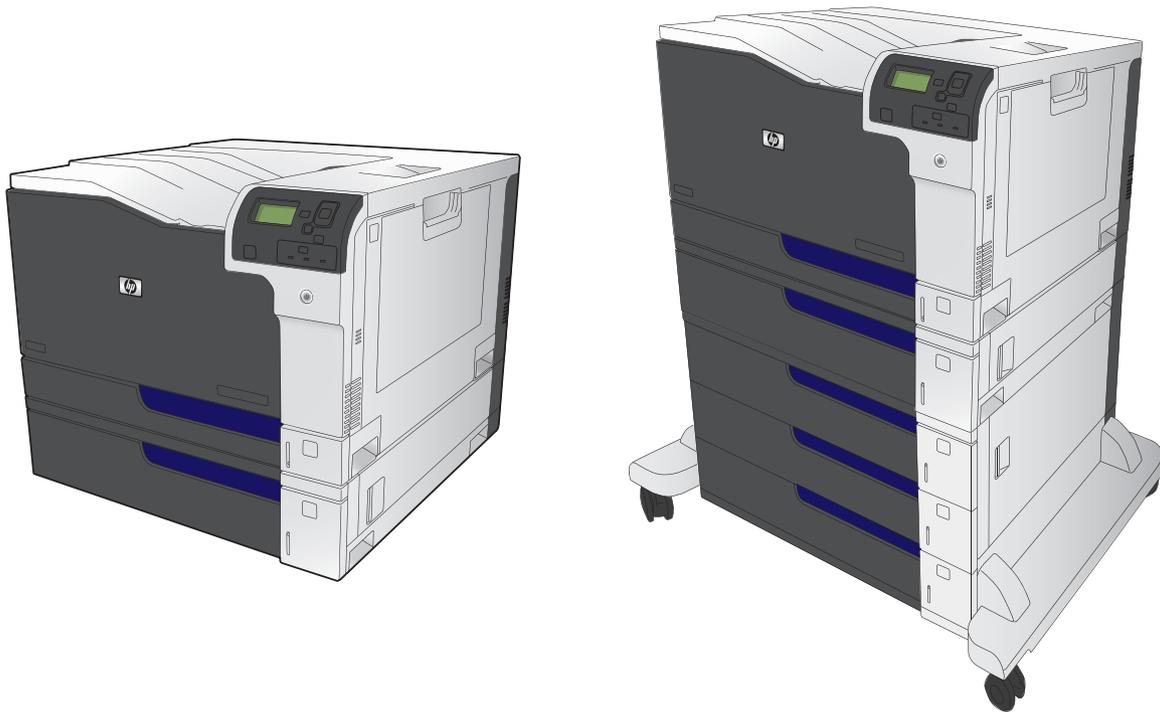




HP COLOR LASERJET ENTERPRISE CP5520 PRINTER SERIES

Software Technical Reference





HP Color LaserJet Enterprise CP5520 Series Printer

Software Technical Reference

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1 Document and product basics

The chapter provides information about these topics:

- [Purpose and scope](#)
- [Software availability and localization](#)

Purpose and scope

This software technical reference (STR) provides information about, and troubleshooting tips for, the printing-system software for the product.

This STR is prepared in an electronic format to serve as a quick-reference tool for Customer Care Center (CCC) agents, support engineers, system administrators, management information systems (MIS) personnel, and end users, as appropriate.

The following information is included in this STR:

- Descriptions of drivers, operating systems, and system environments
- Descriptions of installing and uninstalling the printing-system software components

For information about the location of information within chapters, see the table of contents. An index is also provided in this STR.

Software availability and localization

This section provides information about the availability of the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software and related software and firmware. Printing-system software on a CD is available from HP fulfillment centers. For more information, go to the following Web site:

www.hp.com/go/cljcp5525_cdrom

Printing-system software on the Web

All software that is contained on the installation CD is also available on the Web.

Web deployment is the preferred method for obtaining the latest software. The Web site offers an option for automatic e-mail notification about new software releases.

The HP Color LaserJet Enterprise CP5520 Series Printer printing-system software is available for download at the following Web site:

www.hp.com/go/cljcp5525_software

In-box printing-system software CD

The software CD for the HP Color LaserJet Enterprise CP5520 Series Printer product contains a variety of files for installing the printing-system software on the computer. This section describes the files that are available on the software CD and provides additional information about support and availability.

The HP Color LaserJet Enterprise CP5520 Series Printer printing-system software CD is divided into two partitions, one for Windows operating systems and one for Macintosh operating systems.

The files in each partition include documentation files and files that are required in order to install and uninstall the printing-system components.

HP LaserJet software CD, Windows partition

 **NOTE:** For information about the contents of the Macintosh partition of the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software CD, see [HP LaserJet software CD, Macintosh partition on page 110](#).

The root directory in the Windows partition of the software CD contains the AUTORUN.EXE file, the SETUP.EXE file, and the following directories:

- Drivers
- Installer
- Installer Content
- Languages
- Prerequisites
- Setup
- Utilities

The Utilities folder contains the files to run these stand-alone utilities:

- FileToEmail
- Scrubber

CD versions and language support

The HP Color LaserJet Enterprise CP5520 Series Printer printing-system software CD is available with the following components and languages.

Table 1-1 Software CD supported languages

Language	Two-letter abbreviation	HP-preferred name	File designation
Arabic	AR	Arabic	ARWW
Bahasa Indonesian	ID	Bahasa Indonesian	IDWW
Catalan	CA	Catalan	CAWW
Croatian	HR	Hrvatski	HRWW
Czech	CS	Cestina	CSWW
Danish	DA	Dansk	DAWW
Dutch	NL	Nederlands	NLWW
English	EN	English	ENWW
Finnish	FI	Suomi	FIWW
French	FR	Francais	FRWW
German	DE	Deutsch	DEWW
Greek	EL	Greek	ELWW
Hebrew	HE	Hebrew	HEWW
Hungarian	HU	Magyar	HUWW
Italian	IT	Italiano	ITWW
Japanese	JA	Japanese	JAWW
Korean	KO	Korean	KOWW
Norwegian	NO	Norsk	NOWW
Polish	PL	Polski	PLWW
Portuguese	PT	Portugues	PTWW
Romanian	RO	Romanian	ROWW
Russian	RU	Russian	RUWW
Simplified Chinese	ZHCN	Simplified Chinese	ZHCN
Slovak	SK	Slovak	SKWW
Slovenian	SL	Slovenian	SLWW

Table 1-1 Software CD supported languages (continued)

Language	Two-letter abbreviation	HP-preferred name	File designation
Spanish	ES	Espanol	ESWW
Swedish	SV	Svenska	SVWW
Thai	TH	Thai	THWW
Traditional Chinese	ZHTW	Traditional Chinese	ZHTW
Turkish	TR	Turkce	TUWW
Ukrainian	UK	Ukrainian	UKWW

Driver languages

The HP Color LaserJet Enterprise CP5520 Series Printer product provides driver support in the following languages.

Table 1-2 Supported printer driver languages

Component	Language list
HP PCL 6 Print Driver	<ul style="list-style-type: none">• Arabic• Japanese
HP PCL 5 Universal Print Driver	<ul style="list-style-type: none">• Bulgarian• Korean
HP PCL 6 Universal Print Driver	<ul style="list-style-type: none">• Catalan• Latvian
HP PS Universal Print Driver	<ul style="list-style-type: none">• Croatian• Lithuanian• Czech• Norwegian• Danish• Polish• Dutch• Portuguese• English• Romanian• Estonian• Russian• Finnish• Servian• French• Slovak• German• Slovenian• Greek• Spanish• Hebrew• Swedish• Hungarian• Thai• Italian• Turkish• Ukrainian• Simplified Chinese• Traditional Chinese

Installer languages

The HP Color LaserJet Enterprise CP5520 Series Printer product provides installer component support in the following languages.

Table 1-3 Installer component languages

Component	Language list
Administrator install	<ul style="list-style-type: none">• Arabic• Catalan• Croatian• Czech• Danish• Dutch• English• Finnish• French• German• Greek• Hebrew• Hungarian• Italian• Japanese• Korean• Norwegian• Polish• Portuguese• Romanian• Russian• Slovak• Slovenian• Spanish• Swedish• Thai• Turkish• Ukrainian• Simplified Chinese• Traditional Chinese

NOTE: Web Registration is run when the install is complete, and is not installed on the user's system.

Documentation languages

The HP Color LaserJet Enterprise CP5520 Series Printer product provides documentation in the following languages.

Table 1-4 Documentation languages

Component	Language list
<ul style="list-style-type: none"> HP Color LaserJet Enterprise CP5520 Series Printer User Guide (.PDF file) 	<ul style="list-style-type: none"> Arabic Bulgarian
<ul style="list-style-type: none"> HP Color LaserJet Enterprise CP5520 Series Printer User Guide (.CHM file) 	<ul style="list-style-type: none"> Catalan Croatian
<ul style="list-style-type: none"> HP Color LaserJet Enterprise CP5520 Series Printer Driver Preconfiguration User Guide (Available in English only) 	<ul style="list-style-type: none"> Czech Danish Dutch
<ul style="list-style-type: none"> HP JetDirect Administrator's Guide (.PDF file) (with the following exceptions) <ul style="list-style-type: none"> Catalan documentation in Spanish only No documentation in Arabic, Bulgarian, Czech, Greek, Hebrew, Croatian, Estonian, Lithuanian, Latvian, Romanian, Slovak, Slovenian, Serbian, Turkish, Ukrainian 	<ul style="list-style-type: none"> English Estonian Finnish French German Greek Hebrew Hungarian Italian Japanese
<ul style="list-style-type: none"> HP Color LaserJet Enterprise CP5520 Series Printer Install Notes (.HTML file) 	<ul style="list-style-type: none"> Korean Latvian Lithuanian Norwegian Polish Portuguese Romanian Russian Serbian Slovak Slovenian Spanish Swedish Thai Turkish Ukrainian Simplified Chinese Traditional Chinese

2 Windows software description

Introduction

The HP Color LaserJet Enterprise CP5520 Series Printer product comes with software and installers for Microsoft Windows and Apple Computer, Inc., Macintosh systems. Linux and UNIX systems are supported, and software is available on the Web. For information about specific system installers, drivers, and components, see the section that corresponds to that system. For information about Mac software, see [Macintosh software and utilities on page 105](#).

This section contains information about the following topics:

- [Advanced color use](#)
- [HP Print View Software](#)
- [Font support](#)
- [HP Driver Deployment Utility](#)
- [HP Driver Configuration Utility](#)

Advanced color use

Color Access Control

The HP Color LaserJet Enterprise CP5520 Series Printer has the ability to monitor and control color print-job use. For more information about color access control, go to the following Web site and look under **Learn More**.

www.hp.com/go/cac

The following table shows various tools that can be used to control color-printing access.

Table 2-1 Color access control tools

Tool	Description
HP Embedded Web Server	The HP Embedded Web Server (HP EWS) is a Web-browser-based utility that provides an interface to the product that you can use to change product settings, including color access control settings. No special software needs to be installed or configured. It allows you to set color printing restrictions and view a log of color printing use. The HP EWS is designed for one-to-one product configuration monitoring and management.
HP Web Jetadmin	The HP Web Jetadmin provides an interface to the product through a Web browser on single network-administration servers. Use HP Web Jetadmin to manage HP Jetdirect-connected products within an intranet. For more information, see the following Web site: www.hp.com/go/webjetadmin
Color usage job log	The color usage job log shows color and monochrome print job statistics for a product.
Product control panel	Use the product control panel to restrict color use in network-connected products. For more information, see the following procedure.

To restrict color-printing access to a network-connected HP Color LaserJet Enterprise CP5520 Series Printer from the product control panel, follow these steps:

1. Press the **Home** button  to return to the main screen, if needed.
2. Press the **up arrow**  or the **down arrow**  to scroll to **General Settings**, and then press the **OK** button.

3. Press the **up arrow** ▲ or the **down arrow** ▼ to scroll to **Restrict Color Use**, and then press the **OK** button.
4. Press the **up arrow** ▲ or the **down arrow** ▼ to scroll to one of the following options, and then press the desired option:
 - **Enable Color**. This is the default setting. Use of color-printing features is unrestricted.
 - **Disable Color**. This setting denies the use of color-printing features to all users.
 - **Color if Allowed**. Network administrators can use this setting to allow color-printing to certain users and restrict it for other users. User privileges can be set using HP EWS. For more information, see the EWS online help.

PANTONE color profiles

Most software programs that support the use of PANTONE colors for graphic objects include the PANTONE name in the postscript output along with the color values that are assigned to the object. Select a software program that uses a PANTONE palette in a CMYK workspace, and print with the HP PS Universal Print Driver in Windows XP, Windows Server 2003, Windows Server 2008, Windows Vista, or Windows 7.

When **SWOP** is selected as the **CMYK Color** setting, these CMYK values provide a good reproduction of the PANTONE 4C spot-color simulations.

Vector graphics, such as company logos that are created in PANTONE Application Palettes, can be imported into Microsoft Word, PowerPoint, or other Microsoft Office software programs. The color program must create an encapsulated postscript (.eps) file of the image that will be imported. Use the **Insert file** function to import the file into the Office document.



NOTE: Cutting and pasting from the clipboard does not work. These tasks do not preserve the PANTONE name or the CMYK palette value.

HP Print View Software

Use HP Print View software to change various print settings and see immediately how those changes affect your document. When you are satisfied with the print settings, print the job directly from HP Print View to your supported and networked printer.

Print View 2.0 supports both print and cost estimation.

Download HP Print View Software from the following location:

www.hp.com/go/ihm

Font support

The basic fonts listed here are included with Microsoft Windows software.

 **NOTE:** For complete font support information, see the Microsoft Windows documentation.

Basic fonts

Microsoft Windows software includes these basic fonts, which can be used with any HP printing product:

- Arial
- Courier New Italic
- Times New Roman Italic
- Arial Italic
- Courier New Bold
- Times New Roman Bold
- Arial Bold
- Courier New Bold Italic
- Times New Roman Bold Italic
- Arial Bold Italic
- Symbol
- Wingdings
- Courier New
- Times New Roman

HP Driver Deployment Utility

The HP Driver Deployment Utility (HP DDU) was created to simplify the deployment of print drivers onto a client computer.

It is a simple utility that packages the printer-driver files, and the code needed to deploy them, into 2 files: an .EXE file and a .CAB file. These files are run on the client computer to copy the printer-driver files to the Windows driver store, and for network packages, to install the product.

For more information, go to the following Web site:

www.hp.com/go/DDU

HP Driver Configuration Utility

The HP Driver Configuration Utility (DCU) is a small Windows application used to edit the configuration file associated with a particular driver. The configuration file controls the print driver settings and takes effect when the driver is installed.

The HP Driver Configuration Utility does not handle any part of the deployment or installation of the driver. Instead, the default driver configuration file is modified and saved back to the same driver directory in which it was opened (hpcpu*.cf_) or saved to the local host's directory [filename].cfm. After modification of custom settings, the settings become the defaults used during driver installation.

Please reference the HP Universal Print Driver System Administrator's Guide and the HP Driver Configuration Utility documentation for full details installing and using the utility.

For more information, go to the following Web site:

www.hp.com/go/dcu

3 Install Windows software and utilities

Introduction

The HP Color LaserJet Enterprise CP5520 Series Printer product comes with software and installers for Microsoft Windows and Apple, Inc., Macintosh systems. Linux and UNIX systems are supported, and software is available on the Web.

This chapter provides procedures for installing and removing the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software for Windows operating systems. The chapter provides information about these topics:

- [Supported operating systems for Windows](#)
- [Install overview](#)
- [Detailed Microsoft Windows installation instructions](#)
- [Install optional software](#)
- [Uninstall software](#)

 **NOTE:** If the computer is running a 64-bit Windows operating system, you must install the corresponding 64-bit print driver.

Supported operating systems for Windows

Windows operating systems provide full-featured support for the HP Color LaserJet Enterprise CP5520 Series Printer product. Operating systems that are not described here provide varying levels of functionality.

Windows XP is used to denote Windows XP Home Edition, Windows XP Professional, and Windows XP Media Edition unless noted otherwise. Windows Vista is used to denote Windows Vista Home Basic, Windows Vista Home Premium, Windows Vista Business, Windows Vista, and Windows Vista Ultimate unless noted otherwise. Windows 7 is used to denote Windows 7 Basic, Windows 7 Home Premium, Windows 7 Professional, Windows 7 Enterprise, and Windows 7 Ultimate

Table 3-1 Windows software component support

	Windows XP, SP 2 and greater (32-bit and 64-bit)	Windows Server 2003 (32-bit and 64-bit)	Windows Server 2008 (32-bit, 64-bit, and R2 edition)	Windows Vista (32-bit and 64-bit)	Windows 7 (32-bit and 64-bit)
HP UPD PCL5 driver	x	x	x	x	x
HP UPD PCL6 driver	x	x	x	x	x
HP UPD PS driver	x	x	x	x	x
Discrete PCL6 driver	x	x	x	x	x
Installer CD (Windows/Mac)	x (32-bit only)	x (32-bit only)	x	x	x
HP MPA	x (32-bit only)	x (32-bit only)	x (32-bit only)	x (32-bit only)	x (32-bit only)
HP DDU	x	x	x	x	x
HP DCU	x	x	x	x	x
HP Printview Software	x	x	x	x	x

In any of the supported operating systems, you must have administrator privileges to install the product printing-system software.

For more information about the HP Color LaserJet Enterprise CP5520 Series Printer product, go to the following Web site:

www.hp.com/support/cljcp5525

System requirements

The system requirements for installing and using the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software for Windows and Macintosh are as follows:

- Same system requirements for running the supported Windows operating system (OS)
- Latest operating system updates installed through Windows Update
- 200 MB of available hard-disk space
- Mac OS X v10.4, v10.5, v10.6 and later with 150 MB of free hard-disk space
- CD drive, DVD drive, or Internet connection
- Dedicated universal serial bus (USB High Speed 2.0) connectivity port or network connection

Print driver support in other operating systems

The HP Color LaserJet Enterprise CP5520 Series Printer product is also supported in the following operating environments:

- Mac OS X v10.4 or later. For more information, go to the following Web site:
www.hp.com/go/cljcp5525_software
- Linux. For more information, go to the following Web site:
www.hplip.net
- UNIX. For more information, go to the following Web site:
www.hp.com/go/jetdirectunix_software
- UNIX model scripts. Available *only* on the Web at the following Web site:
www.hp.com/go/unixmodelscripts.
- Citrix and Windows Terminal Services. For more information, go to the **Documentation** tab and to the UPD main page for PCL6, PCL5 and PS drivers on following Web site: www.hp.com/go/upd
- Novell. For more information, go to the following Web site: www.novell.com/iprint
- SAP printing. For more information, go to the following Web sites:
www.hp.com/go/sap/print and www.hp.com/go/sap/drivers

Install overview

The software for the product comes on a single CD. The software installer first checks the versions of Windows Installer and Microsoft .NET installed on the system, and then installs the printing-system software from the CD onto the hard disk and updates Windows files.

Depending on the configuration of your computer as well as the installation method selected, the following components might be installed during the printing-system software installation:

- HP Color LaserJet Enterprise CP5520 Series Printer PCL 6 printer driver
- *HP Color LaserJet Enterprise CP5520 Series Printer User Guide*
- UnInstall utility

For all of the supported platforms, each install option presents a series of query dialog boxes that guide you through the installation process.

Software Installer system check

The software installer checks the computer system to ensure that the following Windows features are the correct version to support the printing-system components.

Microsoft Windows Installer 3.1

When the user starts the installation process, the product software installer checks the computer system to determine the version number of the Windows Installer currently on the system. If the product software installer detects that the Windows Installer version is prior to version 3.1, a dialog box appears alerting the user that the Windows Installer must be updated. The user must click the **OK** button to continue. The product software installer then updates the Windows Installer and continues the HP Color LaserJet Enterprise CP5520 Series Printer printing-system installation process.

To determine which version of Windows Installer is currently running on the computer, follow these instructions.

1. For Windows 7 and Windows Vista, click the **Start** button, click the **Control Panel** option, and then click the **Programs** option.

For Windows XP and Windows Server 2003, click the **Start** button, click the **Control Panel** option, and then double-click the **Add/Remove programs** option.

2. Scroll down until you find the entry for the **Windows Installer**.

Software installation types for Windows

The product printing-system software can be installed in the following ways:

- HP Color LaserJet Enterprise CP5520 Series Printer printing-system installer (Recommended)
- Microsoft Found New Hardware Wizard (Plug and Play installation)

Installation options

The printing-system software can be used with the product in the following configurations:

- Install the printing-system software on a computer that is directly connected to the product through a USB port.
- Install the printing-system software on a computer that has access to a network, either wired or wireless, to which the product is connected.



NOTE: Wireless option through EIO can be purchased separately..

Detailed Microsoft Windows installation instructions

The dialog boxes shown here appear in the Windows XP Professional installation sequence. The order and appearance of dialog boxes can vary among operating systems.

Perform the recommended print driver installation using the Installation CD

The recommended installation installs the PCL 6 print driver and user guide.

 **NOTE:** You can return to the previous dialog box by clicking the **Back** button, or exit the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software installation by clicking the **Cancel** button.

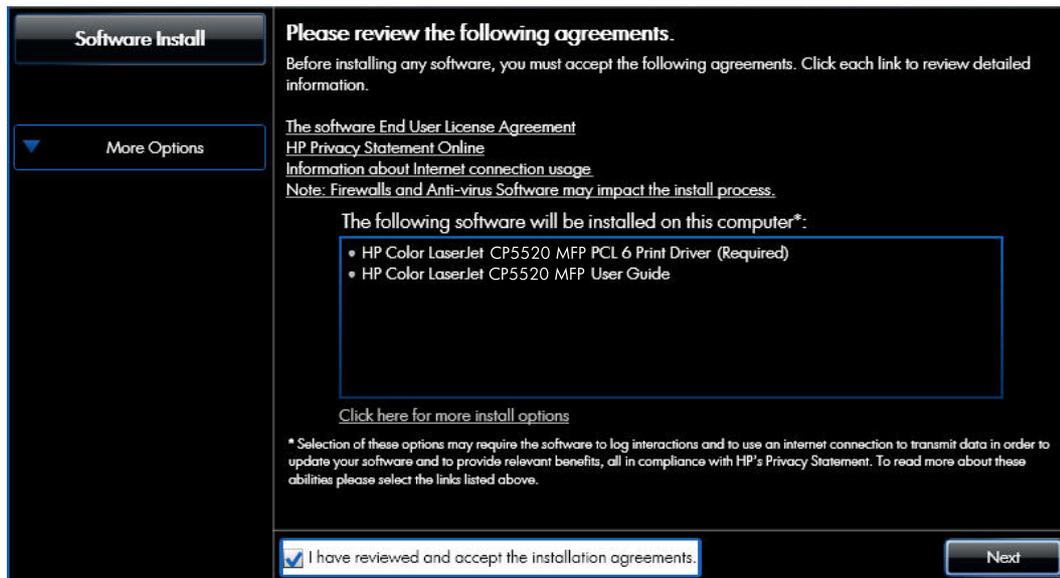
1. Close all programs.
2. Insert the HP Color LaserJet CP5525n printing system software CD into the CD-ROM drive. The software installer detects the language of the operating system, and then displays the main menu of the CD Browser program in the same language.

If the installer program has not started after 30 seconds, complete these steps:

- a. On the **Start** menu, click the **Run** option.
 - b. Type the following: X:\SETUP.EXE (where X is the letter of the CD-ROM drive).
 - c. Click the **OK** button.
3. Click the **Install** button to begin the installation process.

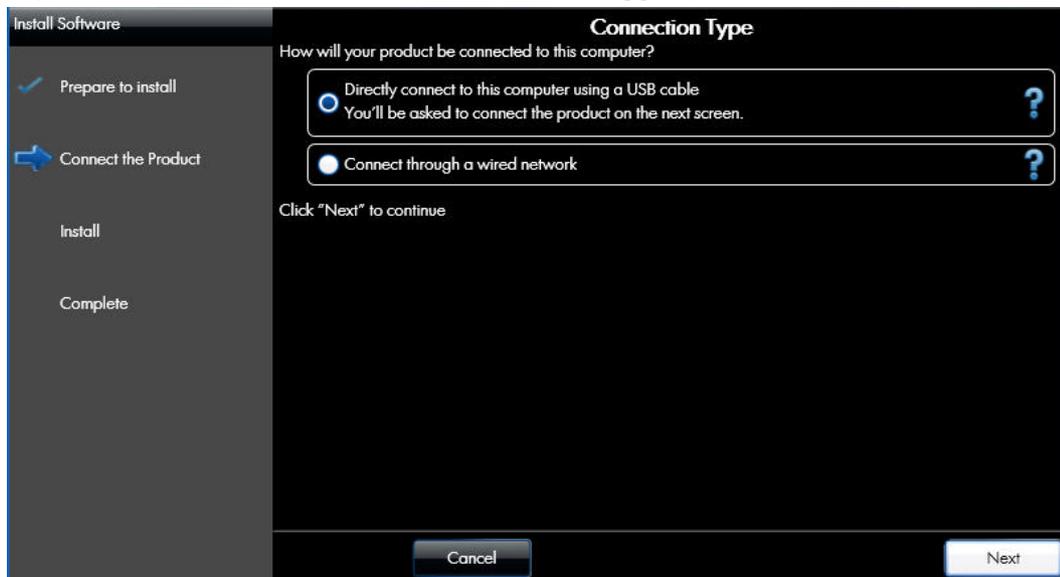


4. Read the license agreement, select the **I have reviewed and accept the installation agreements** check box, and then click the **Next** button to continue to the **Connection Type** screen.



5. Select a connection type option on the **Connection Type** screen, based on how the product connects to the computer.

Figure 3-1 Software Installation — **Connection Type** screen for USB connected installation



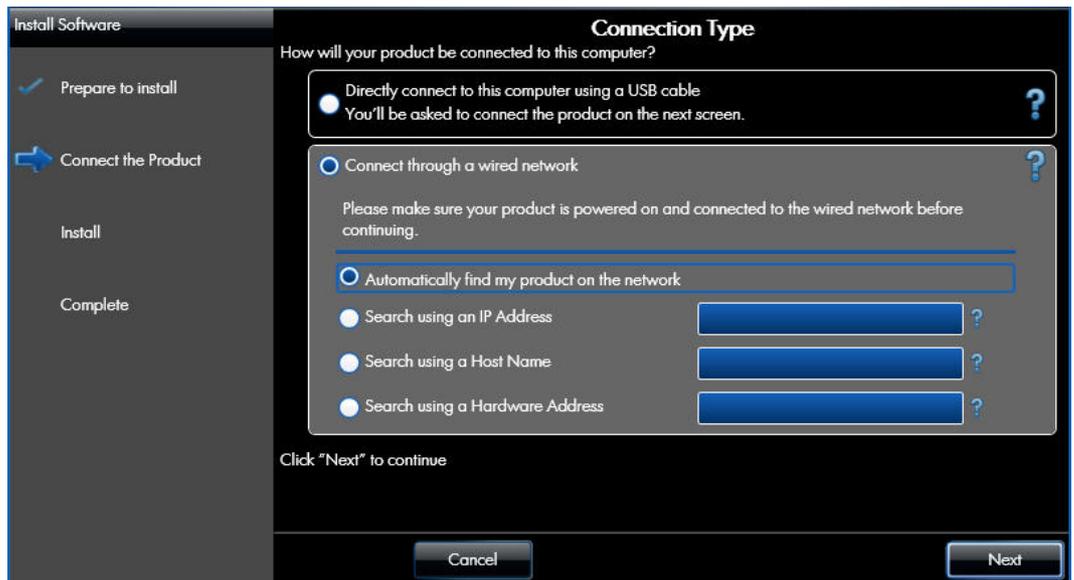
- For USB connected products, follow these steps:
 - a. Select the **Directly connect to this computer using a USB cable** option and then click the **Next** button.

- b. Connect the product to the computer when prompted at the **Connect your Product now** screen.



- c. Click the **Next** button.
- For wired network connected products, follow these steps:
 - a. Select the **Connect through a wired network** option.

Figure 3-2 Software installation — **Connection Type** screen for network connected installation

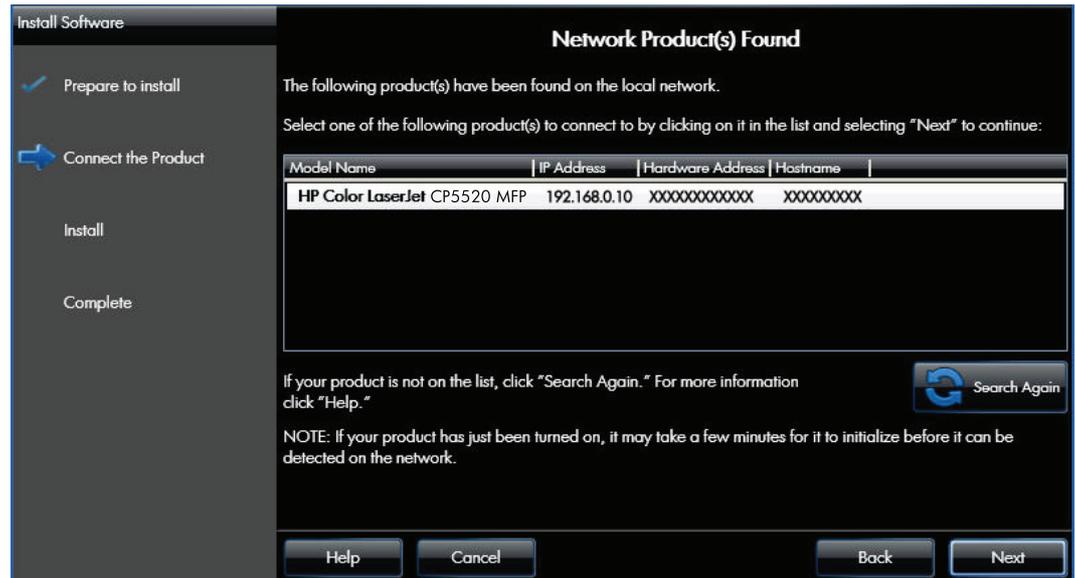


- b. If the product's network settings *are not* known, select the **Automatically find my product on the network** option.
- c. If the product's networking settings *are* known, enter either the product's host name, IP address, or hardware address.

 **NOTE:** At the product control panel, touch the **Network Address** button to identify the product IP address or host name.

- d. Click the **Next** button.
- e. A list of products is displayed on the **Network Product(s) Found** screen. Select the product to install and then click the **Next** button

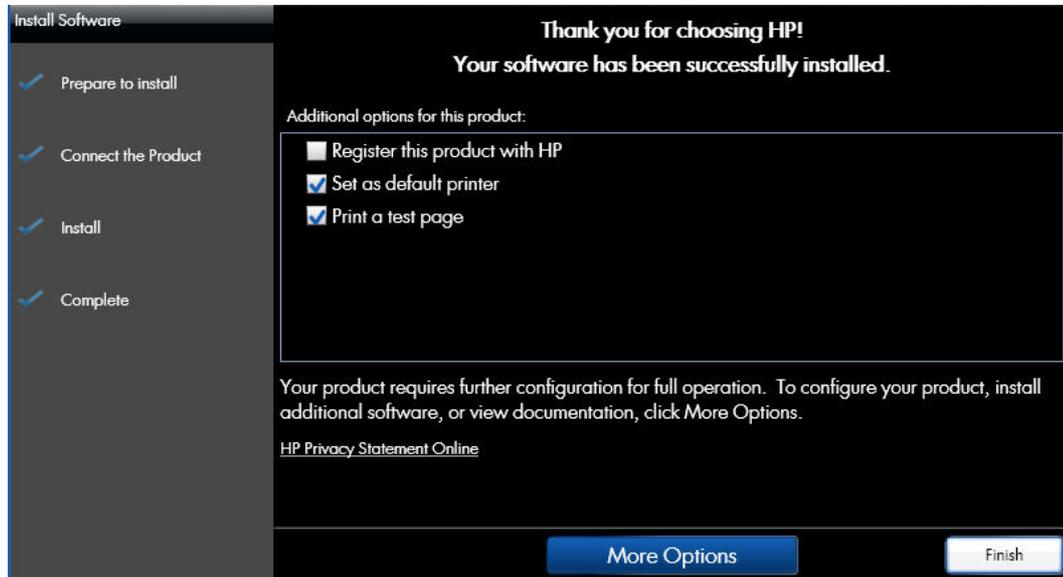
Figure 3-3 Software Installation — **Network Product(s) Found** screen



- When the installation completes, the following screen appears.

Register your product by selecting the **Register this product with HP** check box, make this product your default product by selecting the **Set as default printer** check box, and send a test page to the product by selecting the **Print a test page** check box.

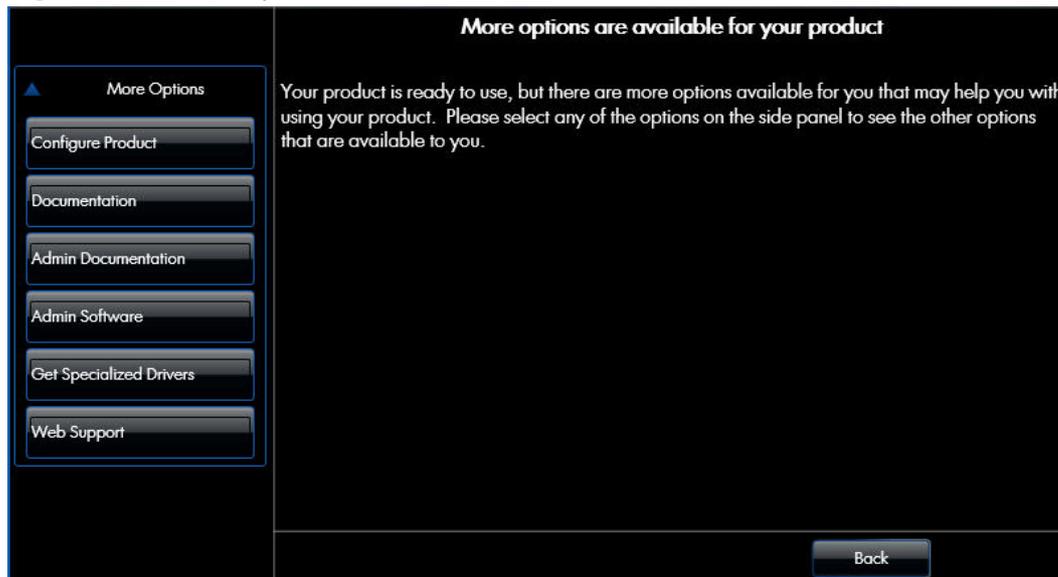
Figure 3-4 Software Installation — Driver Installation Complete screen



- Click the **Finish** button to complete the installation.

When you are finished with the installation, click the **More Options** button to open the **More Options** menu.

