochrome mode**.

## Administrator Password

You can set a password for the **Administrator Settings** dialog box. After a password is typed in, the Administrator settings dialog box cannot be opened until the password is typed in the **Enter Password** dialog box. This prevents unauthorized personnel from changing the administrator settings.

### Set the Password

- 1** In the **Administrator Settings** dialog box, select the **Password protect administrator settings** check box to open the **Password** dialog box.
- 2** In the **Password** dialog box, enter the new password using between 4 and 16 characters in the **Password** text box. Re-enter the password in **Confirm password** and click **OK**.

### Clear the Password

- 1** In the **Device Settings** tab, click **Administrator**.
- 2** The **Enter Password** dialog box appears. Type the password and click **OK**.

- 3 The **Administrator Settings** dialog box appears. Clear the **Password protect administrator settings** check box. A **Password** message appears. Click **OK**.
- 4 Click **OK**.

## User Settings

The following user information can be configured by selecting **User** in the **Device Settings** tab.

- [Identification](#)
- [Units](#)
- [Language Preference](#)

### Identification

In this dialog box, type user name and department information to be used with the Job Storage feature. For more information, see [Job Storage \(e-MPS\)](#) on page 7-1.

- 1 In the **Device Settings** tab, click **User**.
- 2 The **User Settings** dialog box appears. In the **User name** and **Department** text boxes, type up to 31 characters.
  - Type the preferred name in **User name** box.
  - Type the user's department or group name in the **Department** text box.
- 3 Click **OK**.

### Units

The unit of measurement is used for the following settings:

- **Custom Page Sizes** setting in the **Page Sizes** section in the **Basic** tab
- **Spacing** setting in the **Watermark Add** and **Edit** dialog boxes in the **Advanced** tab
- **Poster** settings in the **Layout** tab

In the **User Settings** dialog box, select either inches or millimeters.

### Language Preference

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

Select the preferred language from the **Language preferences** list. To activate the new language, click **OK** in **User Settings** and then in the **Properties** dialog box.

---

**Note:** The installation program uses location information from the **Regional and Language Options** in Microsoft Windows. For example, a user whose language is English but lives in Japan may have a language setting of English on the computer, but the **Location** would be Japan. In this case, the CD Menu and Installer is in English, but the driver will be installed for the Japanese market, according to **Location**.

---

## Page Description Language (PDL)

You have the option to change the Page Description Language (PDL) by selecting **PDL** in the **Device Settings** tab. You can choose from **PCL XL** (Printer Command Language XL), **PCL 5c**, **KPDL** (an emulation of PostScript printing), or **PDF** (Portable Document Format). The default is **PCL XL**. When using the Windows Vista KX XPS driver, **XPS** (XML Paper Specification) is the only PDL selection.

After you select a PDL, the selection appears in the lower corner of the Preview image.

### PDL Settings

- 1 In the **Device Settings** tab, click **PDL**.
- 2 The **PDL Settings** dialog box appears. Select the desired language from the **Select PDL** list. See the following table for options and descriptions.

Option	Description
<b>PCL XL</b>	<p>The most recent version of HP PCL and PCL 6. This PDL includes PCL 5c features.</p> <p>Enhanced over PCL 5c in these areas:</p> <ul style="list-style-type: none"> <li>• Reduced file size</li> <li>• Better print speed</li> <li>• Faster return to application</li> <li>• Lacks backward compatibility with earlier PCL versions</li> </ul>
<b>PCL 5c</b>	<p>Specifies PCL 5c as the PDL.</p> <ul style="list-style-type: none"> <li>• Fully compatible with earlier PCL versions</li> <li>• Bidirectional communication support</li> <li>• Wide selection of fonts for use with Microsoft Windows applications</li> <li>• Allows more options for utilizing PRESCRIBE commands within applications</li> <li>• Complex graphics might not print as well</li> </ul>
<b>KPDL</b>	<p>Specifies KPDL as the PDL. KPDL is used when printing from applications that support PostScript 2 or 3.</p> <ul style="list-style-type: none"> <li>• An emulation of PostScript printing</li> <li>• Strong graphics reproduction</li> <li>• Print speeds may be slower than PCL 5c</li> <li>• Requires more printing system memory than PCL 5c</li> <li>• Enables native TrueType font downloading</li> <li>• Supports most <b>Graphics settings</b> options</li> </ul>

Option	Description
<b>PDF</b>	<p>Lets you print or save documents from multiple sources to Adobe Portable Document Format (PDF). PDF is independent of the operating system and application software used to create documents.</p> <p>Output to PDF is a plug-in that lets you print or save documents from multiple sources to Adobe PDF. For information about installing the Output to PDF plug-in, see <a href="#">Installing Optional Components</a> on page 1-7.</p> <ul style="list-style-type: none"> <li>• Use as an alternative to existing commercial applications for creating PDF documents.</li> <li>• Documents saved as PDF retain their original appearance, and can be viewed and printed with the free Adobe Reader on Windows, Mac OS, and UNIX platforms.</li> </ul> <p><b>Note:</b> With PDF selected as the page description language, only a limited set of driver options are available.</p>
<b>XPS</b>	<p>The XML Paper Specification (XPS), is a specification for a page description language and a fixed-document format. Select <b>XPS</b> to print jobs using the Windows Vista KX XPS driver. See <a href="#">Windows Vista KX XPS Driver</a> for more information.</p>

In **GDI compatible mode**, vector graphics are rasterized for printing as bitmap images. Use the **GDI compatible mode** option to improve the graphic output quality created by the application.

### 3 Settings is available when the PDL is set to KPD, or PDF.

#### KPD

Option	Description
Allow data passthrough	Data passthrough reduces errors when printing complex jobs from applications that use PostScript formatting. (When selected, EMF spooling is not available in the Advanced tab.)

#### PDF

Options	Description
Embed fonts	Select to ensure document fonts appear accurately in the PDF file on screen. This option significantly increases the file size and ensures accurate reproduction.
Compress data	Select to enable Flat compression for the generated PDF document. It significantly reduces the file size. Additional compression options are available within Adobe Acrobat.
Security	Select 40-bit or 128-bit encryption for the print job and set passwords for opening a document and/or access to changing the document restrictions within Adobe Acrobat. Save to file must be checked for security to create secure PDF documents. Click Settings for additional security settings.
Save to file	Select to save the document as a PDF file. Password settings are available in the Security Settings dialog box.

Options	Description
Security Settings	<p data-bbox="469 248 1426 309"><b>Note:</b> If Save to file is selected, the document is not printed when you click <b>OK</b> in the Print dialog box.</p> <p data-bbox="746 331 1426 421">Lets you select an encryption level and create passwords for the generated PDF file. To access the Security Settings dialog, follow these steps:</p> <ol data-bbox="746 432 1426 600" style="list-style-type: none"> <li data-bbox="746 432 1262 461">1. Open Printer Properties/Device Settings.</li> <li data-bbox="746 465 1066 495">2. Click on the PDL button.</li> <li data-bbox="746 499 1426 528">3. For Select PDL, choose PDF then click on the Settings.</li> <li data-bbox="746 533 1358 600">4. Place a checkmark next to Security, then click on Settings.</li> </ol> <p data-bbox="746 611 1267 640">The following security options are available:</p> <ul data-bbox="746 651 1426 808" style="list-style-type: none"> <li data-bbox="746 651 1426 741">• <b>40-bit:</b> Provides low level encryption for a document. Supported for earlier versions of Adobe Acrobat and Adobe Reader 3.0 - 4.x.</li> <li data-bbox="746 745 1426 808">• <b>128-bit:</b> Provides high level encryption for Adobe Acrobat and Adobe Reader 5.0 or later.</li> </ul> <p data-bbox="746 819 1342 880"><b>Note:</b> Adobe Acrobat 3 and 4 cannot open 128 bit encrypted PDF documents.</p> <ul data-bbox="746 891 1426 1238" style="list-style-type: none"> <li data-bbox="746 891 1426 1048">• <b>Require password to change security settings:</b> Type an Owner password, up to 16 characters in length. Within Adobe Acrobat, this password is required to change the document restrictions in the Files/Properties/Security section.</li> <li data-bbox="746 1052 1426 1238">• <b>Require password to open document:</b> Type a User password, up to 16 characters in length. The user password must be entered at the time the PDF document is opened. This password must be different from the owner password used to control document restrictions.</li> </ul>

## Windows Vista KX XPS Driver

XPS Page Description Language provides the most efficient method for displaying and processing documents. As both a PDL and a document format, XPS requires software written for the Windows Presentation Foundation (WPF) architecture and compatible printer hardware. PCL and KPDLL are not compatible with an XPS environment, therefore an Windows Vista KX XPS driver supports one PDL setting - XPS.

You can add the Windows Vista KX XPS driver from the Product Library CD. On the **Installation Method** page, select **Custom Mode > KX XPS DRIVER**.

GDI Compatible Mode, PDF, CIE Optimization, and Fonts are not available in the Windows Vista KX XPS driver.

To view a print to file XPS document, use the Microsoft XPS Viewer.

## Compatibility Settings

This feature supports compatibility for media source values unique to the printer driver, such as those for cassettes or feeders, so your newly installed KX Driver maintains identical media source support with the driver it replaces, whether for this

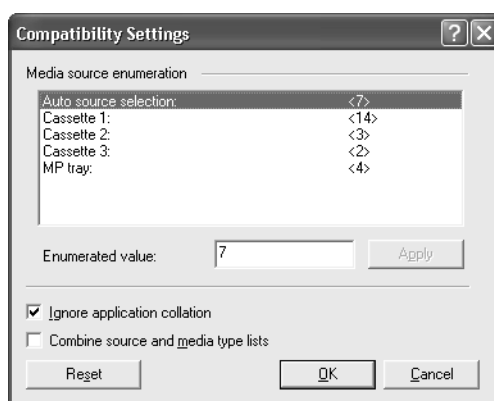


driver or one from another manufacturer. If media source macros exist for the older driver, then the alignment of media source values maintain support without the need to change the macros.

Use the Driver Info utility (\Utility\Driver Info\DrvInfo.exe), available on the Product Library CD, to compare the source values for all installed drivers.

If the values for a given media source differ between the old and new printer drivers, reassign the value in the new driver to match the value in the previous driver. Compatibility settings can be adjusted by selecting **Compatibility** in the **Device Settings** tab.

- 1 In the **Device Settings** tab, click **Compatibility**.
- 2 The **Compatibility Settings** dialog box appears. From the **Media source enumeration** list, select the paper supply method. The current value is listed in the **Enumerated value** box.



- 3 Type a new **Enumerated value** for the media source and click **OK**. You can also restore all the parameters to the default by clicking **Reset**.

The other options in the **Compatibility Settings** dialog box include:

- **Ignore application collation**  
Use this option to bypass the **Collate** setting in the application, and give priority to the printer driver setting.
- **Combine source and media type lists**  
This option changes the **Basic** tab of **Printer Properties** so that **Media type** and **Source** are combined into one box, labeled **Source**.

## About

The **About** dialog box gives you information about the version number of the driver, any plug-ins that are installed, and a status monitor to provide information about the printer condition.

## Version

To view the current driver information, click **Properties > Device Settings > About**, or from any **Printing Preferences** tab, click **About**. Click **Version** to view the following driver information:

- File Name
- Version

- Description
- Date
- Manufacturer
- Comments

## Plug-in

To display installed plug-in modules, click **Properties > Device Settings > About**, or from any **Printing Preferences** tab, click **About**. Click **Plug-in** to view the following driver information:

- Module
- Description
- Version

## Removing a Plug-in feature

You can remove an installed plug-in from the driver. Deleting plug-in modules can only be accessed from **Properties > Device Settings**. When removed, the plug-in features do not appear in the driver interface.

- 1** Open the **Printers** folder.
- 2** Right-click the desired printer icon.
- 3** Select **Properties**.
- 4** Select the **Device Settings** tab.
- 5** Click the **About** button to open the **About** dialog box.
- 6** Click **Plug-in** to open the **Plug-in Information** dialog box.
- 7** Select a plug-in module from the list, and click **Delete**, then **Yes**.
- 8** Click **OK** in all dialog boxes.

