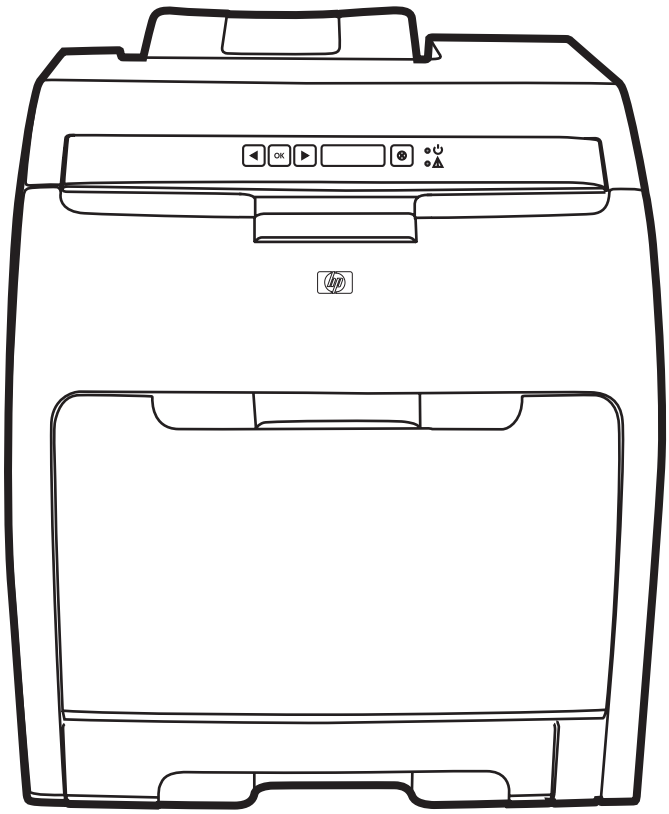
HP Color LaserJet 2700 Printer
Software Technical Reference



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HP Color LaserJet 2700 Printer

Software Technical Reference

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1 Purpose and scope

Introduction

This Software Technical Reference (STR) provides information about and troubleshooting tips for the printing-system software for the HP Color LaserJet 2700 printers.

This document 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.

NOTE This STR describes software that is shipped on the software CD that comes with the HP Color LaserJet 2700 printers. This STR does *not* describe drivers that will become available on the Web.

The following information is included in this technical reference:

- Overview of software and platforms
- Procedures for installing and uninstalling software components
- Descriptions of problems that can arise with the HP Color LaserJet 2700 printer, and known solutions to those problems

NOTE An addendum to this STR describes system modification information, including file lists and changes to registry keys.

Topics:

- Software technical reference overview
- Device features
- Printing-system software
- HP LaserJet documentation

Software technical reference overview

The following table describes the structure of this STR.

Table 1-1 Software technical reference overview

Chapter	Content

Chapter 1, Purpose and scope	This chapter contains basic information about the HP Color LaserJet 2700 printer and its software:
	• Overview of the HP Color LaserJet 2700 printer
	• Printing-system software overview. This includes the following topics:
	  ◦ System requirements
	  ◦ Operating-system support
	  ◦ Availability
	• HP LaserJet software documentation

Chapter 2, Software description	This chapter provides an overview of the printing-system software installer and print drivers. This chapter also contains general information about other software features, including the following topics: • Driver configuration for Microsoft® (MS) Windows® • HP Embedded Web Server • HP ToolboxFX
Chapter 3, Install Microsoft Windows printing-system components	This chapter provides instructions for installing the HP Color LaserJet 2700 printer in Microsoft Windows operating systems by using various installation methods.
Chapter 4, HP PCL 6 and PS emulation unidrivers for MS Windows	This chapter provides detailed descriptions of the HP unidrivers for Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows Server 2003.
Chapter 5, Macintosh	This chapter provides instructions for installing the HP Color LaserJet 2700 printer in Macintosh operating systems and how to use Macintosh features.
Chapter 6, Engineering details	This chapter contains information about the following special topics: • Troubleshooting • Uninstall • Media attributes • Firmware upgrades • Hewlett-Packard Color LaserJet 2700 Series Printing System Install Notes

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

Additional detailed information about the HP Color LaserJet 2700 printing-system software is published in an addendum to this STR. The following information is available only in the addendum:

- Lists of installed files
- System-modification information, such as changes to the registry and registry keys

Device features

The following table lists the HP Color LaserJet 2700 printer features described in this STR. Device configurations might vary among countries/regions.

Table 1-2 HP Color LaserJet 2700 printer features

Models	• Base model: HP Color LaserJet 2700 printer (part number Q7824A) • HP Color LaserJet 2700n printer (part number Q7825A)

Memory	• Standard memory:
	  • 64 megabytes (MB) for the HP Color LaserJet 2700 printer
	  • 64 MB for the HP Color LaserJet 2700n printer; expandable to 320 MB

Speed	• In monochrome (black), prints 20 pages per minute in (ppm) on standard letter-size paper and 19 ppm on A4-size paper. • In color, prints 15 ppm for standard letter-size paper and 14ppm on A4-size paper.
Connectivity	• Hi-speed universal serial bus (USB) port • On-board networking for connecting to 10Base-T/ 100Base-TX networks (HP Color LaserJet 2700n printer only)
Paper handling	• 100-sheet priority feed slot (tray 1) • 250-sheet universal tray (tray 2) • Optional 500-sheet universal tray (optional tray 3)
Print	• ImageRET 2400 • True 600x600 dpi text and graphics • Adjustable settings to optimize print quality • The HP UltraPrecise print cartridge is a finer toner formulation that provides sharper text and graphics. • Printer command language (PCL) Level 6 • Postscript Level 3 emulation
Energy Savings	• The HP Color LaserJet 2700 printer automatically conserves electricity by substantially reducing power consumption when it is not in use.

Printing-system software

The HP Color LaserJet 2700 printers include the following software components and programs for Microsoft Windows operating systems.

Table 1-3 Software components for Windows

Components	Description
HP installer	Installs the HP Color LaserJet 2700 printing-system software based on the hardware it detects from the host computer.
Uninstaller	Removes files and folders that were installed when the HP Color LaserJet 2700 printing-system software was originally installed on the computer.
HP ToolboxFX	Provides a software interface to manage the HP Color LaserJet 2700 printer. Use the HP ToolboxFX to perform the following tasks: • Monitor the status of the product. • Change the print settings for the product. • Find troubleshooting information and instructions for performing basic tasks. • Receive Status Alerts when certain events occur or conditions exist on the product.
Driver software	This software includes the following drivers: • The HP PCL 6 Unidriver, which is installed by default in Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows Server 2003. • The HP PCL 6 Black and White Driver, which can be installed using the Add Printer Wizard. • The postscript print driver and PostScript® (PS) printer description (PPD) file for printing with HP postscript level 3 emulation. This driver is *not* installed by default. To install the PS Emulation Unidriver, use the Add Printer wizard.
Online Help	Provides help for how to use the software for the HP Color LaserJet 2700 product. The user documentation for these products is included on the installation CD as both .CHM (online help) files and Adobe® Acrobat® .PDF files. The software CD uses a version of Adobe Acrobat Reader that remains on the CD and does not need to be installed on the computer. However, a web browser needs to be installed on the computer in order to view the contents from any .CHM file.
Additional software	• **HP Software Update.** The HP Software Update utility checks the HP Web site for the latest software updates for the HP Color LaserJet 2700 printer.

Other topics included in this section:

- System requirements
- Operating-system support
- Availability

System requirements

The following operating systems support the HP Color LaserJet 2700 printing-system software:

- Microsoft Windows

- Linux
- UNIX®

Microsoft Windows

NOTE For information about the HP Color LaserJet 2700 printing-system software for Macintosh operating systems, see Macintosh.

The HP Color LaserJet 2700 printing-system software requires some basic operating system and processor functions.

- Operating system requirements include one of the following: Microsoft Windows 2000, Microsoft Windows XP (32–bit Home and Professional editions), or Microsoft Windows Server 2003
  - Microsoft Windows 2000 or Microsoft Windows XP (32–bit Home and Professional editions) is needed for a full installation of the printing-system software. A full installation includes HP ToolboxFX.
  - Microsoft Windows Server 2003 automatically performs a minimum installation of the printing-system software.
- Processor and random-access memory (RAM) requirements:
  - For Microsoft Windows 2000, Microsoft Windows XP Professional (32–bit) Microsoft Windows XP Home (32–bit), Microsoft: XP Media Center, and Microsoft Windows Server 2003, a Pentium® II processor or greater (Pentium III or greater recommended) and 192 MB of RAM (for a full installation)
- Other requirements:
  - 150 MB of available hard-disk space.
  - A 2x or faster CD-ROM drive (required for installation)
  - A USB port for the HP Color LaserJet 2700 printer (the HP Color LaserJet 2700n printer does not require the USB connection). If the USB port has another device attached to it, such as an external storage device, the device must be disconnected or an additional USB port must be added. Add an additional USB port by using a hub or by installing an additional USB card.

Linux

It is possible to print to the HP LaserJet product from any operating system that complies with the PCL command language, such as OS/2, UNIX, or Linux systems.

Linux users should check for the availability of drivers at the following Web site:

www.hp.com/go/linuxprinting

NOTE The Linux drivers are supported through the Linux community.

UNIX®

UNIX systems require the HP LaserJet III model script, or any generic HP LaserJet printer Model Script, to establish the right environment for printing. A vendor for UNIX writes and provides the Model Script

files. Users of HP-UX can check for availability of the Model Script and the support model at the following Web site:

www.hp.com/go/UNIX

Click the **Support & Drivers** link.

Operating-system support

The product software for the HP Color LaserJet 2700 printer supports various operating systems.

Topics:

- Standalone drivers
- Print driver support in other operating systems

Standalone drivers

The following Microsoft Windows operating systems fully support the HP Color LaserJet 2700 printer through the software installer. The drivers for these operating systems are available on the printing-system software CD that comes with the product.

- Microsoft Windows 2000
- Microsoft Windows XP (32-bit)
- Microsoft Windows Server 2003

Administrator privileges are required to install or uninstall on these operating systems.

Throughout this document, Microsoft Windows XP is used to denote Microsoft Windows XP Home Edition and Microsoft Windows XP Professional unless noted otherwise.

For information about the HP Color LaserJet 2700 printing-system software for Macintosh operating systems, see Macintosh printing-system software.

The HP Color LaserJet 2700 printer does not support Microsoft Windows NT® 4.0, Microsoft Windows 95, Microsoft Windows 98, or Microsoft Windows Millennium Edition (Me).

For more information about the HP Color LaserJet 2700 printer, go to the following Web site:

www.hp.com/support

Print driver support in other operating systems

The following operating systems support plug-and-play or add-printer-wizard installations.

- Microsoft Windows XP Intel 64-bit (driver available only on the Web; requires Administration privileges)
- Microsoft Windows Server 2003 (uses the Win2000 XP driver on the HP Color LaserJet 2700 software CD and is also available on the Web)

Use a plug-and-play installation or the Add Printer Wizard to install the print driver for these operating systems. The print driver for these operating systems is available at the following HP support Web site:

www.hp.com/support/clj2700

For information and printer drivers for UNIX, go to the following Web site:

www.hp.com/go/UNIX

For information and printer drivers for Linux, go to the following Web site:

www.hp.com/go/linux

Availability

The following table lists the availability of the HP Color LaserJet 2700 printing-system software components by operating system.

Table 1-4 Software component availability for the HP Color LaserJet 2700 printer

Component	MS Windows 2000 and MS Windows XP – 32-bit	Windows XP – X64-bit [4]	Windows Server 2003	UNIX	Linux
Drivers					
HP PCL 6 Unidriver	X	X [1]	X		
HP PCL 6 Black and White Driver	X[1]	X[1]	X		
PS Emulation Unidriver	X[1]	X[1]	X		
UNIX Model Script				X[2]	
Linux print drivers and model script					X[3]
Installers					
Common Windows Installer	X				
CD Browser	X		X		
.INF File (Add Printer)	X	X[1], [4]	X		
Remote management and status					
Applet for HP WebJet Admin[5]	X	X	X		
HP ToolboxFX	X				
Online Documentation					
HP Color LaserJet 2700 Series User Guide	X		X		
Hewlett-Packard Color LaserJet 2700 Series Printing System Install Notes[6]	X		X		
HP Color LaserJet 2700 series Software Technical Reference[4]	X		X		
Help systems	X	X	X		
Other					

Table 1-4 Software component availability for the HP Color LaserJet 2700 printer (continued)

Component	MS Windows 2000 and MS Windows XP – 32-bit	Windows XP – X64-bit [4]	Windows Server 2003	UNIX	Linux
Screen fonts	X				

1 This driver is installed through the Add Printer Wizard only.
2 This component is available at the following Web site: www.hp.com/go/UNIX
3 This component is available at the following Web site: www.hp.com/go/linuxprinting
4 This component is available only at the following Web site: www.hp.com/support/clj2700
5 This component is available at the following Web site: www.hp.com/go/webjetadmin
6 This document is also available at the following Web site: www.hp.com/support

Topics:

- Printing-system software on the Web
- In-box printing-system software CDs

Printing-system software on the Web

All software that is contained on the HP Color LaserJet 2700 printing-system software installation CD is available on the following Web site:

www.hp.com/support/clj2700

Replacement CDs or newer versions of the software are available on the above Web site. Web deployment is the preferred method for obtaining the latest software. Click **CD-ROM Order Page** to order, or click **Download drivers and software** to get the software update.