Figure 3-5 More Options



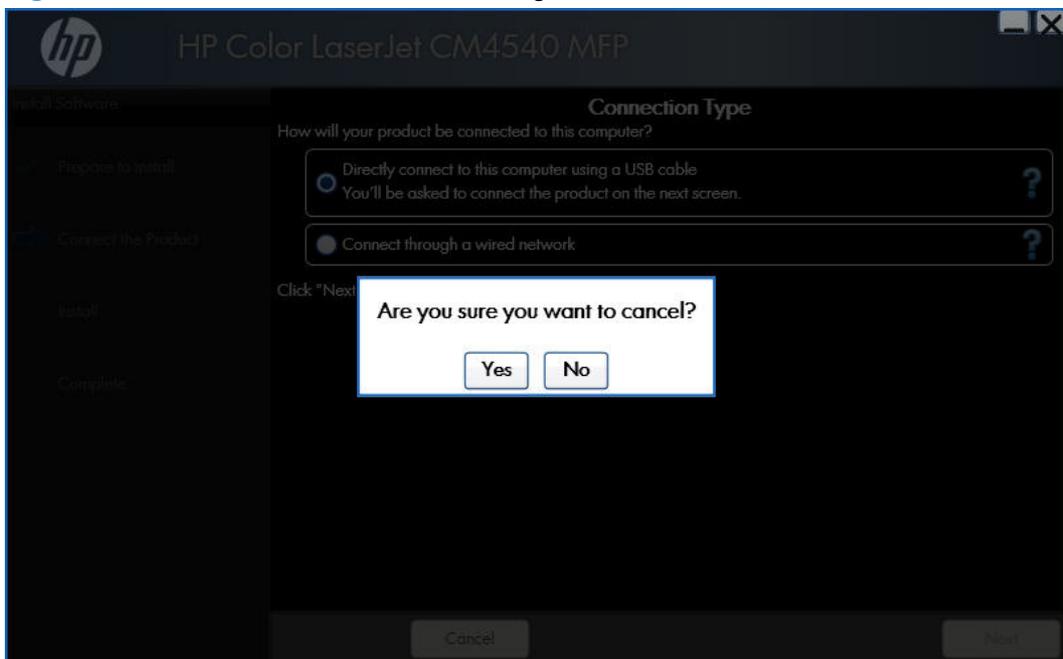
Use the options available on this screen to install additional product software and documentation.

Use the Back, Next, Finish, and Cancel buttons

The following buttons appear on various dialog boxes during the installation process.

- **Back.** Click this button to return to the previous dialog box.
- **Next.** After you select any options on a given screen, click this button to proceed to the next step in the installation sequence.
- **Finish.** Click this button to complete the installation process and proceed to the **Additional Options** screen.
- **Cancel.** Click this button to exit the installer without installing the product. When you click **Cancel**, the **Installation Cancelled** dialog box opens, stating that the installation was cancelled.

Figure 3-6 Installation Cancelled dialog box



Set a default printer

1. In Windows Vista and Windows 7, click the **Start** button, click **Control Panel**, and then click **Hardware and Sound**. Under the **Printers** section, click **Change default printer**.
In Windows XP, Windows Server 2003, and Windows Server 2008, click **Start**, click **Control Panel**, and then click **Printers and Faxes** (Windows XP Professional) or **Printers and other hardware devices** (Windows XP Home).
2. Right-click the product that you want to set as the default printer.
3. Click **Set As Default**. A check mark appears next to the product set as the default.

Install optional software

Use the following steps to install optional software programs:

1. Insert the HP Color LaserJet CP5525n software CD into the CD-ROM drive. The installer program should open.

If the installer program has not started after 30 seconds, complete these steps:

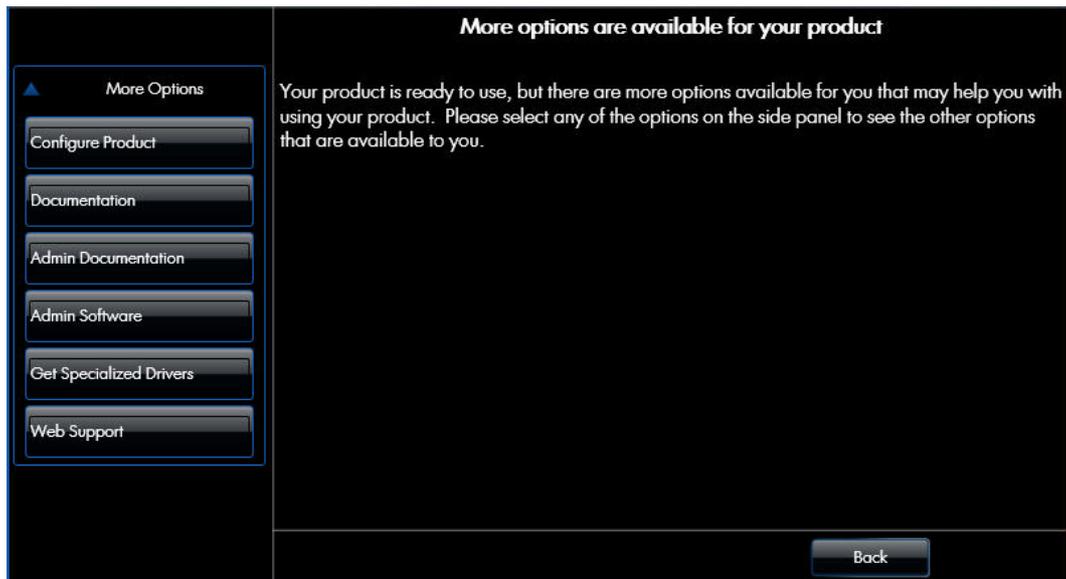
- a. On the **Start** menu, click **Run**.
 - b. Type the following: X:\SETUP.EXE (where X is the letter of the CD-ROM drive).
 - c. Click the **OK** button.
2. Click the **More Options** menu.

 **NOTE:** All of the software listed in the following steps is available via Web download only and does *not* come on the product software CD.

3. Click the **Admin Software** button to gain access to the following software:
 - **HP Universal Print Driver Portal (Online)**
 - **HP Web Jetadmin (Online)**
 - **HP Driver Deployment Utility (Online)**

- **HP Driver Configuration Utility (Online)**
 - **Eco Print Solutions Console (Online)**
4. Click the **Get Specialized Drivers** button to gain access to the following software:
- **HP Universal Print Driver Portal (Online)**
 - **HP Print View Software (Online)**

Figure 3-7 More Options



Uninstall software



NOTE: If the printer driver was installed by using the HP Driver Installation Utility, follow the instructions in the [Uninstall the printer driver by using the Windows Add or Remove Programs feature on page 31](#). If the driver was installed using the Add Printer Wizard, follow the instructions in the [Uninstall the printer driver by using the Server Properties feature on page 32](#).

Uninstall component list

You can remove the following product components from your computer by using the Windows Add or Remove Programs feature:

- HP Color LaserJet Enterprise CP5520 Series Printer PCL 6 driver

Uninstall the printer driver by using the Windows Add or Remove Programs feature

If the printer driver was installed by the HP Driver Installation Utility (HP DIU), perform the following to uninstall the driver:

 **NOTE:** You do not need the HP Color LaserJet CP5525n printing-system software CD to use this uninstall method.

 **NOTE:** To uninstall the software, you must log on with Administrator privileges.

1. Close all programs.
2. **Windows XP and Windows Server 2003:** On the **Start** menu, click **Control Panel**, and then double-click the **Add/Remove programs**.

- or -

Windows Vista: On the **Start** menu, click **Control Panel**, and then under the **Programs** menu click **Uninstall a program**.

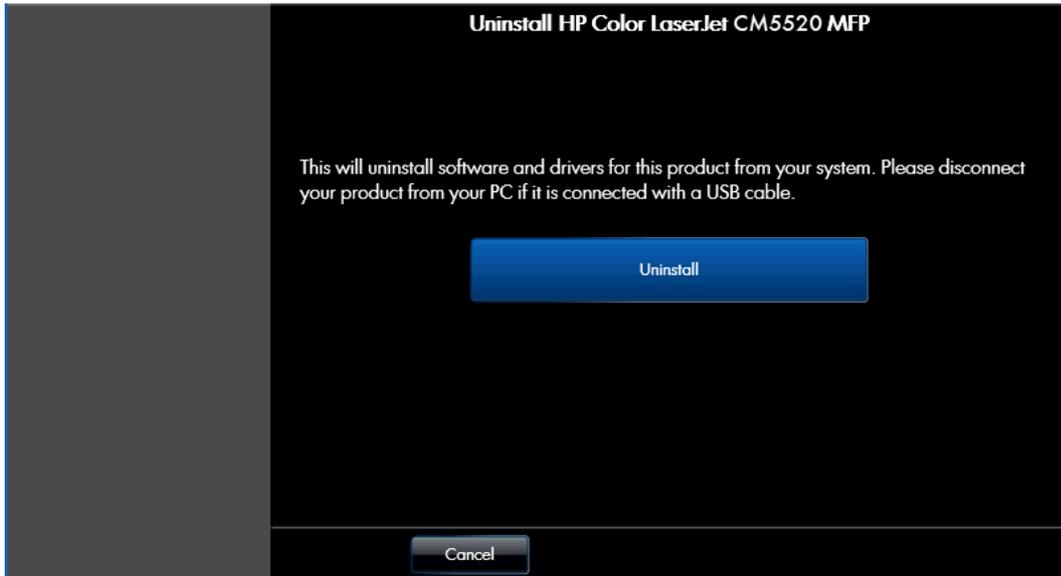
Figure 3-8 Windows Control Panel screen



3. Click **Change or Remove Programs**, select the component you want to remove, and then click **Change/Remove**. The following components might appear in the list of programs:
 - HP Color LaserJet Enterprise CP5520 Series Printer PCL 6 driver

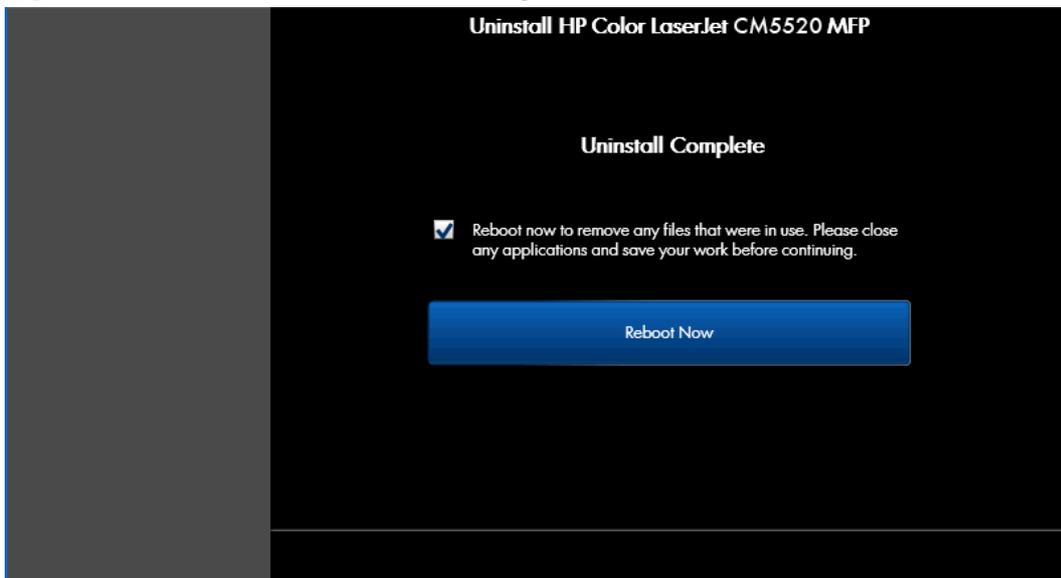
4. The HP Driver Uninstall Utility launches. Click **Uninstall** to start the uninstall process. Click **Cancel** to exit the HP Uninstall Utility.

Figure 3-9 HP Driver Uninstall Utility screen



5. When the Uninstall is complete, you will be prompted to reboot the computer. De-select the checkbox to reboot at a later time.

Figure 3-10 HP Driver Uninstall Complete screen



Uninstall the printer driver by using the Server Properties feature

If the printer driver was installed by the Add Printer Wizard, perform the following to uninstall the driver:



NOTE: To uninstall the software, you must log on with Administrator privileges.

1. Close all programs.
2. On the **Start** menu, click **Settings**, and then do one of the following:
Windows XP Professional and Windows Server 2003: Click **Printers and Faxes**.
-or-
Windows Server 2008: Click **Start**, click **Control Panel**, and then open the **Printers** folder.
-or-
Windows Vista: Under the **Hardware and Sound** category, click **Printer**.
3. Right-click the icon for your product and then click the **Delete** button. This removes the icon for the product only, but it does not remove the associated files.
4. To remove the associated files, click the **File** menu from inside the **Printers** folder, and then click **Server Properties**.
5. Click the **Driver** tab, click the name of your product, and then click the **Remove** button. When you are prompted to confirm the deletion, click the **Yes** button.
6. Click the **Close** button to close the **Server Properties** screen, and then close the **Printers** folder.

4 HP PCL 6 print driver for Windows

Introduction

This chapter describes the features of the HP Color LaserJet Enterprise CP5520 Series Printer PCL 6 Print Driver for, Windows XP (32-bit), Windows Server 2003 (32-bit), Windows Server 2008 (32-bit and 64-bit), Windows Vista (32-bit and 64-bit), and Windows 7 (32-bit and 64-bit).

You can control print jobs from several places:

- the product control panel
- the software program print dialog box
- the driver user interface

Generally, for features that are duplicated in more than one location (for instance, you can select the paper input tray from any of them), settings that are established in the software program take precedence over print-driver settings. Print-driver settings, in turn, override product control-panel settings.

When you install the printing-system software in Windows, the HP PCL 6 Print Driver is installed by default through the installer. The HP PS Universal Print Driver and the HP PCL 5 Universal Print Driver and the HP PCL 6 Universal Print Driver can be installed by downloading the software from the Web.

Topics:

- [Change the printer driver settings for Windows](#)
- [Help system](#)
- [Advanced tab features](#)
- [Printing Shortcuts tab features](#)
- [Paper/Quality tab features](#)
- [Effects tab features](#)
- [Finishing tab features](#)
- [Job Storage tab features](#)
- [Color tab features](#)
- [Services tab features](#)

- [Device Settings tab features](#)
- [About tab features](#)

Change the printer driver settings for Windows

Operating System	To change the settings for all print jobs until the software program is closed	To change the default settings for all print jobs	To change the device configuration settings
Windows 7, XP, Server 2003, and Vista	<ol style="list-style-type: none"> 1. On the File menu in the software program, click Print. 2. Select the driver, and then click Properties or Preferences. <p>The steps can vary; this procedure is most common.</p>	<ol style="list-style-type: none"> 1. Click Start, click Settings, and then click Devices and Printers (Windows 7) or Printers and Faxes (Windows XP Professional and Server 2003) or Printers and Other Hardware Devices (Windows XP Home). For Windows Vista, click Start, click Control Panel, and then click Printer. 2. Right-click the driver icon, and then select Printing Preferences. 	<ol style="list-style-type: none"> 1. Click Start, click Settings, and then click Devices and Printers (Windows 7) or Printers and Faxes (Windows XP Professional and Server 2003) or Printers and Other Hardware Devices (Windows XP Home). For Windows Vista, click Start, click Control Panel, and then click Printer. 2. Right-click the driver icon, and then select Properties. 3. Click the Configure tab or the Device Settings tab.

To gain access to driver settings from within most software programs, click **File**, click **Print**, and then click **Properties**. The appearance and names of the driver tabs that appear can vary, depending on the operating system. These settings apply only while the software program is open.

You can also control the driver directly from the **Printers** folder. These settings change the default settings for all software programs.

- In Windows 7, click **Start**, select **Devices and Printers**, right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.
- In Windows XP, click **Start**, select **Settings**, select **Printers and Faxes** (Windows XP Professional) or **Printers and Other Hardware Devices** (Windows XP Home), right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.
- In Windows Vista, click **Start**, select **Settings**, select **Printers**, right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.

Click **Properties** after right-clicking the device name to gain access to the **Properties** tab set, which controls the driver behavior and driver connections.

Properties tab set

The **Properties** tab set contains information about and options for configuring the product.

 **NOTE:** Windows also has tabs in the **Properties** tab set. For information about those tabs, see the documentation that came with the computer.

Printing Preferences tab set

The HP Color LaserJet Enterprise CP5520 Series Printer product **Printing Preferences** tabs contain options for formatting documents for the product. Gain access to the **Printing Preferences** tabs either through the software program or through the Windows **Printers and Faxes** folder.

The following tabs are included in **Printing Preferences** tab set:

- Advanced
- Printing Shortcuts
- Paper/Quality
- Effects
- Finishing
- Job Storage
- Color
- Services

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The document preview image appears in the upper-right corner of all **Printing Preferences** tabs except the **Services** and **Job Storage** tabs.

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

Help system

The HP PCL 6 Print Driver includes a full-featured Help system to provide assistance with printing and configuration options.

“What's this?” Help

Windows XP, Windows Server 2003, Windows Server 2008, Windows Vista, and Windows 7 support **What's this?** Help. You can gain access to “What's this?” Help messages in any of the following ways:

- Right-click a feature or control. A pop-up Help window appears.
- Click a feature or control, and then press the **F1** key. The Help window for the currently selected control appears.

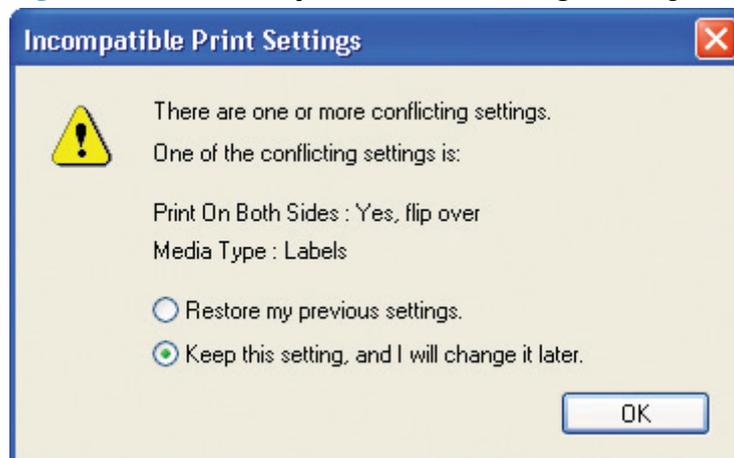
Incompatible Print Settings messages

Incompatible Print Settings (constraint) messages are unsolicited messages that appear in response to specific print-driver selections. These messages alert you to selections that are illogical or impossible given the product capabilities or the current settings of other controls.

 **NOTE:** Constraint messages are limited, and the underlying software architecture might accept some settings that are illogical or impossible for the product to perform. Sending a job with incompatible settings can lead to unexpected results. If print jobs do not print as expected, check the product documentation for the product capabilities.

In supported Windows operating environments, some technically invalid print-driver configurations result in warning messages. Duplexing, for example, is not possible when the Transparency paper type is selected. The following figure shows an **Incompatible Print Settings** message.

Figure 4-1 An **Incompatible Print Settings** message



To resolve the conflicting settings, click **Restore my previous settings.**, and then click **OK**. The driver resets the conflicting control back to its previous state.

If you want to keep the conflicting setting, click **Keep this setting, and I will change it later.**, and then click **OK**.

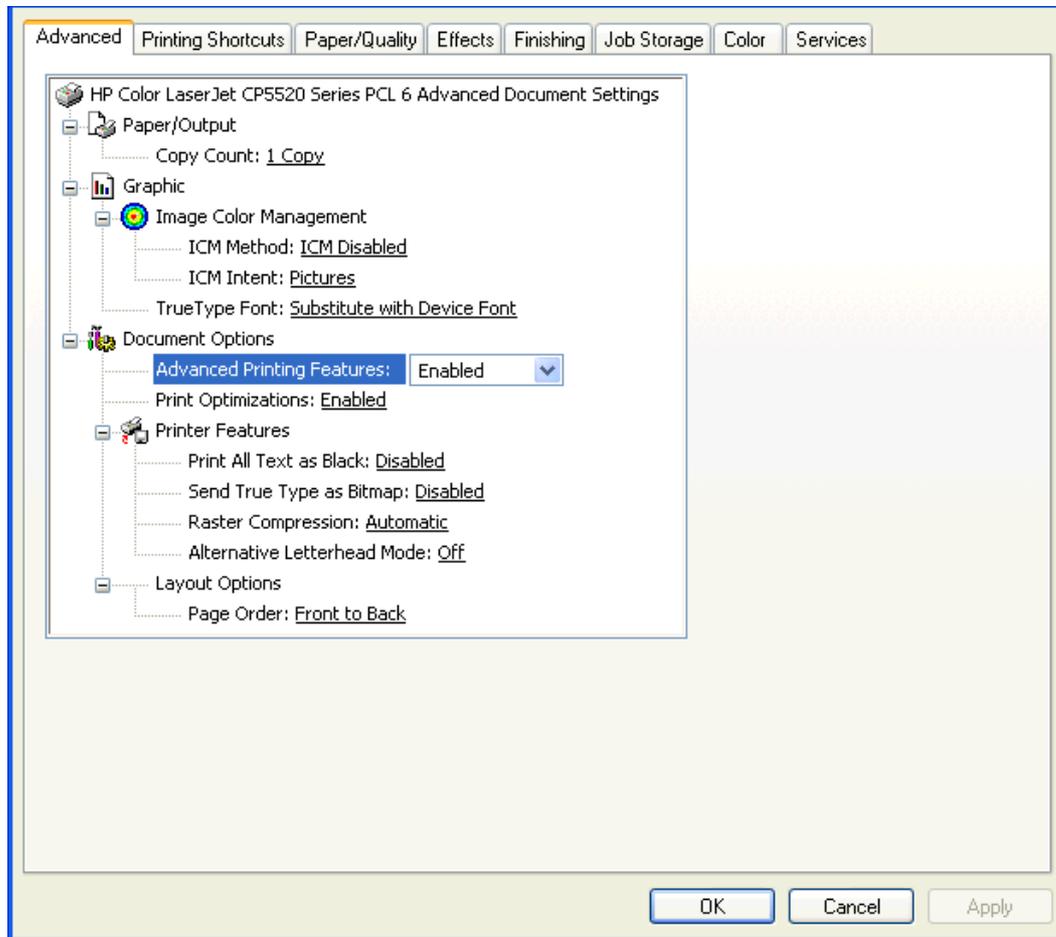
 **NOTE:** In this example, the conflict can be resolved manually. If the conflict is not resolved when the driver is closed, then the same dialog appears again when a print job is sent to the product.

Advanced tab features

 **NOTE:** The **Advanced** tab is located on the **Printing Preferences** tab set.

Use the **Advanced** tab to change the layout of printed pages. Use this tab to configure special controls that are not commonly used, as well as to control features such as collating and copies in the driver (although most current software programs support these features in the print dialog box or through the page settings in the software program). The following figure shows the **Advanced** tab.

Figure 4-2 The default appearance of the **Advanced** tab



The **Advanced** tab contains the following controls:

- [Paper/Output](#)
- [Graphic](#)
- [Document Options](#)

Paper/Output

The **Paper/Output** setting contains the **Copy Count** setting.

Copy Count

Copy Count specifies the number of copies to print. This driver setting is useful for software programs that do not provide a copy count. If a copy count is available in the software program, set the copy count in the software program.

The number of copies that you request appears in the **Copy Count** option. You can select the number by typing in the text box or by using the up and down arrows to the right of the text box. Valid entries are numbers from 1 to 9999. The copies value will not advance from the maximum number (9999) to 1 when the up arrow is used, or change from 1 to the maximum number (9999) when the down arrow is used. When you click another group box or leave the **Advanced** tab, invalid entries into the text box (such as non-numerical input, numbers less than 1, or numbers greater than the maximum allowed) are changed to the last valid value that appeared in the text box. The default number of copies is 1.

Because you can set the number of copies that you want from some software programs, conflicts between the software program you are using and the driver can arise. In most cases, the software program and the driver communicate, so that the number of copies set in one location (such as the program) will appear in the other (such as the driver). For some programs, this communication does not take place, and the copies values are treated independently. For these programs, setting 10 copies in the program and then setting 10 copies in the driver will result in 100 copies (10 x 10) being printed. It is recommended that you set the number of copies in the program, whenever possible.

When the **Copy Count** option is set to more than 1, the **Collated** check box becomes available. Select this check box when you want the product to collate the printed copies. Most current software programs support the collating feature in the print dialog box or through the page settings in the software program.

Graphic

The **Graphic** setting contains the following controls:

- **Image Color Management** settings
- **True Type Font** settings

Image Color Management

This control lists the available Image Color Management (ICM) options used for printing color graphics. ICM, a set of calculations for color matching, makes it possible for programs to adjust colors before printing so that the color of images on the screen more closely match the color of those images when they are printed.



NOTE: The ICM control is typically set to **ICM Disabled**.

True Type Font

Use **Substitute with Device Font** (the default setting) to print documents that contain TrueType fonts by using equivalent printer fonts. This permits faster printing; however, you might lose special characters that the equivalent printer font does not support. Select **Download as Softfont** to download TrueType fonts for printing instead of using printer fonts.

Document Options

The **Document Options** setting contains the following controls:

- [Advanced Printing Features](#)
- [Print Optimizations](#)
- [Printer Features](#)
- [Layout Options](#)

Advanced Printing Features

When the **Advanced Printing Features** setting is **Enabled**, metafile spooling is turned on and **Finishing** tab options such as **Page Order**, **Booklet Layout**, and **Pages per Sheet** are available, depending on your product.

Enhanced metafile spooling is used to greatly reduce the amount of time that elapses between a request to print (initiated by an application) and the return of control to the application by the operating system.

For normal printing, leave the **Advanced Printing Features** setting at the default (**Enabled**). If compatibility problems occur, you can disable the feature. However, some advanced printing features might still appear in the print driver, even though they have been disabled. If you select an advanced printing feature in the print driver that has been disabled on the **Advanced** tab, the feature is automatically re-enabled.

Print Optimizations

The default setting for **Print Optimizations** is **Enabled**. When this feature is enabled and your document contains overlapping text and graphics, the text that is placed on top of a graphic might not print correctly. If the printed output is not correct, you can disable this feature. When this feature is disabled, print optimization-features, such as substituting device fonts for TrueType fonts and scanning for horizontal and vertical rules, are turned off.

Printer Features

The **Printer Features** setting contains the following controls:

- **Print All Text as Black**

The feature is **Disabled** by default. When **Enabled** is selected, the driver prints all text as black regardless of the original document text color. Color text is printed as black, except for white text, which remains white. (White text is a reliable method of printing reverse typeface against a dark background.) This setting does not affect graphic images on the page, nor does it affect any text that is part of a graphic.

- **Send True Type as Bitmap**

Send True Type as Bitmap provides an alternative for software programs that have trouble using TrueType fonts for special graphic aspects such as shading, rotation, or slanting. The setting is **Disabled** (off) by default. The TrueType fonts are converted to bitmap soft fonts before downloading. The **Enabled** setting causes the driver to send TrueType fonts to the product as outlines, which retains the standard format (outline) of the fonts.

- **Raster Compression**

Use the **Raster Compression** feature to select the graphics-compression method:

- **Automatic.** The software determines the best compression method to use.
- **Best Quality.** This option forces the software to use a lossless compression method. (Lossless means that no data is lost during compression.)
- **Maximum Compression.** Where applicable, this option requires the software to always use a lossy compression method (some data is lost).

- **Alternative Letterhead Mode**

When selected, this option eliminates the need to flip or reload letterhead or preprinted paper in a tray, whether you are printing on one or both sides of the sheet. Load the paper as you would for printing on both sides. If the product tray has an icon that indicates whether to load paper either face-up or face-down, load the paper in opposite orientation of that shown.

When this option is selected, you must use one of the following options in the **Paper type** setting:

- Letterhead
- Preprinted



NOTE: Because **Alternative Letterhead Mode** is available only if the product is equipped with an automatic duplexing unit, the HP Color LaserJet CP5525n does not support this option.

Layout Options

The **Layout Options** setting contains the **Page Order** setting.

Page Order specifies the order in which the pages of your document are printed. **Front to Back** prints the document so that page 1 prints first. **Back to Front** prints the document so that page 1 prints last.

 **NOTE:** The page-ordering operation works on whole sheets of paper rather than on individual logical pages. Accordingly, if you set **Pages per Sheet** (on the **Finishing** tab) to be greater than one, the ordering of logical pages on a physical sheet of paper does not change.

Printing Shortcuts tab features

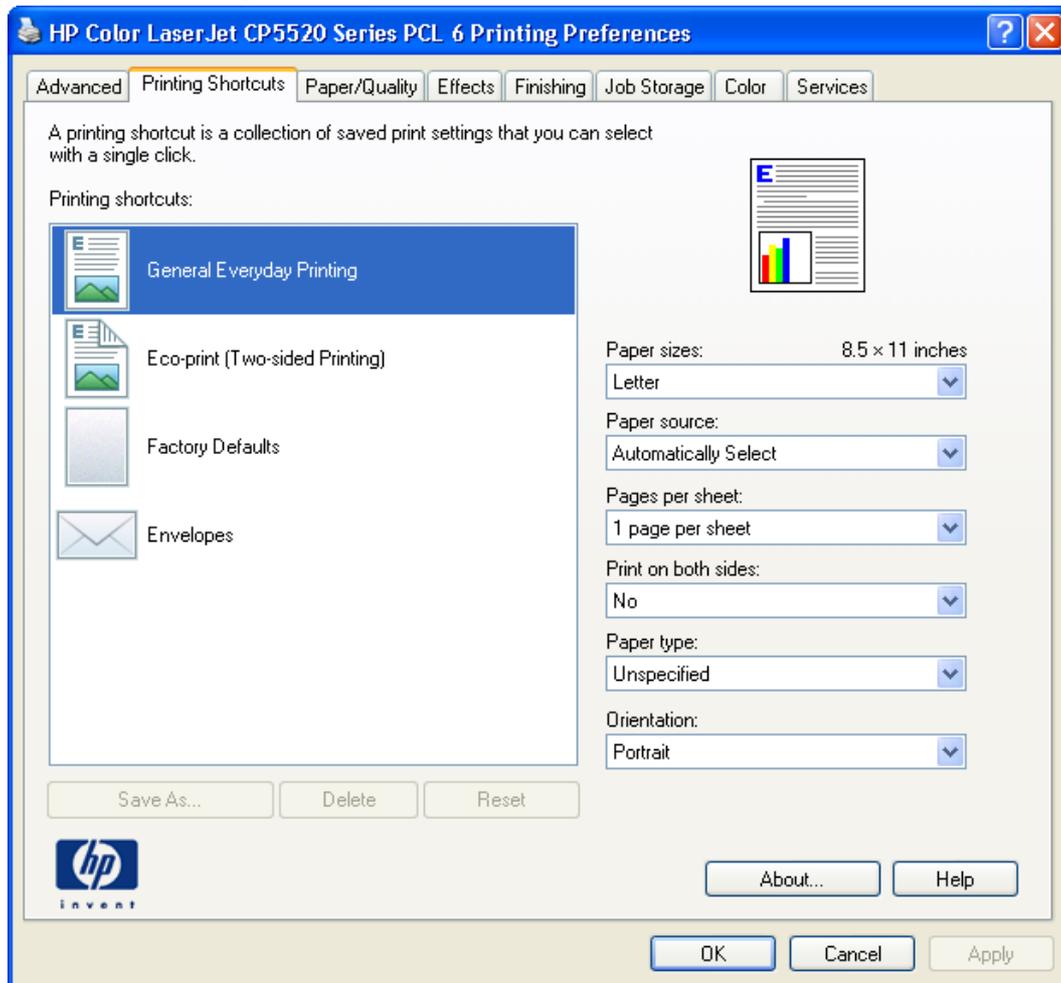
- [Use defined printing shortcuts](#)
- [Create a custom printing shortcut](#)

 **NOTE:** The **Printing Shortcuts** tab is located on the **Printing Preferences** tab set.

Use the **Printing Shortcuts** tab to store specific combinations of driver settings for easy use.

The following figure shows the **Printing Shortcuts** tab.

Figure 4-3 Printing Shortcuts tab



The **Printing Shortcuts** tab is a new tab that appears on the HP PCL 6 Print Driver beginning with the HP Color LaserJet CM4730 MFP. In previous drivers, the Print Task Quick Sets appeared in most of the driver tabs, and was used to capture commonly used driver settings. Like Quick Sets, the **Printing Shortcuts** tab saves commonly used driver settings under a shortcut name.

- [Use defined printing shortcuts](#)
- [Create a custom printing shortcut](#)

Use defined printing shortcuts

The **Printing Shortcuts** tab contains the following pre-defined shortcuts:

- [General Everyday Printing](#)
- [Eco-print \(Two-sided Printing\)](#)
- [Factory Defaults](#)
- [Envelopes](#)

General Everyday Printing

When **General Everyday Printing** is selected, the following controls are available:

- **Paper sizes: Letter** (This setting changes according to country/region.)
- **Paper source: Automatically Select**
- **Pages per sheet: 1 page per sheet**
- **Print on both sides: No**
- **Paper type: Unspecified**
- **Orientation: Portrait**

When options other than the defaults are selected, the **Save as...** and **Reset** buttons become active.

Click **Save as...** to create a custom printing shortcut.

Click **Reset** to change customized settings back to the default settings.

Paper sizes

The following options are available:

- **Letter** (default)
- **Legal**
- **Executive**
- **Statement**
- **8.5x13**
- **11x17**
- **12x18**
- **3x5**
- **4x6**
- **5x7**

- **5x8**
- **A3**
- **A4**
- **A5**
- **A6**
- **RA3**
- **SRA3**
- **RA4**
- **SRA4**
- **B4 (JIS)**
- **B5 (JIS)**
- **B6 (JIS)**
- **10x15 cm**
- **8k 270x390 mm**
- **16k 195x270 mm**
- **8k 260x368 mm**
- **16k 184x260 mm**
- **8k 273x394 mm**
- **16k 197x273 mm**
- **Japanese Postcard**
- **Double Japan Postcard Rotated**
- **Envelope #9**
- **Envelope #10**
- **Envelope Monarch**
- **Envelope B5**
- **Envelope C5**
- **Envelope C6**
- **Envelope DL**

Paper source

The following options are available:

- **Automatically Select** (default)
- **Printer auto select**
- **Manual Feed in Tray 1**
- **Tray 1**
- **Tray 2**
- **Tray 3**
- **Tray 4** (available on HP Color LaserJet CP5525xh)
- **Tray 5** (available on HP Color LaserJet CP5525xh)
- **Tray 6** (available on HP Color LaserJet CP5525xh)

Pages per sheet

The following options are available:

- **1 page per sheet** (default)
- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**

Print on both sides



NOTE: Because the HP Color LaserJet CP5525n does not include a duplexing unit, the **Print on both sides** option is available, but duplexing is a manual process.

The following options are available:

- **No** (default)
- **Yes, Flip Over**
- **Yes, Flip Up**

Paper type

The following options are available:

- **Unspecified** (default)
- **Plain**
- **HP Color Laser Matte 105g**
- **HP Premium Choice Matte 120g**
- **HP Color Laser Brochure Matte 160g**
- **HP Superior Laser Matte 160g**
- **HP Cover Matte 200g**
- **HP Matte Photo 200g**
- **HP Presentation Soft Gloss 120g**
- **HP Professional Soft Gloss 120g**
- **HP Presentation Glossy 130g**
- **HP Professional Laser Glossy 130g**
- **HP Color Laser Brochure Glossy 160g**
- **HP Superior Laser Glossy 160g**
- **HP Color Laser Photo Glossy 220g**
- **Light 60-74g**
- **Mid-Weight 96-110g**
- **Heavy 111-130g**
- **Extra Heavy 131-175g**
- **Cardstock 176-220g**
- **Mid-Weight Glossy 96-110g**
- **Heavy Glossy 111-130g**
- **Extra Heavy Glossy 131-175g**
- **Card Glossy 176-220g**
- **Color Laser Transparency**
- **Labels**
- **Letterhead**
- **Envelope**

- **Preprinted**
- **Prepunched**
- **Colored**
- **Bond**
- **Recycled**
- **Rough**
- **HP Tough Paper**
- **Opaque Film**

Orientation

The following options are available:

- **Portrait** (default)
- **Landscape**

Eco-print (Two-sided Printing)

 **NOTE:** Because the HP Color LaserJet CP5525n does not include a duplexing unit, the **Eco-print (Two-sided Printing)** option is available, but duplexing is a manual process.