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

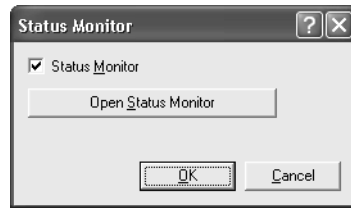
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## Status Monitor

The **Status Monitor** displays printing system status messages in the lower right corner of the window during printing. To access Status Monitor, follow these steps:

- 1** From **Device Settings**, click **About**.
- 2** Click Status Monitor.

The **Status Monitor** dialog box appears.



### 3 You have several choices:

- Check the **Status Monitor** check box if you want the Status Monitor image to appear during a print job. Click **OK**.
- At any time, click **Open Status Monitor** to view the print job status and not change the Status Monitor setting. The Status Monitor image appears in the lower right corner of the window during printing.

You can move the pointer over the Status monitor image to display balloon-style status messages containing information about printing system activity and the printer port. A Status monitor can be started for each supported printing system, so more than one Status monitor can be displayed at a time. The Status monitor can be closed by the user, or closes automatically after 5 minutes if there is no printing system activity.

Right-click the Status Monitor icon in the system tray to display a selection list of the following options.

- **Hide/Show**  
You can switch between hiding and showing the image by clicking **Hide** (or **Show**) the status monitor in the selection list. You can also hide the Status monitor image by right-clicking on the image then clicking **Hide the Status monitor**.
- **Configure**  
Click **Configure** to open a Web browser to display a printer web page. This allows remote configuration of the printing system for features that include print resolution and sleep timer.

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**Note:** If your printer is connected locally, **Configure** is unavailable.

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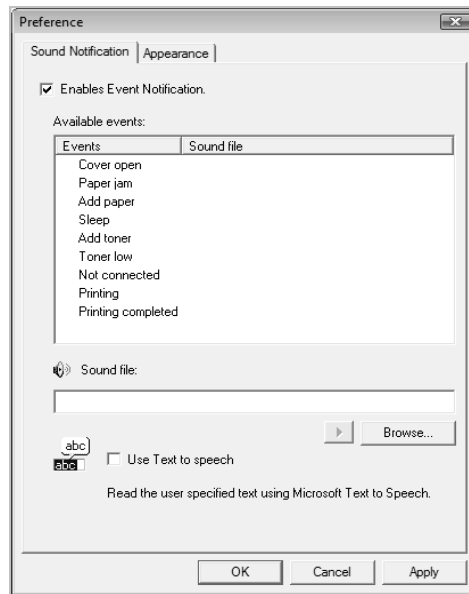
- **Preferences**  
Click **Preferences** to open a dialog box with options for Status monitor Sound Notification and Appearance. For more information, see the [Preferences dialog box](#).
- **Kyocera Online**  
Click **Kyocera Online** to open a Web browser to the Kyocera Mita corporation home page at [www.kyoceramita.com](http://www.kyoceramita.com).
- **Exit**  
Click **Exit** to close the Status monitor.

### Preferences dialog box

The **Preferences** dialog box has options to configure alerts with sound or speech. You can also change the appearance of the Status Monitor image.

- **Sound Notification**

Use the settings in the **Sound Notification** tab to configure alerts with accompanying sound tones or speech.



- 1 Click the **Enables Event Notification** check box to make the **Available events** list available.
- 2 From the following list, select an event for a Status Monitor alert.
  - Cover open
  - Paper jam
  - Add paper
  - Sleep
  - Add toner
  - Toner low
  - Not connected
  - Printing
  - Printing completed

### Sound

You can use a sound file (.wav) of your choice with an alert by typing the file location, or browsing for a file. Sound file and Text to speech cannot be used at the same time.

- 1 To make the sound file text box available, clear **Use Text to speech**.
- 2 Type the location of a sound file, or browse to find a file located on your computer.
- 3 Click **Apply** to save your settings, or click **OK** to save your settings and close the dialog box, or click **Cancel** to close the dialog box without saving any settings.

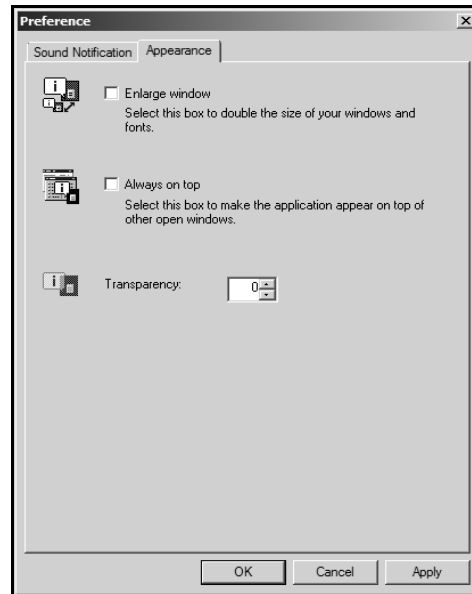
### Text to Speech

You can use Microsoft's **Text to speech** utility to read your typed text and play it back in a spoken voice.

- 1 Select **Use Text to speech**.
- 2 Type your preferred text in the text box.
- 3 Click **Apply** to save your settings, or click **OK** to save your settings and close the dialog box, or click **Cancel** to close the dialog box without saving any settings.

- **Appearance**

Use the settings in the **Appearance** tab to change the size, placement and transparency of the Status monitor image.



- 1 Select **Enlarge window** to double the size of the Status monitor image and text balloons.
- 2 Select **Always on top** to make the Status monitor always appear on top of other open windows.
- 3 **Transparency** adjusts the Status monitor to let a variable amount of background show through the image. Enter a value from zero to fifty in the box. Higher values create greater transparency. A zero value creates a completely opaque image.
- 4 Click **Apply** to save your settings, or click **OK** to save your settings and close the dialog box, or click **Cancel** to close the dialog box without saving any settings.

## 3 Printing Basics

In the **Basic** tab, you can specify the most commonly used printer driver settings. These features are available in the Basic tab:

- [Basic Printing Tasks](#)
- [Printing on Paper of Non-Standard Sizes](#)
- [Duplex Printing](#)
- [Collate](#)

### Basic Printing Tasks

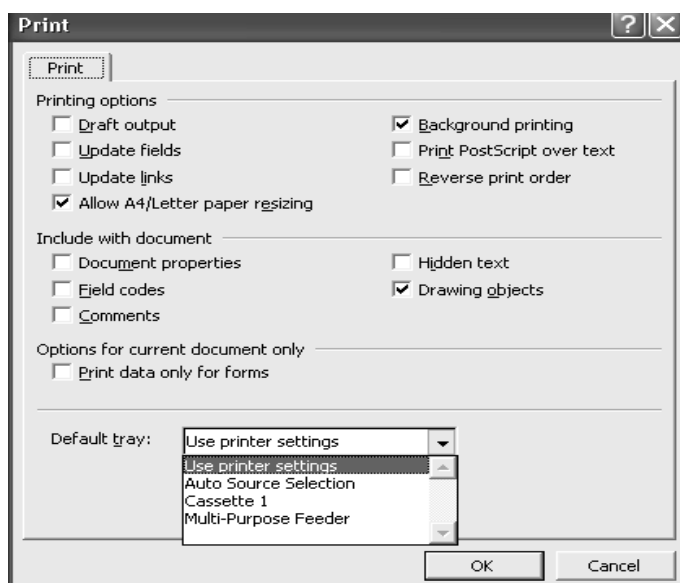
The steps required to print a document created with an application are explained below. You can select the printing paper size and output destination.

#### Basic Printing

- 1 Insert the proper paper size into the printing system's paper cassette or MP tray.
- 2 From the application's **File** menu, select **Print**. The **Print** dialog box appears.  
Select the desired printing system from the list of available printing systems.
- 3 Specify the number of copies to print in the **Number of copies** box. When printing two or more copies, check the **Collate** check box for collation. For more information, see [Collate](#) on page 3-6. **Number of copies** and **Collate** can also be specified in the **Basic** tab.

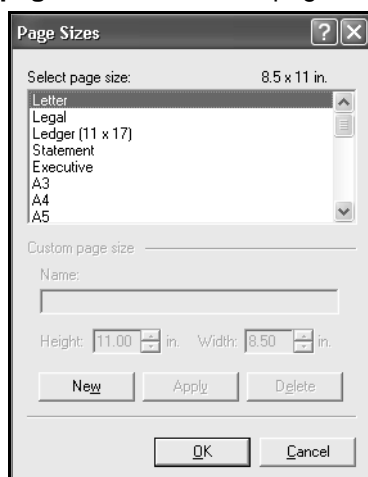
If **Ignore application collation** is selected in the **Compatibility Settings** dialog box, the **Print Collate** setting is not applied.

When using Microsoft Word, we recommend that you click **Options**, and for default tray select **Use printer settings**.



- 4 Click **Properties** to open the **Properties** dialog box.

- 5** In the **Basic** tab, click **Page Sizes** to open the **Page Sizes** dialog box. In the **Select page size** list, select a page size for the print job.



- 6** Click **OK** to return to the **Basic** tab.

For best results when printing on transparencies or recycled paper, from the **Media type** list, select the media type. For more information, see [Media Types](#) on page 3-3.

- 7** Click **Source** to select the paper supply source. If **Auto source selection** (default) is selected, then a supply source that has a size matching the print size is automatically selected. To specify the supply source, select the desired source.

With **Auto source selection**, if a matching size is not available, a message appears on the printer requesting that the paper be loaded in the MP tray. If a supply source has been specified, the message does not appear, and the specified supply source is used even if the size does not match.

- 8** Choose either **Portrait** or **Landscape** to match the document page orientation. You can rotate the document 180 degrees by selecting the **Rotated** check box.

- 9** Click **OK** to return to the **Print** dialog box.

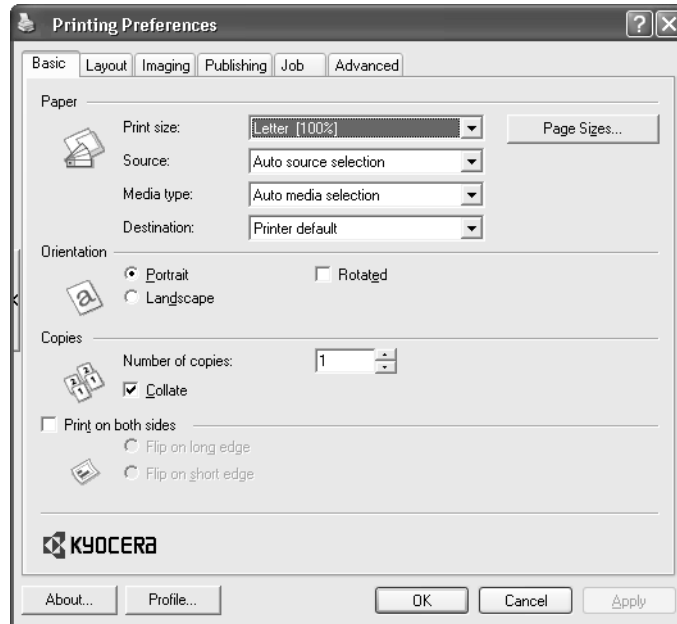
- 10** Click **OK** to start printing.

### Print Sizes

This section describes how to print documents of different sizes than the original document. The document image is adjusted to match the size you select. If you would like to manually input the Scaling percentage, see [Scaling](#) on page 4-4.

- 1** In the **Properties** dialog box, from the **Basic** tab, click **Page Sizes**.
- 2** In the **Page Sizes** list, select the document's paper size and click **OK**.

- 3 In the **Basic** tab, click the **Print Size** list and select the preferred output paper size.



- 4 Confirm the proper paper size is loaded. Click **OK** to return to the **Print** dialog box.
- 5 Click **OK** to start printing.

The source document is automatically scaled to fit the output paper size.

### Media Types

The printing system automatically selects the paper size specified in the **Page Sizes** setting in the **Basic** tab by default when you are printing on regular paper. However, the printing system supports a wide variety of printing media.

You can specify the media type in the **Media type** setting for auto media selection when using non-standard types of printing media, such as recycled paper, labels, or transparencies. You can also specify the finishing settings for best results.

Transparencies must be printed using the MP tray, and labels and envelopes require the MP tray or an optional Multipurpose feeder. 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.