The following are options are also available through the Web site:

- Automatic e-mail notification about new software releases.
- Downloads of 64-bit print driver software for Microsoft Windows XP and Microsoft Windows Server 2003. (Only 32-bit print drivers are available on the printing-system software CD. If the computer is running a 64-bit operating system, install a 64-bit print driver.)
- HP Support to obtain HP Color LaserJet 2700 printing-system software if the CD is damaged or missing.
- Contact numbers to request the software CD by phone for each country/region.

In-box printing-system software CDs

The software CD for the HP Color LaserJet 2700 printer contains a variety of files for installing the printing-system software on the computer.

The HP Color LaserJet 2700 printing-system software CD is divided into two partitions, one for each of the following operating systems:

- MS Windows
- Macintosh

Each partition includes documentation files and files that are required to install and uninstall the printing-system components.

Topics:

- Windows partition
- CD versions

Windows partition

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

- Drivers
- images
- LangFls
- Resting
- setup
- util

The printing-system files for each language also reside on the root directory of the CD and include a Manuals folder that contains the available documentation for that language.

NOTE File layouts differ by language for each regional version of the software CD. To view the files, insert the HP Color LaserJet 2700 printing-system software CD, right-click **Start**, click **Explore**, and then select the CD-ROM drive.

A single CD is used to install the HP Color LaserJet 2700 printing-system software.

There are three different CD versions. Each CD version contains the printing-system software for more than one language. The file layouts differ for each CD.

To view the files, insert the HP Color LaserJet 2700 printing-system software CD, right-click **Start**, click **Explore**, and then select the CD-ROM drive.

CD versions

The following table presents the part numbers and language groups on the software CDs for the HP Color LaserJet 2700 printers.

Table 1-5 CD part numbers for the HP Color LaserJet 2700 printing-system software

Part number	Description	Languages included on CD
Q7824–60102	Windows software CD for the HP Color LaserJet 2700 printer	• Arabic • Catalan • Danish • Dutch • English • Finnish • French • German • Italian • Norwegian • Portugese • Spanish • Swedish
Q7824–60103	Windows software CD for the HP Color LaserJet 2700 printer	• Croatian • Czech • English • Greek • Hebrew • Hungarian • Polish • Romanian • Russian • Slovak • Slovenian • Turkish
Q7824–60101	Windows software CD for the HP Color LaserJet 2700 printer	• Bahasa • English • Japanese • Korean • Simplified Chinese

Table 1-5 CD part numbers for the HP Color LaserJet 2700 printing-system software (continued)

Part number	Description	Languages included on CD
		• Traditional Chinese • Thai

The following table provides localization information about the software components for the HP Color LaserJet 2700 printer. A language key follows each table.

Table 1-6 Software component localization by language, A – G

Component [1]	Operating system	AR	CA	CS	DA	DE	EL	EN	ES	FI	FR
HP ToolboxFX	2000, XP, 2003	X	X	X	X	X	X	X	X	X	X
HP PCL 6 Unidriver and PS Emulation Unidriver	2000, XP, 2003	X	X	X	X	X	X[2]	X	X	X	X
Common Windows Installer	2000, XP, 2003			X	X	X	X	X	X	X	X
Online manuals (.PDF and .CHM)[1]	2000, XP, 2003	X	X	X	X	X	X	X	X	X	X

1 The installer is available in English if it is not localized to a particular language (except Catalan, which defaults to a Spanish version).
2 PCL 6 only.

Language key for A – G

- AR = Arabic
- CA = Catalan
- CS = Czech
- DA = Danish
- DE = German
- EL = Greek
- EN = English
- ES = Spanish
- FI = Finnish
- FR = French

Table 1-7 Software component localization by language H – P

Component	Operating System	HE	HR	HU	ID	IT	JA	KO	NL	NO	PL	PT
HP ToolboxFX	2000, XP, 2003	X		X		X		X	X	X	X	X

Table 1-7 Software component localization by language H – P (continued)

Component	Operating System	HE	HR	HU	ID	IT	JA	KO	NL	NO	PL	PT
HP PCL 6 Unidriver and PS Emulation Unidriver	2000, XP, 2003	X		X		X		X	X	X	X	X
Common Windows Installer[11]	2000, XP, 2003			X		X		X	X	X	X	X
Online manuals (.PDF and .CHM)[1]	2000, XP, 2003	X	X	X	X	X	X	X	X	X	X	X

[1] Components that are not available in a specific language are supported in English.

Language key for H – P

- HE = Hebrew
- HR = Croatian
- HU = Hungarian
- ID = Indonesian
- IT = Italian
- JA = Japanese
- KO = Korean
- NL = Dutch
- NO = Norwegian
- PL = Polish
- PT = Portugese

Table 1-8 Software component localization by language R – Z

Component [1]	Operating system	RO	RU	SK	SL	SV	TH	TR	ZHCN	ZHTW
HP ToolboxFX	2000, XP, 2003		X	X		X	X	X	X	X
HP PCL 6 Unidriver and PS Emulation Unidriver[2]	2000, XP, 2003		X			X	X[2]	X	X	X
Common Windows Installer[1]	2000, XP, 2003		X			X		X	X	X

Table 1-8 Software component localization by language R – Z (continued)

Component [1]	Operating system	RO	RU	SK	SL	SV	TH	TR	ZHCN	ZHTW
Online manuals (.PDF and .CHM)[2]	2000, XP, 2003	X	X	X	X	X	X	X	X	X

[1] Components that are not available in a specific language are supported in English.
[2] PCL 6 only

Language key for R – Z:

- RO = Romanian
- RU = Russian
- SK = Slovak
- SL = Slovenian
- SV = Swedish
- TH = Thai
- TR = Turkish
- ZHCN = Simplified Chinese
- ZHTW = Traditional Chinese

HP LaserJet documentation

The documentation in the following table is available for the HP Color LaserJet 2700 printer.

Table 1-9 User documentation availability and localization

Document name	Languages	Part number	Location
HP Color LaserJet 2700 Series User Guide	English	Q7824–90932	The *HP Color LaserJet 2700 Series User Guide* is available in electronic format on the HP Color LaserJet 2700 printing-system software CD.
	Arabic	Q7824–90942	
	Catalan	Q7824–90943	
	Chinese (Simplified)	Q7824–90935	
	Chinese (Traditional)	Q7824–90936	
	Croatian	Q7824–90961	
	Czech	Q7824–90944	
	Danish	Q7824–90945	
	Dutch	Q7824–90946	
	Finnish	Q7824–90947	
	French	Q7824–90948	
	German	Q7824–90949	
	Greek	Q7824–90950	
	Hebrew	Q7824–90951	
	Hungarian	Q7824–90952	
	Indonesian (Bahasa)	Q7824–90933	
	Italian	Q7824–90953	
	Japanese	Q7824–90938	
	Korean	Q7824–90934	
	Norwegian	Q7824–90954	
	Portuguese (Brazilian)	Q7824–90955	
	Polish	Q7824–90956	
	Romanian	Q7824–90962	
	Russian	Q7824–90957	
	Slovak	Q7824–90963	
	Slovenian	Q7824–90964	
	Spanish	Q7824–90958	
	Swedish	Q7824–90959	
	Thai	Q7824–90937	
	Turkish	Q7824–90960	

Table 1-9 User documentation availability and localization (continued)

Document name	Languages	Part number	Location
HP LaserJet 2700 Start Guide	• Catalan • Danish • Dutch • English • Estonian • Finnish • French • German • Italian • Lithuanian • Latvian • Norwegian • Portuguese (Brazilian) • Spanish • Swedish	Q7824–90928	The *HP LaserJet 2700 Start Guide* is available in hard copy and comes in the box with the HP Color LaserJet 2700 printer.
	• Arabic • Bulgarian • English • Greek • French • Kazakh • Russian • Turkish • Ukrainian	Q7824–90929	

Table 1-9 User documentation availability and localization (continued)

Document name	Languages	Part number	Location
	• Czech (Cesky) • English • Hebrew • Croatian • Hungarian • Polish • Romanian • Slovak • Slovenian	Q7824–90930	
	• English • Indonesian • Korean • Japanese • Simplified Chinese • Thai • Traditional Chinese	Q7824–90931	

2 Software description

Introduction

The HP Color LaserJet 2700 printer comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. Linux and UNIX systems also support the HP Color LaserJet 2700 and software is available on the Web. For information about specific system installers, drivers, and components, see the section that corresponds to that system.

Topics:

- MS Windows printing-system software
- HP Extended Capabilities
- The HP ToolboxFX
- HP Embedded Web Server

MS Windows printing-system software

In the MS Windows environment (Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows Server 2003), insert the HP Color LaserJet 2700 printing-system software CD in the CD-ROM drive. This provides access to the interactive CD browser that installs the print drivers and related components.

The following figure shows the main screen of the HP Color LaserJet 2700 printing-system software CD.

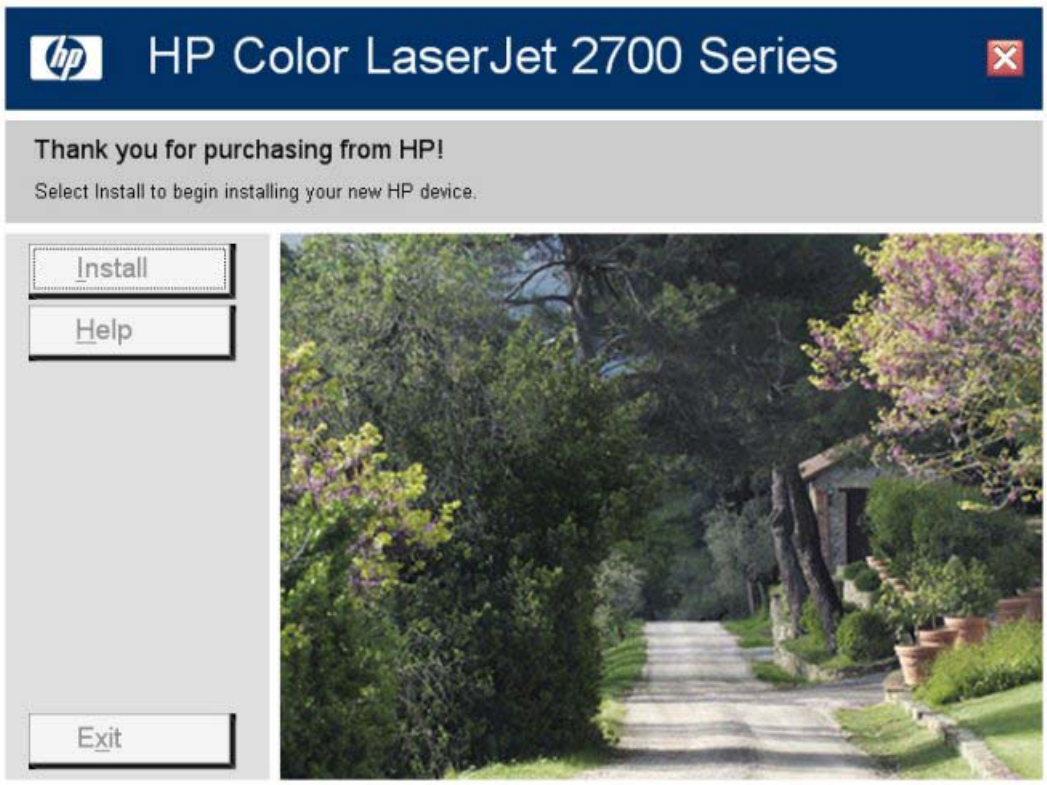


Figure 2-1 Installation software CD browser

If the screen does not appear after inserting the software CD into the CD-ROM drive, follow these steps to open the CD browser:

1. Click **Start**.
2. Click **Run**.
3. Click **Browse…**. and navigate to the root directory of the software CD.
4. Double-click the SETUP.EXE file to start the installer.

The main screen of the software CD contains the **Install** option. After selecting **Install**, the installation wizard guides the HP Color LaserJet 2700 printing-system software installation. Select either a **Minimum Installation** or a **Full Installation**. Selecting a **Minimum Installation** installs only the necessary software and does not install added features, such as the HP ToolboxFX. A **Full Installation** is generally recommended.

Click the **Help** button to view documentation and support options to increase productivity and resolve issues with the HP Color LaserJet 2700 printers.

Click the **Exit** button to close the program.

For detailed information about installing the software CD for the HP Color LaserJet 2700 printer, see Install Microsoft Windows printing-system components

.

HP LaserJet print drivers

All of the MS Windows drivers are supported in Microsoft 32-bit operating systems. Separate versions of the HP PCL 6 Unidriver, HP PCL 6 Black and White Driver, and PS Emulation Unidriver are available for Microsoft Windows XP and Microsoft Windows Server 2003 64-bit operating systems. These 64-bit drivers are not included on the printing-system software CD, but they can be downloaded from the following HP Web site:

www.hp.com/support/clj2700

The following drivers are available on the HP Color LaserJet 2700 printing-system software CD for Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows Server 2003:

- The HP PCL 6 Unidriver
- HP PCL 6 Black and White Driver
- The HP Postscript 3 Emulation Unidriver (the PS Emulation Unidriver)

Select the best print driver

HP print drivers are designed for different environments and uses. See the print driver Help for available features.