When **Eco-print (Two-sided Printing)** is selected, the following options are selected.

- **Paper sizes: Letter** (This setting changes according to country/region.)
- **Paper source: Automatically Select**
- **Pages per sheet: 1 page per sheet**
- **Print on both sides: Yes, flip over**
- **Paper type: Unspecified**
- **Orientation: Portrait**

Factory Defaults

When **Factory Defaults** is selected, the customizable options are grayed out, locking in those default options.

The **Factory Defaults** are as follows:

- **Paper sizes: Letter** (This setting changes according to country/region.)
- **Paper source: Automatically select**
- **Pages per sheet: 1 page per sheet**
- **Print on both sides: No**

- **Paper type: Unspecified**
- **Orientation: Portrait**
- **Color options: Color**

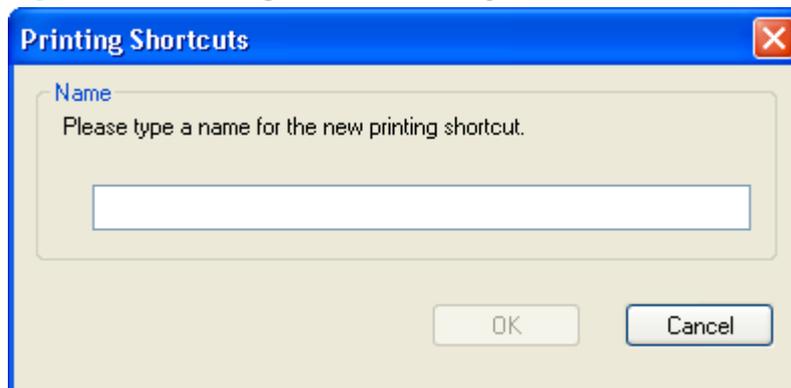
Envelopes

- **Paper sizes: Envelope #10**
- **Paper source: Automatically Select**
- **Paper type: Unspecified**
- **Orientation: Portrait**

Create a custom printing shortcut

1. Select **General Everyday Printing** as a base.
2. Select the appropriate print settings on the **Printing Shortcuts** tab or use the settings on any of the **Printing Preferences** tabs.
3. On the **Printing Shortcuts** tab, click **Save As...** The **Printing Shortcuts** dialog box appears.

Figure 4-4 Printing Shortcuts dialog box



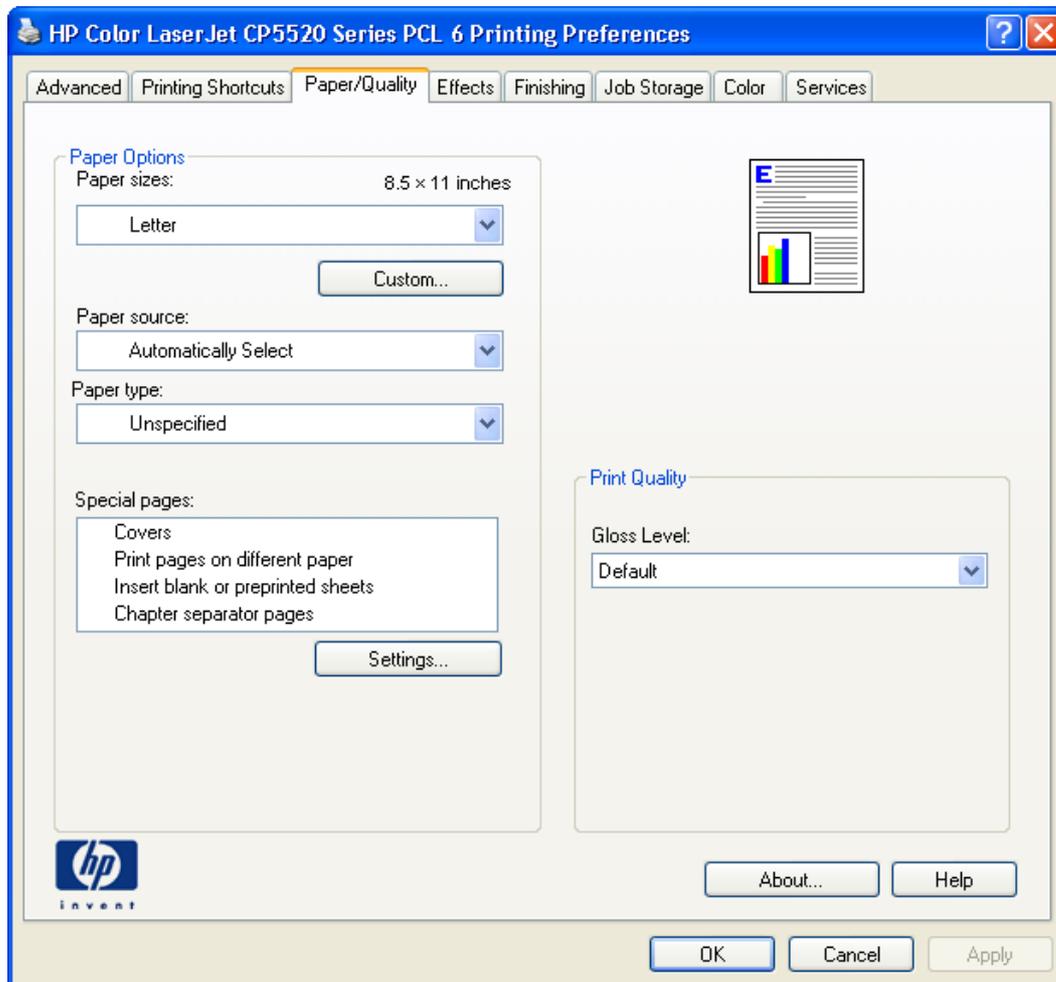
4. Type a name for the custom printing shortcut, and then click **OK**. The custom printing shortcut appears in the **Printing Shortcuts** list.
5. To delete a custom printing shortcut, click the custom shortcut, then click the **Delete** button.

Paper/Quality tab features

 **NOTE:** The **Paper/Quality** tab is located on the **Printing Preferences** tab set.

Use the **Paper/Quality** tab to specify paper size, type, and source. You can also use this tab to specify different paper selections for the front cover, first page, other pages, last page, and back cover of the document. The following figure shows the **Paper/Quality** tab.

Figure 4-5 Paper/Quality tab



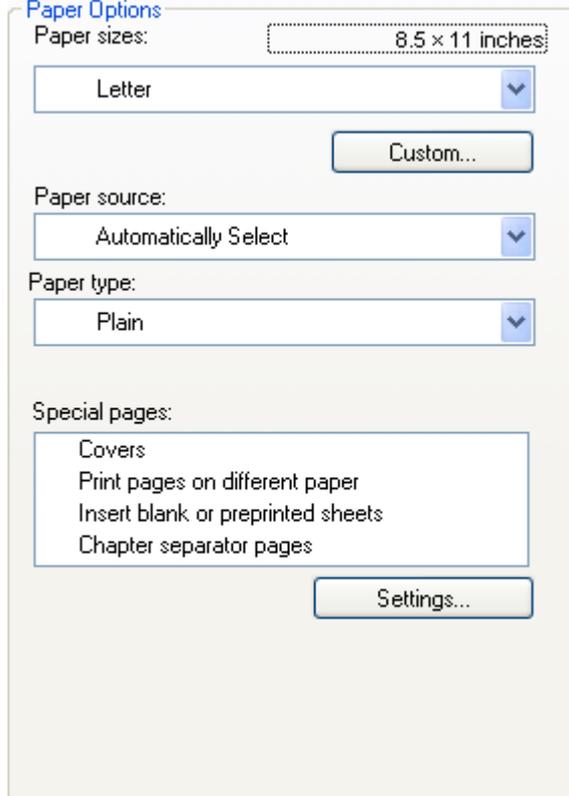
The **Paper/Quality** tab contains the following control sets:

- [Paper Options](#)
- [Document preview image](#)
- [Print Quality](#)

Paper Options

The settings specified in the **Paper Options** group box on the **Paper/Quality** tab apply to all of the pages of the document. The following figure shows the **Paper Options** group box and the selections that are available by default.

Figure 4-6 Paper Options group box



The settings in the **Paper Options** group box are described in the following order:

- [Paper sizes](#)
- [Custom Paper Size](#)
- [Paper source](#)
- [Paper type](#)
- [Special pages](#)

Paper sizes

The **Paper sizes** setting is a drop-down menu that lists all of the supported paper sizes.

When you move the mouse over the dimensions label, the mouse cursor changes from an arrow to a gloved hand. Click the dimensions label to toggle between English and metric units.

Because paper-size settings in most software programs override driver settings, it is generally best to use the driver to set paper size only when you are printing from software programs that do not include

a paper-size setting, such as NotePad, or when you are producing a book or a booklet that does not require different paper sizes.

 **NOTE:** Certain software programs can override the size command and specify different paper sizes within a single document.

When you change the print-driver setting to a paper size that is not currently loaded in the product, a control-panel message appears that prompts you to load the paper size or select another tray.

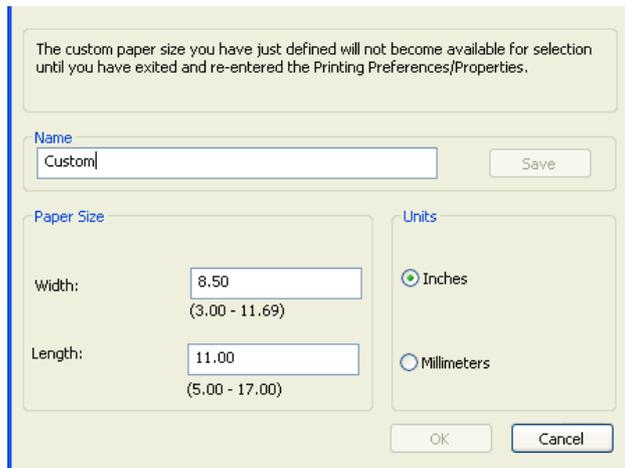
For information about paper sizes, see [Media attributes and commands on page 151](#) .

When the **Settings** under the **Special Pages** section have been changed, the **Paper sizes**, **Paper source**, and **Paper type** menus change also, offering a variety of options. For more information, see [Special pages on page 58](#).

Custom Paper Size

The **Custom Paper Size** dialog box appears when you click **Custom...** on the **Paper/Quality** tab. The following figure shows the initial appearance of the **Custom Paper Size** dialog box.

Figure 4-7 Custom Paper Size dialog box



 **NOTE:** The HP Color LaserJet Enterprise CP5520 Series Printer product supports custom paper sizes up to 18.5 inches in length and 12.3 inches in width. The driver will be updated to enable printing to the maximum size.

Name

Use the **Name** text box to type a new name for a custom paper size. When you change the name to something other than **Custom**, the **Save** and **OK** buttons become active.

The name that appears in the **Name** text box depends on the following conditions:

- If a saved custom paper size has been selected from the drop-down menu on the **Paper/Quality** tab, then the **Name** text box shows the name of the selected custom paper size.
- If a standard paper size has been selected on the **Paper/Quality** tab, then the **Name** text box shows the default name of **Custom**.
- If a new name has been typed into the **Name** text box for the purpose of saving a new size or renaming an existing size, then that new name will remain in the text box until the new size is saved or the dialog box is closed.

If you type a new name into the **Name** text box, but then do not click **Save**, you can change the width and height values without losing the name. However, if you close the dialog box without clicking **Save**, any unsaved name or size values are lost without warning.

Paper size

The width and height values can be changed by typing numeric strings into the edit boxes in the **Paper Size** group box.

Any entry that is greater than the maximum limits of the width and height control is rounded down to the maximum valid entry, while any entry that is smaller than the minimum limits of the width and height control is rounded up to the minimum valid entry.

If units are in millimeters, the custom paper-size range minimum is the limit rounded up to the nearest whole millimeter. The custom paper-size range maximum is the limit rounded down to the nearest whole millimeter. Any non-numerical entry reverts to the minimum value. Width and height entries are validated when the focus has changed.

The resolution of each control is 1 millimeter or 1/10 of an inch, depending on the current measurement units.

Units

To change measurement units, click one of the options in the **Units** group box (either **Inches** or **Millimeters**).

Custom width and height control limits

The minimum paper size for the HP Color LaserJet Enterprise CP5520 Series Printer product is 76 x 127 mm (3 x 5 in) and the maximum in Tray 1 is 312/320 x 470 mm (12.3/12.6 x 18.5 in). The following table summarizes paper size limits for each paper-handling device.

 **NOTE:** Custom media width is limited to 312 mm (12.3 in). However, SRA3, which is 320 mm (12.6 in) wide, is supported. The maximum printable image is 302 mm (11.9 in) wide. With the required blank 5 mm (0.2 in) margins on each side for printing, any media wider than 312 mm (11.9 in) will have its image centered and limited to 302 mm wide.

Table 4-1 PCL 6 custom paper sizes

Tray	Dimensions	Minimum	Maximum
Tray 1 (100-sheet multipurpose)	Width	76 mm (3 in)	320 mm (12.6 in)
	Length	127 mm (5 in)	356 mm (18.5 in)
Tray 2 (250-sheet)	Width	148.0 mm (5.83 in)	297 mm (11.7 in)
	Length	182.0 mm (7.1 in)	432 mm (17.0 in)
Trays 3 – 6 (500-sheet)	Width	148.0 mm (5.8 in)	297 mm (11.7 in)
	Length	210 mm (8.27 in)	432 mm (17.0 in)

Paper source

The **Paper source** setting specifies the source tray to use for printing a document. The list of source trays depends on the product accessories that are installed. Any optional source trays that are installed through the **Device Settings** tab also appear here.

The **Paper source** drop-down menu can contain the following options, depending on what has been installed on the product:

- **Automatically select**
- **Printer Auto Select**
- **Manual Feed in Tray 1**
- **Tray 1** (100-sheet multipurpose tray)
- **Tray 2** (250-sheet tray)
- **Tray 3** (500-sheet paper tray)
- **Tray 4** (HP Color LaserJet CP5525xh only; 3x500–sheet paper feeder optional on all other HP Color LaserJet Enterprise CP5520 Series Printer models).
- **Tray 5** (HP Color LaserJet CP5525xh only; 3x500–sheet paper feeder optional on all other HP Color LaserJet Enterprise CP5520 Series Printer models).
- **Tray 6** (HP Color LaserJet CP5525xh only; 3x500–sheet paper feeder optional on all other HP Color LaserJet Enterprise CP5520 Series Printer models).

The default setting is **Automatically Select**. When this setting is selected, the HP Color LaserJet Enterprise CP5520 Series Printer uses the source tray that supports the paper size that you have selected. If you select a source tray other than **Automatically select**, make sure that the correct paper size is loaded in the source tray. For information about paper sources, see [Media attributes and commands on page 151](#).

Paper type

The **Paper type** drop-down menu shows the first few paper types that the HP Color LaserJet Enterprise CP5520 Series Printer supports and an entry for **More**. Clicking **More** opens the **Type Is** dialog box.

Click the + next to **Type Is** and its subcategories to view all of the paper types that the product supports, listed in the following categories.

- **Everyday <96g**
 - **Unspecified**
 - **Plain**
 - **Light 60-74g**
 - **Bond**
 - **Recycled**

- **Presentation 96-130g**
 - **HP Color Laser Matte 105g**
 - **HP Premium Choice Matte 120g**
 - **HP Presentation Soft Gloss 120g**
 - **HP Professional Soft Gloss 120g**
 - **HP Presentation Glossy 130g**
 - **HP Professional Laser Glossy 130g**
 - **Mid-Weight 96-110g**
 - **Heavy 111-130g**
 - **Mid-Weight Glossy 96-110g**
 - **Heavy Glossy 111-130g**

- **Brochure 131-175g**
 - **HP Color Laser Brochure Matte 160g**
 - **HP Superior Laser Matte 160g**
 - **HP Color Laser Brochure Glossy 160g**
 - **HP Superior Laser Glossy 160g**
 - **Extra Heavy 131-175g**
 - **Extra Heavy Glossy 131-175g**

- **Photo/Cover 176-220g**
 - **HP Cover Matte 200g**
 - **HP Matte Photo 200g**
 - **Cardstock 176-220g**

- **Card Glossy 176-220g**
- **HP Color Laser Photo Glossy 220g**
- **Other**
 - **Color Laser Transparency**
 - **Labels**
 - **Letterhead**
 - **Envelope**
 - **Preprinted**
 - **Prepunched**
 - **Colored**
 - **Rough**
 - **HP Tough Paper**
 - **Opaque Film**

The default setting is **Unspecified**.

No mechanism exists for manually adding custom paper types through the driver. Use HP Web Jetadmin to add custom paper types. Custom types can be added only by using bidirectional communication, so they must already exist in the product when the bidirectional query occurs. If bidirectional communication is enabled, then an updated list of paper types is returned. If bidirectional communication is not enabled, then the driver looks for custom paper types that have been saved from a previous bidirectional communication query, and uses those. Otherwise, no custom paper types are available through the driver.

 **NOTE:** To download a current version of HP Web Jetadmin and for the latest list of supported host systems, go to the following Web site:

www.hp.com/go/webjetadmin

If you select a setting other than the default, make sure that the correct paper type is loaded in the tray that you selected in the **Paper source** setting. For more information about paper types, see [Media attributes and commands on page 151](#).

When you change the print-driver setting to a paper type that is not currently loaded in the product, a control-panel message appears that prompts you to load the paper type or select another tray.

Special pages

To specify special pages to be used, click the **Settings** button under **Special Pages**.

Covers

To use specific cover settings, click **Covers** in the **Special Pages** group box.

Use the **Covers** options to include a blank or preprinted cover on a document, or to include a front/back cover from a source tray that is different from the one used for the remainder of the document.

The following are the **Covers** options:

- **Add a blank or preprinted cover:** Select which cover is customized: **Front**, **Back**, or **Both**.
- **Paper source:** The **Paper source** setting specifies the source tray to use for adding a front and/or back cover to the document. The list of source trays depends on the accessories that are installed. Any optional trays that are installed through the **Device Settings** tab also appear here.
- **Paper type:** The **Paper type** setting specifies the paper size to use for front and/or back covers. Changes made to the **Paper type** setting here override any previous **Paper type** settings using the same paper source.

 **NOTE:** The same size of paper will be used for the entire print job.

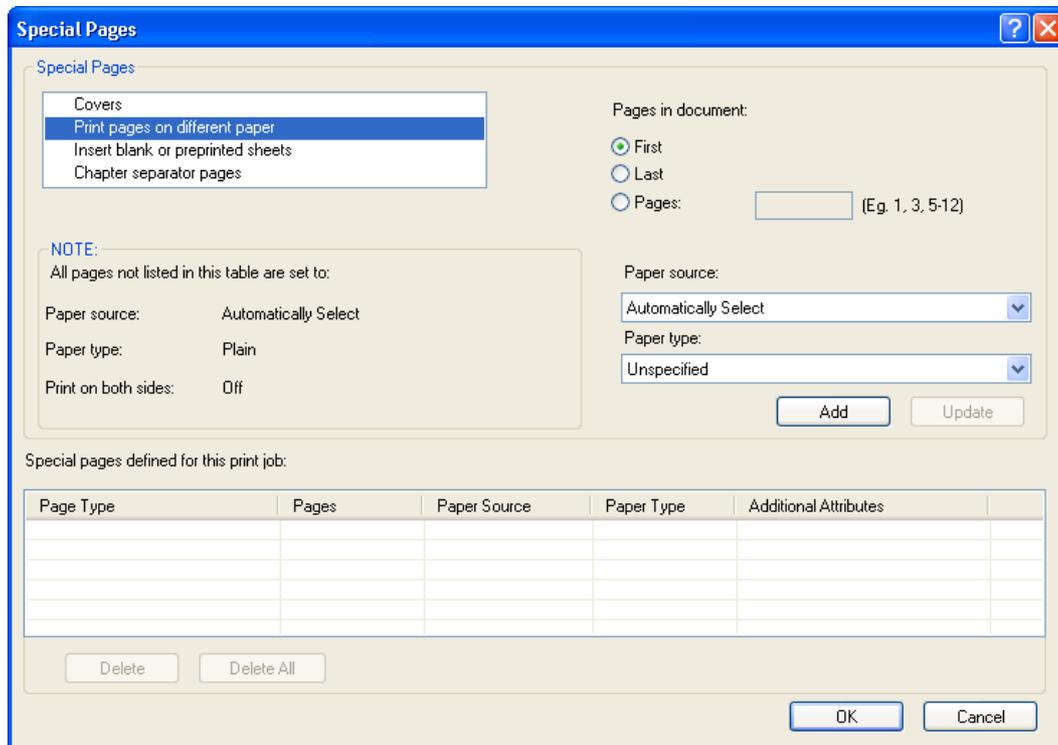
When you change the type and source of the paper and covers, the settings remain configured until you close the software program.

Print pages on different paper

Use the **Print pages on different paper** options to select an alternative paper type or source for the first, last, or other pages of a document.

The following figure shows the **Print pages on different paper** settings and options.

Figure 4-8 Print pages on different paper



The following are the **Print pages on different paper** options:

- **Pages in document.** Select which pages are customized: the **First** page, the **Last** page, or specify a page range with the **Pages** option.
- **Paper source:** The **Paper source** setting specifies the source tray to use for printing a document. The list of source trays depends on the accessories that are installed. Any optional trays that are installed through the **Device Settings** tab also appear here.
- **Paper type:** The **Paper type** drop-down menu shows all of the paper types that the HP Color LaserJet Enterprise CP5520 Series Printer supports.

 **NOTE:** The same type of paper is used for the entire print job.

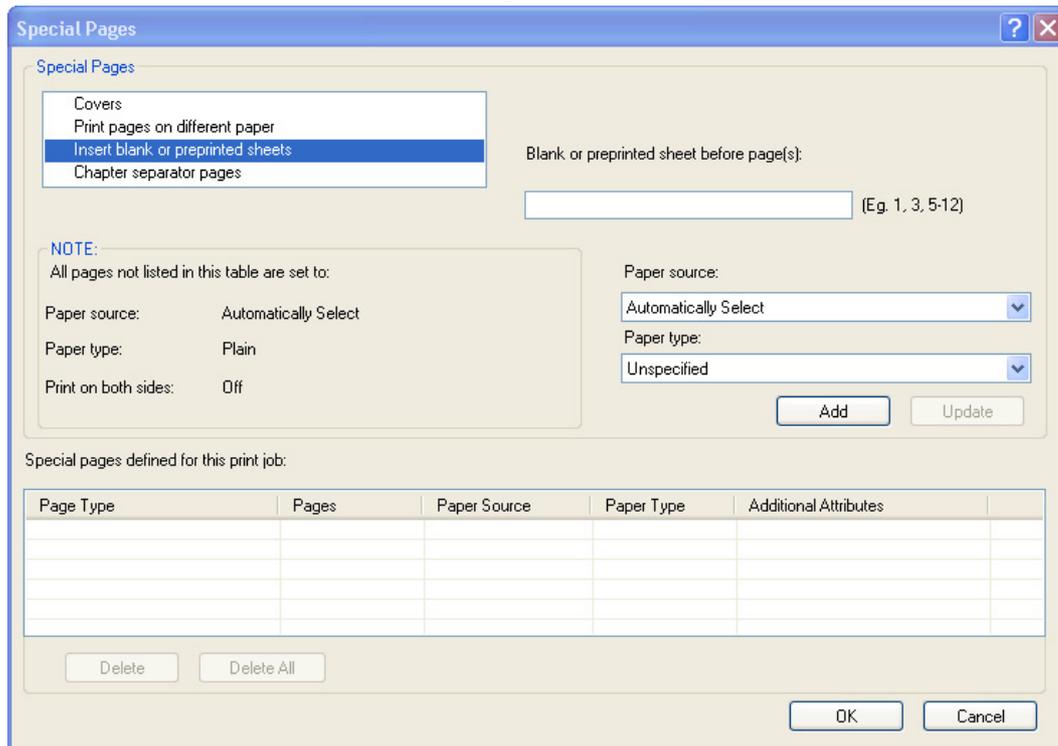
When you change the type and source of the paper and covers, the settings remain configured until you close the software program.

Insert blank or preprinted pages

Use the **Insert blank or preprinted pages** options to designate where to insert preprinted pages or blank pages into a document.

The following figure shows the **Print pages on different paper** settings and options.

Figure 4-9 Insert blank or preprinted pages



The following are the **Insert blank or preprinted pages** options:

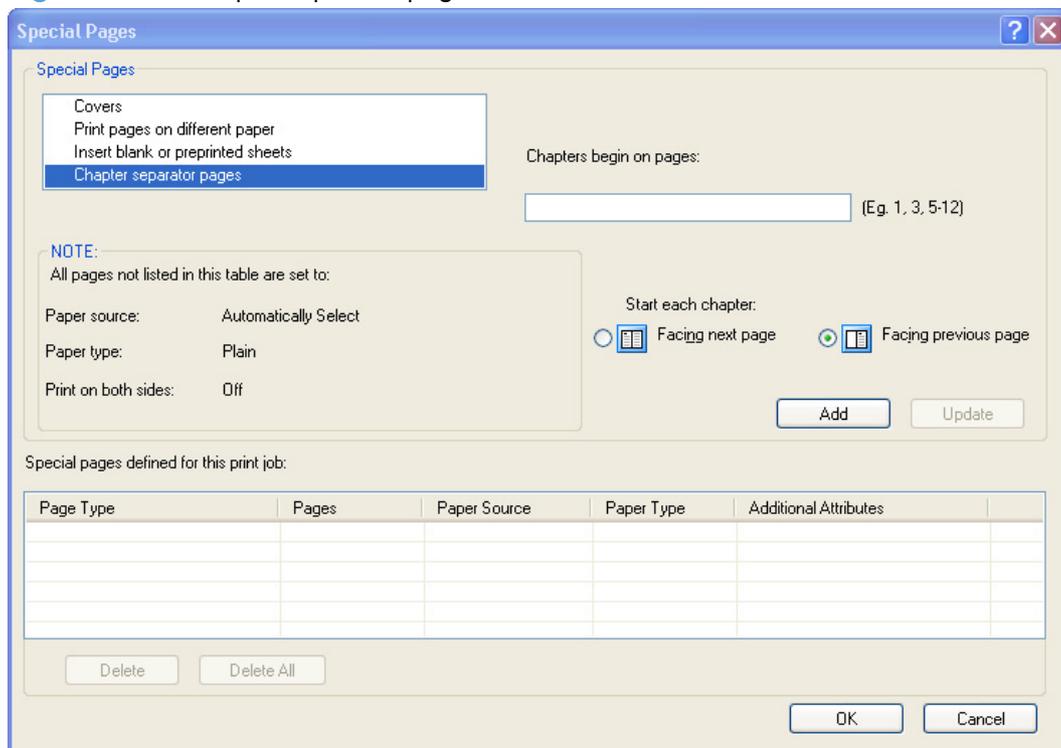
- **Blank or preprinted sheet before page(s):** Specify where in the document you want to insert blank or preprinted pages by designating the page numbers or page ranges that the blank or preprinted pages will precede. For example, to insert a blank or preprinted page on page four, specify **5** in the **Blank or preprinted sheet before page(s):** option.
- **Paper source:** The **Paper source** setting specifies the source tray to use for printing a document. The list of source trays depends on the accessories that are installed. Any optional trays that are installed through the **Device Settings** tab also appear here.
- **Paper type:** The **Paper type** drop-down menu shows all of the paper types that the HP Color LaserJet Enterprise CP5520 Series Printer supports.

Chapter separator pages

Use the **Chapter separator pages** options to designate where the first page of a chapter appears in the document.

The following figure shows the **Chapter separator pages** settings and options.

Figure 4-10 Chapter separator pages



The following are the **Chapter separator pages** options:

- **Chapters begin on pages:** Specify where in the document the chapters begin by designating a page number for each chapter.
- **Start each chapter:** Select **Facing next page** to make each chapter begin on the left side of the document. Select **Facing previous page** to make each chapter begin on the right side of the document.

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The document preview image appears in the upper-right corner of the following **Printing Preferences** driver tabs:

- **Printing Shortcuts**
- **Paper/Quality**
- **Effects**
- **Finishing**
- **Color**

Switching between tabs does not change the location or appearance of the document preview image. When you move the mouse over the document preview image, the mouse cursor changes from an arrow to a gloved hand. You can toggle between portrait and landscape page orientation by clicking the image.

Print Quality

The **Print Quality** group box contains the following controls:

- [Gloss Level drop-down menu](#)

Gloss Level drop-down menu

The **Gloss Level** drop-down menu contains the following options.

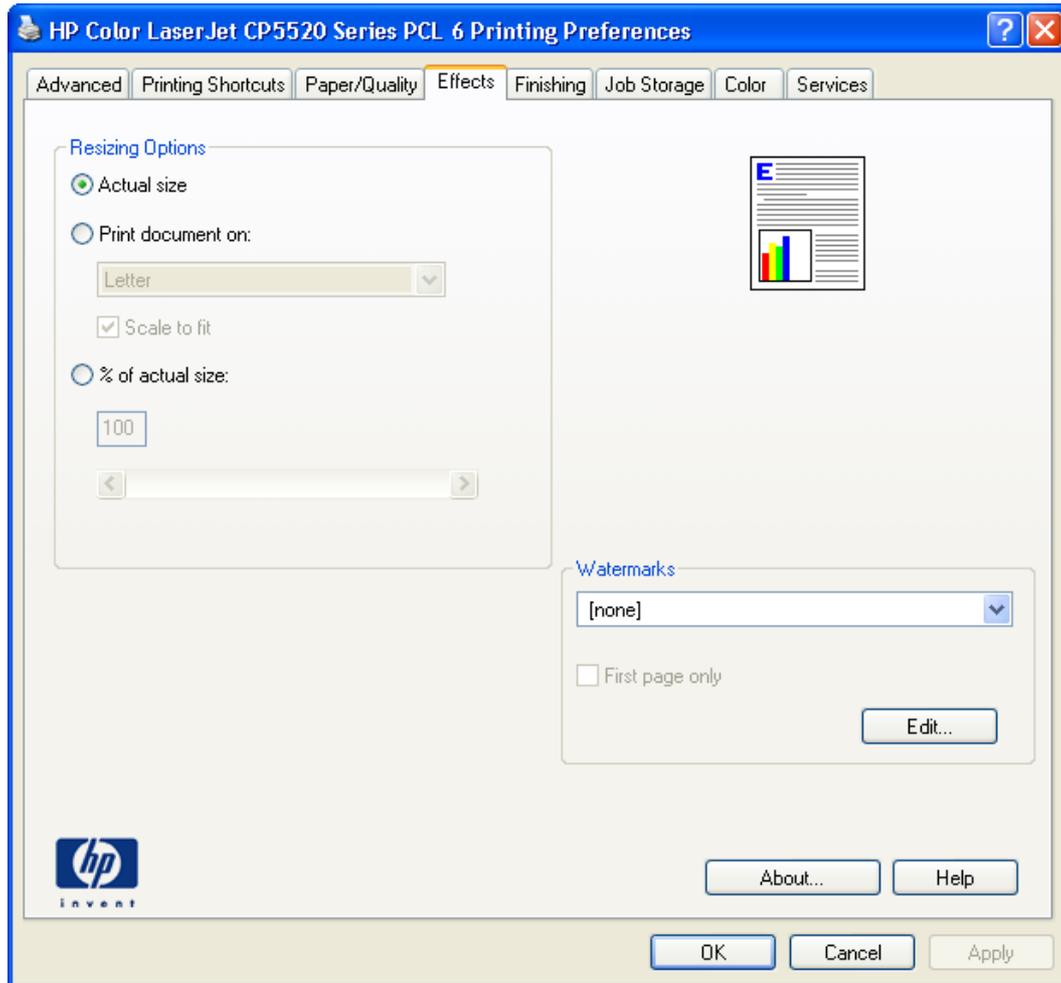
- **Best.** This setting increases gloss output and stability, but slows printing and reduces drum life.
- **Standard.** This setting produces normal gloss output at full speed, without reducing drum life.
- **Device.** This setting is selected by default and uses the setting that is selected on the device control panel.

Effects tab features

 **NOTE:** The **Effects** tab is located on the **Printing Preferences** tab set.

Use the **Effects** tab to create unique paper effects such as scaling and watermarks. The following figure shows the **Effects** tab.

Figure 4-11 **Effects** tab



The **Effects** tab contains the following controls:

- [Resizing Options](#)
- [Document preview image](#)
- [Watermarks](#)

Resizing Options

The **Resizing Options** group box consists of the following controls:

- **Actual Size** (default)
- **Print Document On**
- **Scale to Fit**
- **% of Actual Size**

Actual Size

Actual Size is the default setting. It prints the document without changing the document size.

Print Document On

Click the **Print Document On** option to format the document for one paper size and then print the document on a different paper size, with or without scaling the image to fit the new paper size.

The **Print Document On** control is disabled by either of the following conditions:

- The **% of Actual Size** value is not 100.
- The **Pages per Sheet** value (on the **Finishing** tab) is not 1.

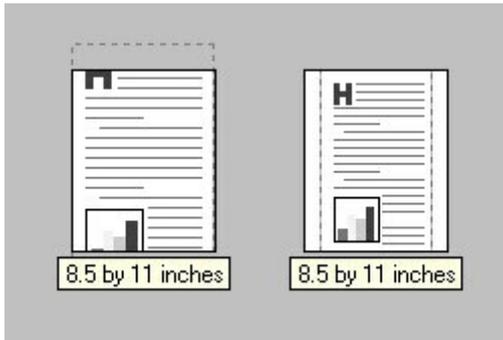
When **Print Document On** is selected, the drop-down menu shows the paper sizes on which you can print. The list contains all of the standard paper sizes that the selected paper source supports and any custom sizes that you have created. When **Print Document On** is selected, **Scale to Fit** is automatically selected. Clear this check box if you do not want your document reduced or enlarged to fit on the selected paper.

Scale to Fit

The **Scale to Fit** option box specifies whether each formatted document page image is scaled to fit the target paper size. By default, **Scale to Fit** is selected when **Print Document On** is selected. If the setting is turned off, then the document page images will not be scaled, and are instead centered at full size on the target paper. If the document size is larger than the target paper size, then the document image is clipped. If it is smaller, then it is centered within the target paper. The following figure shows

preview images for a document formatted for Legal-size paper with the **Print Document On** check box selected, and the target size specified as **Letter**.

Figure 4-12 Preview images – Legal on Letter; **Scale to Fit** off (left) and on (right)



When the size for which the document is formatted (that is, the logical size) differs from the target size, the preview image uses a dashed gray line to show the boundaries of the logical page in relation to the target paper size.

% of Actual Size

The **% of Actual Size** option provides a slider bar and input box to use for scaling the percentage setting. The default setting in the entry box is 100% of actual size. Actual size is defined as the paper size that is selected within the driver or what the driver receives from the software program (if the software program does not negotiate the paper size with the driver). The driver scales the page by the appropriate factor and sends it to the product.

The limits of the range are from 25% to 400%, and any values outside the range are adjusted to those limits as soon as the focus is removed from the control (that is, when the **Tab** key is pressed or another control is selected).

Any change to the scale also changes the page preview, which increases or decreases from the upper-left corner of the preview.