---

When paper is properly loaded in the paper cassette, the printing system can automatically detect the paper size. The following steps specify the media settings.



- 1 Load the paper in a paper cassette or the MP tray.
- 2 Specify the media type at the operation panel on the printing system.
- 3 Open the **Properties** dialog box.
- 4 Select the document paper size from the **Print Size** list.
- 5 From the **Media type** list, select the type of media for printing, then click **OK**.

After printing begins, the printing system automatically selects the paper to match the paper size and specified media type.

If the paper loaded does not match the size, type, or both, a message appears asking you to load paper in the MP tray.

---

**Note:** To print on envelopes, select **Envelope** from the Media type list. When the job is sent to print, a message appears on the screen. Follow the instructions for printing envelopes. After your job is finished, return the switch in the printing system to the original position.

---

## Printing on Paper of Non-Standard Sizes

To use custom sizes of paper in your printing system, you must first define the custom paper sizes in the **Properties** dialog box.

### Custom Paper Sizes

- 1 Load the custom paper into the printing system. For more information, see the printing system's *Operation Guide*.
- 2 Click **Start** in the Windows taskbar and then select **Printers and Faxes**. The **Printers and Faxes** window appears.
- 3 Right-click the printer icon and select **Properties** to open the **Properties** dialog box.
- 4 Click **Printing Preferences** to open the **Printing Preferences** dialog box.
- 5 Click **Page Sizes**. The **Page Sizes** dialog box appears.
- 6 Click **New** to display **Custom\_01** in the **Name** box. You can replace **Custom\_01** with the name for your new custom paper size. The name can be up to 31 characters.
- 7 Type the measurements in the **Height** and **Width** boxes in millimeters or inches. The unit (inches or millimeters) is selected in the **User Settings** dialog box, accessed from the **Device Settings** tab. For more information about changing the unit, see [User Settings](#) on page 2-8. For information about custom paper size dimensions, see the printing system's *Operation Guide*.
- 8 Click **OK**.

To add more custom paper sizes, repeat the steps above (Maximum 20 custom paper sizes).

### Printing with Custom Paper Sizes

- 1 Select **Print** from the **File** menu. From the application's **Print** dialog box, open **Print Properties**.
- 2 In the **Basic** tab, select the name of your saved paper size in the **Print Size** list.
- 3 From the **Source** list, select the source cassette for the custom page size.
- 4 Click **OK** to return to the **Print** dialog box.
- 5 Click **OK** to start printing.

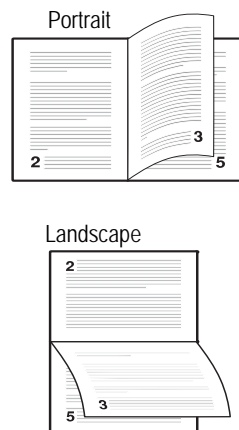
## Duplex Printing

This section describes how to enable the duplex printing option. For more information, see the printing system's *Operation Guide*. For information about Booklet printing, see *Booklet Printing* on page 4-2.

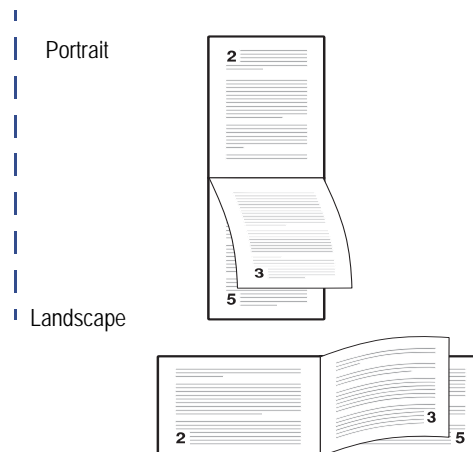
### Print on Both Sides

- 1 Within your application, select **Print** from the **File** menu. Then, from the **Print** dialog box, open **Properties**.
- 2 From the **Basic** tab, select **Print on Both Sides**. Select **Flip on Long Edge** or **Flip on Short Edge**.

#### Flip on Long Edge



#### Flip on Short Edge



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

## Collate

**Collate** enables the driver to internally assemble print job pages in numerical sequence. It increases print speed (and works in the background with a RAM disk) to specify the printed page order of a multi-copy job.

- With **Collate** selected, the driver prints the job, set by set. All the pages of the first set are printed, followed by all pages of the next set. For example: For printing two sets of a three page document, the default page ordering would be 1, 2, 3, 1, 2, 3. When the **Collate** mode is on, enabling the RAM disk increases the print speed.
- With **Collate** cleared, the first page is printed for all sets, followed by the next page for all sets. For example: For printing two sets of a three page document, the default page ordering would be 1, 1, 2, 2, 3, 3.

The driver graphics image displays the grouping of collating and non-collating.

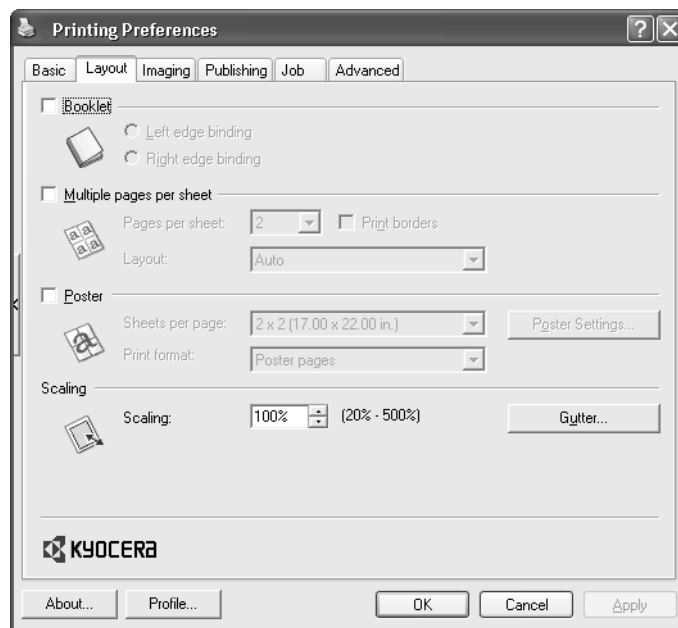
The printer driver automatically overrides the application's collate setting and uses the printer driver setting. To use the **Basic > Collate** option, clear the **Device Settings > Compatibility > Ignore application collation** check box.

# 4 Layout

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

These features are available in the Layout tab:

- [Booklet](#)
- [Multiple Pages Per Sheet](#)
- [Poster](#)
- [Scaling](#)



## Booklet

Use the **Booklet** option to print a two-page layout on both sides of each sheet of paper. You can then fold and bind the booklet in the center.

Booklet printing can be used with Cover mode to add a cover to the booklet. For more information, see [Printing with Covers](#) on page 6-1.

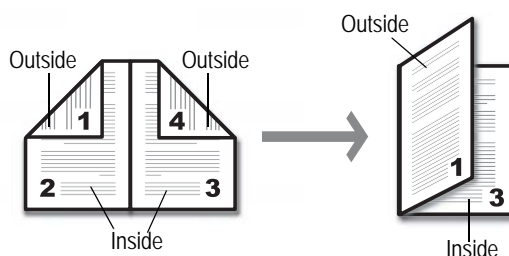
## Left Edge and Right Edge Binding

Select left edge or right edge binding of the booklet to match the direction of your written language:

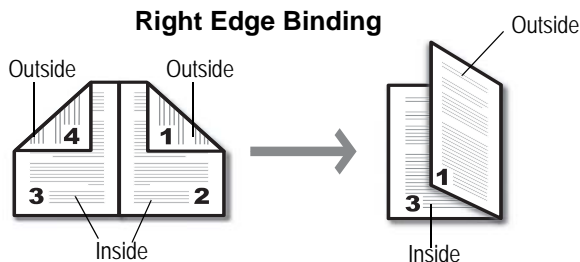
- Select **Left edge binding** for languages that read left to right.

- Select **Right edge binding** for languages that read right to left.

### Left Edge Binding



### Right Edge Binding



## Booklet Printing

- 1 In your application, select **Print** from the **File** menu and open **Print Properties**.
- 2 Click the **Layout** tab.
- 3 Select **Booklet**.
- 4 Choose either **Left edge binding** or **Right edge binding**.
- 5 Click **OK** to return to the **Print** dialog box.
- 6 Click **OK** to start printing.

## Multiple Pages Per Sheet

You can print multiple pages of a document on a single sheet of paper. Pages can be arranged in a variety of ways, and a border can be printed around each document page.

- 1 In your application, select **Print** from the **File** menu and open **Print Properties**.
- 2 Click the **Layout** tab.
- 3 Select **Multiple pages per sheet**.
- 4 In the **Pages per sheet** list, select the number of source pages.

- 5 From the **Layout** list, select the horizontal and vertical direction for the page layout.

**Examples:**

- If you select six pages per sheet and select **Top to bottom and left**, the pages are arranged from the top right corner to the bottom left corner.
- If **Auto** is selected, the pages are arranged from the top left corner to the bottom right corner.

- 6 Select the **Print borders** check box to print a border around each document page.

## Poster

You can print a document in a larger size than the paper supported for the printing system. The **Poster** feature allows you to increase the print size, print portions of the document on several sheets of paper, then assemble the sheets into a large banner, up to 25 times larger than the original document.

### Sheets Per Page

In the **Sheets per page** list, select the size of the desired poster, in relation to the original document size. The list shows the number of sheets to be printed and the maximum poster size. The final size may be reduced slightly depending on selections made in the **Poster Settings** dialog box. For more information, see [Poster Settings](#) on page 4-4.

### Available Poster Sizes

- Select 2 x 2 to print a poster 4 times larger than the original.
- Select 3 x 3 to print a poster 9 times larger than the original.
- Select 4 x 4 to print a poster 16 times larger than the original.
- Select 5 x 5 to print a poster 25 times larger than the original.

The dimensions shown after each option are based on the selected **Page size** in the **Basic** tab. For more information about selecting a page size, see [Basic Printing Tasks](#) on page 3-1.

The unit (inches or millimeters) is selected in the **User Settings** dialog box, accessed from the **Device Settings** tab. For more information, about changing the unit, see to [User Settings](#) on page 2-8.

### Print Format

If you are new to poster printing, you may want to print a proof sheet, in addition to the poster, to guide you in assembling the printed poster sheets. The proof sheet shows all poster pages on one sheet with markings that show how to assemble the sheets. Under **Print format**:

- Select **Poster pages** to print only the sheets of the poster.
- Select **Proof sheet** to print only a one-page proof sheet.
- Select **Poster pages and proof sheet** to print all poster sheets and a one-page proof sheet.

## Poster Settings

To make it easier to create a poster, you can print visual cues on the poster sheets that provide help in cropping and assembling the pages. In the **Layout** tab, click the **Poster Settings** button to open the **Poster Settings** dialog box.

You can use any combination of the following options in the **Poster Settings** dialog box.

- **Overlap edges**  
Select this option to duplicate 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**  
Select this option to print 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**  
Select this option to print numbers at the edges of each sheet, matching numbers on adjoining sheets. Assemble each sheet edge to the same numbered edge on another sheet. For a large poster with many sheets, this option ensures that the poster is assembled correctly.

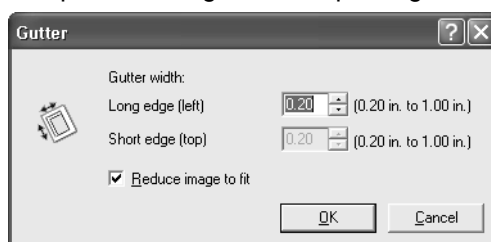
## Scaling

Based on the page size and print size specified in the **Basic** tab, you can increase the top or left margin, before printing.

Click the **Layout** tab in the **Properties** dialog box, and type the scale percentage in the **Scaling (20-500%)** box, or click the up or down arrow buttons to adjust the value.

## Gutter

Based on the page size and print size specified in the **Basic** tab, you can increase the top or left margin, before printing.