Topics:

- Complete LaserJet printing system
- HP PCL 6 Unidriver
- PS Emulation Unidriver
- HP universal print driver

Complete LaserJet printing system

Use the printing-system software CD to install the full set of drivers and other software for the HP Color LaserJet 2700 printer.

HP PCL 6 Unidriver

Overall, the HP PCL 6 Unidriver provides the best performance, print quality, and printer-feature support for most users. The driver aligns with MS Windows graphic device interface (GDI) for best performance in MS Windows environments.

The HP PCL 6 Unidriver may not be fully compatible with third party and custom solutions that are based on PCL 5.

PS Emulation Unidriver

The PS Emulation Unidriver is recommended for printing with Adobe or other graphics-rich software programs. The driver is compatible with postscript level-3 and supports postscript font DIMMs.

Use the PS Emulation Unidriver in primarily postscript-specific software programs such as Adobe and Corel.

HP universal print driver

The HP PCL 5 and HP PS emulation universal print drivers are designed for corporate or IT-managed MS Windows environments. These drivers provide a single PCL 5 or PS emulation driver for use with multiple printer models.

The HP universal print drivers are recommended when printing to multiple printer models from a mobile MS Windows computer.

HP Extended Capabilities

When installing the HP Color LaserJet 2700 printing-system software, you have the option of participating in HP's voluntary program that allows communication between your system and HP.

If you select the option to participate, you receive an invitation about two weeks later. No information is gathered until you receive the invitation and agree to all of the terms. The invitation contains full disclosure of the information to be communicated. Participation is completely voluntary, and the impact on processing and connecting speed is negligible. Personal information is never sent without permission. TCP/IP addresses are used only to enable the connection and for security purposes.

If you decline the invitation, the dialog box does not appear again, and no data is gathered.

The HP ToolboxFX

This section provides information about the following topics:

- HP ToolboxFX Overview
- System requirements
- Key features
- The HP ToolboxFX folders
- Other screens

HP ToolboxFX Overview

NOTE The HP ToolboxFX is available for Microsoft Windows 2000 and Microsoft Windows XP operating systems only. The HP ToolboxFX is only available with a full installation. It is not accessible with a minimum installation.

The HP ToolboxFX allows end users to easily communicate with and manage their HP Color LaserJet 2700 printer. The HP ToolboxFX provides the following capabilities:

- Provides a view of the current status of the product
- Provides a view of the current status of the product consumables
- Provides Device Alert functionality, notifying the end user when particular events or conditions occur at the device
- Provides access to troubleshooting information
- Provides access to some of the product settings, as an alternative to accessing them through the product control panel

Starting the HP ToolboxFX

Start the HP ToolboxFX by using any of the following methods.

- Double-click the **HP ToolboxFX** icon in the Microsoft Windows system tray.
- Click **Start**, click **Programs**, click **HP**, click **HP Color LaserJet 2700**, and then click **HP ToolboxFX**.
- Right-click the **HP ToolboxFX** icon in the Microsoft Windows system tray. Then click **Open HP ToolboxFX**.

Structure

The HP ToolboxFX consists of a single framework divided into several sections.

- **Heading banner.** Each page that is displayed in the HP ToolboxFX has a heading banner at the top that includes the HP logo.
- **Devices pane.** The Devices Pane is always visible on the left-hand side of the HP ToolboxFX window. The Devices pane shows the HP products that are available to the host computer system and folders for the types of information available about each product.

- **Main content area.** Click any of the devices or folders listed in the Devices pane to see information about that product in the main content area of the HP ToolboxFX window.
- **Toolbar.** A toolbar appears at the top of the main content area. The toolbar contains controls for printing, refreshing the page, ordering supplies, and getting help.
- **Other Links pane.** The Other Links pane is always visible in the lower-left corner of the HP ToolboxFX window. The Other Links pane contains links to the HP Instant Support, Product Support, and Product Registration pages on the HP Web site.

Opening screen

The opening screen that appears in the HP ToolboxFX section depends on the installed configuration of the HP ToolboxFX. If the HP ToolboxFX is installed for a single HP LaserJet product, the Device Status page for that HP LaserJet product appears when the toolbox is opened. If the HP ToolboxFX is installed for multiple products, a product summary page appears when opening the toolbox that contains a brief summary of each product available to the HP ToolboxFX. Double-click any of the products listed to go to the Device Status page for that product.

System requirements

HP ToolboxFX is currently supported on the following operating systems:

- Microsoft Windows 2000
- Microsoft Windows XP Professional
- Microsoft Windows XP Home

HP ToolboxFX also requires Microsoft .NET Framework 1.1 on the client machine, which happens automatically during installation of the HP Color LaserJet 2700 printing-system software.

Key features

The following alert messages are available:

- HP device pop-up alert messages
- System-tray icon alert
- Desktop alert
- E-mail alert

Through the HP ToolboxFX, the appropriate person can be alerted when the HP Color LaserJet 2700 printer needs attention. To see a list of the events that generate alerts in HP ToolboxFX, see the Set up Status Alerts section.

For status alerts, a group of errors or a group of print-cartridge warnings can be selected, but not specific items within those groups. To configure alerts, use the **Set up Status Alerts** screen in the **Alerts** folder in the HP ToolboxFX.

HP device pop-up alert messages

Pop-up alert messages give instant notification when an error or print-cartridge warning occurs in the device. An error, such as a “jam,” halts device operation and requires correction before the device continues operation. The alert condition can be corrected at any time. Alerts are sent only to the specific

computer that prints to the device. This feature is provided through HP ToolboxFX and is turned *on* by default.

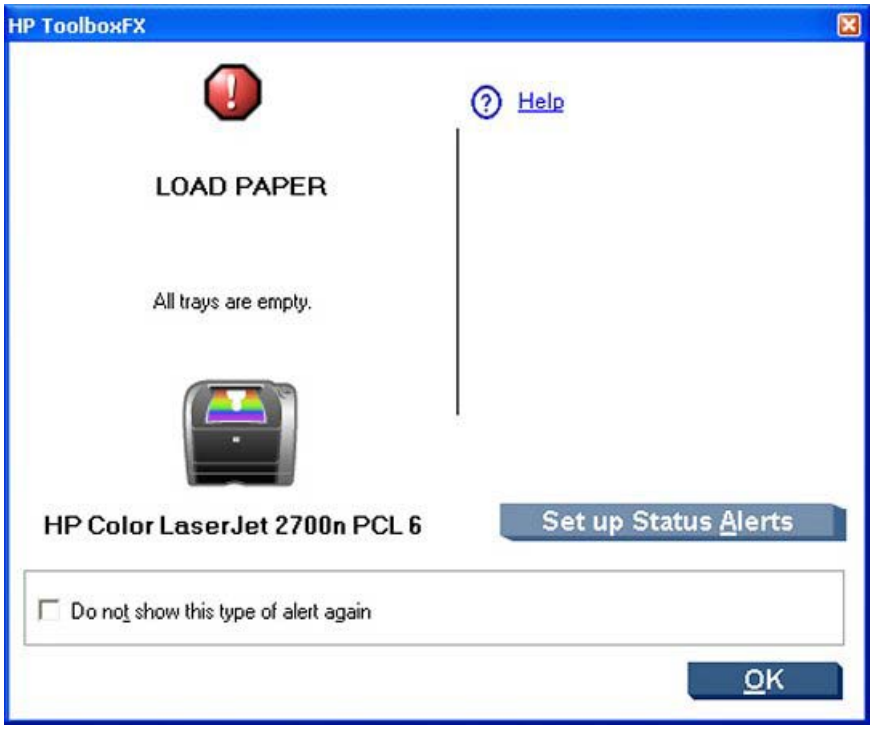


Figure 2-2 **HP device alert – Load Tray 2** pop-up message

System-tray icon alert

The system-tray icon feature shows information about all of the current alert conditions for the device. An **HP Device Alert** icon appears in the Microsoft Windows system tray when an alert condition occurs. This feature is turned *on* by default.

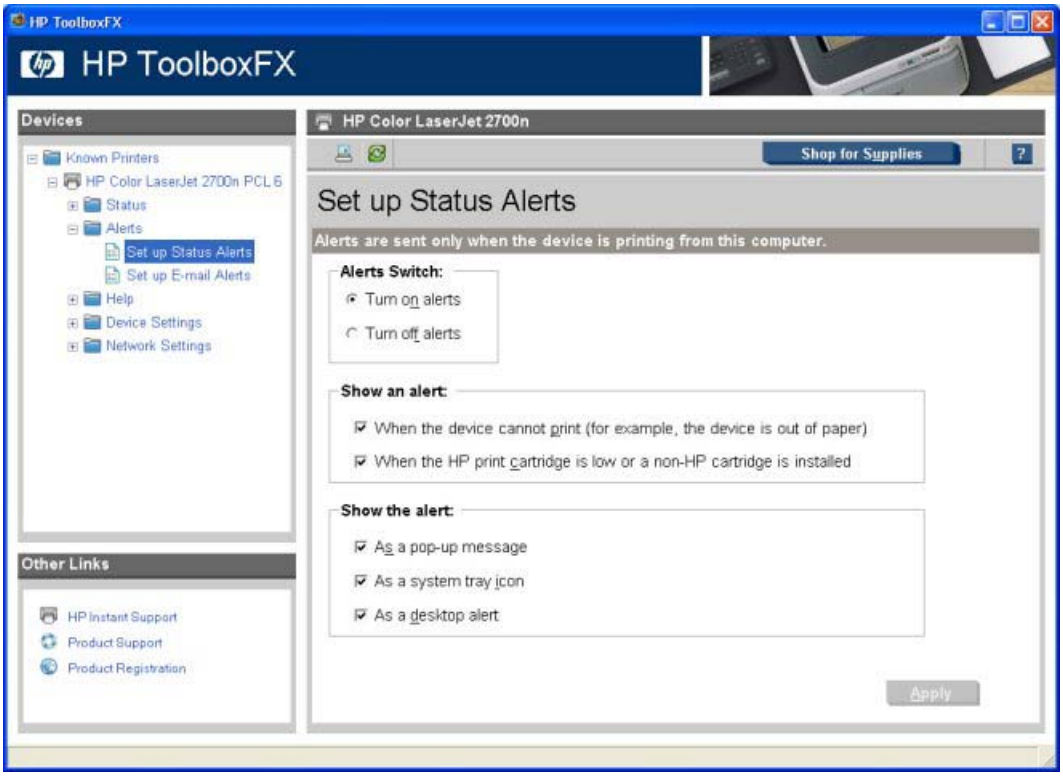


Figure 2-3 HP Device Alert – CLOSE DOOR System Tray and Desktop pop-up message

Desktop alert

Desktop alert messages give immediate notification when an error or print-cartridge warning occurs in the device. Desktop alerts only appear for a few seconds, and then automatically disappear. This feature is turned *off* by default.

E-mail alert

E-mail alert messages notify up to two users when a specific alert condition occurs in the device. The alert condition can be a specific error alert or print-cartridge warning. This feature can be used to alert administrators or service providers that the device requires attention. For instance, when the toner low alert occurs, the person in charge of ordering print cartridges can be notified by e-mail.

This feature is turned *off* by default. To activate this feature, type the appropriate e-mail address, select the notification events, configure the SNMP e-mail server, and enable the feature in HP ToolboxFX.

The HP ToolboxFX folders

The HP ToolboxFX folders section describes the following folders:

- Status folder
- Alerts folder
- Help folder
- Device Settings folder
- Network Settings folder

Status folder

The **Status** folder contains the following sub-folders:

- Device Status
- Supplies Status
- Device Configuration
- Network Configuration
- Print Info Pages
- Color Usage Job Log
- Event Log

Device Status

The **Device Status** screen shows device status messages from the product.