The slider bar controls the scale directly. The value in the edit box changes as the slider-bar indicator is dragged, and the document preview image is updated to the new image scale. Each click on the arrows increases or decreases the scale by 1%. Each click on the slider bar affects the scale by 10%.

You cannot achieve an exact value by dragging the slider-bar indicator. Instead, either use the slider-bar indicator to approximate the value that you want and then use the arrows to refine the value, or type the value into the entry box.

The following settings disable **% of Actual Size**:

- **Print Document On** (on the **Effects** tab) is selected
- **Pages per Sheet** (on the **Finishing** tab) is not 1

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The

document preview image appears in the upper-right corner of the following Printing Preferences driver tabs:

- **Printing Shortcuts**
- **Paper/Quality**
- **Effects**
- **Finishing**
- **Color**

Switching between tabs does not change the location or appearance of the document preview image. When you move the mouse over the document preview image, the mouse cursor changes from an arrow to a gloved hand. You can toggle between portrait and landscape page orientation by clicking the image.

Watermarks

Use the **Watermarks** feature to select a watermark, create a new watermark (text only), or edit an existing watermark. The following watermarks are preset in the driver:

- **(none)**
- **[Username]**
- **Confidential**
- **Draft**
- **SAMPLE**

The Watermarks feature can be configured using the Driver Configuration Utility.

If the **[Username]** watermark is selected, the driver will use the network username of the logged in user for the watermark.

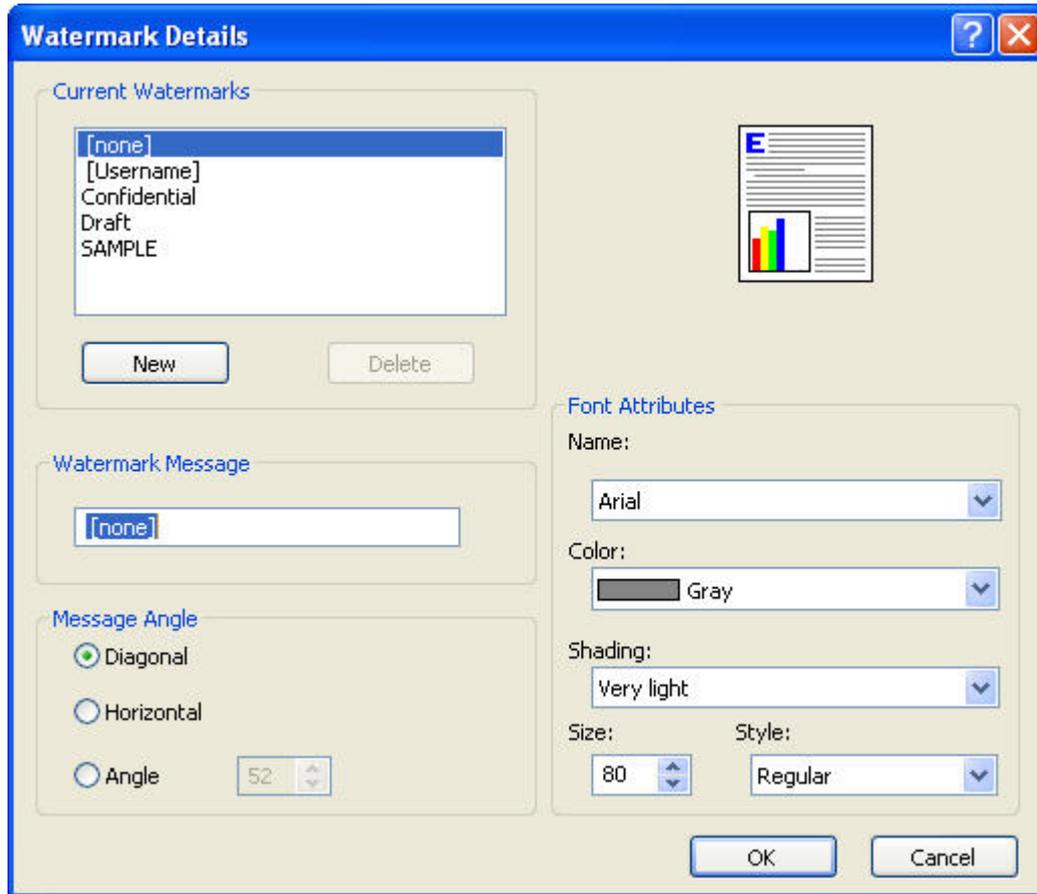
The drop-down menu shows alphabetically sorted watermarks that are currently available on the system, plus the string "(none)," which indicates that no watermark is selected. This is the default setting. Any watermark that is selected from this list appears in the preview image.

When the **First Page Only** check box is selected, the watermark is printed only on the first page of the document. The **First Page Only** check box is disabled when the current watermark selection is "(none)."

Watermarks are applied to logical pages. For example, when **Pages per Sheet** is set to "4" and **First Page Only** is turned off, four watermarks appear on the physical page (one on each logical page).

Click **Edit**, and the **Watermark Details** dialog box appears.

Figure 4-13 Watermark Details dialog box



The dialog box shows a preview image and provides options for creating a new watermark and controlling the message angle and font attributes.

Click **OK** to accept all of the changes that are made in the **Watermark Details** dialog box. However, clicking **Cancel** does not cancel all of the changes. If you make changes to a watermark and then select a different watermark or click **New**, all of the changes are saved, and only the current, unsaved changes can be canceled.

Current watermarks

The **Current Watermarks** group box contains a list of available watermarks, both predefined watermarks that are available in the driver and any new watermarks that you have created.

To create a new watermark, click **New**. The new watermark appears in the **Current Watermarks** list and in the **Watermark Message** edit box as "**Untitled**" until you name it. The name that you type in the **Watermark Message** field appears in the **Current Watermarks** group box in the **Watermark Details** dialog box and in the **Watermarks** group box on the **Effects** tab.

To name the new watermark, type the selected watermark text in the **Watermark Message** edit box.

To delete a watermark, select the watermark in the **Current Watermarks** list, and then click **Delete**. A warning appears asking whether you are sure you want to delete the selected item. Click **Cancel** if you want to keep the watermark. Click **OK** to delete the selected watermark.



NOTE: You can have no more than 30 watermarks in the **Current Watermarks** list at one time. When you reach the limit of 30 watermarks, the **New** button is disabled.

To edit an existing watermark, select the watermark in the **Current Watermarks** list. If you change the **Watermark Message** for that watermark, you are, in effect, creating a new watermark.

Watermark Message

The **Watermark Message** is also the name that identifies the watermark in the **Current Watermarks** list, except when more than one watermark has the same message. For example, you might want several different watermarks with the message DRAFT, each with a different typeface or font size. When this occurs, the string is appended with a space, a pound sign, and a number (for example, **Draft #2**). When a number is added, the number two is used first, but if the resulting name is also in the list, then the number increases until the name is unique (**Draft #3**, **Draft #4**, and so on).

Message Angle

Use the controls in the **Message Angle** group box to print the watermark in different orientations on the page. All settings center the watermark string within the page; the selection of a particular setting affects only the angle of the string placement. The following settings are available:

- **Diagonal.** This is the default setting. Select this setting to place the text along a line that spans the lower-left to upper-right corners of the page.
- **Horizontal.** Select this setting to place the text along a line that spans the mid-left and mid-right edges of the page.
- **Custom.** Select this setting to place the text at the specified angle across the page. Use the numeric spin box to select the angle.

Font Attributes

Use the controls in the **Font Attributes** group box to change the font and the shading, size, and style of the font.

The **Font Attributes** group box contains the following controls:

- **Name**

The **Name** drop-down menu lists fonts that are currently installed on the system. The default is language-dependent.

- **Color**

The **Color** drop-down menu contains the following selections:

- **Gray**
- **Red**

- **Yellow**
- **Green**
- **Cyan**
- **Blue**
- **Magenta**
- **Shading**

The default **Shading** setting for new and preset watermarks is **Very Light**. The following range of shades is available from the **Shading** drop-down menu:

- **Lightest**
- **Very Light** (default)
- **Light**
- **Medium Light**
- **Medium**
- **Medium Dark**
- **Dark**
- **Very Dark**
- **Darkest**

These values represent the intensity of the gray that is used. Select **Light** to produce a lightly saturated gray watermark. Select **Lightest** to produce the lightest shade of watermark. Select **Darkest** to produce a black watermark.

- **Size**

Font sizes from 1 to 999 points are available from the **Size** menu. The default point size is language-dependent.

- **Style**

The following settings are available:

- **Regular**
- **Bold**
- **Italic**
- **Bold Italic**

The default **Style** setting for new and preset watermarks is **Regular**.

Default watermark settings

The following table shows **Font Attribute** settings for new and preset watermarks.

Table 4-2 Font Attribute settings for new and preset watermarks

Setting	New watermark	Preset watermark
Name	Arial	Varies by language
Color	Gray	Gray
Shading	Very Light	Very Light
Size	80	Varies by language
Style	Regular	Regular

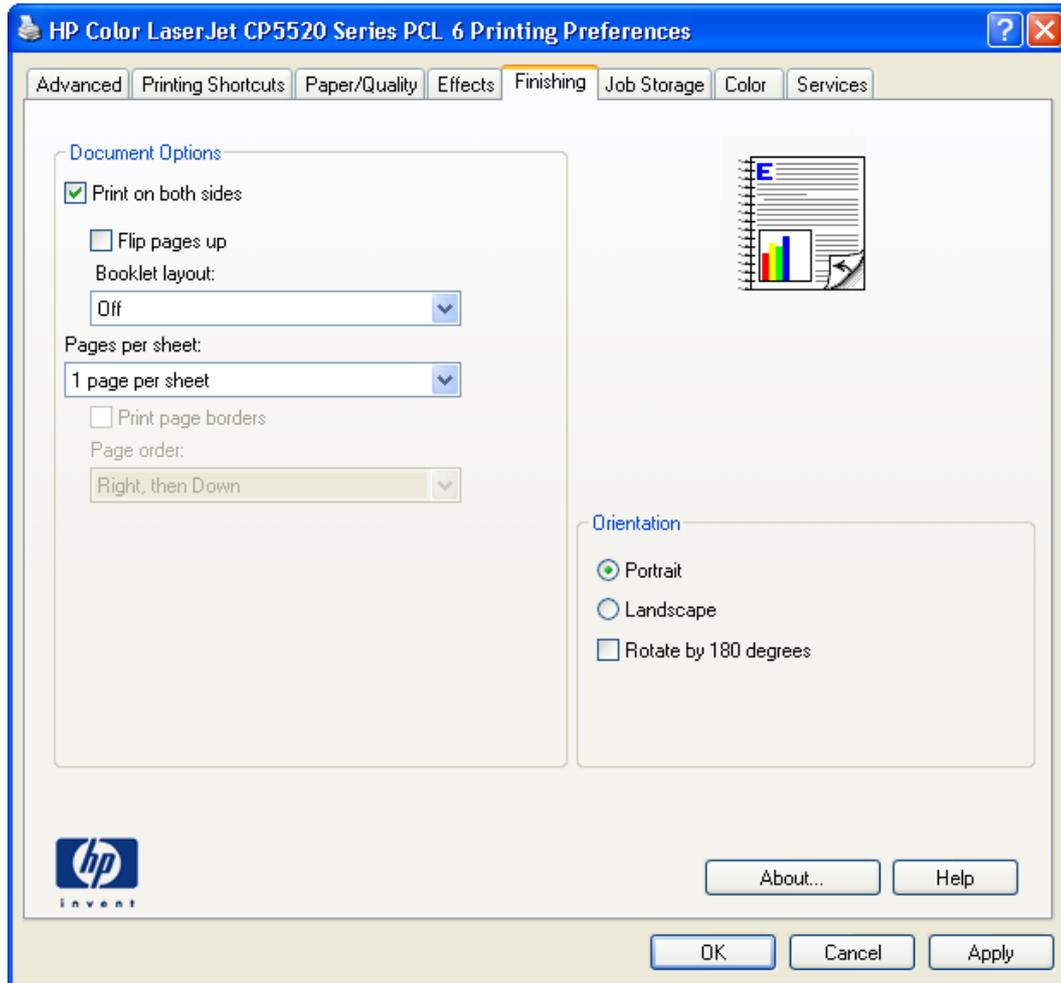
Click **OK** to accept all of the changes that have been made in the **Watermark Details** dialog box. Clicking **Cancel** does not cancel all of the changes. If you make changes to a watermark and then select a different watermark or click **New**, all of the changes are saved, and only the current, unsaved changes can be canceled.

Finishing tab features

 **NOTE:** The **Finishing** tab is located on the **Printing Preferences** tab set.

Use the **Finishing** tab to print booklets and control the paper output. The following figure shows the **Finishing** tab.

Figure 4-14 Finishing tab



The **Finishing** tab contains the following controls:

- [Document Options](#)
- [Document preview image](#)
- [Orientation](#)

Document Options

The **Document Options** group box contains the following controls:

- [Print on Both Sides](#)

- [Flip Pages Up](#)
- [Booklet Layout](#)
- [Pages per Sheet](#)
- [Print Page Borders](#)
- [Page Order](#)

Print on Both Sides

 **NOTE:** This feature is called **Print on Both Sides (manually)** for the HP Color LaserJet CP5525n, because these models do not include an automatic duplex unit. For all other product models, this feature is called **Print on Both Sides**.

The default setting for the **Print on Both Sides** option is off (not selected). **Print on Both Sides** is available when the following conditions exist:

- **Paper type** on the **Paper** tab is set to any paper type *except for* the following types:
 - **Labels**
 - **Color Laser Transparency**
 - **Envelopes**
- **Paper sizes** is set to any paper size *except for* the following sizes:
 - **Statement**
 - **3x5**
 - **4x6**
 - **5x7**
 - **5x8**
 - **A6**
 - **B6**
 - **10x15cm**
 - **Envelope #10**
 - **Japanese Postcard**
 - **Envelope #9**
 - **Envelope Monarch**
 - **Envelope B5**
 - **Envelope C5**

- **Envelope C6**
- **Envelope DL**

Print on both sides automatically

The duplexing unit in the HP Color LaserJet Enterprise CP5520 Series Printer product prints on two sides of a sheet of paper when the **Print on Both Sides** option is specified in the print job. The HP Color LaserJet Enterprise CP5520 Series Printer product comes with a duplexing unit installed in the following models:

- HP Color LaserJet CP5525dn
- HP Color LaserJet CP5525xh

These product models support smart duplexing. The smart duplexing feature increases printing performance by preventing one-page print jobs or single-sided pages of a duplexed print job from going through the duplexing unit even when the duplexing feature has been selected in the driver.

All paper types support the smart duplexing feature, except for paper types that cannot be printed on both sides (such as labels, transparencies, and envelopes) and the following paper types:

- Prepunched
- Preprinted
- Letterhead
- Cardstock

When the paper type is set to **Unspecified**, the smart duplexing feature is disabled.

To achieve the best print quality when printing on the second side of the page, the product needs to make adjustments to its print modes. When you select a paper type, you are, in effect, instructing the product to use a group of settings (such as fuser temperature and print speed) to print the paper with the best possible quality. This group of settings is known as print mode. A different print mode is used with each paper type. Print-mode adjustments for the second side of a duplexed page are automatic.

Print on both sides manually

Select the **Print on Both Sides (Manually)** check box to print on the second side of the paper for the HP Color LaserJet CP5525n, which does not have a duplexing unit installed. Also, select **Print on Both Sides (Manually)** on the other HP Color LaserJet Enterprise CP5520 Series Printer product models for paper types that are not available when using the automatic duplexing unit, such as cardstock and thick paper.

Manually printing on the second side of a page is available when you are using the HP PCL 6 driver. If a duplexing unit is installed and manual duplexing is enabled in the driver, the product automatically prints on both sides of paper types that are supported for automatic duplexing (Letter, A4, Legal, and 8.5 x 11 only). For paper types that are *not* supported for automatic duplexing, a Help message appears prompting you to configure the driver settings for manual printing on both sides. Manual printing on both sides does not occur automatically.

Select the paper type that corresponds to the paper that you are using for the print job. The following paper types have a different print modes when you manually print on the second side:

- Plain
- Preprinted
- Letterhead
- Prepunched
- Bond
- Recycled
- Colored
- Rough



NOTE: To make the **Print on Both Sides (Manually)** check box available in the document options, select the **Allow Manual Duplexing** option on the **Device Settings** tab in the print-driver **Properties** tab set. See [Installable Options on page 100](#).

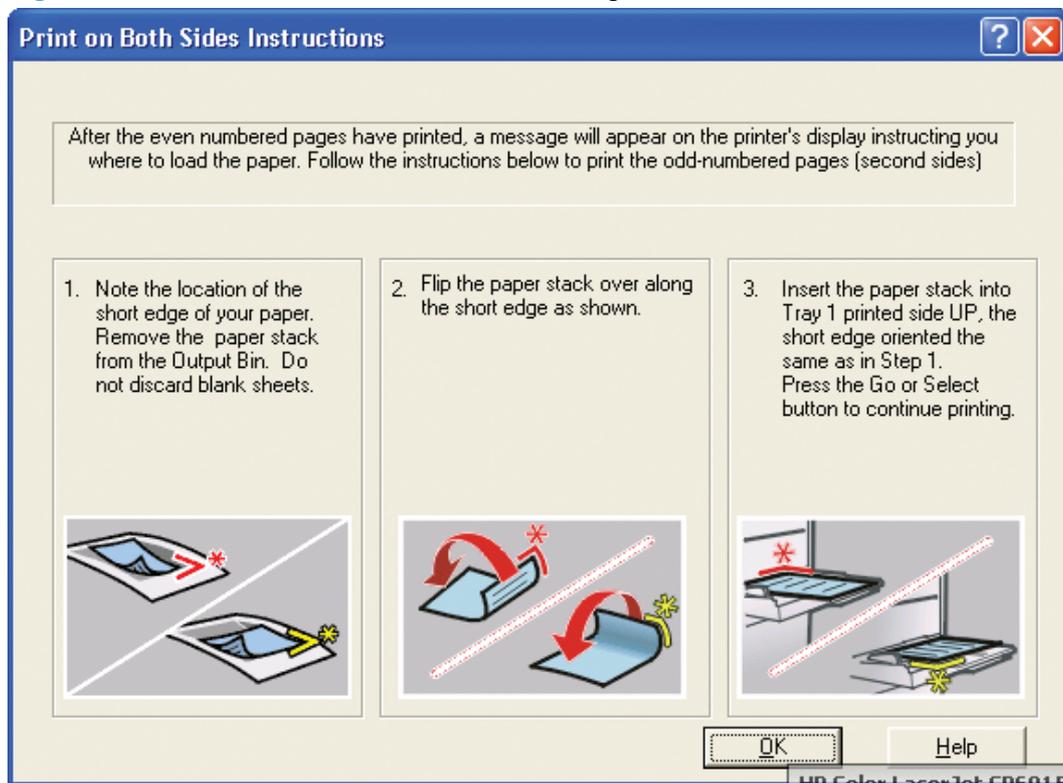
If you want to print on both sides manually while using paper that is supported for automatic duplexing, you must select and apply the **Not Installed** setting on the **Duplex Unit (for 2-Sided Printing)** option on the **Device Settings** tab.

Cardstock paper can be manually printed on the second side, but no change occurs to the print mode. Transparencies and labels should *never* be manually printed on the second side.

To print a multiple-page document, follow these steps:

1. Select the **Print on Both Sides (Manually)** check box.
2. Click **OK**. The even-number pages of the document print.
3. When the control panel shows the **MANUALLY FEED** message, insert the stack of paper (on which the even-number pages have been printed) as indicated in the following figure.

Figure 4-15 Print on Both Sides Instructions dialog box



When you have completed the steps that appear in the dialog box, the second half of the print job prints on the back side of the stack of paper. The driver does not require the program to specifically support odd- and even-page printing, because the driver coordinates this function.

Flip Pages Up

Use the **Flip Pages Up** check box to specify the duplex-binding option. By default, the **Flip Pages Up** check box is not available. It is available only when **Print on Both Sides** is selected. The following table demonstrates the results of selecting this check box, depending on the paper orientation selected on the **Finishing** tab.

Table 4-3 Page orientation

Orientation (Finishing tab)	Flip Pages Up selected	Flip Pages Up not selected
Portrait	Short-edge binding	Long-edge binding
Landscape	Long-edge binding	Short-edge binding

When **Print on Both Sides** is selected, the document preview image changes to show a spiral binding along either the left edge or the top edge of the page. In addition, a folded-over corner appears in the lower-right portion of the preview image, indicating that printing occurs on the back side. An arrow on the folded-over corner points in the direction that the pages would be flipped if they were bound together.

Short-side binding is for print jobs with pages that read by flipping over like the pages of a calendar. Long-side binding is for print jobs with pages that read by turning like the pages of a book.

Booklet Layout

The **Booklet Layout** drop-down menu, visible when **Print on Both Sides** is selected, offers choices that are based on the current paper size. The default setting for the **Booklet Printing** drop-down menu is **Off**. The other settings have the following format, where **[paper size]** depends on the paper size that is set on the **Paper/Quality** tab:

- **Left Binding**
- **Right Binding**

When you select **Left Binding** or **Right Binding**, the document preview image changes to show the location of the binding. If the **Pages per Sheet** setting is on the default setting of 1, it automatically changes to **2 pages per sheet**. If you change the **Pages per Sheet** setting manually to 4, 6, 9, or 16 pages per sheet, the booklet setting is disabled. See [Pages per Sheet on page 76](#) for more information.

Book and Booklet Printing

The HP Color LaserJet Enterprise CP5520 Series Printer supports book and booklet printing.

A book is a print job consisting of at least two pages. It can have a different paper type for the front cover, first page, other pages, last page, or back cover. Use the **Covers** and **Print pages on different paper** settings on the **Paper/Quality** tab to select different paper for the front cover, first page, other pages, and back cover. For more information, see [Paper/Quality tab features on page 52](#).

A booklet is a print job that places two pages on each side of a sheet that can then be folded into a booklet that is half the size of the paper. Use the **Booklet Layout** drop-down menu on the **Finishing** tab to control booklet settings.

Pages per Sheet

Use the **Pages per Sheet** option to select the number of pages that you want to print on a single sheet of paper. If you choose to print more than one page per sheet, the pages appear smaller and are arranged on the sheet in the order that they would otherwise be printed. The **Pages per Sheet** drop-down menu provides six settings:

- **1 page per sheet** (this is the default)
- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**



NOTE: When you select an option other than **2 pages per sheet**, booklet printing is unavailable.

Related controls indented beneath **Pages per Sheet** are **Print Page Borders** and **Page Order**, which become active when **Pages per Sheet** is greater than 1.

Print Page Borders

Print Page Borders sets a line around each page image on a printed sheet to help visually define the borders of each logical page.

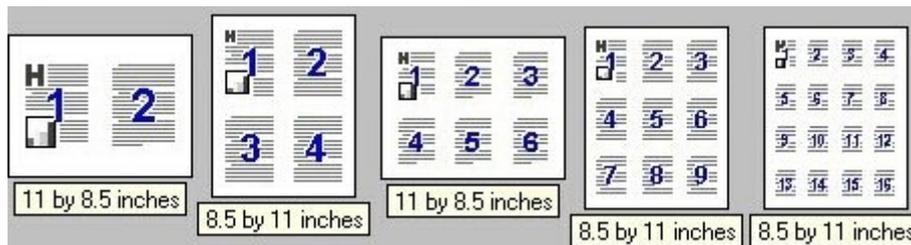
Page Order

The **Page Order** drop-down menu contains four selections:

- **Right, then Down**
- **Down, then Right**
- **Left, then Down**
- **Down, then Left**

The preview document image changes to reflect alterations in these settings, as shown by the examples in the following figure.

Figure 4-16 Page-order preview images



- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The document preview image appears in the upper-right corner of the following **Printing Preferences** driver tabs:

- **Printing Shortcuts**
- **Paper/Quality**
- **Effects**
- **Finishing**
- **Color**

Switching between tabs does not change the location or appearance of the document preview image. When you move the mouse over the document preview image, the mouse cursor changes from an arrow to a gloved hand. You can toggle between portrait and landscape page orientation by clicking the image.

Orientation

Orientation refers to the layout of the image on the page, and does not affect the way that paper feeds into the product. You can specify the orientation of the print job. The three available orientations are portrait, landscape, and rotated. The default orientation is **Portrait**.



NOTE: Nearly all software programs establish the orientation for the printed page, so the page orientation in the driver is useful only for the few software programs that do not set an orientation.

The **Orientation** group box contains the following options:

- **Portrait.** The top edge of the document is the shorter edge of the paper.
- **Landscape.** The top edge of the document is the longer edge of the paper.
- **Rotate by 180 degrees.** This creates a landscape or portrait orientation in which the image is rotated 180°. This setting is useful for printing prepunched paper.

You can toggle orientation between portrait and landscape by clicking the document preview image. If you select the **Rotate by 180 degrees** check box, no change occurs in the document preview image.

Job Storage tab features



NOTE: The **Job Storage** tab is located on the **Printing Preferences** tab set or the **Properties** tab set.

Use the job-storage feature to store print jobs in the HP Color LaserJet Enterprise CP5520 Series Printer product memory or hard disk for printing at a later time.

The **Job Storage** tab appears among the driver tabs only if the job-storage feature is enabled on the **Device Settings** tab. To support job-storage features for complex jobs, or if you often print complex graphics, print postscript (.PS) documents, or use many downloaded fonts, HP recommends that you install additional memory, install a hard disk, or both. Added memory also gives you more flexibility in supporting job-storage features. A minimum total memory of 288 MB is required to use the **Proof and Hold** and **Personal Job** job-storage features. A hard disk is required to use the **Quick Copy** and **Stored Job** job-storage features.

After a hard disk is installed, the driver must be configured to reflect the changes in the product. If bidirectional communication is enabled in your environment, the Update Now feature can be used to update the drivers. For more information, see [Automatic Configuration on page 101](#).

To configure the drivers manually after installing a hard disk, follow these steps:

1. In Windows Vista and Windows 7, click the **Start** button, click **Control Panel**, click **Hardware and Sound**, and then click **Printers**.

In Windows XP, Windows Server 2003, and Windows Server 2008, click **Start**, click **Settings**, and then click **Printers and Faxes**.

2. Right-click the product name.
3. Click **Properties**.
4. Click the **Device Settings** tab.
5. Select **Installed** for the **Printer Hard Disk** under **Installable Options**, and then select **Installed** in the drop-down menu.
6. Click **OK** to make the printer hard disk and job-storage features available.

You can disable the job-storage feature while leaving the printer hard disk enabled. To disable the job-storage feature, follow these steps:

1. In Windows Vista and Windows 7, click the **Start** button, click **Control Panel**, click **Hardware and Sound**, and then click **Printers**.

In Windows XP, Windows Server 2003, and Windows Server 2008, click **Start**, click **Settings**, and then click **Printers and Faxes**.

2. Right-click the product name.
3. Click **Properties**.
4. Click the **Device Settings** tab.

5. Select **Job Storage**.
6. Select **Disabled** in the **Change 'Job Storage' Setting** dialog box that appears.

If the job-storage feature is enabled (without installing a hard disk but with at least 288 MB of total memory), two **Job Storage Mode** settings are available on the **Job Storage** tab:

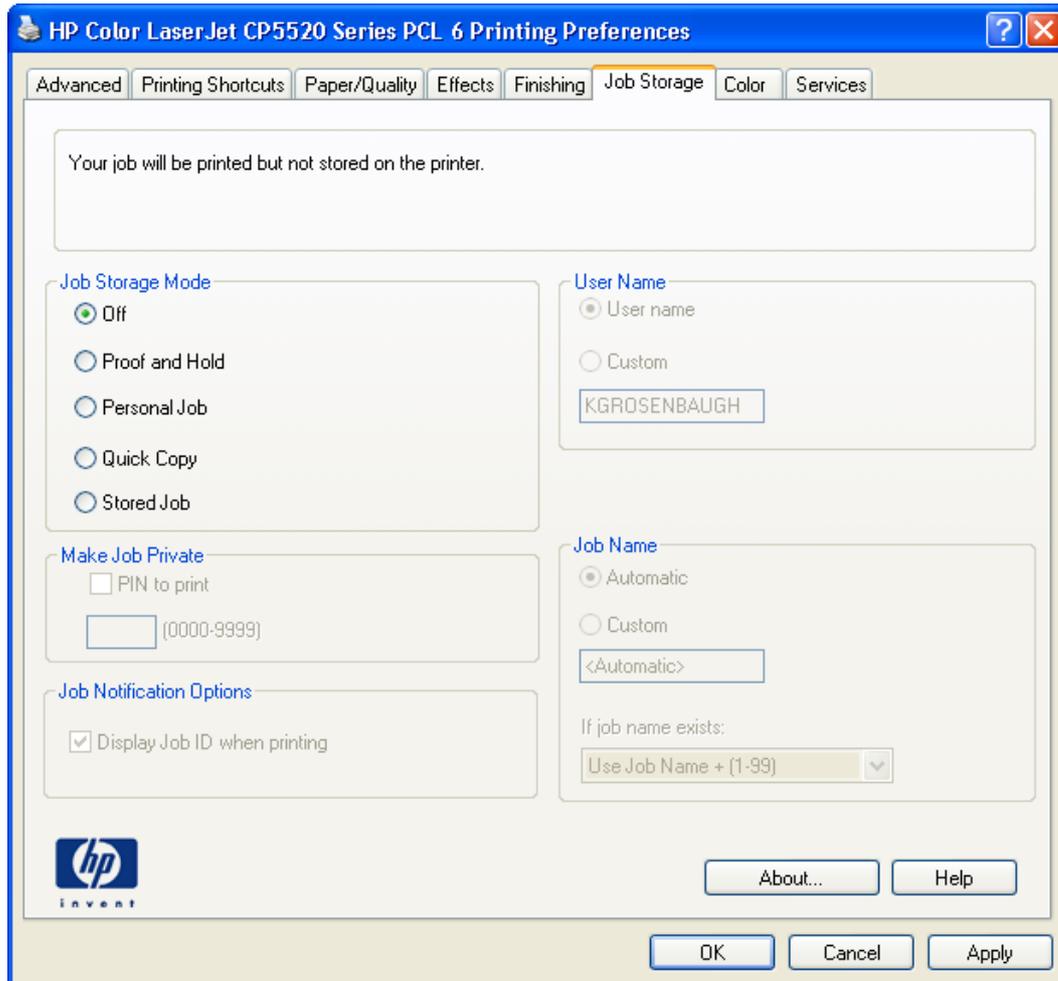
- **Proof and Hold**
- **Personal Job**

Two additional **Job Storage Mode** settings become available on the **Job Storage** tab if a hard disk is installed:

- **Quick Copy**
- **Stored Job**

The following figure shows the **Job Storage** tab.

Figure 4-17 Job Storage tab



The **Job Storage** tab contains the following controls:

 **NOTE:** Information about using the job-storage feature when printing is also provided here.

- [Status group box](#)
- [Job Storage Mode](#)
- [PIN to print](#)
- [Job Notification Options](#)
- [User Name](#)
- [Job Name](#)
- [Use job-storage features when printing](#)

Status group box

The unlabeled group box on the **Job Storage** tab contains a status message about the destination of a print job. The status information changes depending on the selections that are made on the **Job Storage** tab.

Job Storage Mode

Use the **Job Storage Mode** options on the HP Color LaserJet Enterprise CP5520 Series Printer product to store documents at the product and then control their printing at the product control panel.

The HP Color LaserJet Enterprise CP5520 Series Printer product offers the following **Job Storage Mode** options:

- **Off**
- **Proof and Hold**
- **Personal Job**
- **Quick Copy**
- **Stored Job**

These options and the settings that control them are described below.

Off

When selected, this option turns the job-storage feature off (it is disabled), which means that the print job will not be stored in the product.

Proof and Hold

To use the **Proof and Hold** option, the job-storage feature must be enabled.

When selected, this option stores the print job in memory and prints only the first copy of the job, allowing you to check the first copy. If the document prints correctly, you can print the remaining copies of the print job at the control panel. You can set the number of proof-and-hold print jobs that can be stored in the product at the control panel.

After it is released for printing, the proof-and-hold job is immediately deleted from the product. If more copies are needed, you must reprint the job from the software program. If you send a second proof-and-hold job to the product with the same user name and job name as an existing proof-and-hold job (and you have not released the original job for printing), the job overwrites the existing job. Proof-and-hold jobs are deleted if you turn off the product.

 **NOTE:** The product configuration can be set to hold a maximum of 50 quick-copy or proof-and-hold jobs. The number is set at the product control panel in the **CONFIGURATION** menu, and the default is 32. When this preset limit is reached, the new document overwrites the oldest held document. Also, a document that has the same user name and job name as one that is already stored on the printer hard disk will overwrite the existing document.

Personal Job

To use the **Personal Job** option, the job-storage feature must be enabled.

When you select **Personal Job**, the print job is sent to the product, but is not printed until you request the job at the product control panel. Selecting **Personal Job** activates the **PIN** group box. If **PIN to print** is selected, the print job can be printed only after you type the correct PIN at the control panel. After the job is printed, the job is immediately deleted from the product. This feature is useful when you are printing sensitive or confidential documents that you do not want to leave in an output bin after printing.

The Private Job/PIN coupling has a PIN restriction of four ASCII numeric characters (0 through 9). If you type non-numeric characters, they are removed immediately. If you type more than four characters, the characters past the fourth are truncated. The field temporarily accepts fewer than four digits in the string, but when the edit field loses focus, the zeroes pad the left end until the PIN contains exactly four digits. The default initialized value for the PIN is 0000 for **Personal Job**.

After it is released for printing, the private job is immediately deleted from the product. If more copies are needed, you must reprint the job from the software program. If you send a second private job that has the same user name and job name as an existing private job (and you have not released the original job for printing), the job overwrites the existing job, regardless of the PIN. Private jobs are deleted if you turn off the product.

Quick Copy

To use the **Quick Copy** option, a printer hard disk must be installed, and the job-storage feature must be enabled.

When you select **Quick Copy**, the entire print job prints and a copy of the print job is stored on the product, after which you can print additional copies of the print job at the product control panel. The number of quick-copy print jobs that can be stored in the product is set by using the product control panel.

 **NOTE:** The product configuration can be set to hold a maximum of 50 quick-copy or proof-and-hold jobs. The number is set at the product control panel in the **CONFIGURATION** menu, and the default is 32. When this preset limit is reached, the new document overwrites the oldest held document. Also, a document that has the same user name and job name as one that is already stored on the printer hard disk will overwrite the existing document. **Quick Copy** jobs are deleted if you turn off the product.

Stored Job

To use the **Stored Job** option, a hard disk must be installed on the product and the job-storage feature must be enabled.

Use the **Stored Job** option to send a print job directly to the printer hard disk without printing it. The print job is stored in the product as if it is an electronic file cabinet. After the print job is stored on the printer hard disk, you can print the job at the product control panel.

The job remains stored in the product until it is deleted or overwritten by a document that has the same user name and job name. Stored jobs remain on the printer hard disk when the product is turned off. Use this feature for forms and other common or shared documents.

A stored job can be managed in two ways: as either a private or a public job.

Select the **PIN to Print** check box to set the private mode. Use a private stored job to send a print job directly to the product, which can then be printed only after you type a PIN up to 4 digits long at the product control panel. (You can set the PIN in the **PIN** group box.)

After the job is printed, the job remains in the product and can be printed again at the product control panel.

The box labeled **PIN** is usually inactive. The **PIN to Print** option becomes available when you select **Stored Job**. If you select the **PIN to Print** box, you must type a PIN to make the stored job private.