Click **Gutter** to increase the outside margins in a range from 0.20 to 1.00 inch (5.0 to 25.4 mm). The left and/or top margins can be adjusted. This is useful when you want to add extra margin space to the page for staples. When used with duplex printing, the enlarged gutter lines up evenly on both sides of the sheet. For more information about duplex printing, see [Duplex Printing](#) on page 3-5.

- To increase outside margins on the left side of the page, enter a number into the **Long edge (left)** box. This option may not be available, depending on your **Orientation** and **Print on both sides** settings in the **Basic** tab.

- To increase outside margins at the top of the page, enter a number into the **Short edge (Top)** box. This option may not be available, depending on your **Orientation** and **Print on both sides settings** in the **Basic** tab.
- Since the **Gutter** feature shifts document data to the right or down, select the **Reduce image to fit** check box if the printed data extends beyond the edge of the paper when changing the gutter setting. The size of the printed data is decreased slightly to fit in the printable margins of the page.
- If the document data is small enough that it does not extend beyond the edge of the paper when the gutter is increased, clear the **Reduce image to fit** check box.

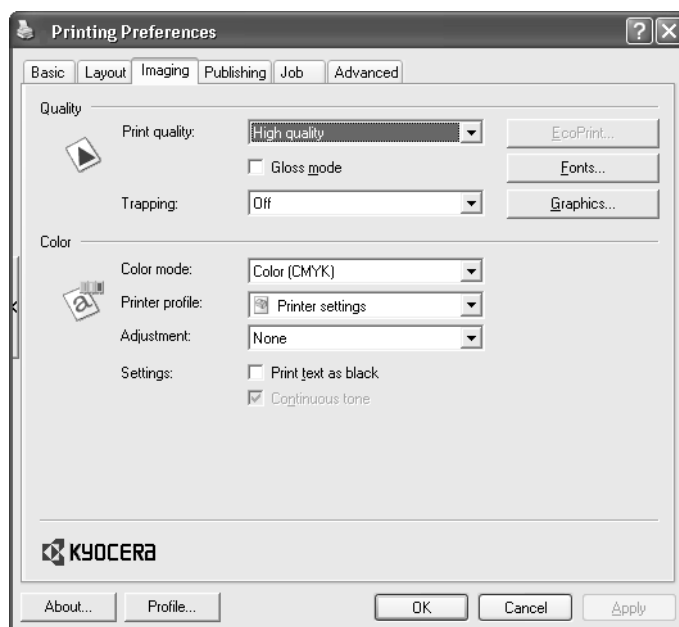
If you want to change the page size, see [Print Sizes](#) on page 3-2.



# 5 Imaging

The **Imaging** tab contains options for print job **Quality** and **Color** adjustments. These features are included in the Imaging tab:

- [Print Quality](#)
- [EcoPrint](#)
- [Gloss Mode](#)
- [Trapping](#)
- [Fonts](#)
- [Graphics](#)
- [Color Mode](#)
- [Printer Profile](#)
- [Color Adjustment](#)
- [Grayscale Adjustment](#)
- [Grayscale Settings](#)



## Print Quality

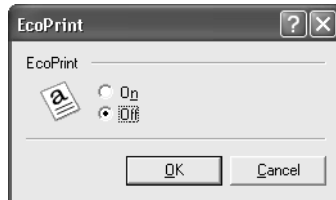
- 1 From the **Print** dialog box, click **Properties > Imaging**.
- 2 Select a **Print quality** from the list.

Print Quality Option	Description
<b>High quality</b>	Fixed at a 600 dpi printing resolution.
<b>Custom</b>	Lets you choose a setting for <b>EcoPrint</b> .

## EcoPrint

EcoPrint 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 model, the type of data printed (text, graphics, or both), and whether it is monochrome or color. EcoPrint does not increase print speed.

- 1 From the **Print Quality** list, select **Custom** and the **EcoPrint** dialog box becomes available.
- 2 Select **EcoPrint**.




---

**Note:** EcoPrint is unavailable if Gloss Mode is selected.

---

## Gloss Mode

Selecting **Gloss mode** simulates high-gloss copies by adding a glossy appearance to printed text and images.

---

**Note:** Gloss mode is unavailable if EcoPrint is selected.

---

## Trapping

In color printing, color toners are applied separately to a page. An image must be broken down into its component colors by creating color separations of cyan, magenta, yellow and black. These color separations must be aligned (registered) precisely to produce a quality full-color image. If the colors are not correctly aligned on a page, the paper may show through in gaps between adjoining colors. Color trapping alleviates this problem by intentionally overlapping colors slightly so that minor problems with alignment are not noticeable.

To print a document with Trapping, select one of following options:

Trapping Option	Pixel Width of Printing Overlap
Off	0
Light	0.5
Medium	1
Heavy	1.5
Very Heavy	2

---

**Note:** Trapping is not available when PDL Settings is set to PCL 5c or PDF.

---

## Fonts

The **Fonts** feature lets you specify how TrueType fonts are sent to the printing system. The chosen method affects the speed and quality of the print job.

---

**Note:** The **Font Settings** feature for managing font handling is not available for the Windows Vista KX XPS driver.

---

- 1 Click **Fonts** to open the **Font Settings** dialog box.
- 2 Select one of the methods for sending TrueType fonts, and then click **OK** to save your selection:

Fonts Option	Description
<b>Download as outlines</b>	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. This value is the default when PDL is any value other than KPD.
<b>Allow native download</b>	Improves text quality and increases print speed by converting TrueType fonts to Adobe Type 42 font format. This feature is available when <b>KPDL</b> is selected in the <b>PDL Settings</b> dialog box. For more information about changing the page description language, see <a href="#">PDL Settings</a> on page 2-9.
<b>Download as bitmaps</b>	Bitmap downloading provides more detail, however it creates large file sizes. For print jobs with very small fonts (point size 1-4), user-defined fonts, or Asian fonts.
<b>Substitute with device fonts</b>	System fonts and device fonts are automatically matched based on typeface name. To match a specific device font with a system font, select <b>Substitute with device fonts</b> , then click <b>Fonts</b> to open the <b>Font Substitution</b> dialog box. Select under these circumstances: <ul style="list-style-type: none"> <li>• To increase print speed and efficiency.</li> <li>• To change a font found throughout a large document. This selection replaces the old font with the desired font.</li> </ul> <p>This value becomes the default when PDL is KPDL.</p>

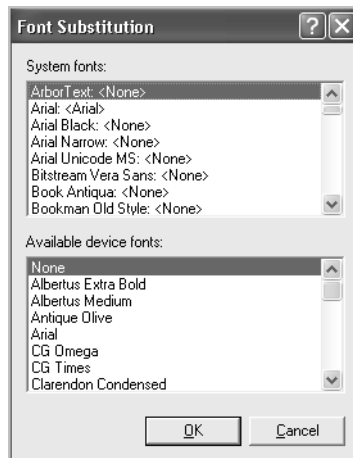
---

**Note:** GDI compatible mode does not support Substitute with Device Fonts. For more information, see [GDI compatible mode on page 2-10](#).

---

## Font Substitution

With **Substitute with device fonts** selected as the font setting, click **Fonts** to open the **Font Substitution** dialog box.



The **System fonts** list shows the fonts installed on your computer. The printing system fonts are listed in the **Available device fonts** list. Select the system font, and then the available device font to be substituted. 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.

When printing with Autodesk or Adobe applications, select **Disable device fonts** to overcome device font limitations with these applications. Device fonts are normally visible in 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.

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

The **Substitute with device fonts** option is disabled if **Disable device fonts** is selected.

## Graphics

From the **Imaging** tab, click **Graphics** to open the **Graphics settings** dialog box. Choose your graphics settings, and then click **OK** to save your selections. See below for descriptions of graphics settings options.

---

**Note:** Some options are available only when a specific PDL is selected. For more information about changing the page description language, see *PDL Settings on page 2-9*.

---

## Pattern Scaling

Adjust the pattern scaling to improve visual compatibility between screen and print output.

If printed patterns and fills do not match the appearance of that on the screen, use this feature to select a different print density.

Pattern Scaling Option	Description
<b>Auto</b> (default setting)	In most cases, this option prints patterns and fills to match the on-screen appearance.
<b>Coarse</b>	Prints patterns and fills with the fewest number of lines, patterns, or dots. Coarse is the same as Auto when <b>PCL XL</b> or <b>PCL 5c</b> is selected in the <b>PDL Settings</b> dialog box.
<b>Medium</b>	Prints patterns and fills with a greater number of lines, patterns or dots than the Coarse setting. Medium is the same as Auto when <b>KPDL</b> is selected in the <b>PDL Settings</b> dialog box.
<b>Fine</b>	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.

## Inversion Options

Inversion options are available when **KPDL** or **XPS** are selected in the **PDL Settings** dialog box.

Inversion Option	Description
<b>Reverse image</b>	Prints images like a photo negative, reversing black and white areas of the image.
<b>Mirror print</b>	Prints the page content backwards, as it would appear in a mirror image.

## Optimization

Optimization selections are available when **KPDL** or **XPS** is selected in the **PDL Settings** dialog box.

Optimization Option	Description
<b>Fast printing</b>	Delivers images in binary format. Fast printing decreases spool size and increases print speed. Use it for most everyday printing needs.
<b>Document portability</b>	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 optimization

CIE optimization is available when **KPDL** is selected in **Device Settings > PDL > Select PDL**.

CIE refers to the Commission Internationale d'Eclairage, or in English the International Commission on Illumination. The CIE standards organization has developed device-independent color spaces that are supposed to be a true representation of color as seen by the human eye. CIE color spaces are useful for color space conversions. Abode's Lab Color space is based on CIE L\*a\*b\*.

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 will increase 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.

## Color Mode

The options in Color mode let you choose full-color printing or printing with black toner only.

Color Mode Option	Description
<b>Color (CMYK)</b>	Prints full four-color text and graphics.
<b>Monochrome</b>	Prints as black only, constraining all color settings. Click <b>Adjustment</b> to change the <b>Adjustment settings</b> . (For more information, see <a href="#">Grayscale Adjustment</a> on page 5-9.)

## Printer Profile

The options in Printer Profile let you optimize the color rendering of photos and graphics. Printer Profile is available when **Color (CMYK)** is selected as the color mode.

- 1 Select a profile from the **Printer Profile list**.

Printer Profile Option	Description
<b>Printer settings</b>	This mode uses the printer settings only.
<b>Text and Graphics</b>	Mode suited for graphics, such as graphs. Select this mode for printing documents that contain many graphics.
<b>Text and Photos</b>	Mode suited for printing photographs. Select this mode for printing documents with many photographic images.
<b>Vivid colors</b>	Mode to make graphics, pictures, etc. more vivid. Select this mode to increase the color saturation of graphics and photos.
<b>Publications</b>	Mode suited for a mix of graphics and/or photos. Select this mode to print close to the color shade of the screen.
<b>Line art</b>	Mode suited for printing figures or graphics drawn with lines. Select this mode to print colored lines with pure simple color.

Printer Profile Option	Description
<b>Advanced</b>	Select this mode to achieve greater consistency in color reproduction among various devices. It compensates for the different color spaces of color printing systems. Selecting and applying a set of profiles is called a color profile.

## Printer profile - Advanced

**1** From Printer profile, select **Advanced**. A **Color Correction** dialog box appears with the following options:

- **None (application corrected)**  
Processes the color data without applying the adjustments contained in the printing system's internal color look-up tables. Ink simulation will not be executed. This is useful if the application provides its own color correction.
- **ICM (system corrected)**  
Specifies color rendering in the print job to make it as close to the original as possible. ICM technology relies upon associating an output device like a printing system with a Color Profile. An ICM Profile for a printing system contains information about rendering accurate color information for that device. The settings for ICM must be set in the Color Management tab in the printing system Properties.

**Note:** In Windows 2000, XP, and Vista, additional ICM rendering intent options are available under ICM Settings.

If you select the **None (application corrected)** option, click **OK** to close the **Color Correction** dialog box.

If you select the **ICM (system corrected)** option, click **ICM Settings**, and proceed to step 2.