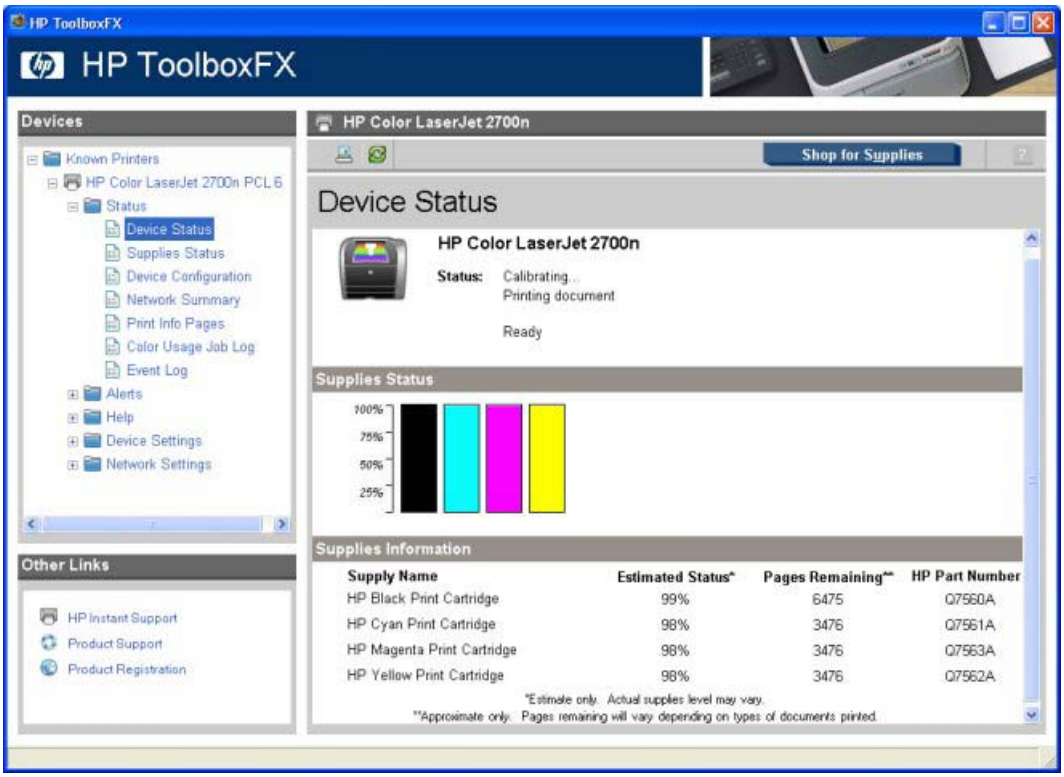


Figure 2-4 Device Status screen

NOTE The HP Color LaserJet 2700 printers include a Supplies Status section and a Supplies Information section on the **Device Status** screen. These sections provide information about the estimated toner level, the approximate pages remaining based on the estimated toner level, and the HP part number for easy reference when ordering new consumables.

Supplies Status

The **Supplies Status** screen provides detailed information about the cyan, magenta, yellow, and black print cartridges. This information is not available if a non-HP cartridge is installed in the product.

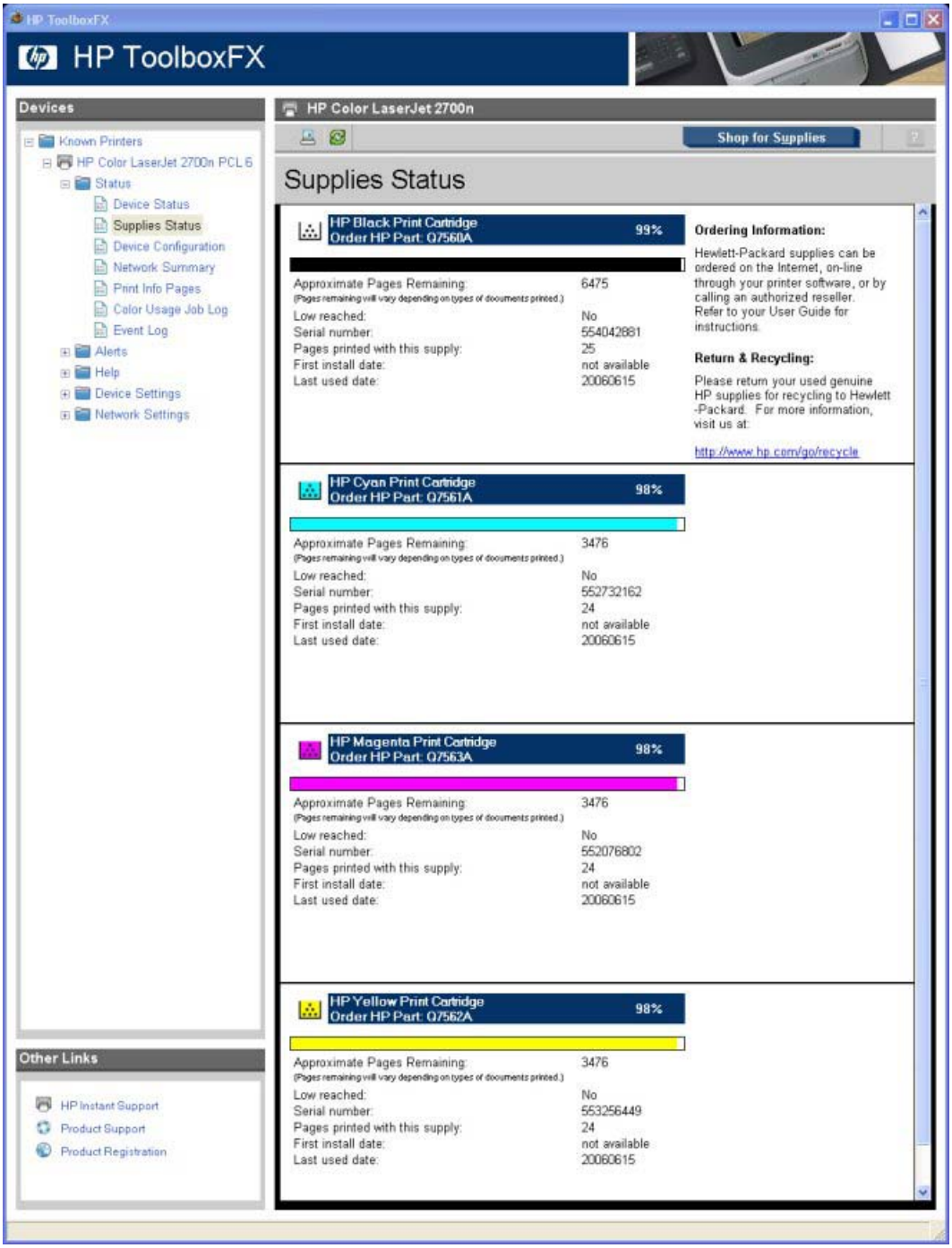


Figure 2-5 Supplies Status screen

Device Configuration

The **Device Configuration** screen shows the values for all of the settings available for the product and other configuration items, such as installed DIMMs, personalities, and page counts. The contents of this screen should be consistent with the configuration page that the product generates.

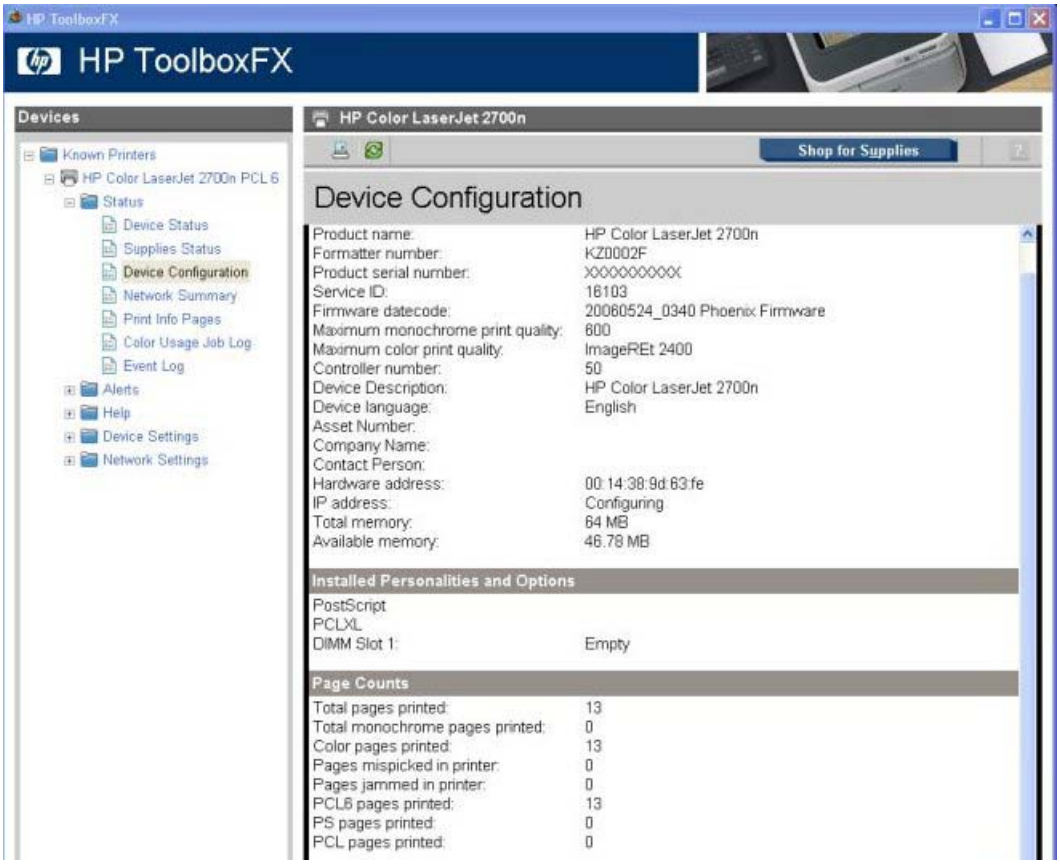


Figure 2-6 **Device Configuration** screen (1 of 2)

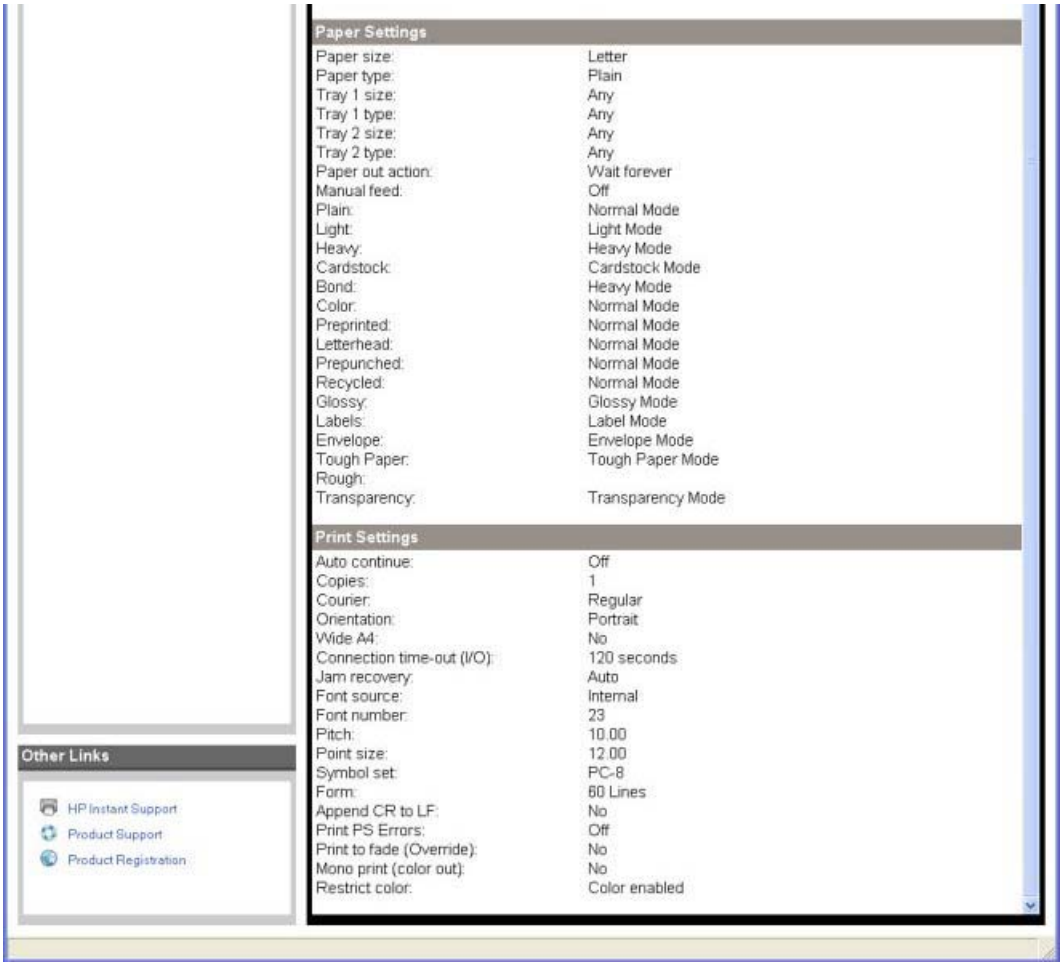


Figure 2-7 **Device Configuration** screen (2 of 2)

Network Configuration

The **Network Summary** screen shows the values for all of the network settings that are available for the product. The contents of this screen should be consistent with the configuration page that the product generates.