 **NOTE:** A *private* stored job is not the same as a *personal* job. *Personal* jobs are deleted from the product after they are printed. *Private* stored jobs are retained in the product after printing, but require that a PIN be typed each time they are printed. A printer hard disk is required for *Private* stored jobs.

PIN to print

PIN to print check box is available when **Stored Job** is selected. Select the **PIN to Print** box, then type a 4-digit PIN number in the box provided. The stored job is sent to the product, where you must enter the 4-digit PIN on the control panel to retrieve the personal job.

The **PIN to Print** check box is available when **Personal Job** is selected. Select the **PIN to Print** option, and then type a 4-digit PIN number in the box provided. The personal job is sent to the product, where you must type the 4-digit PIN on the control panel to retrieve the stored job.

Job Notification Options

Clicking a **Job Storage Mode** selection causes the **User Name** and **Job Name** options to become available. The **Display Job ID when printing** check box is selected by default. The **Display Job ID when printing** option causes a pop-up dialog box to appear when the job-storage print job is printed. The dialog box shows the user name and job name that are associated with the stored print job, as well as the printer name, port, and location.

User Name

Use the **User Name** settings to help identify the job at the product control panel. The following are the **User Name** settings:

- **User Name.** This option associates your Windows user name with the stored print job. The Windows user name automatically appears in the text field below the **User Name** options.
- **Custom.** Use this option to type a custom name for the stored print job. When you click **Custom**, the text field below the option becomes available. The **User Name** field can contain no more than 16 characters, and is limited to A through Z and 0 through 9 because the name appears on the product control-panel display. If you try to type a lowercase character, it automatically shifts to uppercase. If you try to type a character in an ASCII code of fewer than 32 or more than 126 characters, the character is removed from the edit field, along with all of the characters that follow it. If you try to type more than 16 characters, any character beyond 16 is truncated.

Job Name

Use the **Job Name** options to specify a name to identify the job at the product control panel. The following are the **Job Name** settings:

- **<Automatic>** This option, which is the default selection, automatically generates the job name that is associated with the stored print job. The file name of the print job is used if it is available to the print driver. Otherwise, the software program name or a time stamp is used for the job name.
- **Custom.** Use this to type a custom job name for the stored print job. When you click **Custom**, the text field below the option becomes available. In those languages for which **<Automatic>** cannot be translated without the use of invalid characters, the driver uses a string of three dashes. The acceptable characters for job name and user name vary for each operating system. The string must be of a length and type that can appear on the product control-panel display.

The **Job Name** field can contain no more than 16 characters, and is limited to A through Z (uppercase or lowercase) and 0 through 9 so that the name can appear on the product control-panel display. If you try to type a character in an ASCII code of fewer than 32 or more than 126 characters, the character is removed from the edit field, along with all of the characters that follow it. If you try to type more than 16 characters, any character beyond 16 is truncated.

When the dialog box is closed, or as soon as the focus is removed from the control (that is, when the **Tab** key is pressed or another control is selected), an empty string is replaced with **<Automatic>**. The acceptable characters for job name and user name vary for each operating system. The string must be of a length and type that can appear on the product control-panel display.

If Job Name Exists. When you store a print job, you can create a print-job name or the product software can assign one automatically. If a print job with the same name already exists, the new print job will overwrite the existing print job. To eliminate the chances of a new print job overwriting an old print job because both have the same name, select **Use Job Name + (1-99)**. After you create the print job name, or when one is created automatically, the product software assigns a number between 1 and 99 to the end of the print job name to make the name unique. Select **Replace Existing File** if you always want the product software to overwrite an existing print job with the same print job name.

Use job-storage features when printing

To use job-storage features when printing, follow these steps:

1. Click **File**, and then click **Print** from the software program. The **Print** dialog box appears.



NOTE: Clicking the print icon in the software program toolbar prints the job without using job-storage features.

2. Click **Properties**. The **Properties** dialog box appears.
3. Click the **Job Storage** tab.
4. Select the job-storage options by clicking the appropriate option button, and then complete any required fields.
5. Click **OK**.

Release a job-storage print job

After you send a print job that uses the job-storage feature, you can release the job to print from the product control panel.

1. Press the **Home** button  to open the menus.
2. Press the **up arrow** ▲ or the **down arrow** ▼ until **Retrieve Job From Device Memory** is highlighted on the product control panel, and then press **OK**.
3. Press the **up arrow** ▲ or the **down arrow** ▼ to scroll to your user name, and then press **OK**.
4. Press the **up arrow** ▲ or the **down arrow** ▼ to scroll to the job name, and then press **OK**.
5. Press the **up arrow** ▲ or the **down arrow** ▼ until **PRINT** is highlighted on the product control panel, and then press **OK**.
6. Press **OK**.
7. If a PIN number is assigned to the job, press the **up arrow** ▲ or the **down arrow** ▼ to select the first digit of the PIN, and then press **OK**. The number in the product control-panel display changes to an asterisk. Repeat this step for each of the remaining three digits of the PIN number.

If no PIN number is assigned to the job, continue with the next step.
8. Press the **up arrow** ▲ or the **down arrow** ▼ to select the number of copies to print.
9. Press **OK** to print the job.

Delete a job-storage print job

Sometimes it is necessary to delete a print job from the printer hard disk. You can do this from the product control panel.

1. Press the **Home** button  to open the menus.
2. Press the **up arrow** ▲ or the **down arrow** ▼ until **Retrieve Job From Device Memory** is highlighted on the product control panel, and then press **OK**.
3. Press the **up arrow** ▲ or the **down arrow** ▼ to scroll to your user name, and then press **OK**.
4. Press the **up arrow** ▲ or the **down arrow** ▼ to scroll to the job name, and then press **OK**.
5. Press the **up arrow** ▲ or the **down arrow** ▼ until **DELETE** is highlighted on the product control panel, and then press **OK**.
6. Press **OK**.
7. If a PIN number is assigned to the job, press the **up arrow** ▲ or the **down arrow** ▼ to select the first digit of the PIN, and then press **OK**. The number in the product control-panel display changes to an asterisk. Repeat this step for each of the remaining three digits of the PIN number.

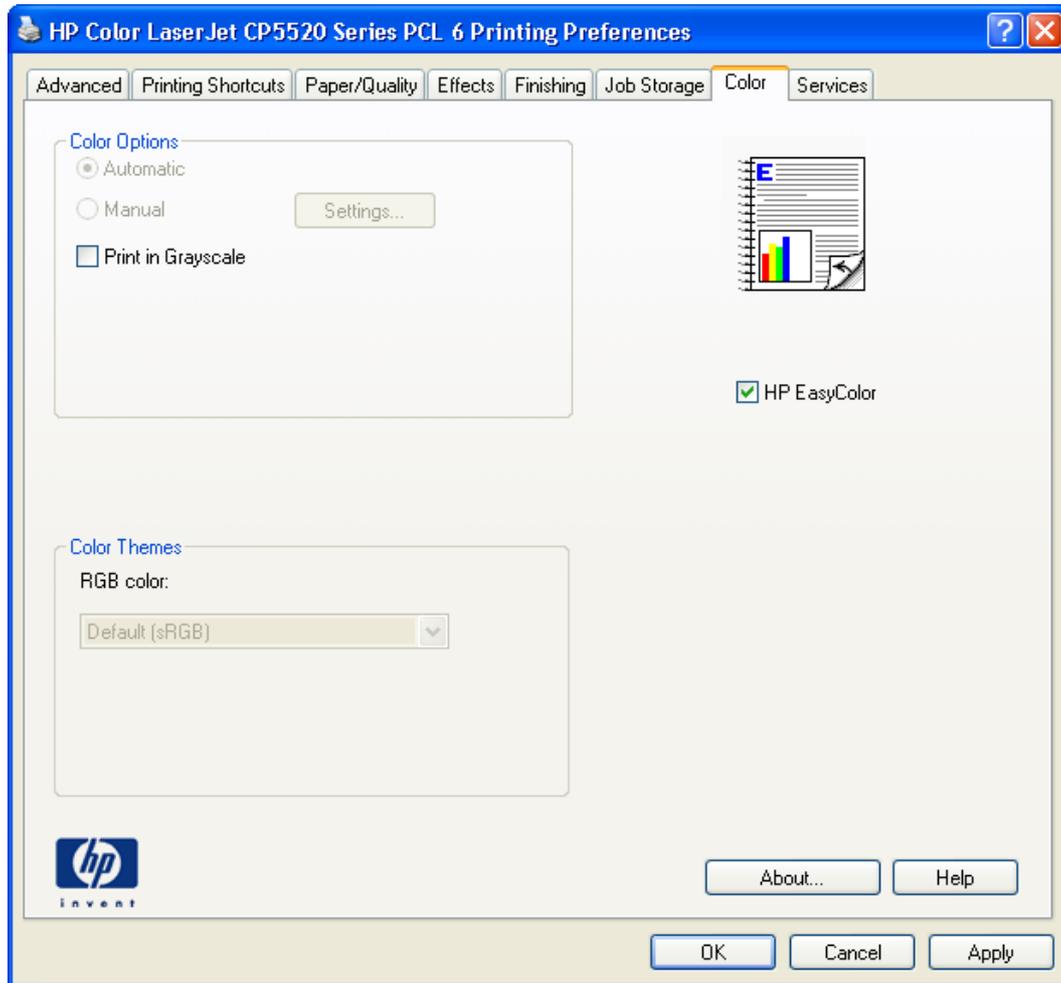
If no PIN number is assigned to the job, continue with the next step.
8. Press **OK** to delete the job.

Color tab features

 **NOTE:** The **Color** tab is located on the **Printing Preferences** tab set.

Use the **Color** tab to specify predefined color-option settings or to fine-tune the color treatments and halftoning. Color output can also be converted to grayscale. The **Color** tab is shown in the following figure.

Figure 4-18 Color tab



The **Color** tab contains the following sets of controls:

- [Color Options](#)
- [Color Themes](#)
- [Document preview image](#)
- [HP EasyColor](#)

Color Options

Use the **Color Options** group box to adjust the independent color controls. The settings affect the print job color rendering and print quality. The **Color Options** group box contains the following controls:

- **Automatic** option (default)
- **Manual** option
- **Settings** button (Click this button to open the **Color Settings** dialog box.)
- **Print in Grayscale** check box

Automatic

Use the **Automatic** option for color settings that automatically fine-tune the printed output. The **Automatic** color settings provide high-quality output while maintaining product performance for most color printing needs.

Manual

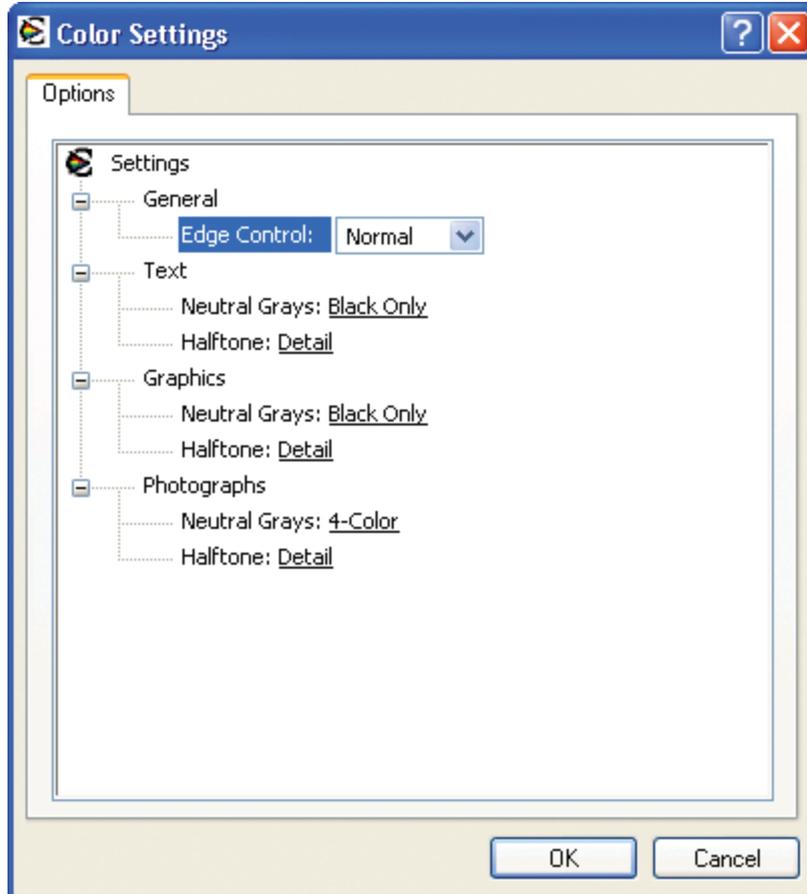


NOTE: To change color settings, first de-select the **HP EasyColor** option.

To change the color settings, select the **Manual** option, and then click **Settings**. The **Color Settings** dialog box appears.

To change the settings, make your selections by using the drop-down menus in the **Color Settings** dialog box, and then click **OK**. The following figure shows the **Color Settings** dialog box with "Custom" settings.

Figure 4-19 Color Settings dialog box



The **Color Settings** dialog box contains the following controls:

- **General**
 - **Edge Control**
- **Text**
 - **Neutral Grays**
 - **Halftone**
- **Graphics**
 - **Neutral Grays**
 - **Halftone**
- **Photographs**
 - **Neutral Grays**
 - **Halftone**

General

Use the **General** setting group to control **Edge Control** settings for all color printing.

Edge Control determines how edges are rendered. **Edge Control** consists of three components:

- Adaptive Halftoning, which increases edge sharpness
- Trapping, which reduces the effect of color plane misregistration by slightly overlapping the edges of adjacent objects
- Color Resolution Enhancement Technology (C-REt), which increases the apparent resolution by placing each dot for the smoothest edges

The **Edge Control** option offers four settings:

- **Off.** The **Off** setting turns Trapping, Adaptive Halftoning, and C-REt to **Off**.
- **Light.** The **Light** setting provides minimal trapping. Adaptive Halftoning is set to **On** and C-REt is set to **On**.
- **Normal.** The **Normal** setting provides the default trapping settings. Adaptive Halftoning is set to **On**, and C-REt is set to **On**.
- **Maximum.** The **Maximum** setting provides the most trapping. Adaptive Halftoning is set to **On**, and C-REt is set to **On**.

Neutral Grays

The **Neutral Grays** drop-down menu controls the selection of a device-dependent color table that is embedded in the product firmware. You can adjust the **Neutral Grays** setting independently for text, graphics, or photographs. The following options are available:

- **Black Only.** This option generates neutral colors (grays and black) by using only black toner. This option guarantees that neutral colors do not have a color cast. **Black Only** is the default setting for the **Text** and **Graphics** components.
- **4-Color.** This option generates neutral colors by combining all four colors of toner, which produces smoother gradients and transitions to non-neutral colors. It also produces the darkest possible black. **4-Color** is the default setting for **Photographs**.

Halftone

The **Halftone** setting controls the selection of a product-dependent halftone algorithm that is embedded in the product firmware. Halftoning is a method by which the product mixes the four primary colors (cyan, magenta, yellow, and black) in varying proportions to create the appearance of many colors. The **Halftone** options affect the resolution and clarity of the color on the printed page. You can select **Halftone** settings for text, graphics, and photographs independently.

The following Halftone options are available:

- **Detail.** This is the default option; it is useful for text and graphics that require sharp distinctions among lines or colors, or for images that contain a pattern or a high level of detail. Select this option for sharp edges and detail.
- **Smooth.** This option provides better results for large, solid-filled print areas. It also enhances photographs by smoothing out fine color gradations. Select this option for uniform and smooth area fills.

Color Themes

 **NOTE:** To change Color Themes, first de-select the **HP EasyColor** option.

The **Color Themes** group box contains the following **RGB color** options, which determines how colors are rendered:

- [Default \(sRGB\)](#)
- [Photo \(sRGB\)](#)
- [Photo \(Adobe RGB 1998\)](#)
- [Vivid \(sRGB\)](#)
- [None](#)
- [Custom Profile](#)

Default (sRGB)

Select **Default (sRGB)** for most printing needs. This setting instructs the product to interpret RGB color as sRGB, which is the accepted standard of Microsoft and the World Wide Web Consortium (W3C). Colors are matched to optimize the RGB colors on the screen and to provide vivid images and graphics.

Photo (sRGB)

Select **Photo (sRGB)** to enhance documents in which the content is mainly bitmap images, such as .GIF or .eps files. This setting instructs the product to use the best color matching for rendering sRGB bitmap images. This setting affects only raster data; it has no effect on text or vector-based graphics. Using glossy paper in combination with this setting provides the maximum enhancement.

Photo (Adobe RGB 1998)

Select **Photo (AdobeRGB 1998)** for documents that use the AdobeRGB color space rather than sRGB. For example, some digital cameras capture images in Adobe RGB, and documents that are produced with Adobe PhotoShop use the Adobe RGB color space. When printing from a professional software program that uses Adobe RGB, it is important that you turn off the color management in the software program and allow the product software to manage the color space.

Vivid (sRGB)

The **Vivid (sRGB)** feature instructs the printer to increase the color saturation in the midtones. Less colorful objects are rendered more colorfully. This value is recommended for printing business graphics.

None

Select **None** to instruct the printer to print RGB data in raw device mode. To render documents properly when this option is selected, you must manage color in the program in which you are working or in the operating system.

 **CAUTION:** Use this option only if you are familiar with the procedures for managing color in the software program or in the operating system.

Custom Profile

Select **Custom Profile** when you want to duplicate the printed output from other products or for using special effects. This setting instructs the product to use a custom profile to emulate color output from another product by modifying how color is rendered.

The default custom profile is an emulation of the color table used on the HP Color LaserJet 4650 product. The product holds only one custom profile at a time, so when you download and install another color table, it erases the default color table and installs the new one.

You can download custom profiles from the following Web site:

www.hp.com

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The document preview image appears in the upper-right corner of the following **Printing Preferences** driver tabs:

- **Printing Shortcuts**
- **Paper/Quality**
- **Effects**
- **Finishing**
- **Color**

Switching between tabs does not change the location or appearance of the document preview image. When you move the mouse over the document preview image, the mouse cursor changes from an arrow to a gloved hand. You can toggle between portrait and landscape page orientation by clicking the image.

HP EasyColor

If you are using the HP PCL 6 printer driver for Windows, the **HP EasyColor** technology automatically improves mixed-content documents that are printed from Microsoft Office programs. This technology scans documents and automatically adjusts photographic images in .JPEG or .PNG format.

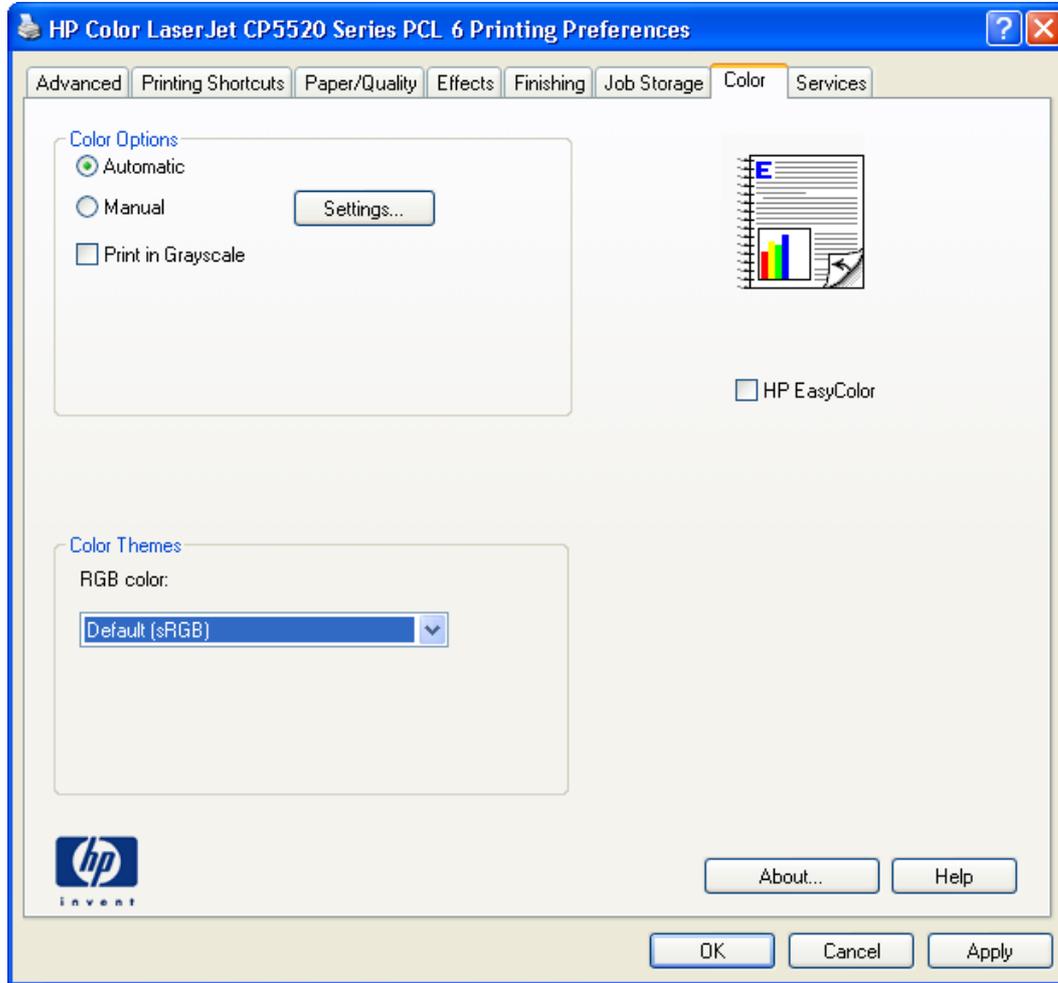
HP EasyColor technology enhances the entire image at one time, rather than dividing it into several pieces, which results in improved color consistency, sharper details, and faster printing.

In the following example, the images on the left were created without using the **HP EasyColor** option. The images on the right show the enhancements that result from using the **HP EasyColor** option.



The **HP EasyColor** option is enabled by default in the HP PCL 6 printer driver, so you do not need to make manual color adjustments. To disable the option so you can manually adjust the color settings, open the **Color** tab, and click the **HP EasyColor** check box to clear it.

Figure 4-20 Color tab

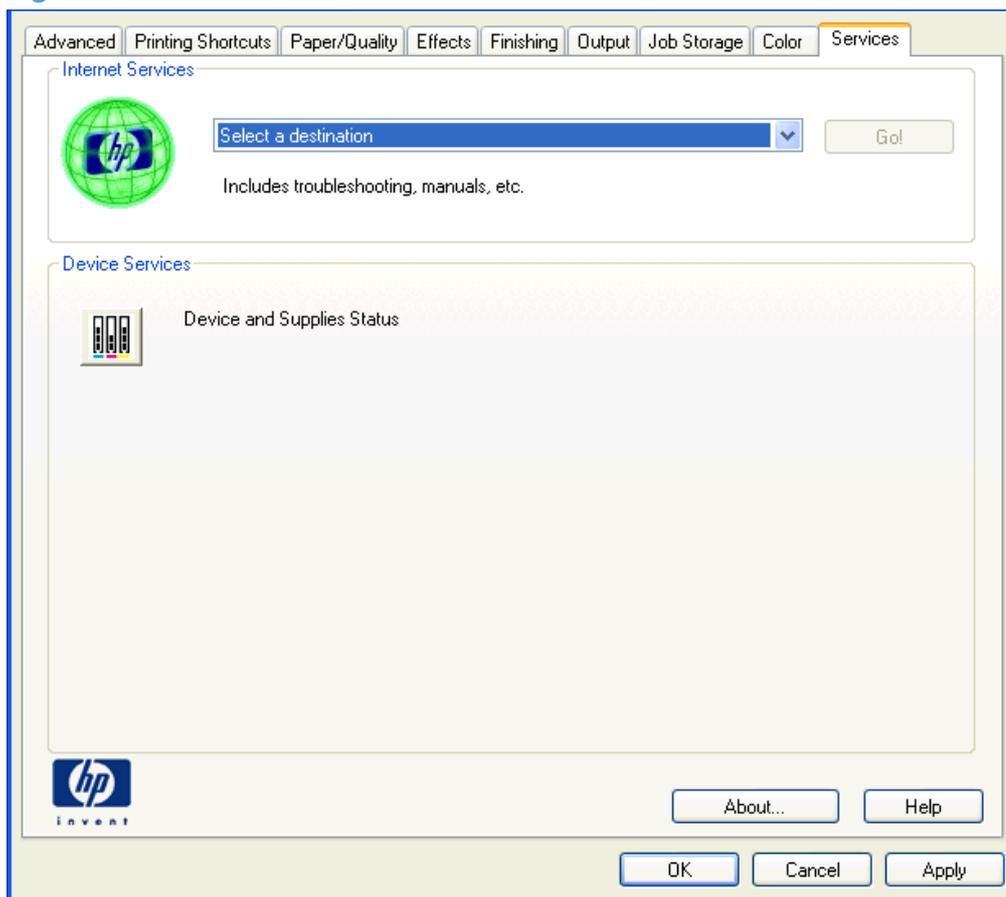


Services tab features

 **NOTE:** The **Services** tab is located on the **Printing Preferences** tab set or the **Properties** tab set.

The **Services** tab is shown in the following figure.

Figure 4-21 Services tab



The **Services** tab contains the following group boxes:

- [Internet Services](#)
- [Device services](#)

Internet Services

The **Internet Services** group box contains the **Select a destination** drop-down menu with the following selections:

- **Online diagnostic tools.** This is the HP Instant Support Web site, where you can find interactive tools and contacts for troubleshooting.
- **Support and troubleshooting.** This is the main Web site for HP Color LaserJet Enterprise CP5520 Series Printer product support.

- **Product manuals.** View or download HP Color LaserJet Enterprise CP5520 Series Printer product manuals.
- **Check for driver updates.** Automatically check your print drivers to see whether the correct and most up-to-date print drivers are installed.
- **Color printing access/usage.** Find information about enabling and disabling color printing and tracking color print-job usage.

If you have Internet access, select any of these items and click **Go!** to open the corresponding HP Web page.

Device services

Click the **Device and Supplies Status** icon to open the **Device Status** screen of the HP EWS, which shows supply levels and control panel status.

Click the **Shop for Supplies** link on the left to shop online for HP Color LaserJet Enterprise CP5520 Series Printer product supplies.

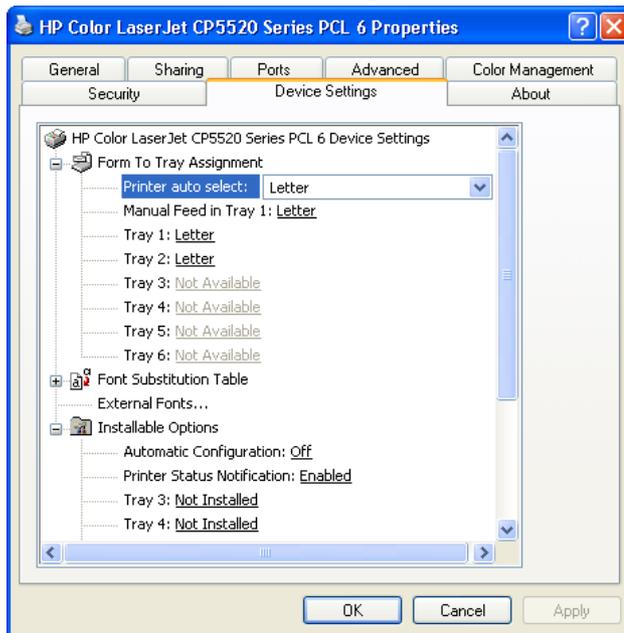
Device Settings tab features



NOTE: The **Device Settings** tab is located on the **Properties** tab set.

Available options depend on the feature. The following figure shows the **Device Settings** tab.

Figure 4-22 Device Settings tab



The **Device Settings** tab contains controls for paper-handling devices and controls for managing the HP Color LaserJet Enterprise CP5520 Series Printer product.

The **Device Settings** tab contains the following controls:

- [Form to Tray Assignment](#)
- [Font Substitution Table](#)
- [Installable Options](#)

Form to Tray Assignment

A network administrator can use **Form to Tray Assignment** to specify the paper size in each input tray.

The HP Color LaserJet Enterprise CP5520 Series Printer product supports more than one source of paper. You can assign a form (which defines the paper size and margins) to each paper source. When a form is matched to a source, you can select the form when you print. The product prints from the tray to which that form is assigned.

Network administrators can use the **Form to Tray Assignment** setting to specify, in the driver, the paper size that is loaded into each available input tray. The use of forms constrains the choices that are available in the paper-size list on the **Paper/Quality** tab in the **Printing Preferences** driver tabs. This constraint prevents (or reduces the likelihood of) tying up the product with paper-mount messages that occur when users request sizes or types that are not available.

The trays listed in the **Form to Tray Assignment** setting include standard trays and optional accessory trays. Generally, items that are installed separately have a separate **Installable Options** setting.

The input trays listed here are also listed as paper sources on the **Paper/Quality** tab.

Configuring the trays

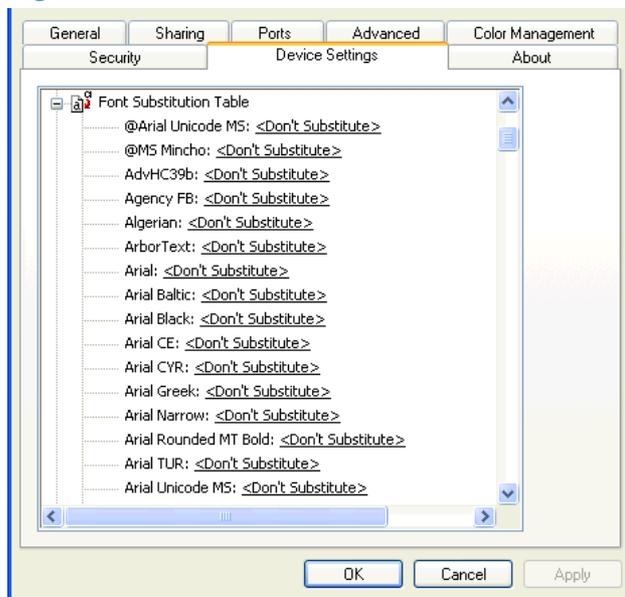
1. Select the appropriate tray in the **Form to Tray Assignment** list.
2. Use the drop-down menu to select the paper size (or form) that is loaded in that tray.
3. Repeat steps 1 and 2 for the remaining trays.
4. Click **OK** to enable your settings, or, if necessary, click **Cancel** to reconfigure all the trays, and remove the size and type constraints that have been imposed on the **Paper/Quality** tab.

Font Substitution Table

Use the plus (+) symbol next to the **Font Substitution Table** settings to change the TrueType to printer font mapping and to install and remove external fonts for the product through the **External Fonts** option. External fonts can be soft fonts or DIMM fonts.

Click the plus (+) symbol next to the **Font Substitution Table** option to open a list of fonts, as shown in the following figure. Use the settings to change the TrueType-to-product font mappings.

Figure 4-23 Font Substitution Table

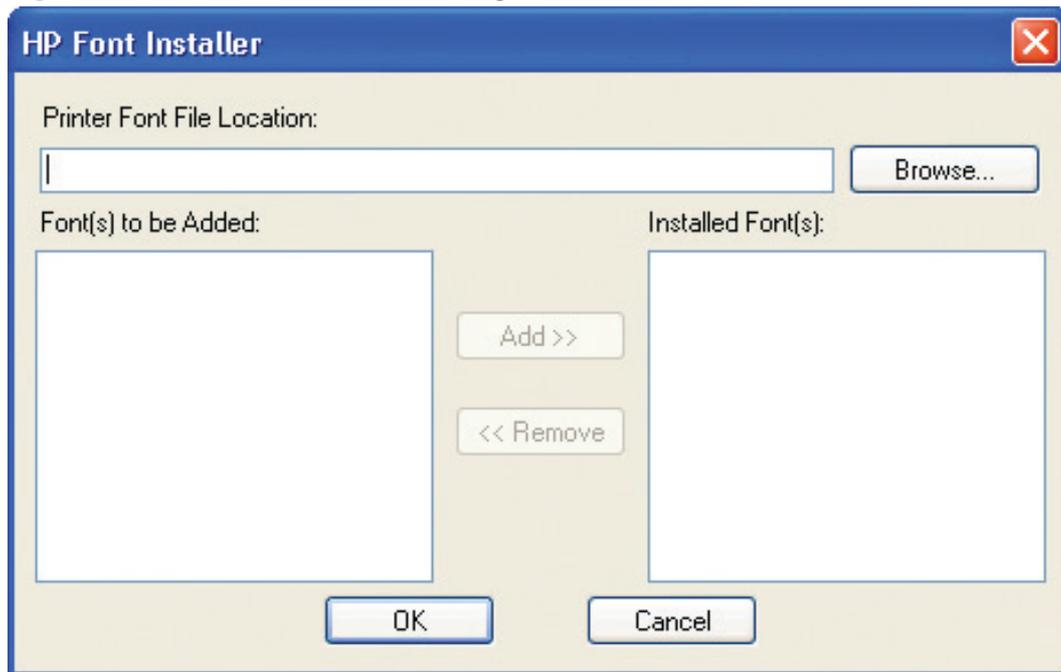


External Fonts

Use the **External Fonts** option to install and remove external fonts for the product. External fonts can be soft fonts or DIMM fonts.

Click the **External Fonts** option to make the **Properties** button available. Click **Properties** to open the **HP Font Installer** dialog box, which is shown in the following figure.

Figure 4-24 HP Font Installer dialog box



Installing external fonts

Follow these steps to install external fonts.

1. In Windows Vista and Windows 7, click the **Start** button, click **Control Panel**, click **Hardware and Sound**, and then click **Printers**.

In Windows XP, Windows Server 2003, and Windows Server 2008, click **Start**, click **Settings**, and then click **Printers and Faxes**.
2. Right-click the name of the product.
3. Click **Properties**.
4. Click the **Device Settings** tab.
5. Click the **External Fonts** option. The **Properties** button appears.
6. Click **Properties**. The **HP Font Installer** dialog box appears.
7. Type the name and path of the font metric file in the **Printer Font File Location** text box, or click **Browse** to locate the file on the computer. The font file names appear in the **Font(s) to be Added** window.
8. Select the fonts that you want to add, and then click **Add**. The fonts are installed and the file names appear in the **Installed Font(s)** window.
9. Click **OK** to close the **HP Font Installer** dialog box.

Removing external fonts

1. In Windows Vista and Windows 7, click the **Start** button, click **Control Panel**, click **Hardware and Sound**, and then click **Printers**.

In Windows XP, Windows Server 2003, and Windows Server 2008, click **Start**, click **Settings**, and then click **Printers and Faxes**.
2. Right-click the name of the product.
3. Click **Properties**.
4. Click the **Device Settings** tab.
5. Click the **External Fonts** option. The **Properties** button appears.
6. Click **Properties**. The **HP Font Installer** dialog box appears. The external fonts that are installed appear in the **Installed Fonts** window.
7. Select the fonts that you want to remove, and then click **Remove**. The fonts are removed.
8. Click **OK** to close the **HP Font Installer** dialog box.

Installable Options

Items under **Installable Options** are automatically populated and their defaults set when the driver is installed.