**2** In the **ICM Settings** dialog box, select a **Rendering intent** option, then click **OK** to save the selection.

ICM Settings Option	Description
<b>Optimize for exact color (Colormetric)</b>	Select when colors must match precisely in all print jobs, such as colors in a corporate logo.
<b>Optimize for color contrast (best for images)</b>	Select for images or scanned photographs containing many colors or shades of color. Optimizes for color contrast by adjusting contrast to preserve detail throughout the tonal range.
<b>Optimize for color saturation (best for graphs)</b>	Select for graphs or charts containing solid colors. Optimizes for color saturation by adjusting hue to preserve the vividness of pure colors.

**3** Click **OK** again to close the **Color Correction** dialog box.

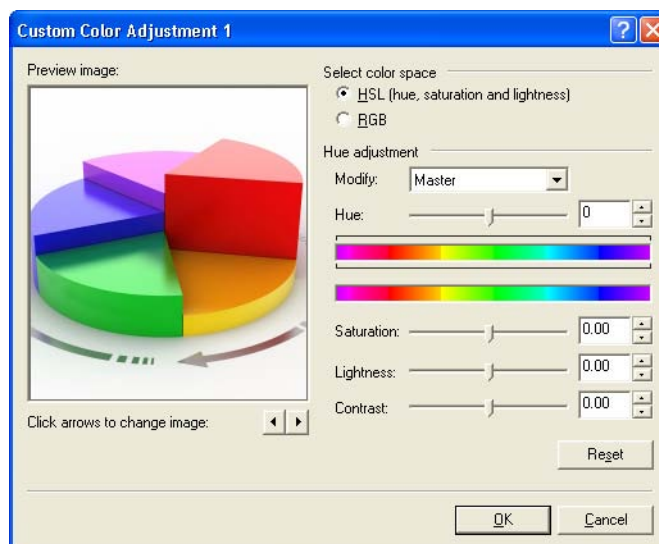
## Color Adjustment

To specify custom color settings:

- 1 Ensure **Color (CMYK)** is selected in **Color mode**.
- 2 In the **Adjustment** list, select **Custom 1**, **Custom 2**, or **Custom 3**, if you have already defined color settings. If you have not defined color settings, select **Edit** to open the **Adjustment Settings** dialog box.
- 3 From the **Custom Color Adjustment** list, select **Custom 1**, **Custom 2**, or **Custom 3**.
- 4 Open the **Custom Color Adjustment** dialog box, click **Settings**.
- 5 Select **HSL (hue, saturation, lightness)** or **RGB** (red, green, blue) to work with as the color space.
- 6 Click the arrow buttons beneath the photograph to select one of three different images. Different colors are emphasized in each of the photographs to aid in the color adjustment process.

### HSL (Hue, Saturation, Lightness)

- 1 Under **Select color space**, select **HSL (hue, saturation, lightness)**. HSL lets you adjust the full spectrum, brightness, contrast, and vividness of the color.



- 2 Adjust the distribution and balance of hues.

For coordinated hue adjustment, select **Master** from the **Modify** list. Drag the **Hue** slider to the right or left to increase or decrease the value between -180 and +180.

For specific hue adjustment, select **Red**, **Yellow**, **Green**, **Cyan**, **Blue**, or **Magenta** from the **Modify** list. Drag the **Hue** slider to the right or left to increase or decrease the value between -10 and +10.

The upper color bar indicates the adjustment made when the slider is dragged, or a value is typed in the box. The horizontal bracket above the upper color bar shows the part of the color bar affected by the adjustment.

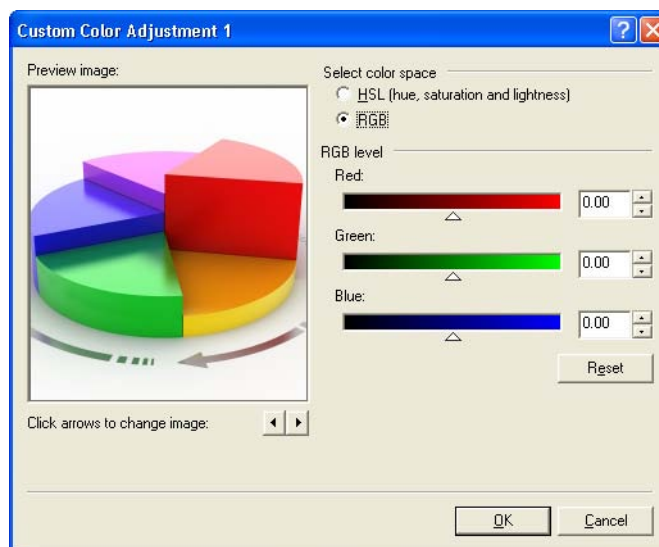
The lower color bar provides a reference point to the color bar above it for **Hue Adjustment**.



- 3 Drag each slider to adjust the **Saturation**, **Lightness** and **Contrast** between -10 and +10. You can also type values in the boxes.
- 4 If you want to return all HSL settings to zero, click **Reset**.
- 5 Click **OK** to save the new HSL settings.

## RGB

- 1 Under **Select color space**, select **RGB**. RGB adjusts only the relative values of the colors red, green, and blue.
- 2 Under each bar, drag the slider to adjust the relative values of **Red**, **Green**, and **Blue** between -10 and +10. You can also type values in the boxes.



- 3 If you want to return all RGB settings to zero, click **Reset**.
- 4 Click **OK** to save the new RGB settings.

## Grayscale Adjustment

The Adjustment settings let you 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 Ensure **Monochrome** is selected in Color mode.
- 2 From **Adjustment**, select **Custom**.

A preview image in the **Adjustment settings** dialog box illustrates any brightness and contrast changes.



- 3 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. Text remains unaffected.

- 4 Drag the **Contrast** slider right or left to increase or decrease 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 mid-level setting. Adjusting contrast is useful if graphic images are printing too gray, or too black and white. Text remains unaffected.

## Grayscale Settings

The **Settings** options are:

Settings Option	Description
<b>Print text as black</b>	Available with all of the <b>Color mode</b> options. Prints all color text as black. This is useful when you want to reduce the amount of data sent to the printer for color print jobs, which can provide faster printing. It is also useful for increasing the detail for light colored text printed by monochrome printers. White text and image colors are unaffected.
<b>Continuous tone</b>	This option is unavailable in this printer model.

## 6 Publishing

The **Publishing** tab chapter describes the Cover mode, Page insert, and Transparency interleaving features of the printer driver.

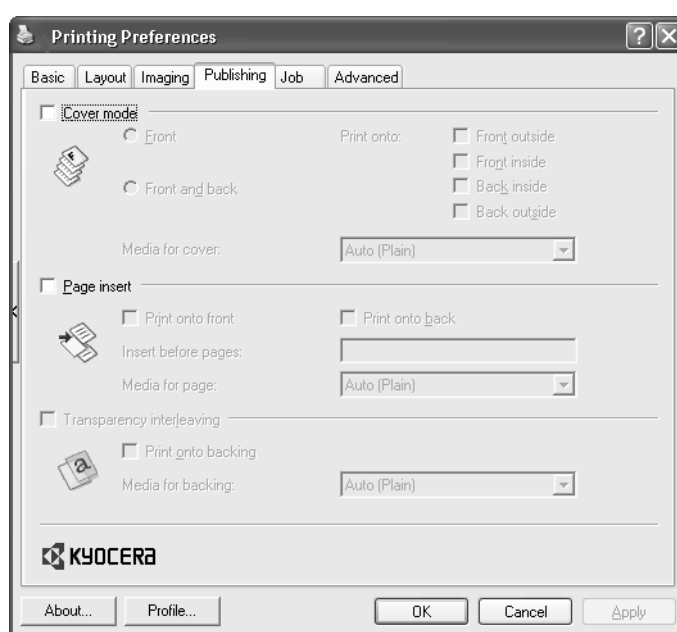
These features are available in the Publishing tab:

- [Printing with Covers](#)
- [Page Insert](#)
- [Transparency Interleaving](#)

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**Note:** The Publishing tab is unavailable for the Windows Vista KX XPS driver.

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### Printing with Covers

For your document's front cover or front and back covers, you can insert and print on paper that is a different weight or color than the paper for the body of the document. You can also specify cover printing when completing booklet printing settings. The paper used for printing the document body is specified in the **Source** settings in the **Basic** tab of the **Properties** dialog box. The source of the cover paper is specified by adjusting the **Media for cover** settings in the **Publishing** dialog box. You can also print on the covers.

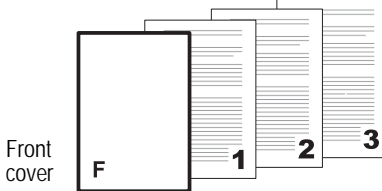
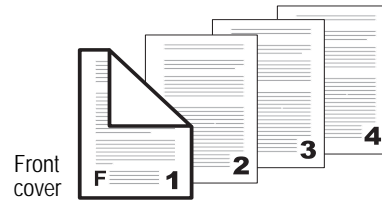
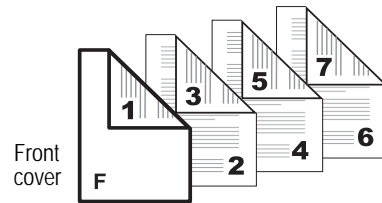
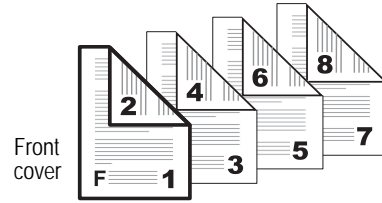
To print using the **Front inside** or **Back outside** options, you must select the **Basic > Print on both sides** options.

Although **Cover mode** and **Page insert** may be used simultaneously, they cannot be used with **Transparency interleaving** (described in [Transparency Interleaving](#) on page 6-6).

For more information about printing with covers in the booklet printing settings, see [Booklet Printing](#) on page 4-2.

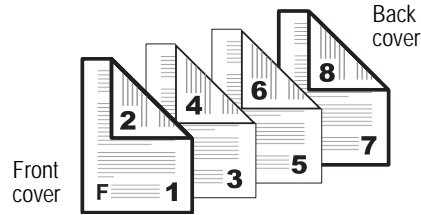
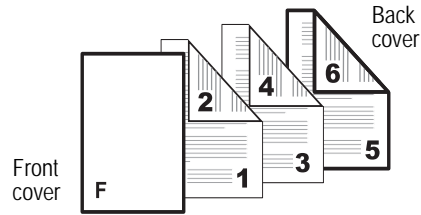
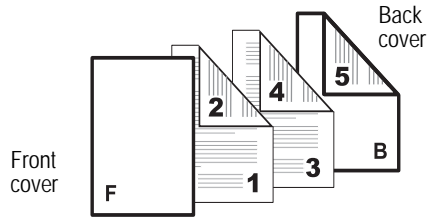
- 1 In your application, select **Print** from the **File** menu, and open **Print Properties**.
- 2 In the **Properties** dialog box, click the **Publishing** tab.
- 3 Select the **Cover mode** check box. Select from the page arrangements described in the table below.

### Cover Printing Options

Check Box Selection	Cover Insertion Type
<input type="radio"/> <b>Front</b>	Inserts a blank front cover.  
<input type="radio"/> <b>Front</b> <input checked="" type="checkbox"/> <b>Front outside</b>	Prints on the outside surface of the front cover.  
<input type="radio"/> <b>Front</b> <input checked="" type="checkbox"/> <b>Front inside</b>	Prints on the inside surface of the front cover.  
<input type="radio"/> <b>Front</b> <input checked="" type="checkbox"/> <b>Front outside</b> <input checked="" type="checkbox"/> <b>Front inside</b>	Prints on the outside and inside surfaces of the front cover.  

Check Box Selection	Cover Insertion Type
<input type="radio"/> <b>Front and back</b>	Inserts blank front and back covers.
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Front outside</b>	Prints on the outside surface of the front cover and inserts a blank back cover.
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Front inside</b>	Prints on the inside surface of the front cover and inserts a blank back cover.
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Front outside</b> <input checked="" type="checkbox"/> <b>Front inside</b>	Prints on both sides of the front cover and inserts a blank back cover.
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Back inside</b>	Prints on the inside surface of the back cover and inserts a blank front cover.