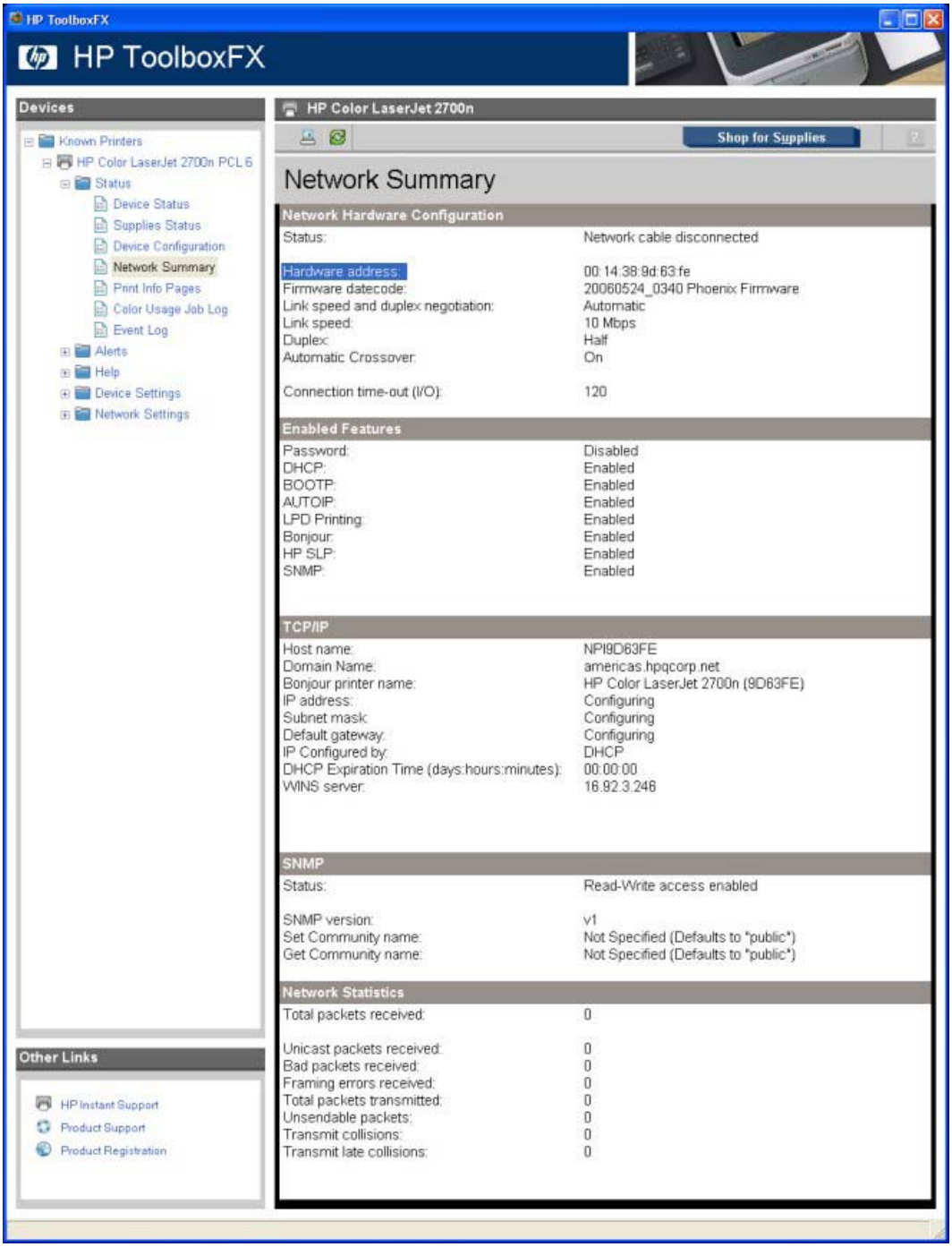


Figure 2-8 **Network Summary** screen

Print Info Pages

Use the **Print Info Pages** screen to print the internal special pages that the product generates. Click **Print** next to the name of the page to be printed.

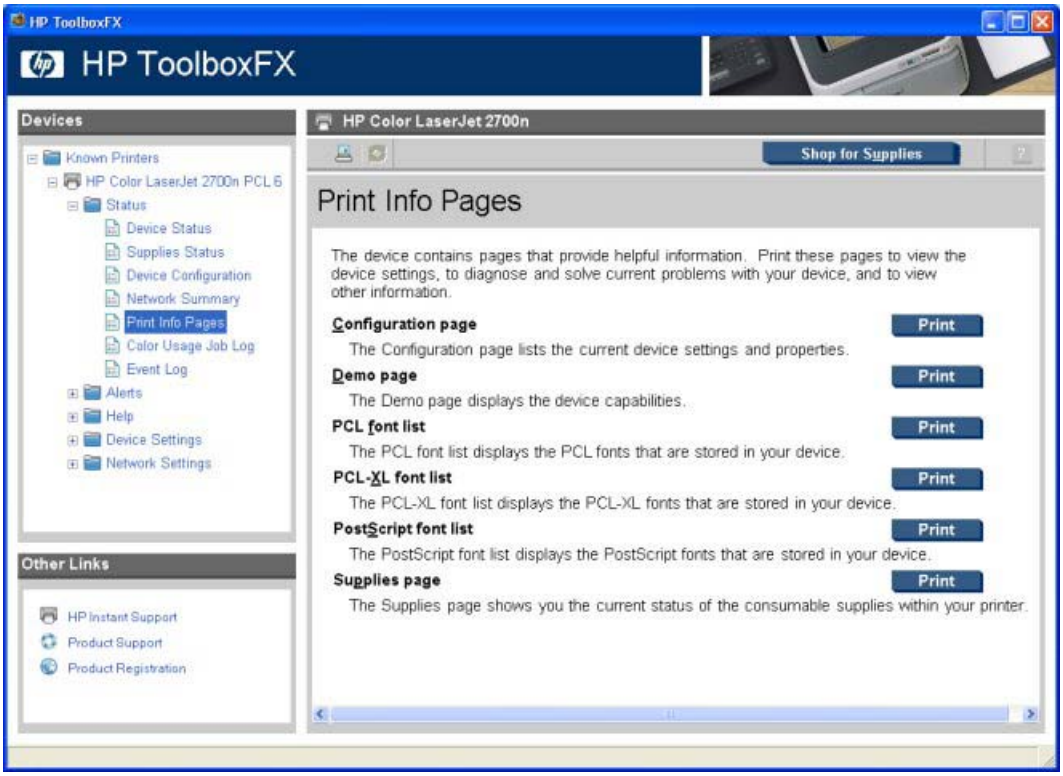


Figure 2-9 Print Information Pages screen

The content of these reports is generated by the product firmware, *not* by the HP ToolboxFX.

Color Usage Job Log

Click the **Color Usage Job Log** tab to complete the following tasks:

- Find the printer serial number under the **Product Information** subheading.
- Check the number of print jobs stored under the **Usage Totals** subheading. The log also includes information about how much color the printer has used.
- Delete the currently stored Color Usage Job Log information by selecting the **Clear Job Log** option.

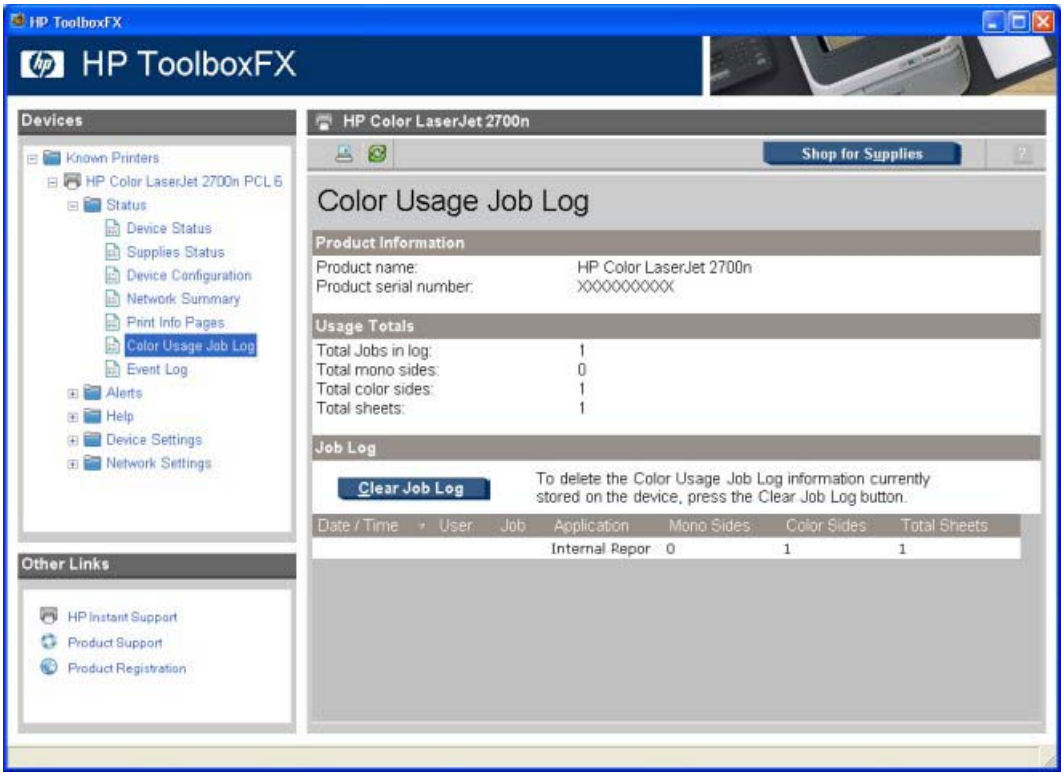


Figure 2-10 Color Usage Job Log screen

Event Log

Use the **Event Log** screen to monitor events for the HP Color LaserJet 2700 printer. Up to 10 events can appear on this screen. If this screen is empty, no events have occurred on the printer.

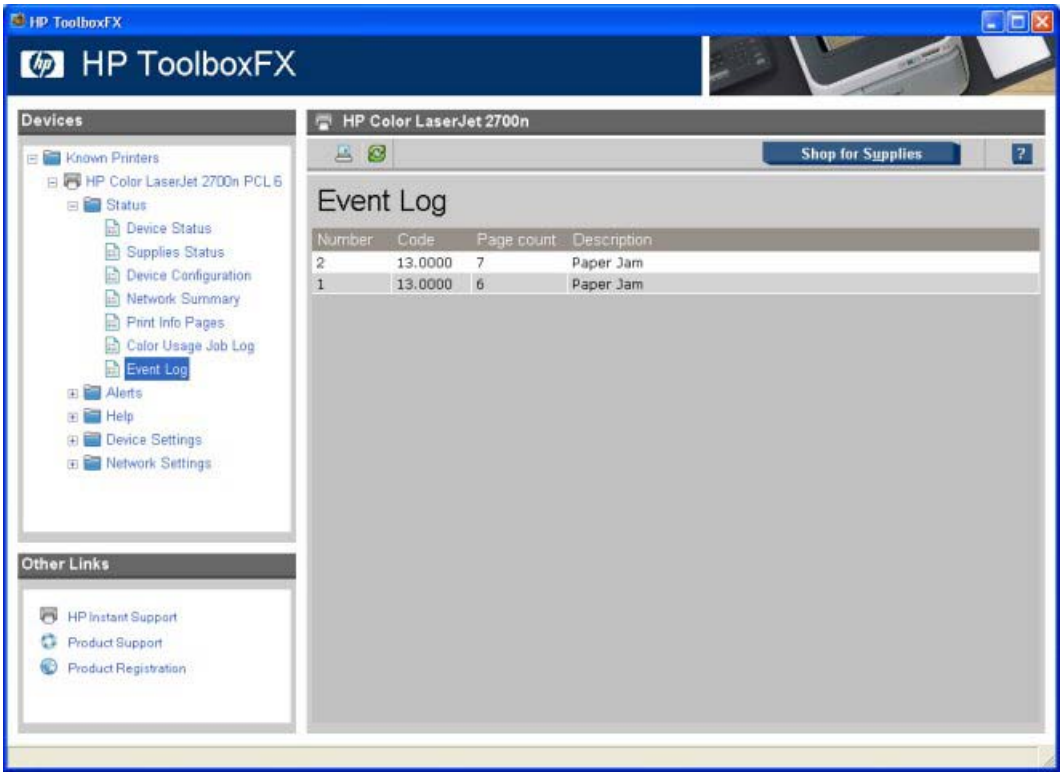


Figure 2-11 **Event Log** screen

Alerts folder

The **Alerts** folder contains the following sub-folders:

- Set up Status Alerts
- Set up E-mail Alerts

Set up Status Alerts

Use the **Set up Status Alerts** screen to set up status alerts for the HP Color LaserJet 2700 printer. Select the **Turn on alerts** option and then click **Apply** to turn on alerts.

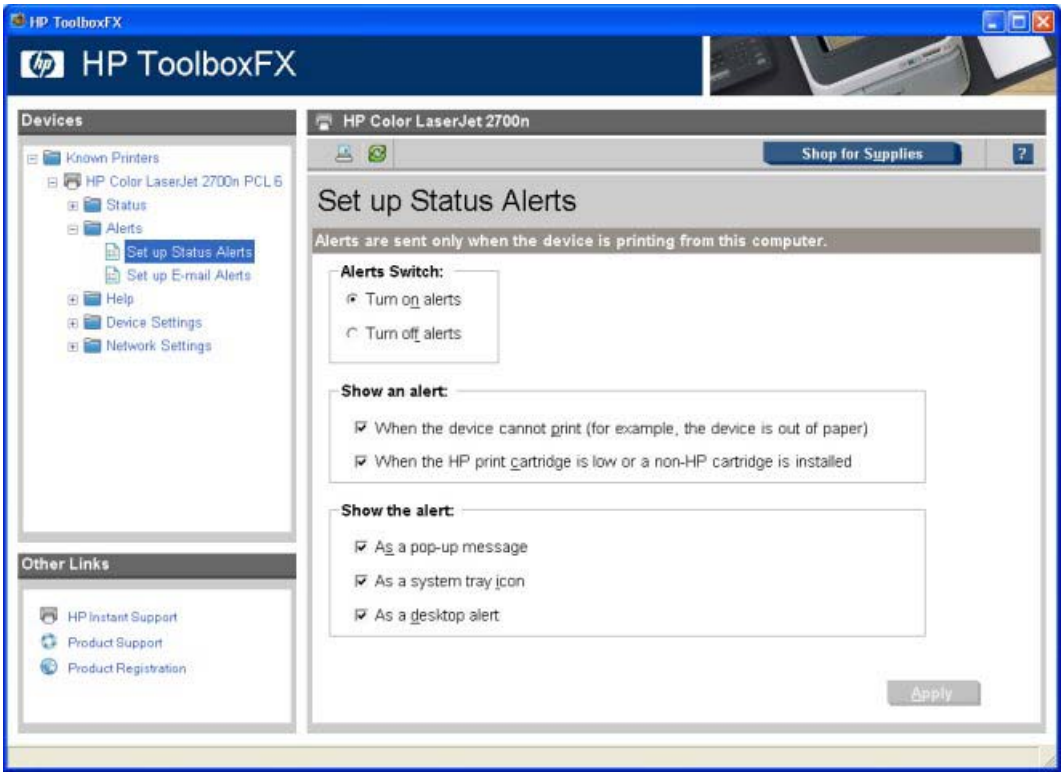


Figure 2-12 **Set up Status Alerts** screen

Select options under **Show an alert** to receive alerts like those in the following table.