The HP Color LaserJet Enterprise CP5520 Series Printer product has printing options that you can install and configure in this section. The following controls are available:

- [Automatic Configuration](#)
- [Printer Status Notification](#)
- [Tray 3](#)
- [Tray 4](#)
- [Tray 5](#)
- [Tray 6](#)
- [Duplex Unit \(for 2-Sided Printing\)](#)
- [Allow Manual Duplexing](#)
- [Printer Hard Disk](#)
- [Job Storage](#)
- [Job Separator](#)
- [Mopier Mode](#)

Automatic Configuration

Use the **Device Settings** tab to tell the driver about the hardware configuration of the product. If bidirectional communication is enabled in a supported environment, update this tab by selecting the **Update Now** setting in the **Automatic Configuration** setting. The default setting is **Off**. After an automatic configuration, the setting returns to **Off** after the changes are made.

If your environment does not support bidirectional communication, the **Update Now** setting is unavailable, so you must manually configure the options on this tab.

If you have more than one driver installed for the product (for example, the default HP PCL 6 Print Driver and the HP PCL 5 Universal Print Driver), the Update Now feature works automatically only on the driver on which it is activated. The other driver will not be updated, and might show the default setting for the specific product model.

Printer Status Notification

When enabled, this option displays a small status-notification window in the lower-right corner of the screen. This window is visible while printing a document or while viewing the printer driver settings. It provides information about the status of the document being printed as well as information about the printer, including the current status of the printer supplies.

Tray 3

This control specifies whether you have Tray 3, an additional 500-sheet tray, installed on the product. Tray 3 comes standard on all HP Color LaserJet Enterprise CP5520 Series Printer models.

Tray 4

This control specifies whether you have Tray 4, an additional 500-sheet tray, installed on the product. Tray 4 comes standard on the HP Color LaserJet CP5525xh product model, and is optional on the other HP Color LaserJet Enterprise CP5520 Series Printer models.

Tray 5

This control specifies whether you have Tray 5, an additional 500-sheet tray, installed on the product. Tray 5 comes standard on the HP Color LaserJet CP5525xh product model, and is optional on the other HP Color LaserJet Enterprise CP5520 Series Printer models.

Tray 6

This control specifies whether you have Tray 6, an additional 500-sheet tray, installed on the product. Tray6 comes standard on the HP Color LaserJet CP5525xh product model, and is optional on the other HP Color LaserJet Enterprise CP5520 Series Printer models.

Duplex Unit (for 2-Sided Printing)

The duplexing unit comes installed on the HP Color LaserJet CP5525dn and the HP Color LaserJet CP5525xh product models.



NOTE: The HP Color LaserJet Enterprise CP5520 Series Printer product supports smart duplexing. The product uses the smart duplexing feature to detect information on both sides of the print job pages and only runs the pages through the duplexing unit if printable information appears on the second side of the page.

Allow Manual Duplexing

Select **Allow Manual Duplexing** to print on both sides of any supported size and most types of paper (except transparencies, envelopes, and labels). To use this feature, you must reinsert the paper stack into the input tray to print the second side. The product pauses while you make this adjustment.

This setting is enabled by default.

Printer Hard Disk

When this option is installed, the **Job Storage** option and the **Mopier Mode** are enabled in the print driver. Use the **Job Storage** option to store print jobs and then print them later from the control panel. The multiple-original print (mopy) function is an HP-designed feature that produces multiple, collated copies from a single print job.

Job Storage

When **Job Storage** is enabled, the product can store print jobs so that you can gain access to those print jobs later at the control panel.

Job Separator

Use this control to specify whether a print job identifier page should be printed between print jobs.

Mopier Mode

The multiple-original print (mopy) function is an HP-designed feature that produces multiple, collated copies from a single print job. Multiple-original printing (mopying) increases performance and reduces network traffic by transmitting the job to the product once, and then storing it in memory or on the hard disk. The remainder of the copies are printed at the fastest speed. All documents that are printed in mopier mode can be created, controlled, managed, and finished from the computer, which eliminates the extra step of using a photocopier.

The HP Color LaserJet Enterprise CP5520 Series Printer supports the transmit-once mopying feature when the **Mopier Mode:** setting on the **Device Settings** tab is **Enabled**.

When you use the HP PCL 6 Print Driver, mopying is performed in one of two ways: either through the software or through the product hardware. When mopier mode is enabled, mopying takes place through the product hardware. One copy of a multiple-page print job is transmitted once through the network to the product, together with a printer job language (PJM) command directing the product to make the specified number of copies.

When you disable mopier mode, you are not necessarily disabling multiple collated copies, which the driver can still perform through the software rather than the product hardware (the mopying path that is disabled when you change the **Mopier Mode** setting to **Disabled**). However, a multiple-copy print

job that is sent when the mopier is disabled loses the advantage of transmitting the print job once, because the job is sent through the network for each collated copy.

Mopier mode and collation

Mopying and collating print jobs are independent but closely related functions. Mopying, the ability to send original print jobs to the product, is performed by the print driver. Collating can be controlled by either the print driver or the document software program. The mopying mode is selected by default in the driver, and can be disabled by changing the **Mopier Mode** setting on the **Device Settings** tab to **Disabled**.

Control collation through the print driver by selecting or clearing the **Collated** check box on the **Advanced** tab. Click **Copy Count** under the **Paper Output** setting. You can clear the check box, which is available only when the **Copy Count** option is set to more than 1 copy, to allow the software program to control collation.

To receive uncollated multiple copies of a print job, you must clear the **Collated** check box *and* make sure that the software program collation feature is not selected.

The following table shows the relation between mopier mode settings and collation settings in the software program and the driver. The first three columns show the settings; the last column, "Expected result", shows how a 3-page print job would appear.

Table 4-4 Driver mopier mode and collation settings

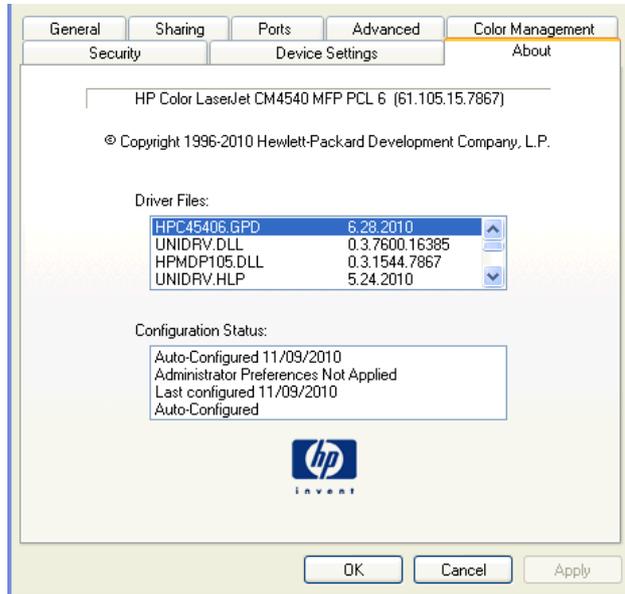
Mopier mode	Application collation	Driver collation	Expected result
Disabled	Not selected	Not selected	3 copies uncollated
Disabled	Not selected	Selected	3 copies uncollated
Disabled	Selected	Not selected	3 copies collated
Disabled	Selected	Selected	3 copies collated
Enabled	Not selected	Not selected	3 copies uncollated
Enabled	Not selected	Selected	3 copies uncollated
Enabled	Selected	Not selected	3 copies collated
Enabled	Selected	Selected	3 copies collated

About tab features

 **NOTE:** The **About** tab is located on the **Properties** tab set.

The **About** tab provides detailed information about driver component versions. It contains an overall build version number (in parentheses after the model name) together with specific information about each of the components. The information varies according to the HP Color LaserJet Enterprise CP5520 Series Printer model number, driver, date, and versions. The **About** tab is shown in the following figure.

Figure 4-25 About tab



The **About** tab lists driver installation file names and their version numbers. The **About** tab also indicates whether the driver was autoconfigured, whether administrator preferences were set, the date the driver was last configured, and whether the configuration is autoconfigured or user-configured.

The **About** button is also available on most driver screens. The **About** button provides a driver version number and creation date.

5 Macintosh software and utilities

Introduction

The HP Color LaserJet Enterprise CP5520 Series Printer comes with software and installers for Apple, Inc. Macintosh systems.

This chapter provides procedures for installing and removing the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software for Macintosh operating systems, as well as descriptions about the software and utilities. The chapter provides information about these topics:

- [Determine the Mac driver version](#)
- [Supported operating systems for Macintosh](#)
- [Printing-system software](#)
- [Macintosh installation instructions](#)
- [Remove software from Mac operating systems](#)
- [HP Printer Utility for Mac](#)

Determine the Mac driver version

Mac OS X 10.5 and 10.6

1. From the Apple menu , click the **System Preferences** menu and then click the **Print & Fax** icon.
2. Select the product in the left side of the window.
3. Click the **Options & Supplies** button.
4. Click the **General** tab to view the driver version number.

Supported operating systems for Macintosh

The product supports the following Mac operating systems:

- Mac OS X 10.4, 10.5, 10.6, and later



NOTE: For Mac OS X 10.4 and later, PPC and Intel® Core™ Processor Macs are supported.

Macintosh system requirements

Hardware requirements

- PowerPC G3, G4, G5 or Intel Core processor
- 256 MB RAM
- 150 MB of available hard-disk space
- CD-ROM drive or Internet connection

Supported printer drivers for Mac

The HP LaserJet software installer provides PostScript® Printer Description (PPD) files, Printer Dialog Extensions (PDEs), and the HP Utility for use with Mac OS X computers. The HP printer PPD and PDE files, in combination with the built-in Apple PostScript printer drivers, provide full printing functionality and access to specific HP printer features.

Change printer-driver settings for Mac

Change the settings for all print jobs until the software program is closed	Change the default settings for all print jobs	Change the product configuration settings
<ol style="list-style-type: none">1. On the File menu, click the Print button.2. Change the settings that you want on the various menus.	<ol style="list-style-type: none">1. On the File menu, click the Print button.2. Change the settings that you want on the various menus.3. On the Presets menu, click the Save As... option and type a name for the preset. <p>These settings are saved in the Presets menu. To use the new settings, you must select the saved preset option every time you open a program and print.</p>	<p>Mac OS X 10.4</p> <ol style="list-style-type: none">1. From the Apple menu , click the System Preferences menu and then click the Print & Fax icon.2. Click the Printer Setup button.3. Click the Installable Options menu. <p>Mac OS X 10.5 and 10.6</p> <ol style="list-style-type: none">1. From the Apple menu , click the System Preferences menu and then click the Print & Fax icon.2. Select the product in the left side of the window.3. Click the Options & Supplies button.4. Click the Driver tab.5. Configure the installed options.

Printing-system software

The product includes the following software for Macintosh computers:

- PDEs for Mac OS X only (v10.4, v10.5, and later)

PDEs

Printer Dialog Extensions (PDEs) are code plug-ins that provide access to product features, such as number of copies, duplexing, and quality settings. The PDEs are HP additions to Apple's print driver.

HP Embedded Web Server

Mac OS X v10.4 and later support the HP Embedded Web Server (HP EWS). Use the HP LaserJet Utility to control features that are not available in the driver. Use the HP EWS to perform the following tasks:

- Name the product and assign it to a zone on the AppleTalk network.
- Change product settings.

- Set a password for the product.
- From the computer, lock out functions on the control panel to prevent unauthorized access (see the printing-software help).

Install notes

This text file contains important information about product features, instructions for installing the printing-system software, and technical assistance.

Online help

This HTML-based help system replaces the Apple Guide help system that was provided with Mac OS 9.x HP products. The help system is in English only, and can be viewed through a browser or in the Macintosh OS Help Center.

Screen fonts

The printing-system software for Macintosh operating systems no longer includes a font installer. The HP Color LaserJet Enterprise CP5520 Series Printer product uses previously installed system fonts when it is installed on a Macintosh computer.

Macintosh installation instructions

On a Macintosh computer, the installation procedures are basically the same for a network administrator, a network client, and a single user. Install the software on any computer that has save rights to the product. Users must have Administrator rights to install the software.

 **NOTE:** If the computer is connected to the product by a LocalTalk (printer port) connection, you must configure the AppleTalk (or network) control panel for the correct connection to communicate with the product. You must set up the HP Color LaserJet Enterprise CP5520 Series Printer, connect it to the computer or network, and turn it on *before* the software is installed. Macintosh operating systems do not support parallel connections.

The Macintosh partition contains an installer program for each language. Find the appropriate language for the operating system that is being used, and then use the installer program for that language.

 **NOTE:** Detailed installation steps can be found in [Mac OS X installation on page 111](#).

HP LaserJet software CD, Macintosh partition

The files contained in the Macintosh partition of the HP LaserJet software CD are grouped by language and reside in the following directory:

- HP Color LaserJet Enterprise CP5520 Series Printer
- Documents

 **NOTE:** File layouts differ by language for each regional version of the software CD.

Install the HP LaserJet printing-system software for the Macintosh OS

Topics:

- [General installation instructions](#)
- [Mac OS X installation](#)
- [Setup instructions](#)

General installation instructions

1. Insert the Macintosh printing-system software CD into the CD-ROM drive.

 **NOTE:** If the CD screen does not open automatically, double-click the CD-ROM icon on the desktop to open the CD-ROM window.

2. Double-click the HP Color LaserJet Enterprise CP5520 Series Printer icon.

3. Follow the onscreen instructions to complete the software installation.

 **NOTE:** If you are installing the printing-system software on a Macintosh OS X system, be patient. The installer must perform an initial search of the computer for up to 1 minute. During this time the installer might appear to be stalled.

4. When software installation is complete, click **Quit**. Use the following chart to finish setting up the product:

The software program that you use to finish setting up the product varies by operating system. The following table shows the print setup tools that are available.

Table 5-1 Adding a product in Macintosh operating systems

Operating System	Print Center	Printer Setup Utility
Mac OS X v10.4	x	x
Mac OS X v10.5 & v10.6	x	x

Mac OS X installation

This section provides information about the various installation dialog-box sequences for the Mac OS X operating system.

Main Install dialog box sequence

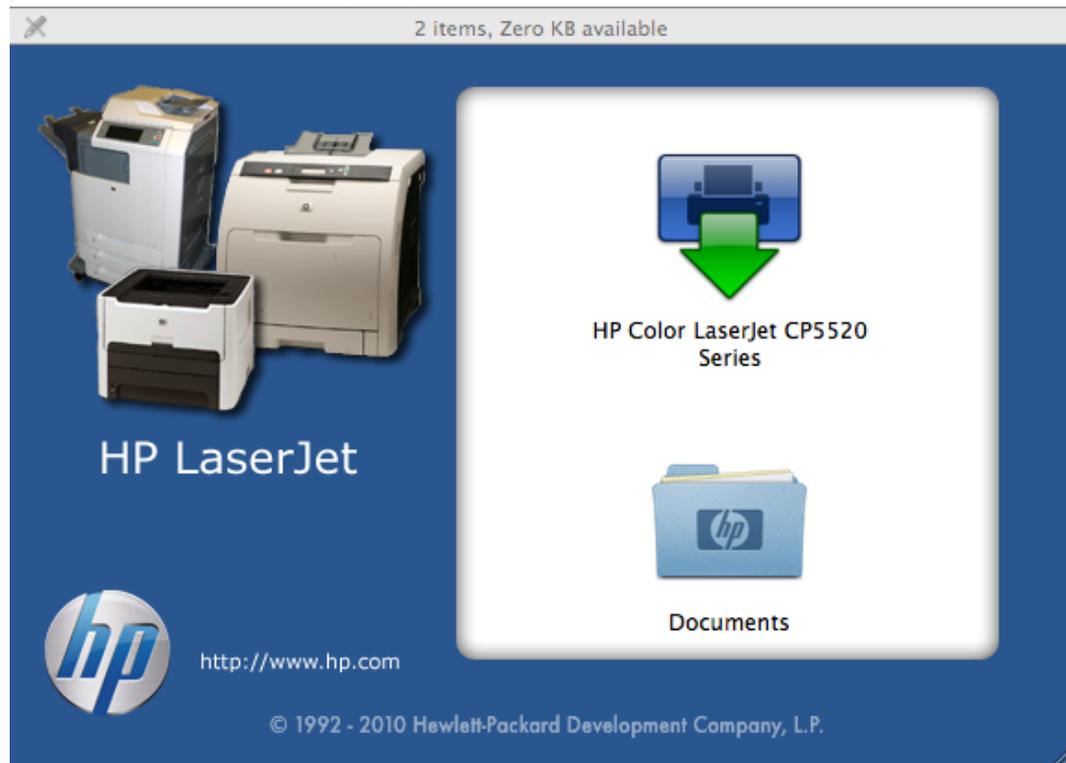
 **NOTE:** If you are connecting the product to a network, connect the network cable to the network port. If you are connecting the product to a computer by using the USB cable, install the software **before** connecting the USB cable.

1. Insert the HP Color LaserJet Enterprise CP5520 Series Printer printing-system software CD in the CD-ROM drive.

 **NOTE:** If the CD screen does not open automatically when the CD is put into the CD-ROM drive, double-click the CD-ROM icon on the desktop to open the installer folder.

2. The installer program opens.

Figure 5-1 Mac installer opening screen



 **NOTE:** The file name displayed on your HP LaserJet installer browser screen may be different than the file name displayed in the above figure.

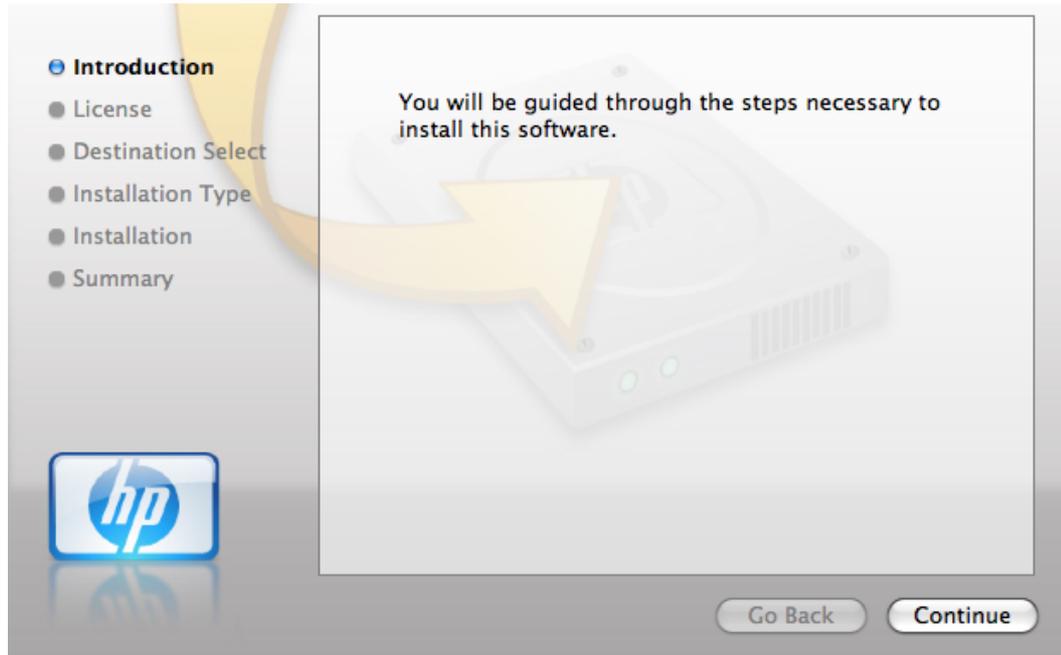
 **NOTE:** In the HP LaserJet installer browser screen, double-click the **Documents** icon to gain access to the product manuals. Select a language folder and locate the available ReadMe file which is in .htm format.

 **NOTE:** For more information, see the User Guide on the web at:

www.hp.com/go/cljcp5525_manuals

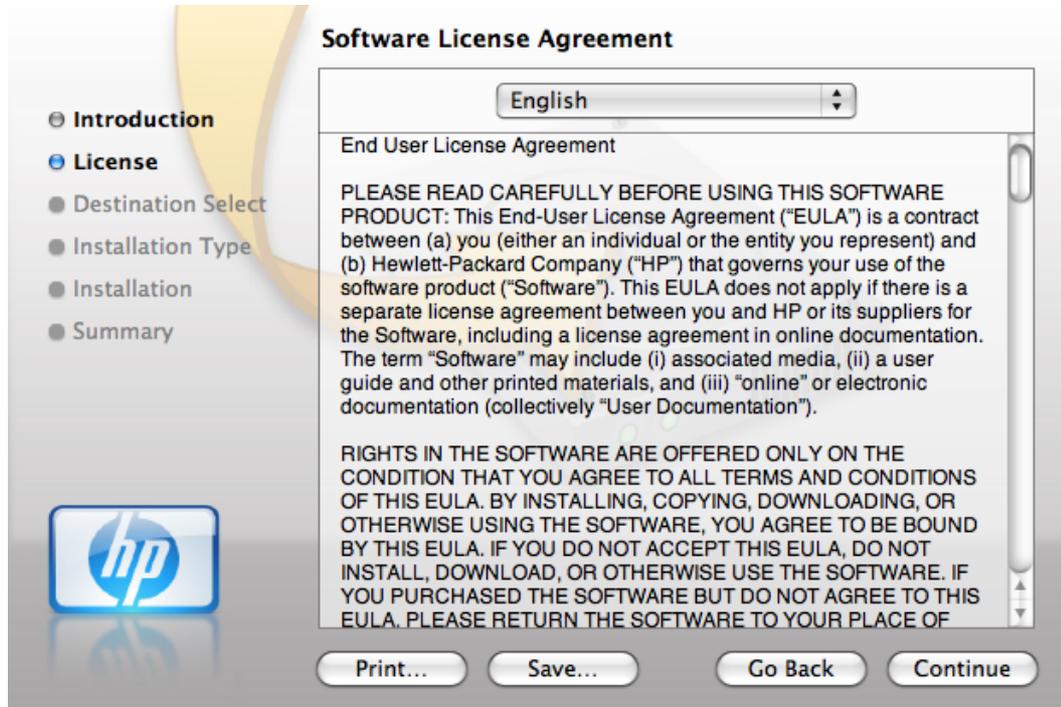
3. In the HP LaserJet installer browser screen, double-click the product icon to open the installer program Introduction dialog.

Figure 5-2 Mac installer Introduction dialog



4. Click the **Continue** button. The License dialog appears.

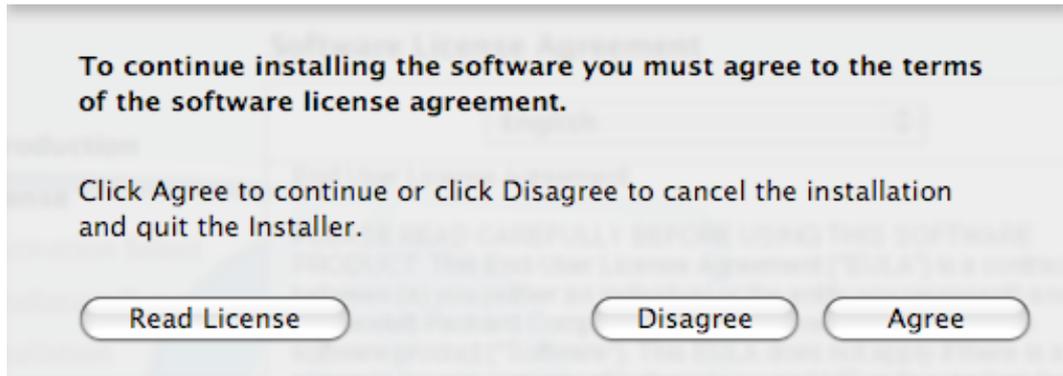
Figure 5-3 Mac installer License dialog



5. You can save or print the license file by clicking the **Save** button or the **Print** button.

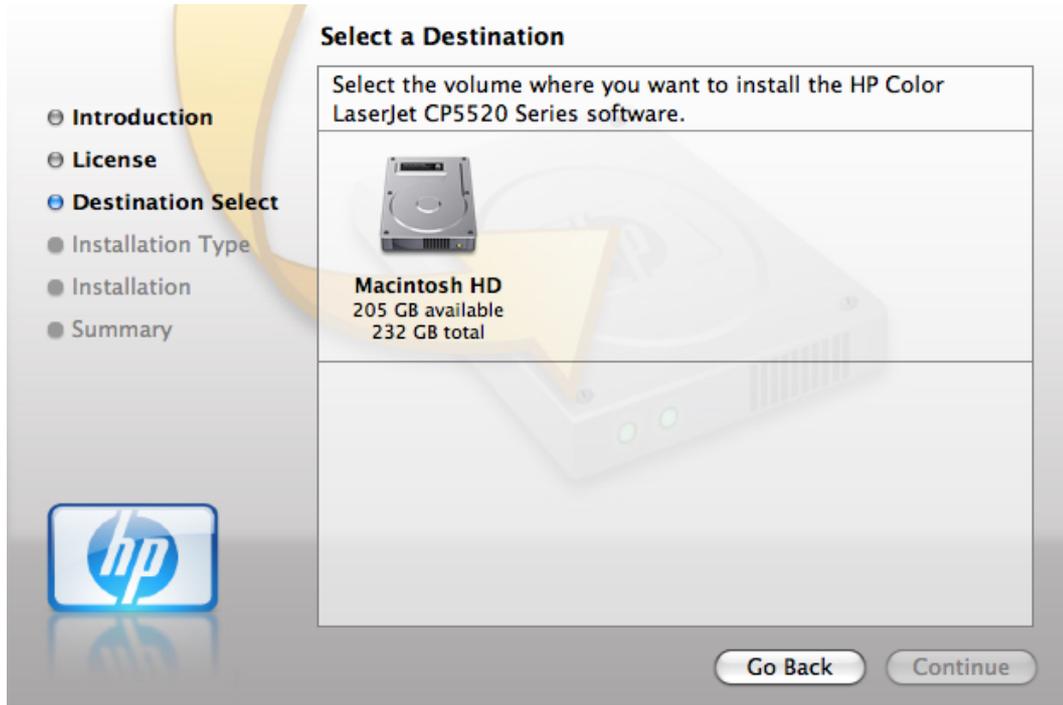
6. Read the software license agreement, and then click the **Continue** file. The license agreement dialog appears.

Figure 5-4 Mac installer license agreement dialog



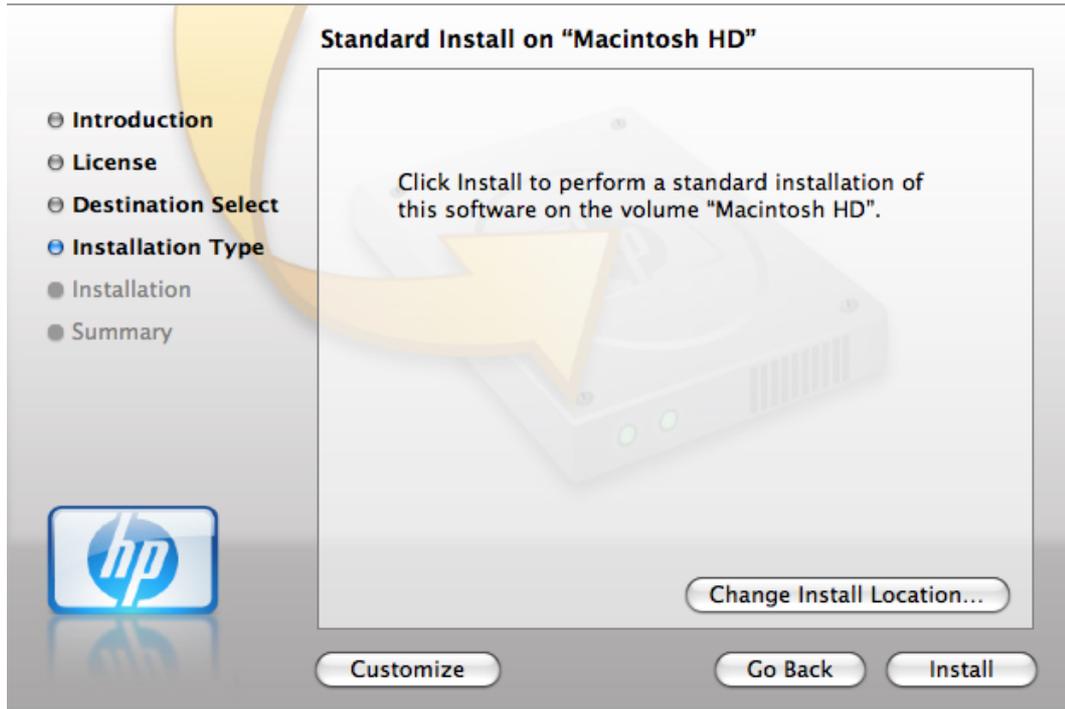
7. Click the **Disagree** button to end the installation and close the installer, or click the **Agree** button to continue the installation.

Figure 5-5 Mac installer Destination dialog



8. Select the destination for the software and click **Continue**. The Installation Type dialog appears.

Figure 5-6 Mac installer Installation Type dialog



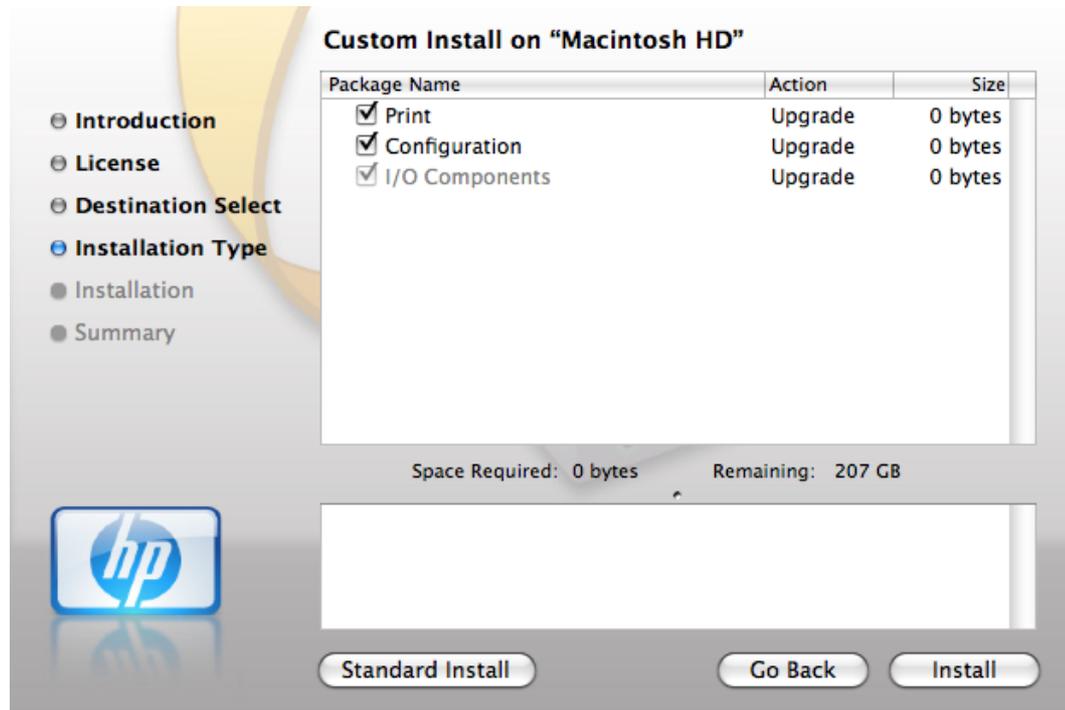
9. Click the **Go Back** button to go back to the previous screen.

To change the installation location, click the **Change Install Location** button, navigate to the desired location, click the **Continue** button, and then click the **Install** button. Go to step 9.

Click the **Install** button to continue the standard installation. Go to step 9.

Click the **Customize** button to open a dialog that lists separate software programs that you can choose to install.

Figure 5-7 Mac installer custom installation dialog



Click the **Standard Install** button to revert to the standard installation process.

Click **Go Back** to go back to the previous dialog box.

Use the check boxes in the **Package Name** list to select the printing-system components to install, and then click the **Install** button.

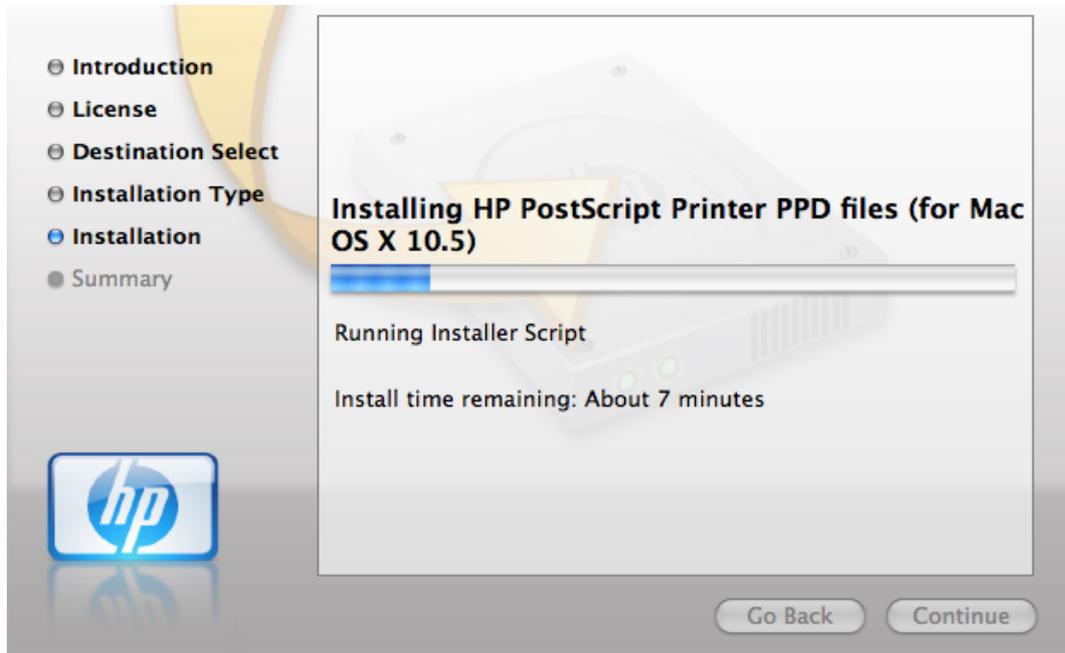
10. An authentication dialog appears. Type the required user name and password, and then click the **OK** button.

Figure 5-8 Mac installer authentication dialog



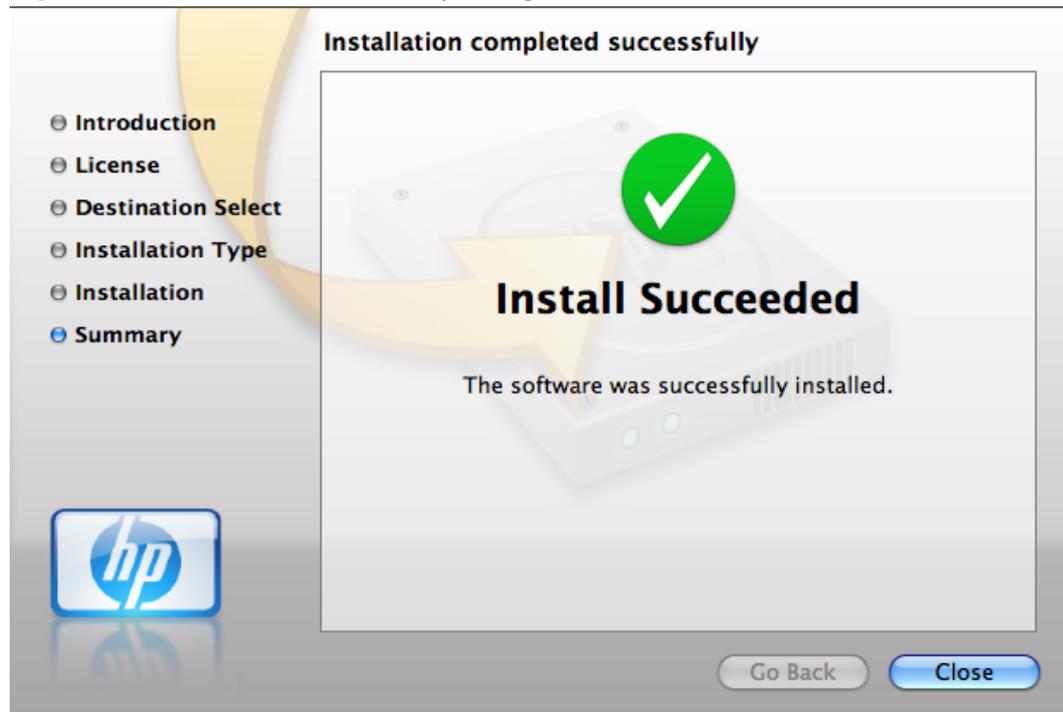
11. The Installation dialog appears. A progress bar shows the percentage of the installation progress that has been completed. Allow the program to install the software.