Check Box Selection	Cover Insertion Type
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Back outside</b>	Prints on the outside surface of the back cover and inserts a blank front cover.
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Back inside</b> <input checked="" type="checkbox"/> <b>Back outside</b>	Prints on both sides of the back cover and inserts a blank front cover.
<input type="radio"/> <b>Front and back</b> <input checked="" type="checkbox"/> <b>Front outside</b> <input checked="" type="checkbox"/> <b>Front inside</b> <input checked="" type="checkbox"/> <b>Back inside</b> <input checked="" type="checkbox"/> <b>Back outside</b>	Prints on both sides of the front and back covers.



### Edit Cover Printing Options

- 1 From 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 is automatically selected.

**Note:** Heavy, thin, or other special papers must be supplied from the MP tray.

- 2 Load the paper for the front and back cover in the paper cassette selected in step 1.
- 3 Click **OK** to return to the **Print** dialog box
- 4 Click **OK** to start printing.

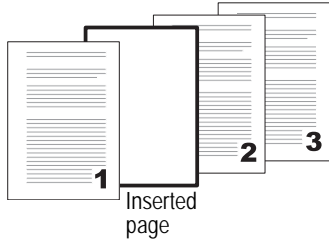
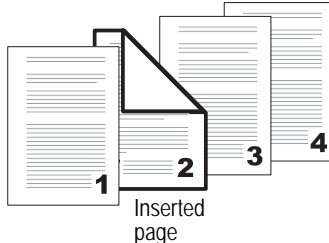
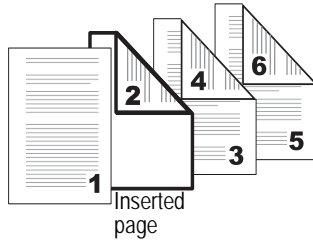
### Page Insert

You can insert a preprinted page or a page of a different paper type before a designated page. You can also print on the inserted paper. Using the standard duplex unit, you can also print on the back of the inserted paper.

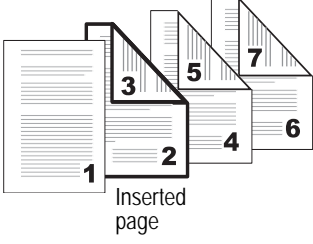
Although the **Page insert** and **Cover mode** may be used simultaneously, they cannot be combined with **Transparency interleaving** (described in [Transparency Interleaving](#) on page 6-6).

## Insert Page Printing

- 1 In your application, select **Print** from the **File** menu and open **Print Properties**.
- 2 In the **Properties** dialog box, click the **Publishing** tab.
- 3 Select the **Page insert** check box. Select the option corresponding to your desired page arrangement as shown in the following table. To print on both the front and back of the inserted page, enable the **Print onto front** and **Print onto back** check boxes.

Check Box Options	Page Insertion Types
<input checked="" type="checkbox"/> <b>Page insert</b>	Inserts a blank page before the second page. 
<input checked="" type="checkbox"/> <b>Page insert</b> <input checked="" type="checkbox"/> <b>Print onto front</b>	Prints on the front surface of the inserted page. 
<input checked="" type="checkbox"/> <b>Page insert</b> <input checked="" type="checkbox"/> <b>Print onto back</b>	Prints on the inside surface of the inserted page. 

Check Box Options	Page Insertion Types
<input checked="" type="checkbox"/> <b>Page insert</b>	Prints on both sides of the inserted page.
<input checked="" type="checkbox"/> <b>Print onto front</b>	
<input checked="" type="checkbox"/> <b>Print onto back</b>	

## Combinations

### Adjust Media Combination Settings

- 1** Enter the page number where the inserted paper is to be placed. An insert paper is placed between the page number you entered and the page before it. For duplex printing without printing on the cover, you can designate for pages to be inserted starting with page 2 and ending on page 511. For duplex printing and if you check print cover front and back, then the range is 3 to 511. If simplex printing, the range is from 2 to 511.
- 2** To designate several pages in the document for insertion, enter a comma (,) to separate them. For a series of insertions in a range of pages, use a hyphen (-). For example, to insert a page before pages 5, 11, 12, 13, and 18, enter **[5,11-13,18]**.
- 3** 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 that matches that media is automatically selected. Heavy, thin, or other special papers must be supplied from the MP tray.
- 4** Click **OK** to return to the **Print** dialog box.
- 5** Load the paper into the paper cassette.
- 6** Click **OK** to begin printing.

## Transparency Interleaving

Transparency interleaving inserts a page between each transparency in a print job to prevent damaging the transparencies. This function is only available when printing on transparencies supplied from the MP tray. On these inserted pages you can print the same content as for the transparencies.

Transparency interleaving cannot be used together with Cover mode or Page insert.

### Transparency Interleaving Method

- 1** In your application, select **Print** from the **File** menu and open **Print Properties**.
- 2** If the Source and Media type lists have not been combined, from the **Media type** list, select **Transparency**.



If the Source and Media type lists have been combined in the **Compatibility Settings** dialog box, select **Auto (Transparency)**.

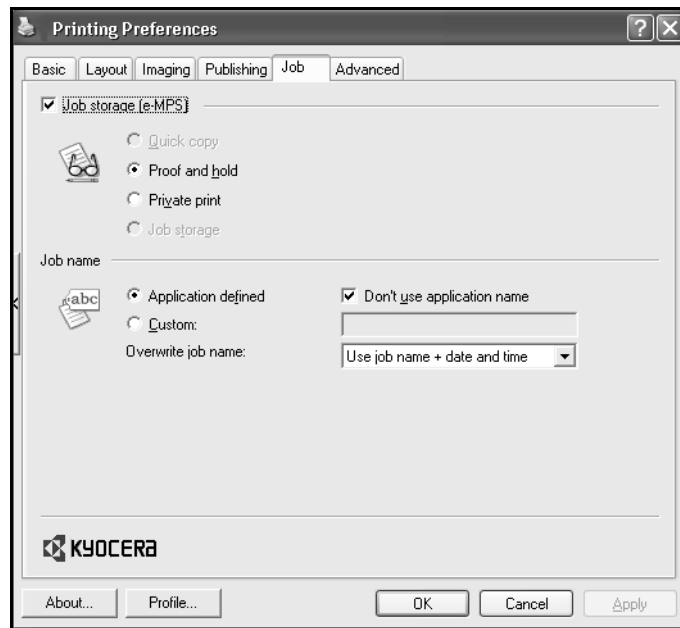
- 3** Click the **Publishing** tab.
- 4** Select the **Transparency interleaving** check box. To print the transparency content on the inserted pages as well, select the **Print onto backing** check box.
- 5** From the **Media for backing** list, select the media type of the backing sheet or the source paper cassette. When you choose the media type, the source cassette where that media is loaded is automatically selected.
- 6** Load transparencies into the MP tray and if necessary, load backing paper into the selected cassette.
- 7** Click **OK** to return to the **Print** dialog box.
- 8** Click **OK** to begin printing.

# 7 Job

The **Job** tab lets you store print jobs in the Hard disk so that you can print them again later from the printing system's operation panel.

These features are available in the Job tab:

- [Job Storage \(e-MPS\)](#)
- [Job Name](#)



## Job Storage (e-MPS)

The **Job** tab offers a variety of document management functions. The Job tab only shows the features that are available for your particular printing system.

**Note:** The e-MPS functions require a Page Description Language setting of KPDL, PCL XL or PCL5c. For more information about changing the page description language, see [Page Description Language \(PDL\)](#) on page 2-9.

Printer Driver Menu Options	Function	Job Deletion after Printing	Access Code	Panel Message (Location)	Default number of copies printed
<a href="#">Quick Copy</a>	Prints all copies of a job and then saves it on the printing system's hard disk so it can be reprinted from the printing system's operation panel.	Saved until printing system power is turned off	No	Menu> Job Box > Quick Copy	Same as the original job (adjustable)

Printer Driver Menu Options	Function	Job Deletion after Printing	Access Code	Panel Message (Location)	Default number of copies printed
<i>Proof and Hold</i>	When you print multiple copies, the printing system produces one copy for proofing and pauses. You can resume printing the remaining copies from the printing system's operation panel.	Saved until printing system power is turned off	No	Menu> Job Box >Quick Copy	One fewer than the original job (adjustable)
<i>Private Print</i>	Saves print jobs (without printing them) for printing later using the printing system's operation panel. Printing with this function requires an access code.	Deleted after printing	Yes	Menu> Job Box > Private/ Stored	Same as the original job (adjustable)
<i>Job Storage</i>	Saves print jobs to print later as needed. You can print the required number of copies later from the printing system's operation panel.	Saved until manually deleted	Optional	Menu> Job Box > Private/ Stored	1 (adjustable)

Sometimes the application settings are given priority over the printer driver settings, causing a change in the output method.

If you select one of the Job options, the hard disk icon appears in the lower corner of the Preview image. Quick Copy, Proof and Hold, Private Print, and Job Storage are available with a hard disk. Proof and Hold and Private Print are available with a RAM disk.

### Quick Copy

After using the quick copy feature, a document can be reprinted from the operation panel.

- 1** In the **Properties** dialog box, click the **Job** tab.
- 2** Select the **Job storage (e-MPS)** check box, and then select **Quick copy**.
- 3** You can name the job for later reference when printing from the printing system's operation panel. For more information, see [Job Name](#) on page 7-5.
- 4** Click **OK**.

When you **Print** from the application, the job is saved to the hard disk while the specified number of copies prints.

### Print Additional Copies of Quick Copy Jobs

- 1 On the printing system's operation panel, press the **Menu** button.
- 2 Press the ▲ or ▼ key repeatedly until **Job Box** appears.
- 3 Press the ► key to open the submenu.
- 4 Press the ▲ or ▼ key repeatedly until **Quick Copy** appears.
- 5 Press the **ENTER** key. A blinking question mark appears by the user name. To set a user name, follow the instructions in [Identification](#) on page 2-8.
- 6 If the user name is correct, press the **ENTER** key. Otherwise, press the ▲ or ▼ key until the correct name appears.
- 7 Press the **ENTER** key.
- 8 The job name appears with a blinking question mark. If this is the correct job for printing, press the **ENTER** key.
- 9 Otherwise, press the ▼ or ▲ key until the correct name appears. Then, press the **ENTER** key.
- 10 Press the ▼ or ▲ key to specify the number of copies.
- 11 Press the **ENTER** key. The Quick Copy job is reprinted in the specified number of copies.

### Delete Quick Copy Jobs

- 1 Refer to steps in 1 through 8 in [Print Additional Copies of Quick Copy Jobs](#) on page 7-3.
- 2 If this is the correct job for deletion, press the **ENTER** key.
- 3 Otherwise, press the ▼ or ▲ key until the correct name appears.
- 4 After the menu for specifying the number of print copies appears, press the ▼ key once. **Delete** appears.
- 5 Press **ENTER** to delete the job.

### Proof and Hold

- 1 Open the Job tab as indicated in the instructions for [Quick Copy](#) on page 7-2. Select **Proof and hold**.
- 2 Name the job for future reference when printing from the printing system's operation panel. For more information, see [Job Name](#) on page 7-5.
- 3 Click **OK**.

When printing a **Proof and hold** job of multiple copies, only the first copy is printed and the remaining copies are saved. Follow the steps below after proofing the first copy.

### Print the Remaining Copies of Proof and Hold Jobs

You can print the remaining copies of **Proof and hold** jobs following the same steps as for [Print Additional Copies of Quick Copy Jobs](#) on page 7-3. Use the keys at the printing system's operation panel to proceed. When using the **Proof and hold** option, the number of copies shown is one less than the total due to the existing proof copy. The printed jobs remain saved on the hard disk, or RAM disk until the printing system is turned off. To delete jobs manually, use the same key sequences as explained in [Delete Quick Copy Jobs](#) on page 7-3.

### Private Print

**Private print** jobs are saved to the hard disk for printing until a four-digit access code is entered. The saved jobs are deleted as soon as they are printed.

#### Save a Private Print Job

- 1 In the **Job** tab, select the **Job storage (e-MPS)** check box.
- 2 Select **Private print**.
- 3 Type a four-digit number for the **Access code**.
- 4 You can name the job for later reference when printing from the printing system's operation panel. For more information, see [Job Name](#) on page 7-5.
- 5 Click **OK**.