Table 2-1 Event alerts for HP ToolboxFX

Pop-up alerts, system-tray icon alerts, and desktop alerts	Event	
Supplies warnings	Order Cyan, Magenta, Yellow, or Black Cartridge	
Supplies errors	• Cyan, Magenta, Yellow, or Black Incorrect • Cyan, Magenta, Yellow, or Black Missing • Non-HP Cyan, Magenta, Yellow, or Black Cartridge • Unauthorized Cyan, Magenta, Yellow, or Black Cartridge • Replace Cyan, Magenta, Yellow, or Black • Cyan, Magenta, Yellow, or Black E-label Error • Replace Yellow, Magenta, or Cyan in Mono • Replace Supply/Supplies Printing in Mono • Supplies Missing • Replace Supplies	
Printer errors	• Load Paper [TYPE] [SIZE] • Tray 1 Paper Out • Tray 2 Paper Out	• High Fuser Error • Fuser Driver Error • Beam Error

Table 2-1 Event alerts for HP ToolboxFX (continued)

	• Insufficient Memory • Door Cover Open • Close Cover • Manual Feed • Tray 1 Jam • Tray 2 Jam • Tray 3 Jam • Jam In Print Paper Path • Jam In Cartridge Area • Jam In Output Bin • Printer Mispick • Invalid Driver • Fuser Error • Low Fuser Error • Slow Fuser Error	• Fan Error • Page Punt • Engine Comm Error • Tray 1 Unexpected Size [SIZE] • Tray 2 Unexpected Size [SIZE] • Misprint • Top Detect Error • Top Sensor Error • DC Controller Error • 59.4 Error • Output Bin Full
E-mail alerts	**Event**	
	• Cartridge Low • Replace Cartridge • Close doors/covers • Insufficient memory • Manual feed • Non-HP print cartridge installed • Unauthorized supply installed • Paper out • Printer mispick • Remove jam • Unexpected paper size	

Select one or more formats for the alert under **Show the alert**:

- A pop-up message
- A system tray icon
- A desktop alert

NOTE Click **Apply** to make the changes take effect.

Set up E-mail Alerts

Use the **Set up E-mail Alerts** screen to set up e-mail alerts for the HP Color LaserJet 2700 printer.

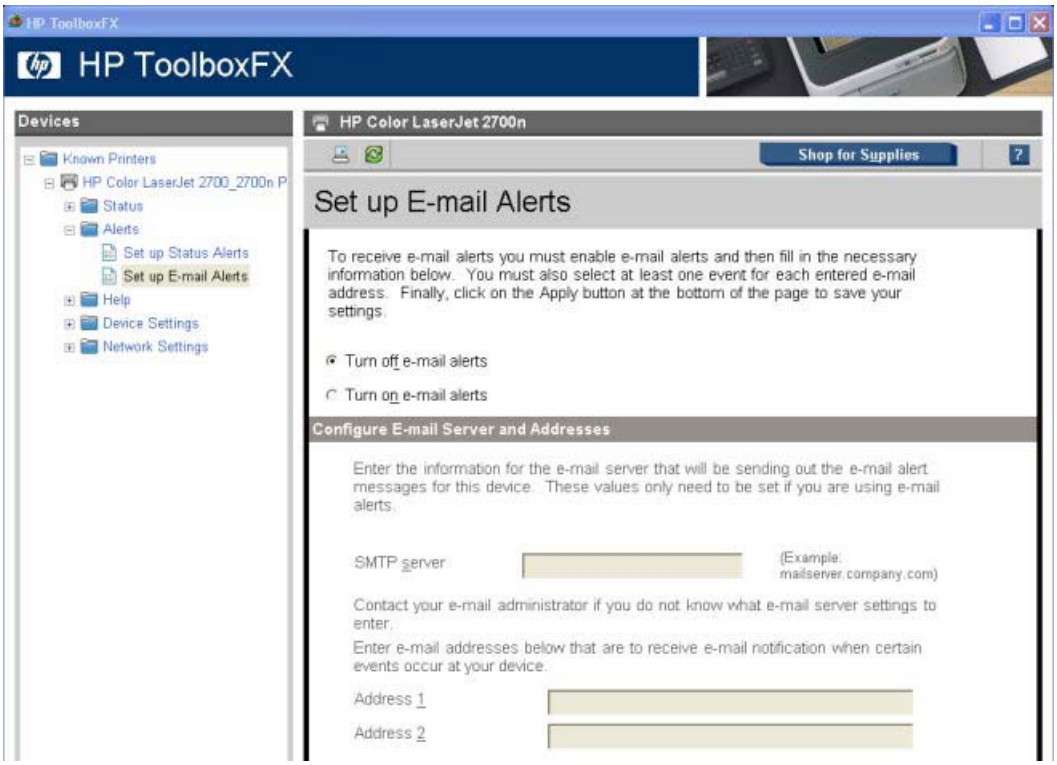


Figure 2-13 Set up E-mail Alerts screen (1 of 2)

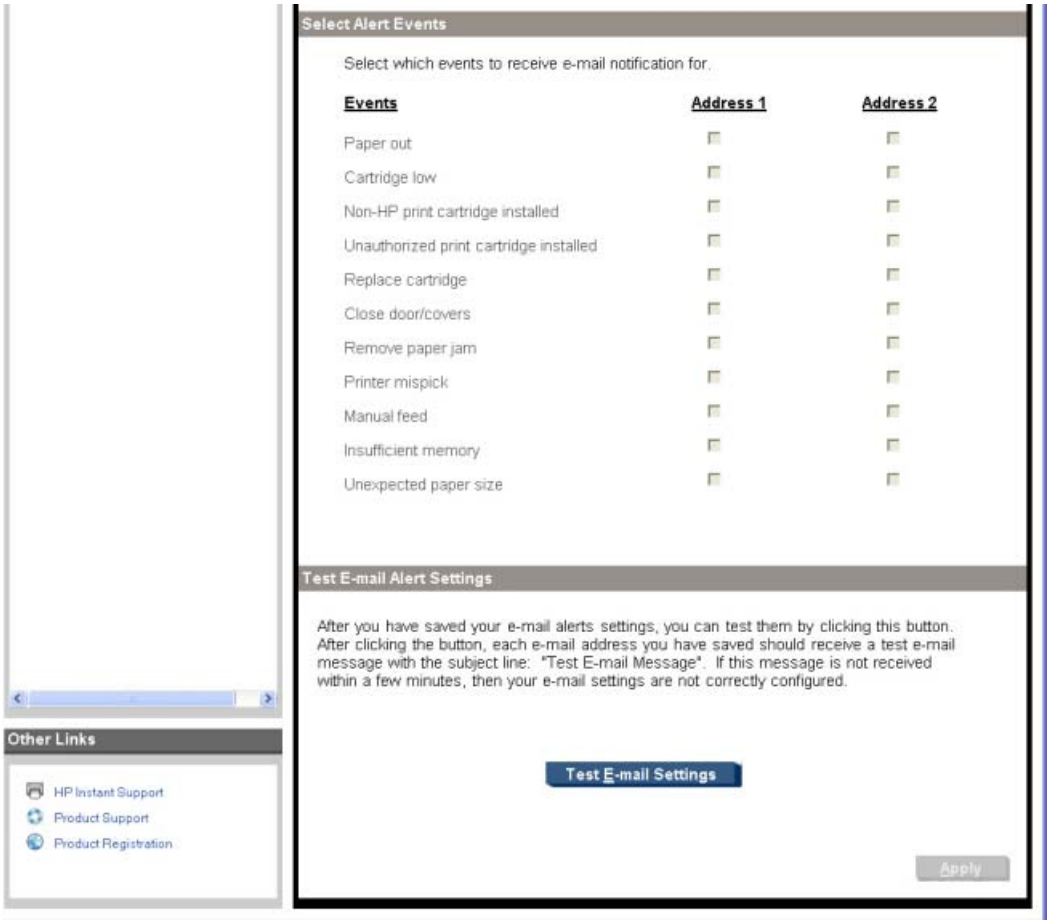


Figure 2-14 **Set up E-mail Alerts** screen (2 of 2)

E-mail messages can be sent about the supplies status of or events (such as a jam) related to the HP Color LaserJet 2700 printer. Select the specific events about which you want notification.

Use the following procedure to activate this feature:

1. Type in a valid e-mail address. Up to two e-mail addresses can be configured to receive messages for each event.
2. Select the events for which you want notification.
3. Configure the SNMP e-mail server that will be used to send the e-mail message.
4. Click **Apply** to make the changes take effect.

To ensure that the correct e-mail addresses have been used and that the SNMP server information is valid, click the **Test E-mail Settings** button.

Help folder

The **Help** folder contains the following sub-folders:

- Troubleshooting
- Animated Demonstrations

- User Guide

All of the content in the **Help** folder is static HTML content, except for the animated demonstrations. This content contains hyperlinks, and **Next** and **Previous** buttons, that can be used to navigate through the various sections of the Help content.

Troubleshooting

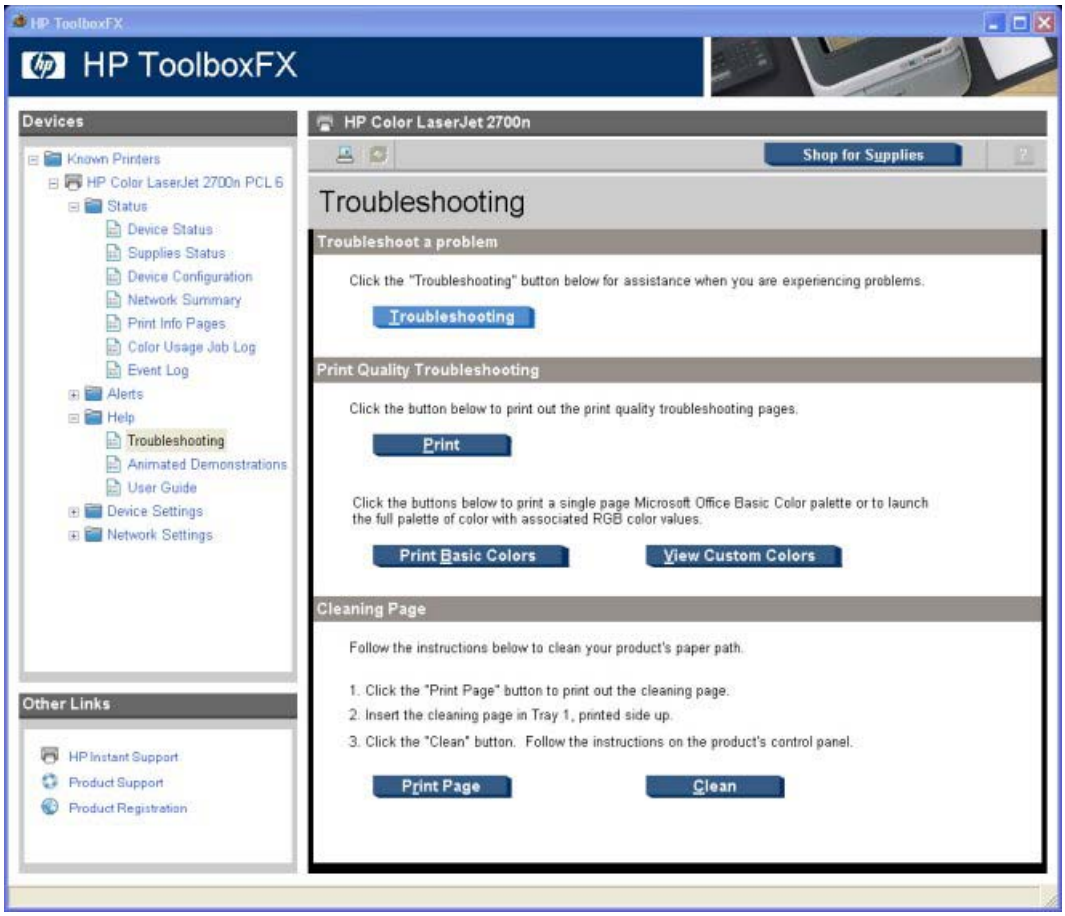


Figure 2-15 Troubleshooting sub-folder

The following options are available on the Troubleshooting screen:

- **Troubleshooting**. Click this button to open the Troubleshooting chapter of the *HP Color LaserJet 2700 series User Guide*.
- **Print**. Click this button to print the Print Quality Troubleshooting pages
- **Print Basic Colors**. Click this button to print a single page of basic color palette options.
- **View Custom Colors**. Click this button to explore the basic and custom printer color palette options.
- **Print Page** and **Clean**. Follow the on-screen directions to clean the printer paper path.