Figure 5-9 Mac installer Installation dialog



12. When the installation is complete, the **Summary** dialog appears, stating that the installation was successful.

Figure 5-10 Mac installer Summary dialog



Click the **Close** button to exit the installer.

 **NOTE:** Complete the instructions in the next section to set up a printer queue.

Setup instructions

This section contains information about the following topics:

- [Setting up a printer with Mac OS X v10.4, v10.5, v.10.6, and later](#)
- [Troubleshooting the product setup](#)

Setting up a printer with Mac OS X v10.4, v10.5, v.10.6, and later

Complete these steps *after* completing the printing-system software installation.

1. If you are installing the product using a USB connection, connect the USB cable between the product and the computer. Turn on the product. If you are installing using a network connection, verify that the network cable is connected to the product and that the product is on.
2. Mac OS X 10.4: In the **Applications** folder (in the **Finder** utility), open the **Utilities** folder, and then run the **Printer Setup Utility**.

-or-

Mac OS X 10.5 and 10.6: From the Apple menu , click the **System Preferences** menu, then click the **Print & Fax** icon.

3. If you are installing the product using a USB connection, verify that the product appears in the printer list. The **Name** column in the printer list should display the product name. If this is the case, the USB setup is complete.

If the product does not appear, or if the correct information does not appear in the field, see [Troubleshooting the product setup on page 121](#).

If you are installing the product using a network connection, continue with the following steps.

4. Mac OS X 10.4: Click **Add** in the **Printer List** to open the **Printer Browser** screen.

-or-

Max OS X 10.5 and 10.6: Click the plus symbol in the **Printer List** to open the **Printer Browser** screen.

5. You can use either Bonjour (default browser) or IP Printing for the network connection.

 **NOTE:** Bonjour is the easiest method and is the best method to use if the product is installed on your local network.

IP Printing *must* be used if you are installing the product on a different network.

If you are using Bonjour, carry out the following steps:

- a. Click the **Default Browser** tab.
- b. Select the product from the list. The software verifies that the product is connected to the network and the **Print Using** field is automatically populated with the correct PPD for the product.

 **NOTE:** If you are on a network that has more than one product, print a configuration page and match the Bonjour Printer Name to the name on the list to identify the product that you are installing.

 **NOTE:** If the product does not appear in the list, verify that the product is on and connected to the network, then try turning the product off and then on again. If the product PPD does not appear in the **Print Using** pull-down list, turn the computer off and then on again, then restart the setup process. For more troubleshooting information, see [Troubleshooting the product setup on page 121](#).

- c. Click the **Add** button.
- d. You are finished with the setup process.

If you are using the IP Printing method, carry out the following steps:

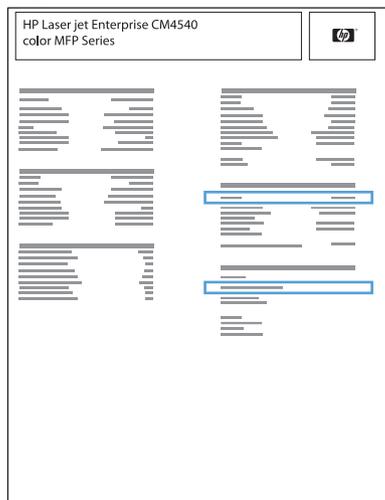
- a. Click the **IP Printer** tab.
- b. Choose **HP Jet Direct – Socket** from the **Protocol** pull-down menu. This is the recommended setting for HP products.
- c. At the product control panel, touch the **Network Address** button to identify the product IP address or host name.

Follow these steps to print the configuration pages.

If the **Network Address** button is not visible, you can find the IP address or host name by printing a configuration page.

- i. At the product control panel, scroll to and touch the **Administration** button.
- ii. Open the following menus:
 - Reports
 - Configuration/Status Pages
 - Configuration Page
- iii. Touch the **View** button to view the information on the control panel, or touch the **Print** button to print the pages.
- iv. Find the IP address on the Jetdirect page.

Figure 5-11 IP location on the Jetdirect page



- v. IPv4: If the IP address is 0.0.0.0, or 192.0.0.192, or 169.254.x.x, you must manually configure the IP address. Otherwise, the network configuration was successful.

IPv6: If the IP address begins with "fe80:", the product should be able to print. If not, you must manually configure the IP address.

- d. Type the IP address into the **Address** field on the add printer screen.
 - e. The **Name**, **Location**, and **Print Using** information will automatically be filled in. If the product PPD does not appear in the **Print Using** field, turn the computer off and then on again and restart the setup process.
6. Mac OS v10.4: Select the product and click **Add**. The **Installable Options** screen appears.

-or-

Mac OS v10.5 and v10.6: Select the product ,click the **Options and Supplies** button, then click the **Driver** button.

7. In the **Optional Trays:** drop-down menu, select the trays that are installed on the product. In Mac OS v 10.5 and v10.6 each tray is listed with a checkbox.
8. For Mac OS v10.4: In the **Collation in Printer:** drop-down menu, select the amount of memory and hard disk combination that is installed in the product.

-or-

For Mac OS v10.5 and v10.6: In the **Collation in Printer:** drop-down menu, select the checkbox next to the printer disk. The amount of memory is set automatically.
9. If the product has a hard disk, select **Installed** from the **Printer Hard Disk** drop-down menu.
10. If the product has a duplex unit, select the **Duplex Unit** check box.
11. In the **Paper Matching:** drop-down menu, select one of the following options:
 - **Prompt User for correct size**
 - **Nearest Size & Scale**
 - **Nearest Size & Crop**
12. After you have selected the settings in the **Installable Options** screen, click **Continue**. The product name appears in the **Printer List** and the setup is complete.

Troubleshooting the product setup

If the product does not appear in the printer list after an installation:

Complete each one of these solutions in the order given, and restart the setup process after each one to see if the issue has been resolved.

- Verify that the USB or network cable is connected between the product and the computer and that the product is powered on.
- Try disconnecting and reconnecting the cable. If the computer has more than one USB port, try a different USB port.
- Turn the product off and then back on.
- Turn the computer off and then back on.
- If you are using a USB hub on the computer, disconnect any other USB devices from the hub.

If the wrong PPD appears in the Kind column in the printer list after installation:

1. Unplug the USB cable.
2. Delete the print queue with the incorrect type (for example, Generic PostScript Printer).
3. Reinstall the printing-system software.
4. Turn the computer off and then on.
5. Reconnect the USB cable from the computer to the product.

If these steps do not resolve the problem, delete the incorrect print queue, click **Add**, choose the product from the list, and then browse manually for the product PPD.

Remove software from Mac operating systems

You must have administrator rights to remove the software.

1. Open **System Preferences**.
2. Select **Print & Fax**.
3. Highlight the product.
4. Click the minus (-) symbol.
5. Delete the print queue, if necessary.
6. Delete the .GZ file from the following hard-drive folder:
 - **Mac OS X 10.4:** Select **Macintosh HD**, then go to the following directory `Library/Printers/PPDs/Contents/Resources/<lang>.lproj`, where <lang> is the two-letter language code for the language that you are using.
 - **Mac OS X 10.5 and 10.6:** Select **Macintosh HD**, then go to the following directory `Library/Printers/PPDs/Contents/Resources`.

HP Printer Utility for Mac

The HP Printer Utility is a software program that gives you access to the product in Mac OS X.

The HP Printer Utility does not work when it is installed by using the AppleTalk protocol. Use IP, Bonjour or Rendezvous to enable the HP Printer Utility.

The following topics are discussed:

- [Access to the HP \(Printer\) Utility](#)
- [Supplies Status](#)
- [Device Information](#)
- [Color Usage](#)
- [File Upload](#)
- [Update Firmware](#)
- [Upload Fonts](#)
- [Commands](#)
- [HP ePrint Center](#)
- [Duplex mode](#)
- [Trays Configuration](#)
- [Stored Jobs](#)
- [E-mail Alerts](#)
- [Network Settings](#)
- [Supplies Management](#)
- [Protect Direct Ports](#)
- [Additional Settings](#)
- [Restrict Color](#)

Click the **HP Support** button to go to the **HP Online Support** Web site for more help on any of these topics.

Access to the HP (Printer) Utility

In Mac OS X v10.4, v10.5, v 10.6, and later, follow these steps to gain access to the HP (Printer) Utility:

1. Mac OS X 10.4 and above: Open the Finder, click **Applications**, click **Utilities**, and then double-click **Printer Setup Utility**.

-or-

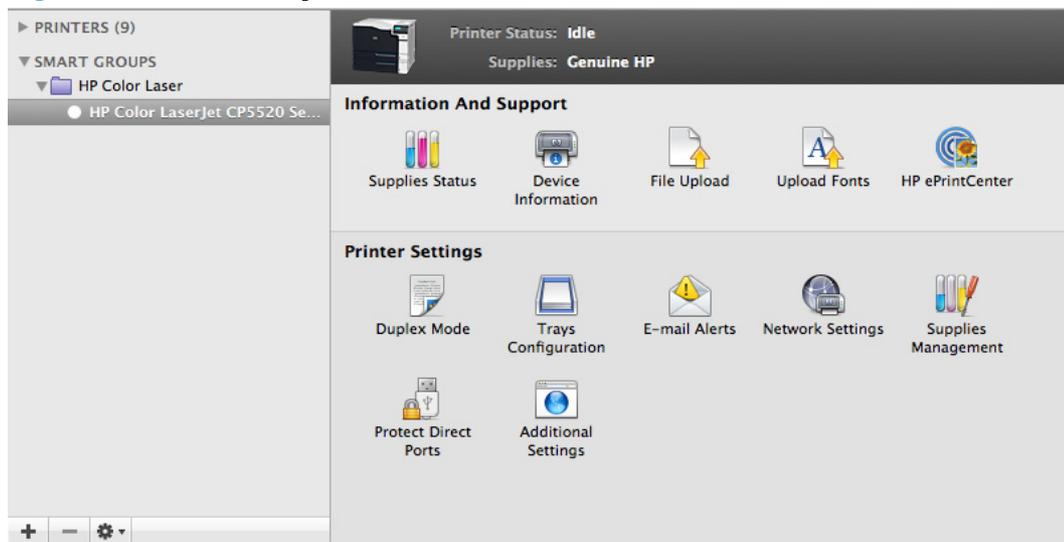
Mac OS X 10.5 and above: From the **Printer Browser** menu, click **Printer Utility**

-or-

Mac OS X 10.5 and above: From the **Print Queue**, click the **Utility** icon.

2. The main **HP Utility** screen appears. Click the product in the **Printers** list.

Figure 5-12 HP Utility main screen

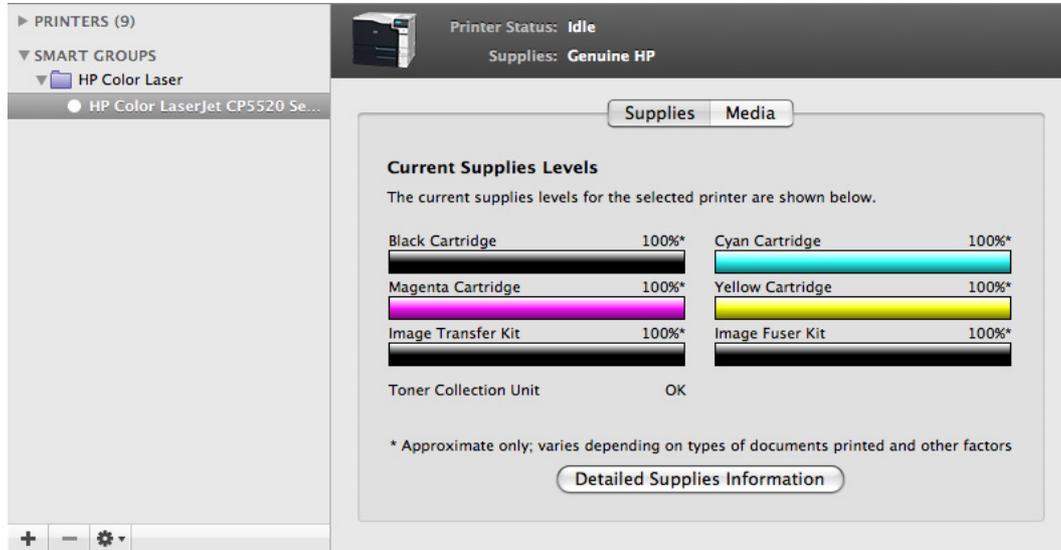


The following sections describe the screens and features that are available in the HP Utility.

Supplies Status

In the **Information And Support** section of the HP Utility, click **Supplies Status** to open the **Supplies Status** screen.

Figure 5-13 Supplies Status screen



Click **Detailed Supplies Information...** to open the **Supplies Status** details screen.

Use the scroll button to see information about the color print cartridges.

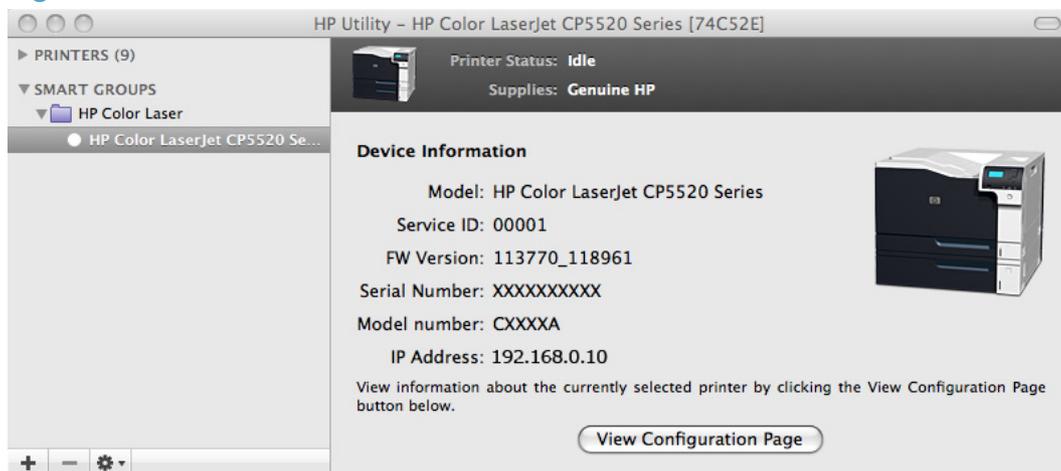
On the **Supplies Status** screen, click **Media** to see the status of the trays.

You can also order supplies at anytime by clicking **Supplies** in the toolbar on the HP Print Utilities main screen.

Device Information

In the **Information And Support** section of the HP Utility, click **Device Information** to find the product **Service ID** (if assigned), the firmware version (**FW Version**), and the **Serial Number**.

Figure 5-14 Device Information screen



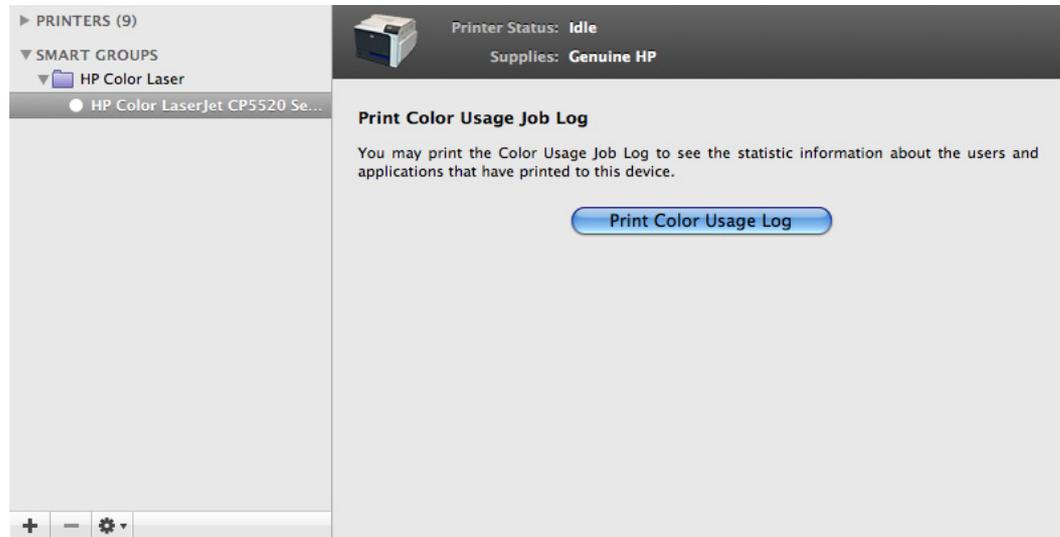
The product configuration page shows other settings; click **View Configuration Page** .

Color Usage

 **NOTE:** Functionality for this option is not supported on this product in the HP Printer Utility for Mac. Use the Embedded Web Server to use this functionality.

In the **Information And Support** section of the HP Utility, click **Color Usage** to open a screen and print a color-usage job log.

Figure 5-15 Print Color Usage Job Log screen



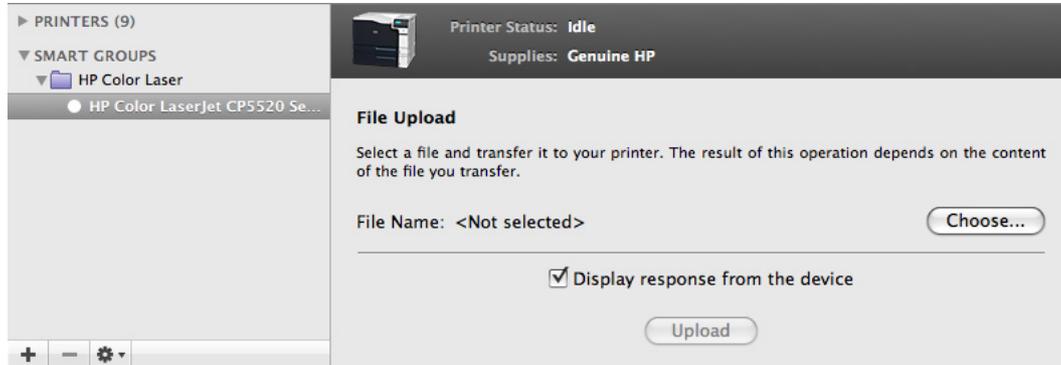
Click **Print Color Usage Log** to print a page that shows information about users, print jobs, and software programs that have printed to the HP Color LaserJet Enterprise CP5520 Series Printer product. In addition, the color-usage log lists the following details about print jobs:

- Date and time
- Total number of jobs
- Mono (monochrome, or black-and-white) sides
- Color sides
- paper sheets

File Upload

In the **Information And Support** section of the HP Utility, click **File Upload** to open the **File Upload** screen.

Figure 5-16 File Upload screen



The **File Upload** command is supported for file types that can be sent directly to the product without first being opened through a software program. Some files can be uploaded to the product, but some cannot.

Documents in the following file formats can be printed by using a command line. That is, they do not need to be opened in a software program that supports the file format (such as the Adobe Acrobat or Acrobat Reader programs for .PDF files), but can be sent directly to the product by using the **File Upload** command.

- HP LaserJet printer command language (.PRN)
- Portable document format (.PDF)
- Postscript (.PS)
- Text (.TXT)

On the **File Upload** screen, click **Choose...** to open a navigation screen. Locate the file you want to upload and click **Open**.

On the **File Upload** screen, click **Display response from the device** to see whether the upload was successful. If the file loads successfully, no message appears.

On the navigation screen, select the file and click **Open**. The file name appears in the **File Upload** screen of the HP Printer Utility. Click **Upload**.

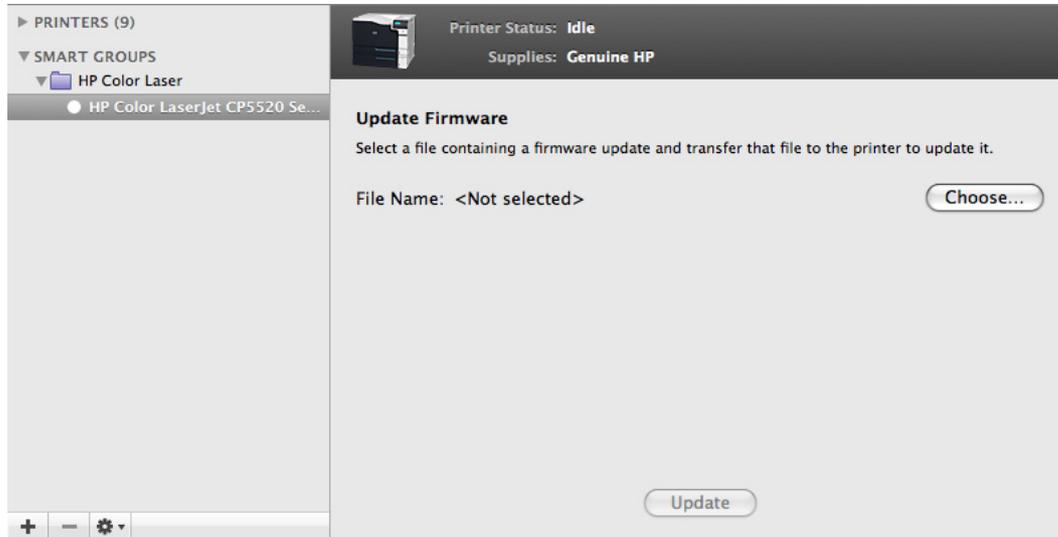
Update Firmware

 **NOTE:** This option is available only after you open the **View** menu and select the **Show Advanced** option.

The firmware file can be downloaded from the following Web site:

www.hp.com/cljcp5525_firmware

Figure 5-17 Update Firmware screen



After you have the firmware file, you are ready to begin the update process. Complete the following steps:

1. In the **Information And Support** section of the HP Utility, select **Update Firmware**, click **Choose**, browse to firmware upgrade file, and then click **Open**.
2. On the **Update Firmware** screen, click **Upload**.

 **NOTE:** You might receive an error message on the screen indicating that the product is offline. Verify that the product is turned on. If it is, ignore the message. The **Updating** screen appears and the update proceeds as expected.

3. The update process can take several minutes. Let the process finish without further interaction with the product or the computer.

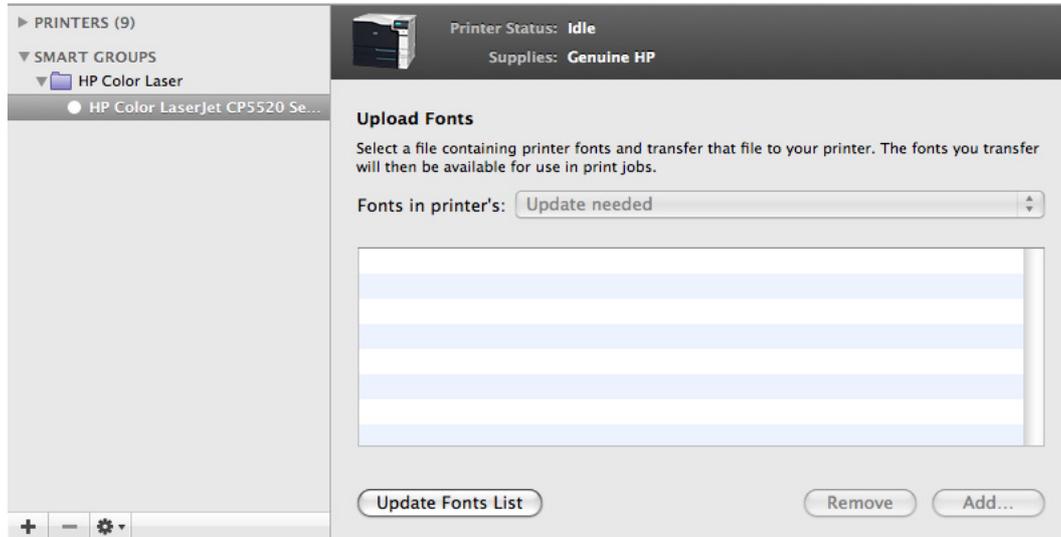
 **NOTE:** The product automatically turns off and then on again to activate the update; this can happen more than once. At the end of the update process, the **READY** message appears on the control panel. Do *not* turn off the product or interfere with the update until you see this message.

4. Print a configuration page and verify that the firmware revision number matches the revision of the current update.

Upload Fonts

In the **Information And Support** section of the HP Utility, click **Upload Fonts** to gain access to fonts that you can upload to the HP Color LaserJet Enterprise CP5520 Series Printer product.

Figure 5-18 Upload Fonts screen



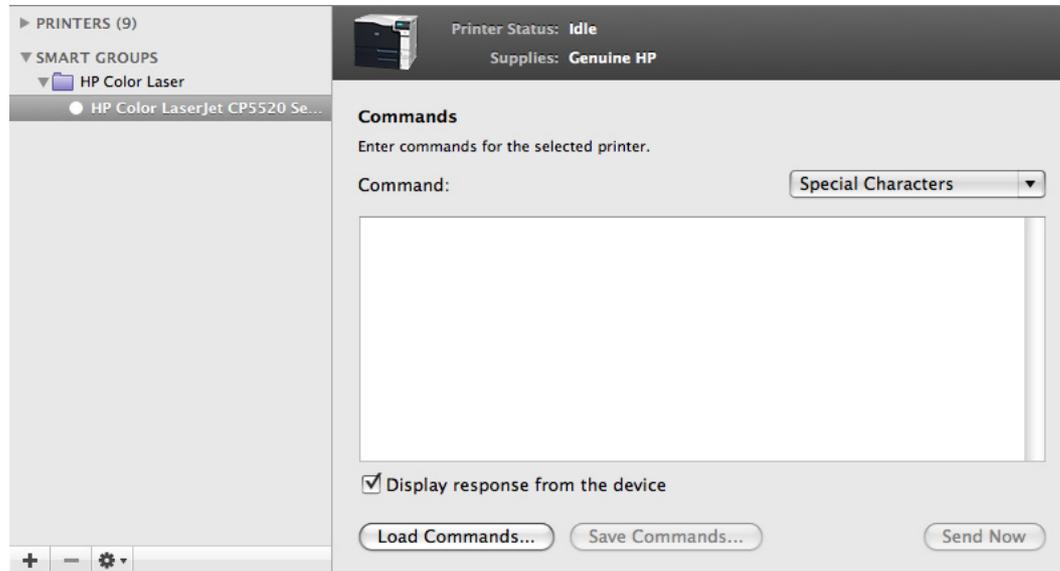
The drop-down menu in the **Upload Fonts** pane has the following options:

- **Memory.** Fonts that are available in the printer memory are listed.
- **Disk.** Select this option to show any fonts that are installed on the printer hard disk or flash disk. By default, no fonts are stored on either of these disks. To upload fonts, select the font name, and then click **Add**.

Commands

The **Commands** screens gives the user the ability to send special characters or print commands to the product after the print job.

Figure 5-19 Commands screen



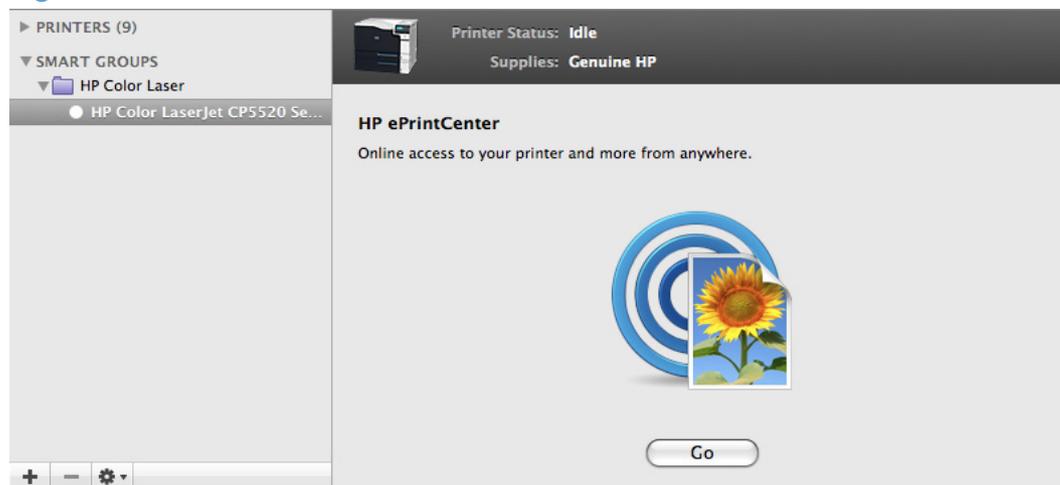
HP ePrint Center

Simplified printing for internet connected products from anywhere.

For instructions on how to enable HP Web Services and configure HP ePrint, go to:

www.hp.com/go/ePrint

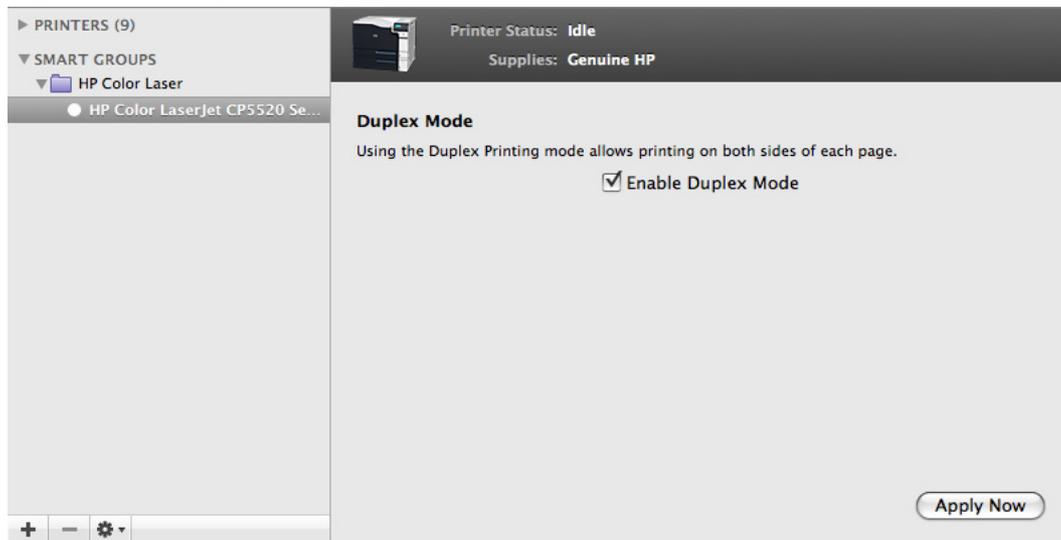
Figure 5-20 HP ePrint Center screen



Duplex mode

For the HP Color LaserJet CP5525ndn and HP Color LaserJet CP5525nxh product models, the **Printer Settings** section includes a **Duplex Mode** setting. Click this setting to open the **Duplex Mode** screen.

Figure 5-21 Duplex Mode screen



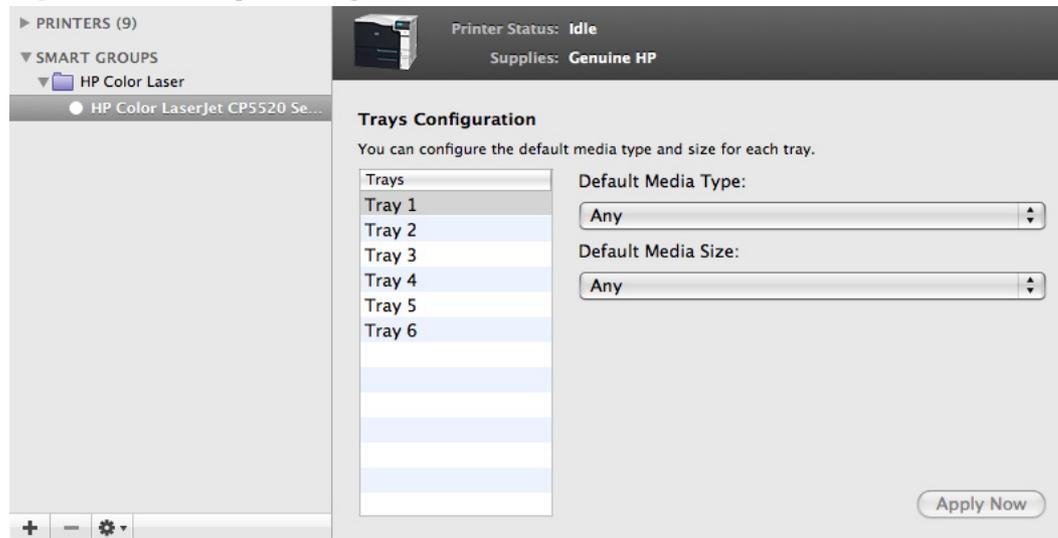
Use the Enable Duplex Mode command to print internal diagnostic and test pages on both sides of the page.

1. Select the **Enable Duplex Mode** check box. This box is clear by default.
2. Click **Apply Now** to enable printing on both sides of the page.

Trays Configuration

The **Trays Configuration** screen is shown in the following figure.

Figure 5-22 Trays Configuration screen



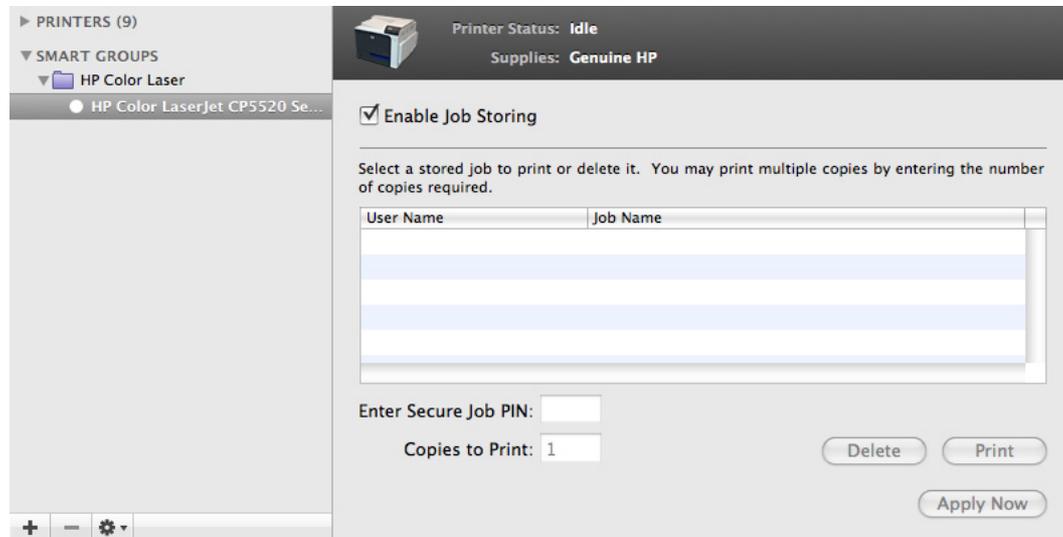
1. In the **Printer Settings** section of the HP Utility, select **Trays Configuration** to change paper size and type for each of the trays installed on your product.
2. To change the paper type, select a tray and then select a different paper type in the **Default Media Type** drop-down menu.
3. To change the paper size, select a tray and then select a different paper size in the **Default Media Size** drop-down menu.
4. Click **Apply Now** to save the settings.