#### Print Private Print Jobs

- 1 On the printing system's operation panel, press the **Menu** button.
- 2 Press the ▲ or ▼ key repeatedly until **Job Box >** appears.
- 3 Press the ► key to open the submenu.
- 4 Press the ▲ or ▼ key repeatedly until **>Private/Stored** appears.
- 5 Press the **ENTER** key, the user name appears with a blinking question mark.
- 6 If the user name is correct, press the **ENTER** key. Otherwise, press the ▲ or ▼ key until the correct name appears.
- 7 The job name appears with a blinking question mark. Press the **ENTER** key.
- 8 The user name shown is specified following the instructions in [Identification](#) on page 2-8. If this is the correct job for printing, press the **ENTER** key.
- 9 Otherwise, press the ▲ or ▼ key until the correct job name appears, then press the **ENTER** key.

- 10 Enter the four-digit access code created in [Private Print](#) on page 7-4.
- 11 Press the ▲ or ▼ key to increase or decrease the number.
- 12 Press the ◀ or ▶ key to move the cursor right and left.
- 13 Press the **ENTER** key. Use the ▲ or ▼ key to specify the number of copies for printing.
- 14 Press the **ENTER** key to start printing.
- 15 After printing, the job will be automatically deleted from the hard disk. To delete the job without printing it, follow the same procedure as in [Delete Quick Copy Jobs](#) on page 7-3.

## Job Storage

The Job storage feature saves jobs on the hard disk for future printing, even if the printing system is switched off. You can also use access codes to restrict the printing of forms.

- 1 In the **Job** tab, click **Job storage (e-MPS)** and then select **Job storage**.
- 2 Select the **Access code** check box and type in the desired four-digit access code. When you want to print the saved jobs, type in the access code on the printing system's operation panel.
- 3 You can name the job for future reference when printing from the printing system's operation panel. For more information, see [Job Name](#) on page 7-5.
- 4 Click **OK**. When you select print, the job is saved to the hard disk without printing.

## Print Jobs Saved Using Job Storage

To print forms and other documents saved using Job storage, follow the same steps as for [Print Private Print Jobs](#) on page 7-4.

The stored jobs remain saved even after the printing system is switched off. To delete them manually, follow the same steps as for [Delete Quick Copy Jobs](#) on page 7-3. When deleting jobs, you must type in the same access code as saved in the **Job storage** procedure.

## Job Name

Select a name for your print job to use with Job storage features. This can help manage documents when multiple users are using the device at the same time.

You have the following options with the Job Name feature:

- Select **Application defined** to allow the application to define the Job name or select **Custom** and type your own Job name, to a maximum of 79 characters.
- With **Application defined** selected, select the **Don't use application name** check box to remove the application name from the job name in the operation panel message and in job storage features. The job name is easier to find in a

job list. This feature is applicable only when printing from Microsoft Word or PowerPoint.

- **Overwrite job name** applies to Job names with either **Application defined** or **Custom** selected. Select **Replace existing file** to let the current print job replace an existing job in printing system memory, if a job with the same User name and Job name exists. Or select the **Use job name + date and time** (default setting) to add date and time to the end of the Job name, in the format “mmddy hhmss.”

---

**Note:** Because the operation panel display of job names is limited to 16 characters, the 13-character date and time display replaces most of the job name.

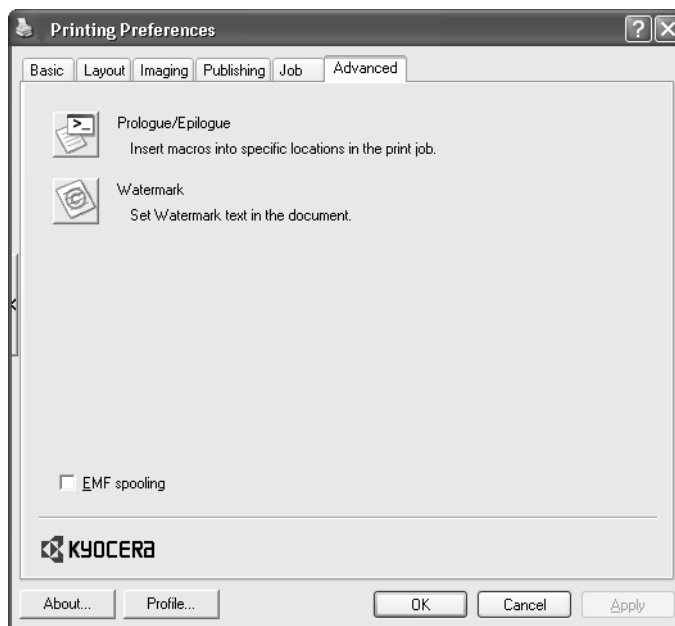
---

## 8 Advanced

The **Advanced** tab contains special features that extend the capabilities of the printing system. Click the button at the left of the feature name to open a dialog box containing options for that feature.

These features are available in the Advanced tab:

- [Prologue/Epilogue](#)
- [Watermark](#)
- [EMF Spooling](#)



---

**Note:** Watermark is the only feature available using the Windows Vista KX XPS driver. For more information, see [Watermark](#) on page 8-4.

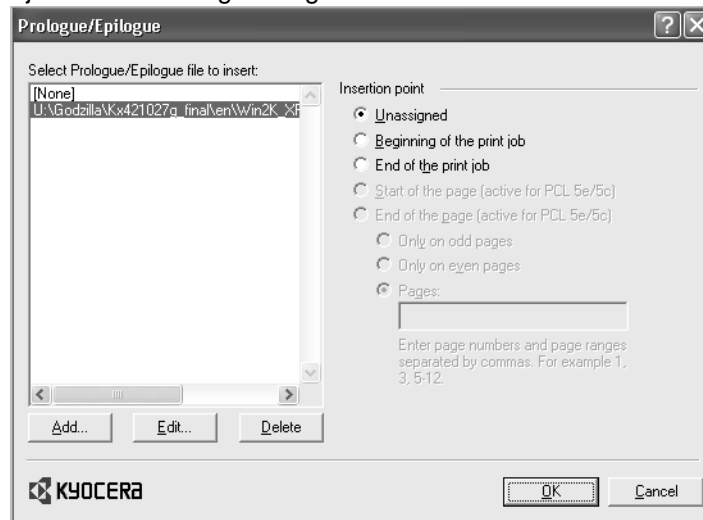
---

### Prologue/Epilogue

Prologue/Epilogue lets an experienced PRESCRIBE user insert one or more printing system language command files into specific locations of a print job. For example, a command file may contain a macro (series of commands called to accomplish a



specific task), settings for printing system emulation, an electronic form, or a graphic object such as a logo or signature.



You can add or delete command file names in the list, or select a file to edit.

- To insert a command file into the print job and enable the features in the **Prologue/Epilogue** dialog box, select a file name from the list.
- To disable Prologue/Epilogue features and clear selection of all command files, select **[None]** at the top of the file list. (To disable a particular command file, select the file, then select **Unassigned**.)

## Select Prologue/Epilogue File to Insert

From the list, select the name of a command file 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.) Selecting a file enables the insertion point options for that file in the dialog box.

### Add

Click **Add** to browse your computer or network for command files. The files are plain text format and typically have a file name extension of either .txt or .log.

### Edit

Select a file name in the list, then click **Edit**. Microsoft Notepad opens for editing the file text. To return to the Prologue/Epilogue dialog box, save any changes to the file and exit Notepad.

---

**Note:** Editing a file changes the original file in the computer or network directory.

---

### Delete

Select a Prologue/Epilogue file name, then click **Delete**. In the message box, click **Yes** to confirm the deletion. To refuse the deletion, click **No**.

---

**Note:** The file name only is removed from the Prologue/Epilogue list. The original file itself is not deleted; it remains in the computer or network directory.

---

## Insertion Point

Each file in the list can be assigned only one insertion point. Choose one of the following insertion point options:

### Unassigned

The selected command file is not inserted into the print job. This is useful if the list contains several command files, and you want to print some but not others. Select **Unassigned** for the files you do not want to print.

---

**Note:** To disable all command files (thereby disabling the entire Prologue/Epilogue feature), select **[None]** at the top of the file list.

---

### 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.

---

**Note:** The following **Start of the page** and **End of the page** insertion point options are available only when PCL 5c is selected as the PDL (Page Description Language). For more information about changing the page description language, see *Page Description Language (PDL)* on page 2-9.

---

### 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.

With **Start of the page** or **End of the page** selected, choose one of the following page options:

- **Only on odd pages**  
The command file is inserted into all odd-numbered pages.
- **Only on even pages**  
The command file is inserted into all even-numbered pages.
- **Pages**  
To insert the command file into specific pages, type individual page numbers separated by commas in the text box, 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.

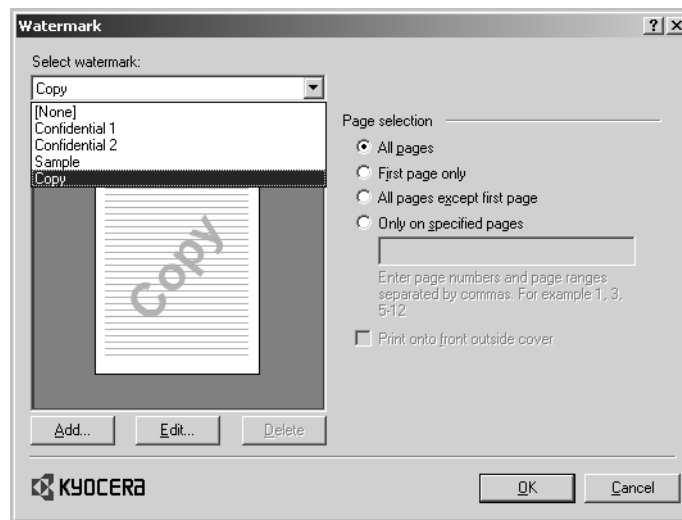
If the **Pages** option is selected and you click **OK** without entering any numbers, you are prompted to specify page numbers.

## Watermark

Use the Watermark feature to create, arrange, and print semitransparent text in the background of 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 viewing any adjustments you make to the appearance and location of the text.

### Select Watermark

Select a watermark from the **Select watermark** list. The selection list contains these standard watermarks: Confidential 1, Confidential 2, Sample and Copy. For more information on creating your own watermarks, see [Add Watermark](#) on page 8-5.



### Page Selection

Page selection options are enabled after a watermark is selected from the list. Choose one of the following:

- **All pages**  
The watermark prints on every page of the document.
- **First page only**  
The watermark prints only on the first page of the document.
- **All pages except first page**  
The watermark prints on all pages of the document except the first page.
- **Only on specified pages**  
To print the watermark only on specific pages, type individual page numbers separated by commas in the text box, or a page range separated by a hyphen.

For example, if you type **2** in the text box, the watermark prints only on page 2. If you type **1, 3, 5-12** the watermark prints on page 1, page 3, and pages 5 through 12.

If the **Only on specified pages** option is selected and you click **OK** without entering any numbers, you are prompted to specify page numbers.

- **Print onto front outside cover**

Select **Print onto front outside cover** to print the watermark on a separate front cover page before the document prints. This option is enabled when **Cover mode** is selected in the **Publishing** tab.

If **Cover mode** and **Front outside** are selected in the **Publishing** tab, the **Print onto front outside cover** option in the **Watermark** dialog box shows as selected, but is disabled. This is because cover printing is already enabled by the two **Publishing** tab selections.

In the **Publishing** tab, you can also select different media for the cover than that used for the rest of the print job. For more information, see [Printing with Covers](#) on page 6-1.

## Add Watermark

You can create your own custom watermarks with different fonts, styles, colors, sizes, positions, and angles. You can also set **Count** to have the watermark appear multiple times on the page.

- 1 Click **Add** to open the **Add Watermark** dialog box.
- 2 Type a descriptive name for your watermark in the **Watermark name** text box. The name can be different from the actual watermark text. After the new watermark is added, the name appears in the **Select watermark** list.
- 3 Type the text you want to print as a watermark in the **Watermark text** box. Your text appears in the preview area at the left of the dialog box.
- 4 To add the new custom watermark, click **OK**. To exit the dialog box without saving the watermark, click **Cancel**.