Animated Demonstrations

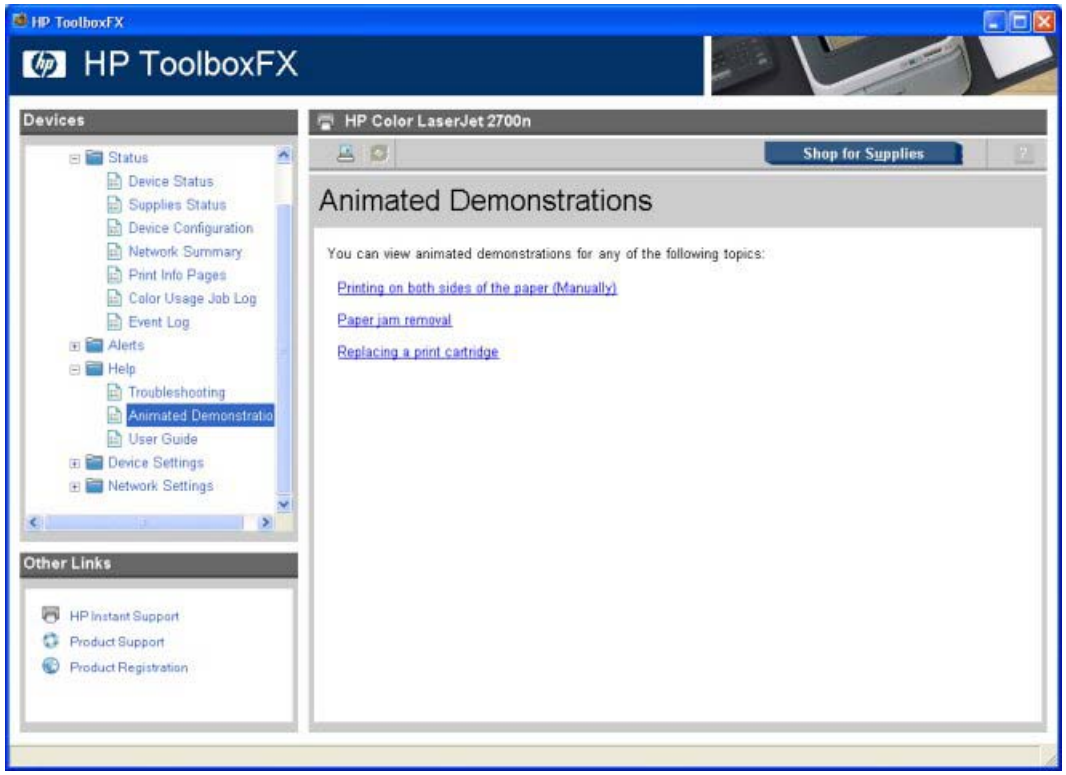


Figure 2-16 Animated Demonstrations screen

Click the links on the **Animated Demonstrations** screen to view animated demonstrations about removing jams.

User Guide

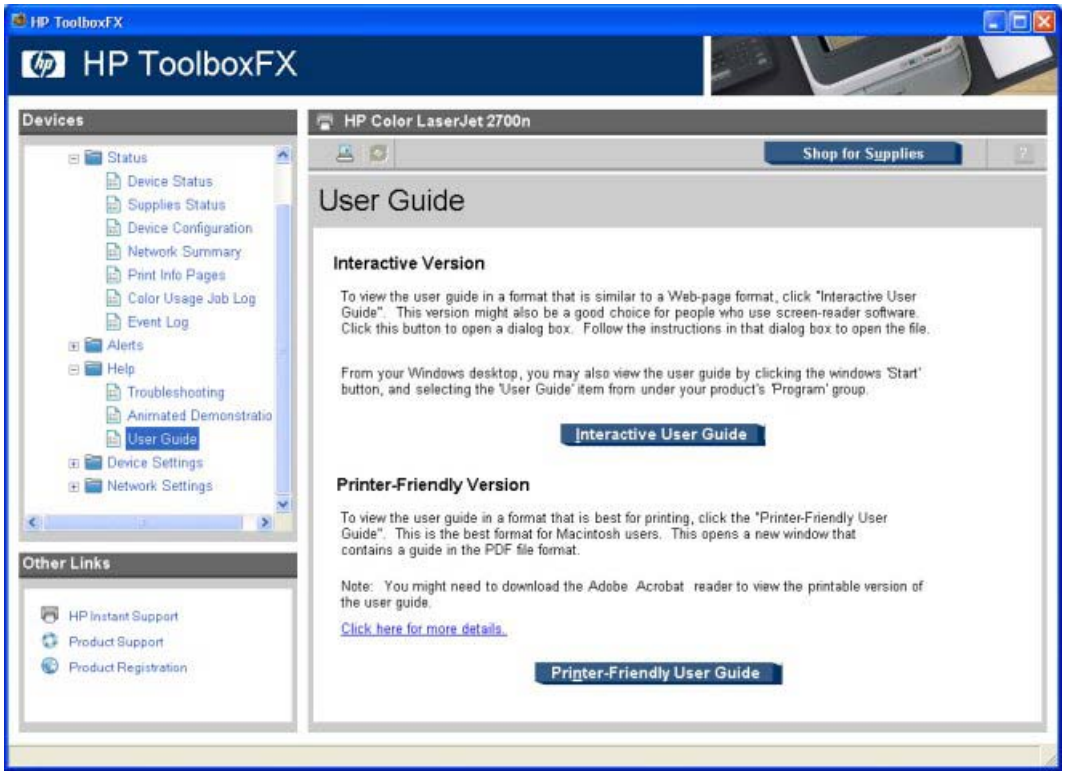


Figure 2-17 *HP Color LaserJet 2700 series User Guide*

Click the **User Guide** screen to see the *HP Color LaserJet 2700 series User Guide*.

- Click the **Interactive User Guide** button to open the user guide in a .CHM version. This view is similar to a Web-page format.
- Click the **Printer-Friendly User Guide** button to open a .PDF version of the user guide. Opening the document in this view might require downloading the Adobe Acrobat reader. For more information, see the following Web site:www.adobe.com

Device Settings folder

The **Device Settings** folder contains the following sub-folders:

- Device Information
- Paper Handling
- Printing
- PCL5c
- PostScript
- Print Quality
- Print Density
- Paper Types
- Extended Print Modes screen

- System Setup
- Service
- Save/Restore Settings
- Password

Device Information

Use the **Device Information** screen to add or change information about the HP Color LaserJet 2700 printer.

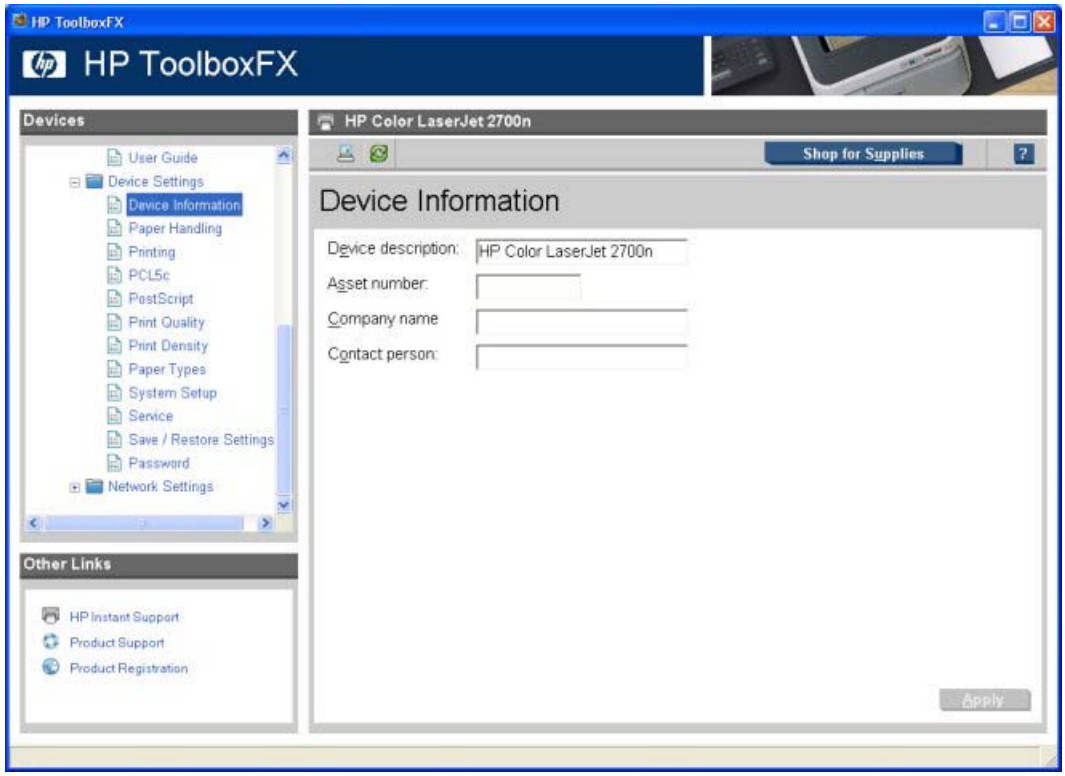


Figure 2-18 Device Information screen

NOTE Click **Apply** to make any changes take effect.

Paper Handling

Use the **Paper Handling** screen to change the paper-handling defaults for the HP Color LaserJet 2700 printer.

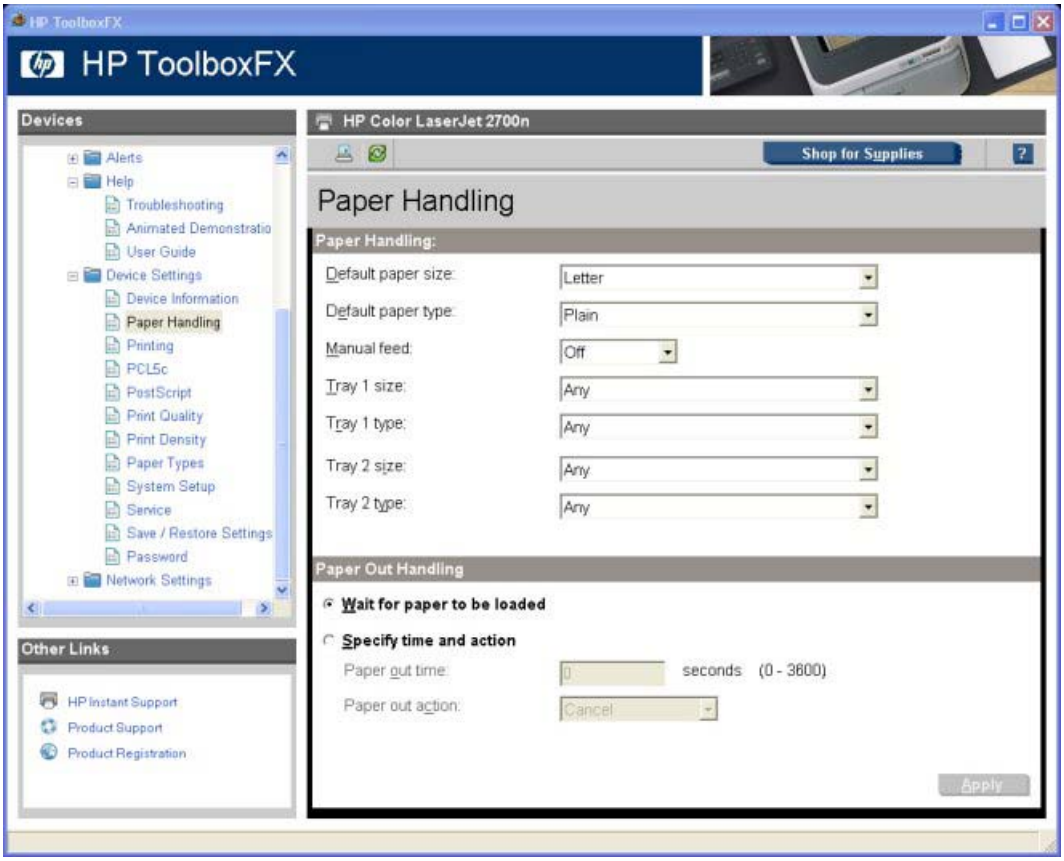


Figure 2-19 Paper Handling screen

Printing

Use the **Printing** screen to change the printing defaults for the HP Color LaserJet 2700 printer.