Stored Jobs

 **NOTE:** Functionality for this option is not supported on this product in the HP Printer Utility for Mac. Use the embedded web server to use this functionality.

In the **Printer Settings** section of the HP Utility, select **Stored Job** to change the **Enable Job Storing** setting. This setting is selected by default. Click to clear the check box to disable the job-storing feature.

Figure 5-23 Enable Job Storing screen



You can type a PIN for your job in the **Enter Secure Job PIN** field.

Select the number of copies in the **Copies to Print** field.

Select a stored job and click **Print** to print the job.

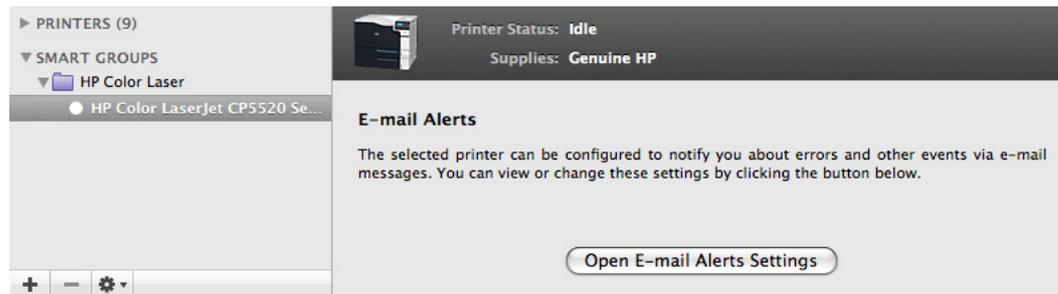
Select a stored job and click **Delete** to delete the job.

E-mail Alerts

In the **Printer Settings** section of the HP Utility, select **E-mail Alerts** to configure the HP Color LaserJet Enterprise CP5520 Series Printer product to send e-mail notifications to users.

If a user name and password have been set, you might need to obtain them from the IT administrator. For more information, see the HP EWS online help.

Figure 5-24 E-mail Alerts screen

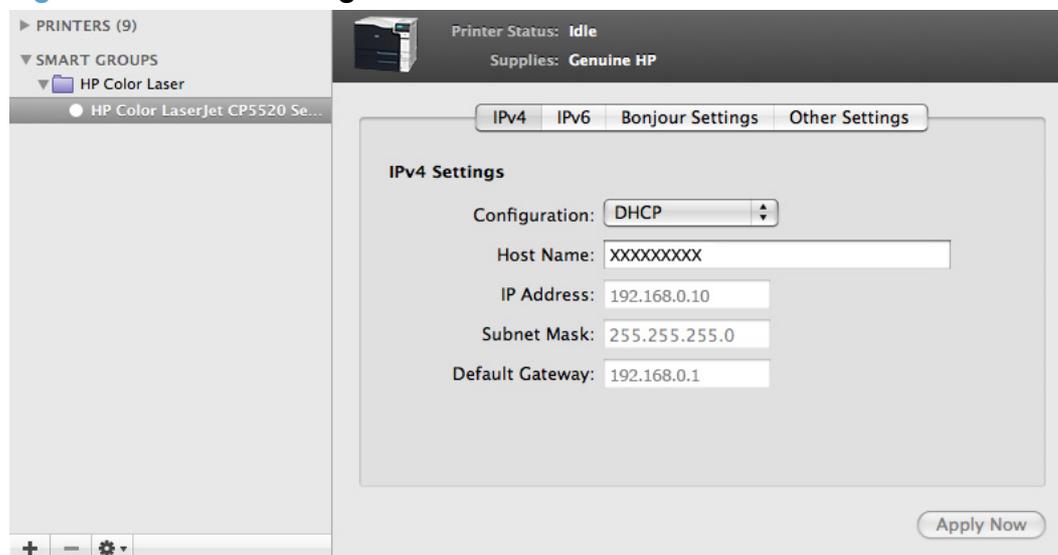


Click **Open E-mail Alerts Settings** to open the HP EWS. The HP EWS opens to the **Setup** screen on the **Alerts** tab, where you can set notifications.

Network Settings

In the **Printer Settings** section of the HP Utility, select **Network Settings** to open the **IP Settings** screen.

Figure 5-25 IPv4 Settings screen



The **Network Settings** screen provides access to **IPv4**, **IPv6**, **Bonjour Settings**, and **Other Settings**.

Select **Configuration**, to modify the following settings:

- **DHCP**
- **BootP**
- **Manual**

You can also use this screen to modify the following settings:

- **Host Name**
- **IP Address**
- **Subnet Mask**
- **Default Gateway**

To save new settings, click **Apply Now**.

To view and change other network settings, click **Other Settings**, then click **Additional Network Settings**.

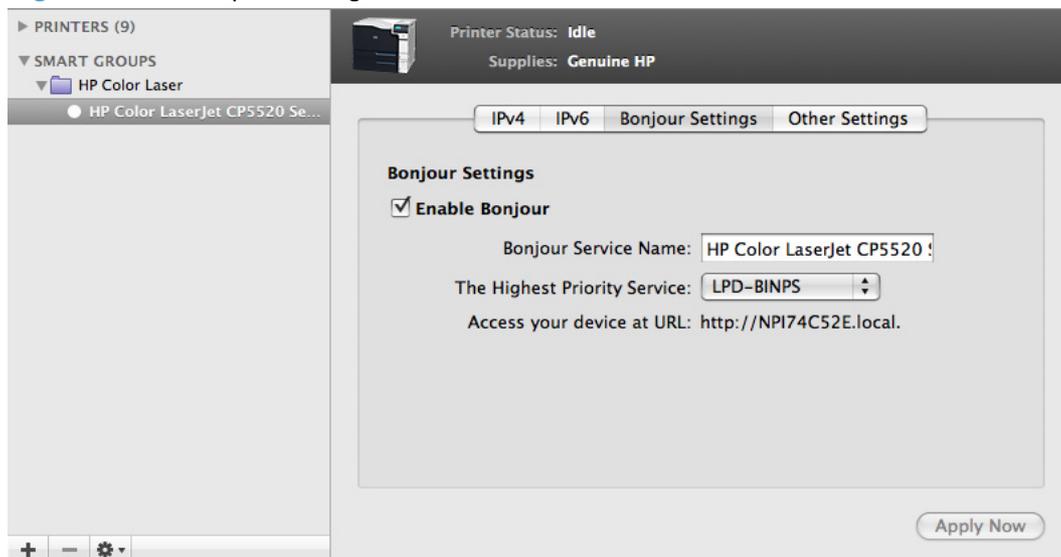
If a user name and password have been set, you might need to obtain them from your IT administrator. For more information, see the HP EWS online help.

The HP EWS opens to the **Network Settings** screen.

To view and change the Bonjour network settings, click **Bonjour Settings**. Bonjour is enabled by default.

To disable Bonjour, click to clear the **Enable Bonjour** check box and then click **Apply Now**.

Figure 5-26 Bonjour Settings screen



Select **Bonjour Settings** to open the **Bonjour Settings** screen. Bonjour is enabled by default.

The following options are available in the **The highest priority service** drop-down menu:

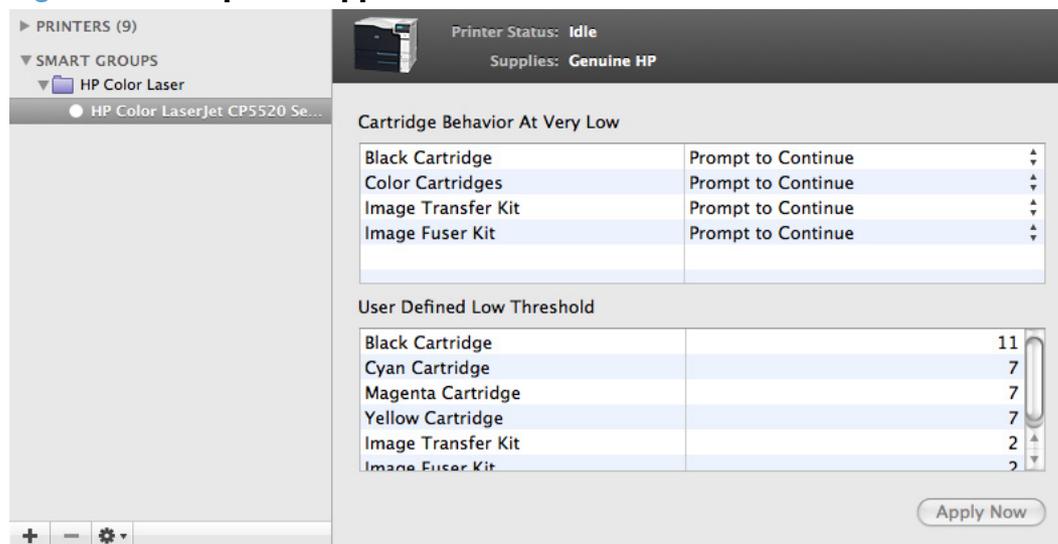
- **Port 9100**
- **IPP**
- **LPD-RAW**
- **LPD-TEXT**
- **LPD-AUTO**
- **LPD-BINPS** (default)

After you select a new setting, click **Apply Now** to save it.

Supplies Management

In the **Printer Settings** section of the HP Utility, click **Supplies Management** to open the **Supplies Management** screen.

Figure 5-27 Replace Supplies screen



The **Supplies Management** screen allows you to define how the product responds when the supply states are **At Very Low** for cartridges, image transfer/fuser kits, and the toner collection unit. The **Supplies Management** screen also allows you to define when that very low message state or alert is given by setting the **User Defined Low Threshold** (the percentage of estimated supply life left, at which you want the product to alert you that the supply is low).

In the **Cartridge Behavior at Very Low** area, select one of the following actions for the product to take when the black cartridge, color cartridges, image transfer, image fuser, or toner collection kits, are **At Very Low**.

- **Stop**
- **Prompt to Continue** (default)
- **Continue**

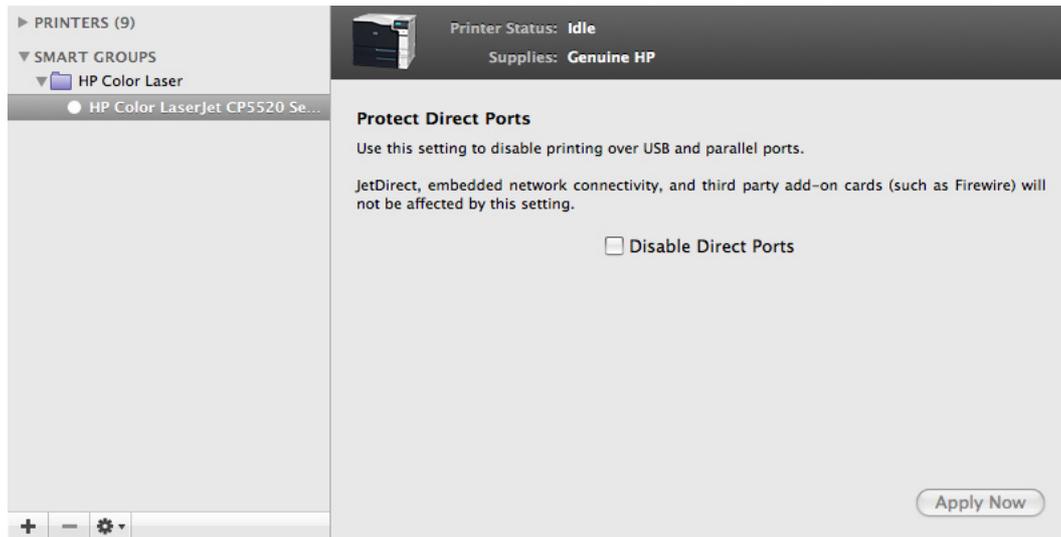
In the **User Defined Low Threshold** area, select a percentage life remaining next to the cartridge or image transfer/fuser kit to define the low threshold alert level for that cartridge or image transfer/fuser kit.

Click **Apply Now** to save the new settings.

Protect Direct Ports

In the **Printer Settings** section of the HP Utility, select **Protect Direct Ports** to disable printing over USB and parallel ports. JetDirect, embedded network connectivity, and third-party add-on cards, such as FireWire, will not be affected by this setting.

Figure 5-28 Protect Direct Ports screen



Click **Disable Direct Ports**.

Additional Settings

In the **Printer Settings** section of the HP Utility, select **Additional Settings** to gain access to the HP EWS.

Figure 5-29 Additional Settings screen



To open the HP EWS, click **Open Embedded Web Server**.

For information about HP EWS settings, consult the HP EWS online help.

Restrict Color

 **NOTE:** Functionality for this option is not supported on this product in the HP Printer Utility for Mac. Use the embedded web server to use this functionality.

Configures color-printing restrictions for specific users and software programs.

 **NOTE:** This option is available only after you open the **View** menu and select the **Show Advanced** option.

6 Engineering details

Introduction

This chapter presents engineering detail for the following topics:

- [Remote firmware update](#)
- [Printing print-ready documents](#)
- [Special paper guidelines](#)
- [Media attributes and commands](#)
- [File to E-mail utility](#)

Remote firmware update

The product features remote firmware update capability. The method for downloading remote firmware updates from the Web site is similar to that used to download the latest printing-system software and printer drivers.

 **NOTE:** Firmware for the embedded Jetdirect print server updates when the product firmware is updated.

The process for remotely upgrading firmware involves three steps:

1. Determine the current level of firmware that is installed on the product.
2. Go to the HP Web site and download the latest firmware to the computer.
3. Download the new firmware to the product.

Determine the current level of firmware

To determine the current level of firmware, print the configuration page.

1. At the control panel, press the Home  button.
2. Open the following menus:
 - **Administration**
 - **Reports**
 - **Configuration/Status Pages**
3. Use the arrow buttons to select the **Configuration Page** item, and then press the **OK** button.
4. Use the arrow buttons to select the **Print** item, and then press the **OK** button.

On the printed configuration page, look in the section marked "Device (or Printer) Information" for the firmware date code and version. It will look similar to the following examples:

- Firmware Datecode: 20100831
- Firmware Revision: 103067_104746

Download the new firmware from the HP Web site

The firmware update file and an associated readme file are packaged together as a self-extracting .EXE file. For detailed instructions about how to download the .EXE file, go to the following Web site:

The .EXE file consists of a readme file and the .bdl upgrade file.

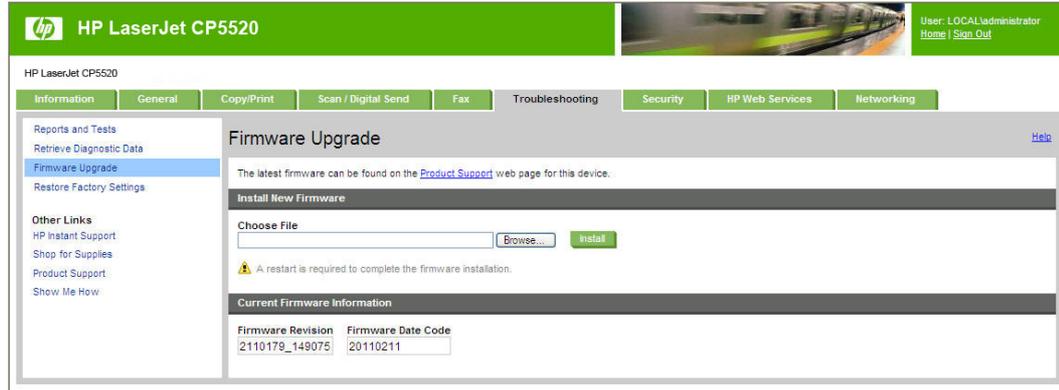
 **NOTE:** You cannot update the product firmware using the traditional FTP, LPR or Port 9100 methods. Only the following methods can be used to update the firmware of the product.

 **IMPORTANT:** Make sure that the product is ready to receive the firmware file and that no error messages are being displayed on the control panel.

Use the HP Embedded Web Server

1. Open a browser window.
2. Enter the product IP address in the URL line to open the HP Embedded Web Server.
3. Click the **Troubleshooting** tab, and then click the **Firmware Upgrade** link.

Figure 6-1 HP EWS Firmware Upgrade page



NOTE: If you get a warning screen, follow the instructions for setting an administrator password from the **Security** tab.

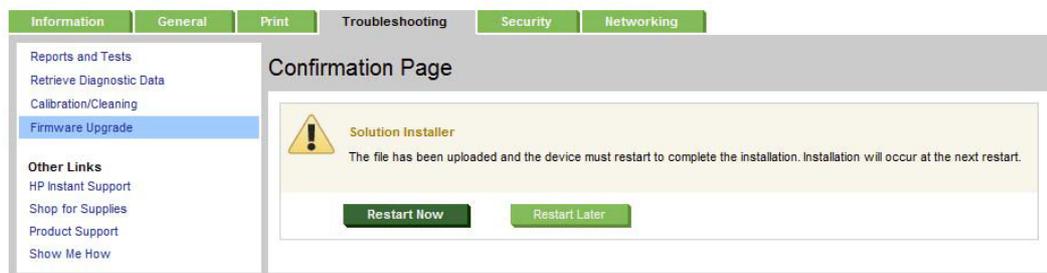
4. Browse to the location that the firmware upgrade file was downloaded to, and then select the firmware file (the file with the .bdl extension). Click the **Install** button to perform the upgrade.

IMPORTANT: Do not close the browser window until the HP Embedded Web Server (EWS) displays the confirmation page.

NOTE: The upgrade process might take some time, as the file size is large.

5. Perform one of the following steps:
 - Click the **Restart Now** button on the EWS confirmation page, or turn the product off, and then on again using the power switch. This is the recommended action, as the restart process completes the firmware upgrade.
 - Click the **Restart Later** button on the EWS confirmation page to restart the product at a later time. If you click this button, the update will not be complete until the product is restarted.

Figure 6-2 HP EWS Firmware Upgrade page



Use the walkup USB port and the Device Maintenance menu

1. Download the .EXE file from the Web, and then uncompress the .EXE file to gain access to the readme file and the .bdl upgrade file.
2. Copy the .bdl firmware upgrade file to a portable USB flash memory storage device (thumb drive).
3. Turn the product on, and then wait until it reaches the **Ready** state.
4. At the control panel, press the Home  button.
5. Open the following menus:
 - **Device Maintenance**
 - **USB Firmware Upgrade**
6. Insert the portable USB storage device with the firmware upgrade file on it into the USB port on the front of the product, and then press the **OK** button.
7. If the USB device contains multiple firmware update files, navigate to the correct firmware update file, and then press the **OK** button.

 **TIP:** If there is more than one firmware upgrade file on the storage device, make sure that you select the correct file for this product.

8. Depending on the firmware date of the file that you selected to upload, the product displays one of the following controls:
 - If you selected a firmware version that is newer than the current version, the **Upgrade** item appears. Press the **OK** button to start the upgrade process.
 - If you selected a firmware version that is the same version as the current version, the **Reinstall** item appears. Press the **OK** button to start the reinstallation process.
 - If you selected a firmware version that is older than the current version, the **Rollback** item appears. Press the **OK** button to start the rollback process.

The product will start to update the firmware from the USB storage device. When the upgrade is complete, the product will initialize.

 **NOTE:** Do not interrupt the updating process. The product will restart automatically.

9. When the upgrade process has completed, the product will restart. Once the product is back online, print a configuration page and verify that the new firmware has been installed.

Use the walkup USB port and the preboot menu

If you are unable to start the product because of a firmware error, you can use the preboot menu to load a firmware upgrade file.

1. Download the .EXE file from the Web, and then uncompress the .EXE file to gain access to the readme file and the .bdl upgrade file.
2. Copy the .bdl firmware upgrade file to a portable USB flash memory storage device (thumb drive).

3. Turn the product on, and when the three control-panel lights are lit, press and hold the Stop  button
4. Use the arrow keys to scroll to the **Administrator** menu, and then press the **OK** button.
5. Use the arrow keys to scroll to the **Download** menu, and then press the **OK** button.
6. Insert the portable USB storage device with the firmware upgrade file on it into the USB port on the front of the product.



NOTE: If a **No USB Thumbdrive files found** message appears you might need to connect the thumb drive to the external USB port on the product formatter.

7. Use the arrow keys to scroll to the **USB Thumbdrive** menu, and then press the **OK** button.
8. If the USB device contains multiple firmware update files, navigate to the correct firmware update file, and then press the **OK** button.

The product will start to update the firmware from the USB storage device. When the upgrade is complete, the product will re-initialize.

9. When the update progress bar shows that the process is complete, press the Back  button three times, select the **Continue** option, and then press the **OK** button.
10. Once the product is back online, print a configuration page and verify that the new firmware has been installed.

Use HP Web Jetadmin



NOTE: The latest version of HP Web Jetadmin can be configured to get firmware details from HP.com directly. HP Web Jetadmin might be able to get firmware listing and firmware image files directly from HP.com, if this is allowed on the network on which HP Web Jetadmin is installed.

1. Start HP Web Jetadmin.
2. From the **Device Management** section, select **All Devices** (or the appropriate device group). An **All Devices** list will appear in the center window.
3. Find your product in the list, or type the IP address of the product in the **Quick Device Discovery** section in the lower-left of the screen (this will highlight your product in the device list). You can sort the product list by clicking on a column name at the top.
4. If your product list is sorted by model number, you may select multiple products with the same model number by Control-Click or Shift-Click.
5. Right-click on the product and select the **Upgrade firmware** item.
6. An **Upgrade Firmware** window will appear. Select **Device firmware**, and then click **Next**.
7. A list of available firmware will appear. If the correct version is listed, click **Next**, and the upgrade process will start.

If the correct firmware version does not appear on the list, perform a manual upload. New firmware may be available on an FTP site prior to appearing on HP.com. The instructions below allow you to upload a RFU file from your local PC to WJA 10.

Perform a manual firmware upload

1. Click on **Firmware/Firmware Repository** in the **Device Management** pane.
2. A Firmware Repository window displays in the center of the screen
3. Click **Upload** in the upper-right of the window.
4. Browse to the .bdl file on the computer.
5. Click **Upload**.
6. Once the .bdl file is uploaded, perform steps 2 through 6 in the previous section.



NOTE: Do not turn the product off during the update process. When the update process is complete, the product will automatically restart. If the firmware update process fails, HP Web JetAdmin will provide notification with a page (screen) of information regarding the reason(s) for failure. A link will be provided to attempt the process again.

Printing print-ready documents

Several methods are available for printing documents independently of the original software program that was used to create the document. Normally, the document is printed by opening the original application and printing it to a file, or is printed by means of a distribution method such as internet downloading. The following print-ready file formats can be sent directly to the HP Color LaserJet Enterprise CP5520 Series Printer product without first opening the original software program:

- HP LaserJet Printer Control Language (.PRN)
- Portable Document Format (.PDF)
- Postscript (.PS)
- Text (.TXT)

Use one of the following methods to send print-ready files to your product.

 **NOTE:** The examples that are used here are for printing .PDF documents. However, any print-ready file type can be substituted.

Print-ready file printing by using FTP through a browser

Complete the following steps to print print-ready files directly by using FTP through a browser.

 **NOTE:** The following instructions can be used on Windows or Macintosh operating systems.

1. Make note of the TCP/IP address on the Embedded Jetdirect page. The HP Embedded Jetdirect page is the second page of the configuration page printout. To print a configuration page, see [Determine the current level of firmware on page 140](#).
2. Open a browser window.
3. In the address line of the browser, type `ftp://<IPADDRESS>`. For example, if the TCP/IP address of your product is 192.168.0.90, type the following:

```
FTP:// 192.168.0.90
```

4. Locate the print-ready file for the product.
5. Drag and drop the print-ready file onto the **PORT** icon in the browser window.

 **NOTE:** If the **PORT** icon does not appear as a folder name, you might have to enable folder viewing for FTP sites in your Web browser. In Microsoft Internet Explorer, use the following procedure to enable the folder view.

1. Select **Tools**, then select **Internet Options**, and then select the **Advanced** tab.
2. Select the **Enable folder view for FTP sites**.
3. Click **OK** to save the setting.

Print-ready file printing by using FTP on a direct network connection (Windows)

If the HP Color LaserJet Enterprise CP5520 Series Printer uses a direct network connection, use file transfer protocol (FTP) to print a print-ready file. Complete the following steps for the operating system:

1. Take note of the TCP/IP address on the Embedded Jetdirect page. The HP Embedded Jetdirect page is the second page of the Configuration page printout. To print a configuration page, see [Determine the current level of firmware on page 140](#).

2. Open a command window on the computer.

3. Type `ftp <TCP/IP product ADDRESS>`. For example, if the TCP/IP address is 192.168.0.90, type the following:

```
ftp 192.168.0.90
```

4. Press **Enter** on the keyboard.

5. When prompted for the user name, press **Enter**.

6. When prompted for the password, press **Enter**.

7. Type `bin` at the command prompt.

8. Press **Enter**. The message **200 Types set to I, Using binary mode to transfer files** appears in the command window.

9. Type `put <FILENAME>`, where `<FILENAME>` is the name of the print-ready file to be printed, including the path. For example, type the following:

```
put C:\LJ\CP5520FW.PDF
```

 **NOTE:** If the file name or path includes a space, you must enclose the file name or path in quotation marks. For example, type `put "c:\My Documents\LJ\CP5520FW.PDF"`

The following series of messages appears in the command window:

200 PORT command successful

150 Opening BINARY mode data connection

226 Ready

226 Processing Job

10. Press **Enter** on the keyboard.
11. The print-ready file prints.
12. At the command prompt, type `bye` to exit the FTP command.
13. At the command prompt, type `exit` to return to the Windows interface.

Print-ready printing by using a local Windows port

To print directly by using a local Windows port, follow the instructions for your operating system.

Windows XP, Windows Server 2003, Windows Server 2008, or Windows Vista

The print-ready file can be sent directly to the product by typing a `copy` command at a command prompt or in an MS-DOS window.

1. At a command prompt, type `copy /b <FILENAME> <PORTNAME>`, where `<FILENAME>` is the name of the print-ready file (including the path) and `<PORTNAME>` is the name of the appropriate printer port (such as LPT1). For example, type the following:

```
C:\>copy /b c:\CP5520FW.PDF lpt1
```

2. Press **Enter** on the keyboard.

 **NOTE:** If the file name or path includes a space, you must enclose the file name or path in quotation marks. For example, type `C:\>copy /b "c:\My Documents\CP5520FW.PDF"`. The message **PROCESSING JOB** appears on the control panel, and the job prints.

3. At the command prompt, type `exit` to close the command window.

Print-ready file printing in a Windows network

If the product is shared on a Windows network, complete the following steps.

1. From a command prompt or in an MS-DOS window, type `copy /b <FILENAME> \<COMPUTERNAME>\<SHARENAME>`, where `<FILENAME>` is the name of the print-ready file (including the path), `<COMPUTERNAME>` is the name of the computer from which the product is being shared, and `<SHARENAME>` is the product share name. For example, type the following:

```
C:\>copy /b c:\CP5520FW.PDF \\your_server\sharename
```

 **NOTE:** If the file name or path includes a space, you must enclose the file name or path in quotation marks. For example, type `C:\>copy /b "c:\My Documents\CP5520FW.PDF" \\your_server\sharename`

2. Press **Enter** on the keyboard. The message **PROCESSING JOB** appears on the control panel, and the job prints. The message **1 file(s) copied** appears on the computer screen.

Print a print-ready file through the HP Embedded Web Server

1. Open the HP Embedded Web Server (HP EWS).
2. On the **Information** tab, click the **Print** menu item.
3. Click **Browse** and navigate to the file that you want to print.
4. Click **Apply**.

Print-ready file printing by using the LPR command

 **NOTE:** This direct printing method is for use in Windows XP, Windows Server 2003, Windows Server 2008, and Windows Vista.

Complete the following steps to print a print-ready file by using the LPR command.

1. Make note of the TCP/IP address on the Embedded Jetdirect page. The HP Embedded Jetdirect page is the second page of the configuration page printout. To print a configuration page, see [Determine the current level of firmware on page 140](#).

2. From a command window, type the following:

```
lpr -P <IPADDRESS> -S <IPADDRESS> -o l <FILENAME>
```

or

```
lpr -S <IPADDRESS> -Pbins <FILENAME>
```

where IPADDRESS can be either the TCP/IP address or the host name of the product, and where FILENAME is the file name of the print-ready file.

 **NOTE:** The parameter (-o l) consists of a lowercase "O", not a zero, and a lowercase "L", not the numeral 1. This parameter sets the transport protocol to binary mode.

3. The file prints, but no messages appear in the command prompt window.
4. Type `exit` at the command prompt to close the command window.

Print-ready file printing by using FTP on a direct network connection (Macintosh)

If the HP Color LaserJet Enterprise CP5520 Series Printer uses a direct network connection, use file transfer protocol (FTP) to print a print-ready file. Complete the following steps for the operating system:

1. Make note of the TCP/IP address on the Embedded Jetdirect page. The HP Embedded Jetdirect page is the second page of the configuration page printout. To print a configuration page, see [Determine the current level of firmware on page 140](#).
2. Open a Terminal window on your Macintosh. You can find the Terminal program on the computer in the following location:

System/Applications/Utilities/Terminal

Open the Finder, select **Applications**, and then click **Utilities**. Double-click to open the Terminal utility.

3. Type `FTP <TCP/IP product ADDRESS>`. For example, if the TCP/IP address is 192.168.0.90, type the following:

```
FTP 192.168.0.90
```

4. Press **Enter** on the keyboard.
5. When prompted for a user name and password, press **Enter**.

6. You can drag and drop the firmware file into the Terminal folder (System/Applications/Utilities/Terminal). Alternatively, you can type `put <path>`, where `<path>` is the location where the print-ready file was downloaded from the Web. For example, type the following:

```
put /username/desktop/CP5520FW.PDF
```

 **NOTE:** If the file name or path includes a space, you must enclose the file name or path in quotation marks. For example, type `put "/user name/desktop/CP5520FW.PDF"`

To ensure that the entire path to the print-ready file is placed in the `put` command, type `put` and a space, and then click and drag the print-ready file onto the terminal window. The complete path to the file is automatically placed after the `put` command.

7. Press [Enter](#).
8. The download process begins and the firmware is updated on the product. This can take about five minutes. Let the process finish without further interaction with the product or computer.
9. The product automatically turns off and on again to activate the update.

Print-ready file printing in UNIX systems

For UNIX systems, any command method that delivers the print-ready file to the product is acceptable, including the following:

- At the command prompt, type `cp </home/yourmachine/FILENAME/ dev/parallel>`, where `</home/yourmachine/FILENAME>` is the location of the print-ready file.

Special paper guidelines

For more information on Special paper guidelines; Supported paper sizes; Supported paper types; Tray and bin capacity; and Paper orientation see the User Guide at the following link: www.hp.com/go/cljcm4540mfp_manuals.

Media attributes and commands

This section includes the following information about paper attributes:

- [Paper-source commands](#)
- [Paper-type commands examples](#)

Paper-source commands

The PCL 6 Print driver attribute for paper source is `ubyte # MediaSource` or `ubyte_array "string" MediaSource`. See the following table for values of #. For example, "ubyte 4 MediaSource" is the command for Tray 2.

The PCL 5 print driver escape sequence for paper source is `Esc&l#H` (the "l" is a lowercase "l" rather than the numeral "1"). See the following table for values of #. For example, `Esc&l1H` is the command for Tray 2.

 **NOTE:** The HP Color LaserJet Enterprise CP5520 Series Printer products support Tray 1, Tray 2, Tray 3, Tray 4, Tray 5, and Tray 6.

Table 6-1 Paper-source commands

Input source	PCL 5 <code>Esc&l#H</code>	PCL 6 <code>ubyte # MediaSource</code>	PCL 6 <code>ubyte_array "string" MediaSource</code>	PostScript <code>/MediaPosition # or null/ ManualFeed true or false</code>
Automatically select	NA	NA	NA	NA
Printer auto select	7	1	AUTOSELECT	null false
Manual feed in tray 1	2	2	MANUALFEED	3 true
Tray 1 (100-sheet)	4	3	TRAY1	3 false
Tray 2 (250-sheet)	1	4	TRAY2	0 false
Tray 3 (500-sheet)	5	5	TRAY3	1 false
Tray 4	8	7	TRAY4	4 false
Tray 5	9	None	TRAY5	38 false
Tray 6	NA	None	TRAY6	39 false
Tray 7	NA	None	TRAY7	40 false
Tray 8	NA	None	TRAY8	41 false
Tray 9	NA	None	TRAY9	42 false

Paper-type commands examples

The PCL 5 print driver escape sequence for paper type is "Esc&n#Wdpapertype", where "n#" is the number of characters in the paper type plus 1. For example, in the sequence "Esc&n6WdPlain", "Plain" has 5 letters plus 1, for a total of 6.

Table 6-2 Paper-type commands

Esc&	n#	Wd	Paper type
Esc&	6	Wd	Plain
Esc&	11	Wd	Preprinted
Esc&	11	Wd	Letterhead
Esc&	13	Wd	Transparency ¹
Esc&	11	Wd	Prepunched
Esc&	7	Wd	Labels
Esc&	5	Wd	Bond
Esc&	9	Wd	Recycled
Esc&	6	Wd	Color
Esc&	6	Wd	Light
Esc&	13	Wd	Interpaperte
Esc&	6	Wd	Heavy
Esc&	12	Wd	Extra Heavy
Esc&	11	Wd	Cardstock ²
Esc&	6	Wd	Rough
Esc&	7	Wd	Glossy
Esc&	12	Wd	Tough Paper
Esc&	9	Wd	Envelope

¹ You must spell out the word "Transparency" in the string, although it is abbreviated as TRNSPRNCY on the control panel.

² The correct command for cardstock is "Esc&n11WdCard Stock", with a space between the "d" and the "S", and with an uppercase "S".

File to E-mail utility

The File to E-mail utility collects the data specified in an .INI file and then attaches the data files to an e-mail that can be sent to HP Customer Support to assist troubleshooting. The utility runs on the computer, but does not interact with the product.

The tool is included on the installer CD, but is *not* copied to the computer during the software installation. HP Customer Support can also send the utility by e-mail or by posting it to an HP Web site.

The tool is compatible with Windows XP, Windows Vista, and Win 7.

The File to E-mail utility runs with any MAPI-compliant e-mail applications. It does not run with Web-based e-mail services such as Yahoo, Hotmail, or AOL.

Depending on the speed of the computer, it might take a few minutes for the utility to gather the log files and attach them to an e-mail message.

The File to E-mail utility consists of two files that are located in the util folder on the product printing-system software CD:

- <CD-ROM drive>Utilities\FileToEmail.exe
- <CD-ROM drive>Utilities\FileToEmail.ini

To use the File to E-mail utility, copy these files to the desktop, navigate to them in Explorer, and double-click **FileToEmail.exe** to open the utility. The utility generates files, opens an e-mail message, and attaches the files so that you can send them to the system administrator.

If the File to E-mail utility is not successful for any reason (for instance, if you cancel the new message or you are using Web-based e-mail software), all the files are copied to a folder on the desktop that is named HpCCC, possibly with strings of zeros attached to the end. You can zip these files and e-mail them separately.

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