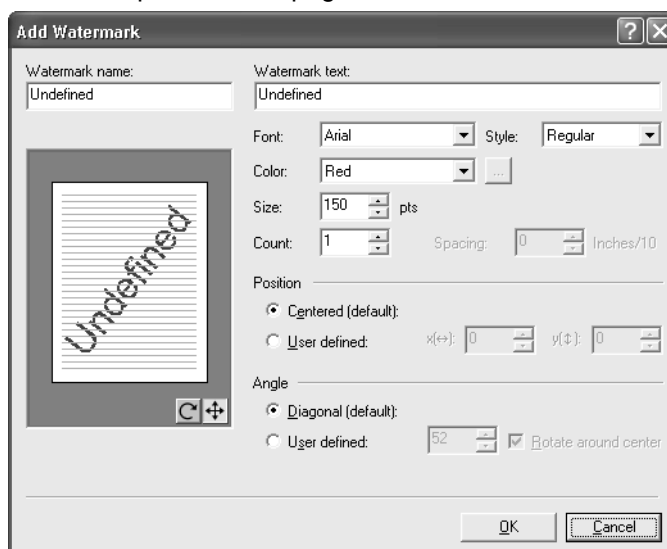
## Additional Text Options

### Fonts

Select a font for the new watermark from the Font list, and select a font style, color, and size.

In the **Count** box, type in the number of watermarks to appear on a page, from 1 to 20. Selecting a number greater than 1 in **Count** enables the **Spacing** option. Type a number for the distance between multiple watermarks, in tenths of an inch or millimeters. The unit (inches or millimeters) is selected in the **User Settings** dialog box, accessed from the **Device Settings** tab. For more information about changing the unit, see [User Settings](#) on page 2-8.

Use the preview area and the **Position** or **Angle** features to adjust where the watermark prints on the page.



### Position

Click the position button to change the position of the watermark without changing the angle. Position the cursor anywhere in the preview area. Click and hold as you move the mouse, adjusting the watermark image as you want it to appear on the printed page.

The following options provide additional means for positioning watermark text:

**Centered [default]:** Places the center of the watermark text in the center of the page.

**User defined:** Select, and then use the x and y boxes to move the text from the center of the page:

- A positive x value moves the watermark text to the right.
- A negative x value moves the watermark text to the left.
- A positive y value moves the watermark text down.
- A negative y value moves the watermark text up.

### Angle

Click the **angle** button to change the angle of the watermark. Position the cursor anywhere in the preview area. Click and hold as you move the mouse, rotating the watermark image to as you want it to appear on the printed page.

The method of rotation is determined by selecting or clearing the **Rotate around center** check box at the far right of the dialog box. Select the check box to rotate text around its center; clear the check box to rotate text around its left end. You must select **User defined** in both **Angle** and **Position** to enable the **Rotate around center** option.

The following options provide additional means for positioning watermark text:

**Diagonal [default]:** Places the watermark at the default angle.

**User defined:** Select to change the angle from the default value. Type the number for the angle you want. An angle is measured in degrees, ranging from 0 to 360.

## Selecting and Creating Custom Colors

- 1** To use a predefined color for the watermark text, select one from the **Color** list.
- 2** For more colors, select **Custom** at the bottom of the list. Click the button to open the **Color** dialog box.
- 3** Click one of the **Basic colors** and click **OK**, or click **Define Custom Colors** to open the color spectrum panel.
- 4** In the color spectrum, click and drag the pointer to different areas of the spectrum to adjust the hue and saturation levels. The corresponding numeric values appear in the **Hue**, **Sat**, and RGB (**Red**, **Green**, **Blue**) text boxes. Click and drag the slider at the right side of the color spectrum to adjust the luminosity (relative lightness or darkness) of a color. The corresponding numeric value appears in the **Lum** and RGB text boxes.
- 5** You can also create a specific color by typing numbers in the **Hue**, **Sat**, **Lum** or RGB text boxes.
- 6** Click **Add to Custom Colors** to save the new color to the **Custom colors** at the bottom left of the **Color** dialog box.
- 7** Click **OK** to save any new custom colors and close the **Color** dialog box. To close the dialog box without saving any new colors, click **Cancel**.

## Edit Watermark

The **Edit Watermark** feature lets you select an existing watermark and make changes to its appearance and properties. For standard watermarks, the **Watermark name** and **Watermark text** cannot be changed.

- 1** From the **Select watermark** list, select a watermark to edit.
- 2** Click **Edit** to open the **Edit Watermark** dialog box.
- 3** Make any adjustments you want to the watermark. For more information about changing watermark properties, see [Add Watermark](#) on page 8-5.
- 4** When you are finished editing, click **OK** to save any changes you made to the watermark. To exit the dialog box without saving the changes, click **Cancel**.

## Delete Watermark

The **Delete** feature lets you delete custom watermarks that were added. The standard watermarks cannot be deleted.

- 1** From the **Select watermark** list, select a watermark to delete.
- 2** Click **Delete**.
- 3** In the message box, click **Yes** to confirm the deletion. To refuse the deletion, click **No**.

## EMF Spooling

When printing large documents, it can be beneficial to select **EMF spooling**. This delays spooling and returns the user to their application more quickly.

---

**Note:** EMF spooling is not available when **KPDL** is selected in the PDL Settings dialog box and **Allow data passthrough** is selected in the KPDL Settings dialog box. See [Page Description Language \(PDL\) on page 2-9](#).

---

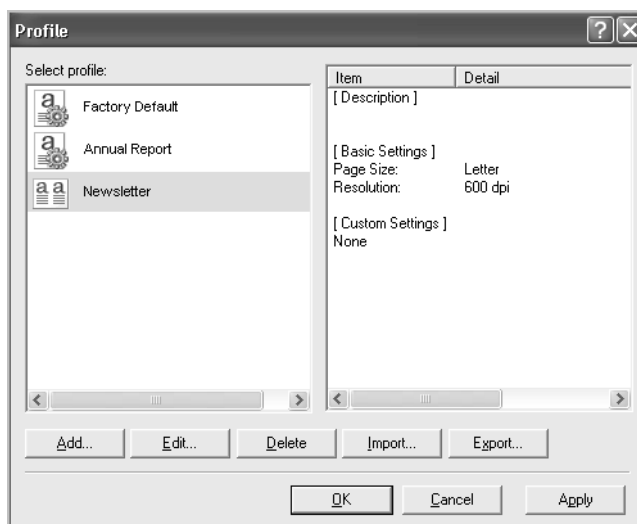
## 9 Profile

**Profile** is accessed from **Printing Preferences**. Profile lets you save printer driver settings as a profile. You can select multiple options in Printing Preferences, save them to a profile, and use all of them at once when you apply the profile. Profiles include user defined profiles and predefined profiles that can be installed as optional components. For information on installing optional components, see [Installing Optional Components](#) on page 1-7.

A maximum of 26 profiles can be established in one driver, including the **Factory Default** profile. **Device Settings** cannot be saved to a profile.

These features are available in the Profile dialog box:

- [Adding a Profile](#)
- [Editing a Profile](#)
- [Deleting a Profile](#)
- [Importing and Exporting a Profile](#)



A set of common profiles can be installed as optional components from the Printer Installation Wizard.

---

**Note:** The **Device Settings** tab options cannot be saved to a profile.

---

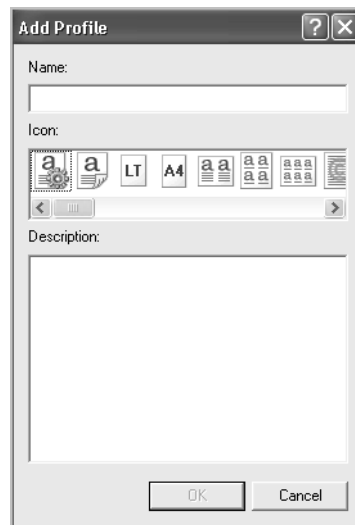
### Adding a Profile

Follow these steps to create a new profile.

- 1** Select the options you want in each of the **Printing Preferences** tab.
- 2** Click **Profile**.
- 3** Click **Add** to open the **Add Profile** dialog box.



- 4 Type a **Name** for the profile, select an **Icon**, and type an optional **Description**. The name can be up to 31 characters, the description can be up to 255 characters.



- 5 Click **OK** to save the profile.
- 6 Click **Apply** to activate the selected profile to the current print job.

---

**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.

---

## Editing a Profile

Follow these steps to edit a profile.

- 1 Click **Profile** in the **Printing Preferences** dialog box.
- 2 Select a profile and click **Edit**.
- 3 The **Edit Profile** dialog box appears. You can edit the **Name**, **Icon**, or **Description**.



- 4 Click **OK** to save the profile.

## Deleting a Profile

- 1 Click **Profile** in the **Printing Preferences** dialog box.
- 2 Select profiles and click **Delete**.
- 3 Click **Yes** to delete the profiles.

## Importing and Exporting a Profile

You can export and save a profile on your computer and transfer it to other computers, then use it with other printing systems. Multiple profiles can be exported at a time. Use the import feature to import a profile.

### Import

- 1 Click **Import** in the **Printing Preferences** dialog box. The **Profile** dialog box appears.
- 2 In the **Profile** dialog box, click **Import**. The **Import Profile** dialog box appears.
- 3 Select a profile and click **Open**.
- 4 The profile appears in the **Select profile** list.

### Export

- 1 Click **Profile** in the **Printing Preferences** dialog box.
- 2 Select a profile and click **Export**.
- 3 The **Export Profile** dialog box appears. Name and save the profile.

# Glossary

- A**
- Access code** A four-digit code you must enter at the printing system's operation panel to print a Private print job. An access code can also be used with the Job storage feature.
- Auto Configure** Device settings feature that queries a printing system through the network and automatically retrieves settings for optional devices, and memory. Driver settings are updated with information received from the physical printing system. Installed devices display in the Preview image.
- B**
- Booklet** Layout mode 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** Input paper tray.
- D**
- dpi** Dots per inch.
- Duplex unit** A device for printing two-sided documents.
- E**
- EcoPrint** Printing mode 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.
- F**
- Fast printing** Printing mode that decreases spool size and increases print speed.
- 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.
- Gutter** Blank space on the left side or top of a printed page that can be increased by scaling down text and graphics. This supports stapling. 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).
- J**
- 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, use Job accounting to print in the Copy Management mode.
- Job Box** Job storage that lets you store print jobs in the Hard disk option so that you can access and print the job again later from the printing system's operation panel.

---

## M

**Monochrome** Imaging mode that uses black toner only.

**MP tray** Source tray used for labels, transparencies, envelopes, and custom printing media.

## P

**PDL** Page Description Language. This is the language used by your computer to tell the printing system how to print a document. Availability of some printing options depends on the selected PDL. Available page description languages are PCL XL, PCL 5c, KPD, and XPS.

**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** A scripting language that you can use to embed commands into specified locations in a print job. See also Prologue/Epilogue.

**Private print** Job feature that sends secure print jobs to the printing system with a four-digit Access code and stores them on the Hard disk. The job is printed out at the operation panel by using the Access code.

**Profile** A set of user defined driver settings that you save as a group. After 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 calls 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 feature that prints one copy of a multiple copy job and then stores the remaining copies on Hard disk. After the first copy has been reviewed, the remaining copies can be printed or deleted at the printing system's operation panel. Proof and hold jobs are stored temporarily and are deleted when the printing system is reset or powered off.

## Q

**Quick copy** Job feature that prints all copies of a job, then saves the job on the printing system's optional Hard disk temporarily for later access. The stored Quick copy jobs can be accessed from the printing system's operation panel.

## R

**RAM disk** A feature that lets you set up an area within the printing system memory as a virtual hard disk for faster printing. RAM disk is not an attached device, but an allocation of existing printing system memory. RAM disk is temporary. All data sent to RAM disk memory will be lost when the printing system is reset or the power is turned off.

**Resolution** The number of dots printed in one inch. Higher resolution improves the quality of detailed printed images.

## T

**Transparency** Clear sheet used as printing media.

**Transparency interleaving** A Publishing feature that inserts a backing sheet between printed transparencies. The backing sheet, also known as an interleaf, helps keep transparencies clean and prevents the transparencies from clinging together.

---

W

**Watermark** Advanced feature that lets you add semitransparent text to a document.

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