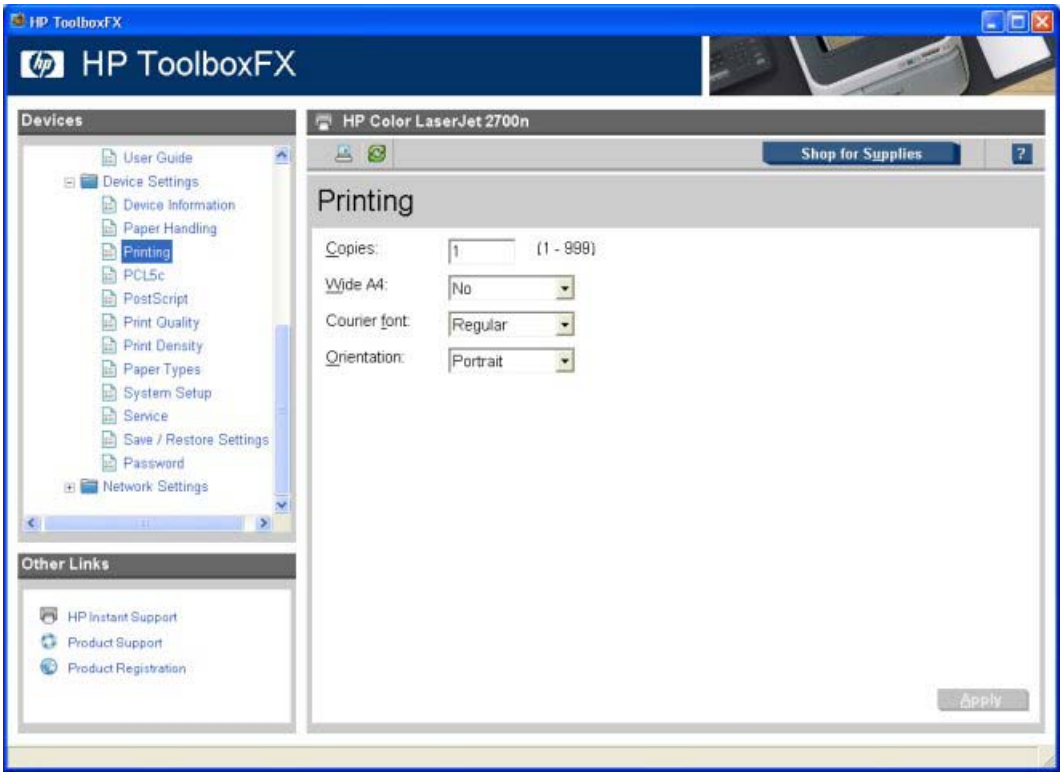


Figure 2-20 **Printing** screen

PCL5c

Use the **PCL5c** screen to change the PCL defaults for the HP Color LaserJet 2700 printer.

Figure 2-21 **PCL5c** screen

NOTE Click **Apply** to make any changes take effect.

PostScript

Use the **HP postscript emulation** screen to change the postscript emulation defaults for the HP Color LaserJet 2700 printer.

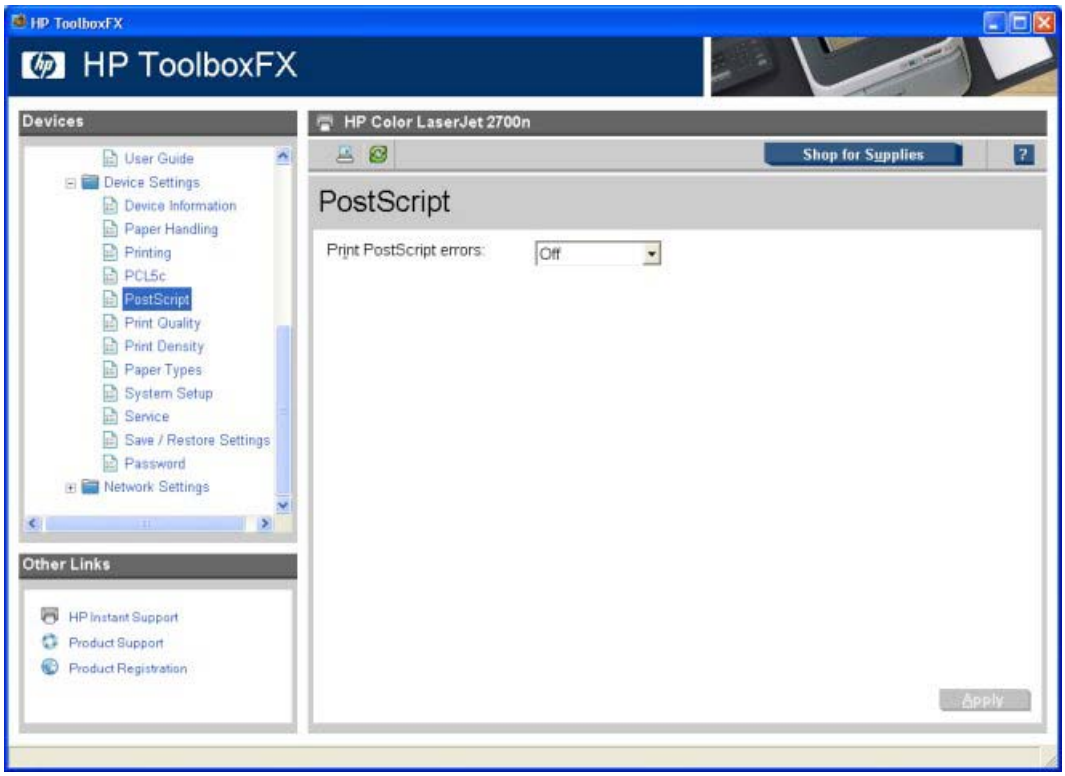


Figure 2-22 PostScript screen

NOTE Click **Apply** to make the changes take effect.

Print Quality

Use the **Print Quality** screen to change the print-quality defaults for the HP Color LaserJet 2700 printer.

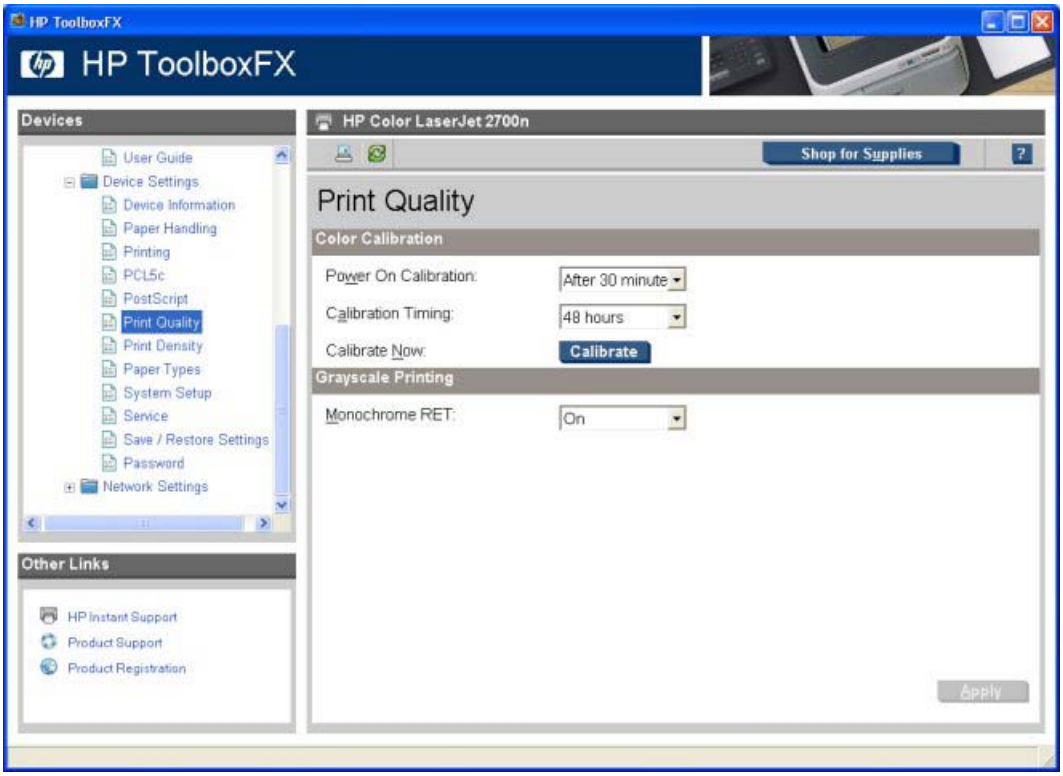


Figure 2-23 Print Quality screen

Print Density

Use the settings on the **Print Density** page to adjust the amount toner the HP Color LaserJet 2700 printer uses for images, pages, and documents.

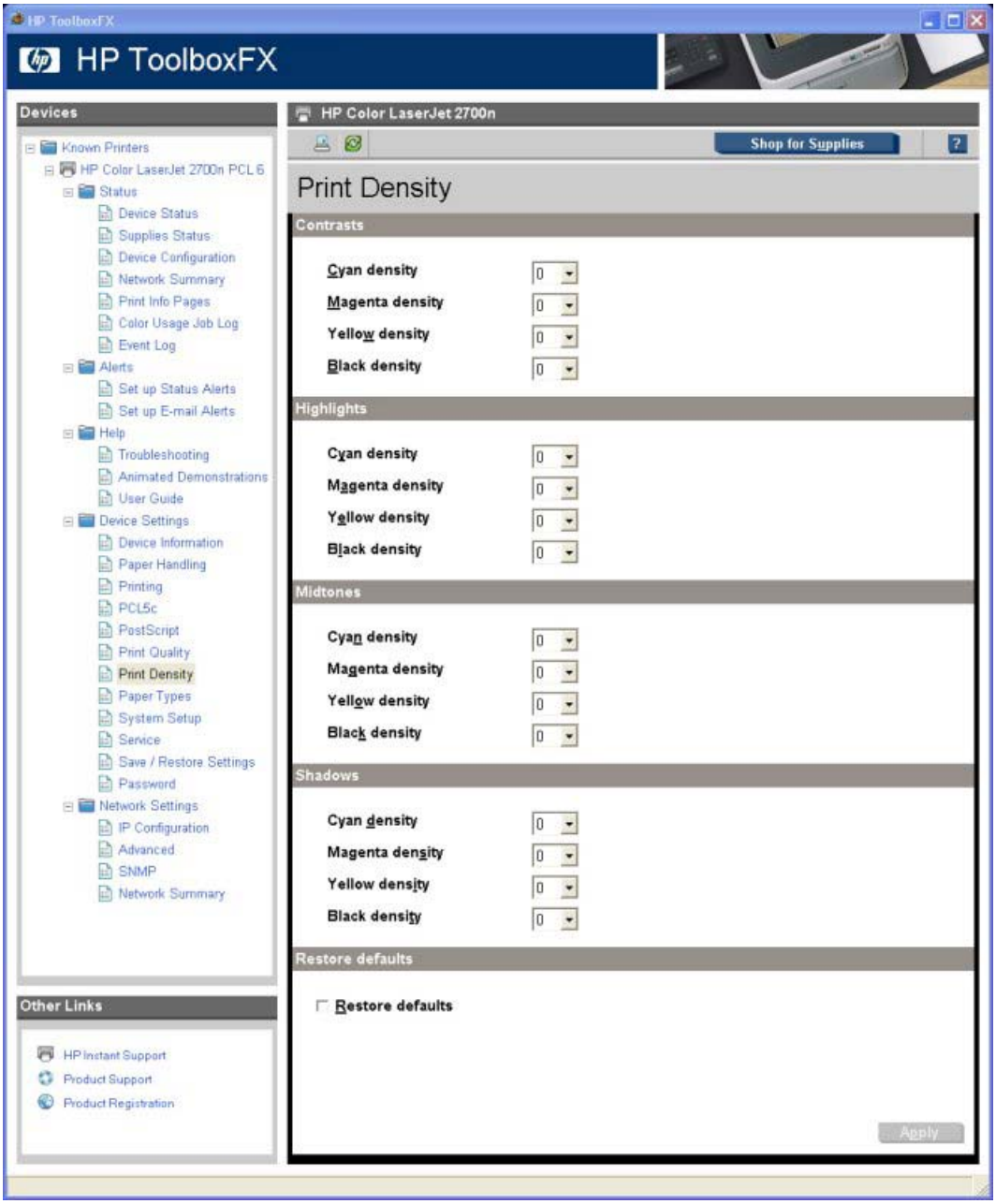


Figure 2-24 Print Density page

The **Print Density** page contains the following settings:

- **Contrasts.** Contrast is the density difference between light (highlight) and dark (shadow) colors. To increase the difference between light and dark colors (equivalent to a negative highlight adjustment and a positive shadow adjustment), use a positive contrast setting. To decrease the difference between light and dark colors (equivalent to a positive highlight adjustment and a negative shadow adjustment), use a negative contrast setting.
- **Highlights.** Highlight colors are colors near white. To make highlight colors darker, use a positive highlight setting. To make highlight colors lighter use a negative highlight setting. This adjustment does not affect midtone or shadow colors.

- **Midtones.** Midtone colors are about halfway between white and solid density. To make midtone colors darker, use a positive midtone setting, and to make midtone colors lighter use a negative highlight setting. This adjustment does not affect highlight or shadow colors.
- **Shadows.** Shadow colors are colors near solid density. To make shadow colors darker, use a positive shadow setting. To make shadow colors lighter use a negative shadow setting. This adjustment does not affect highlight or midtone colors.

Paper Types

Use the **Paper Types** screen to configure the standard print modes that correspond to the various paper types.

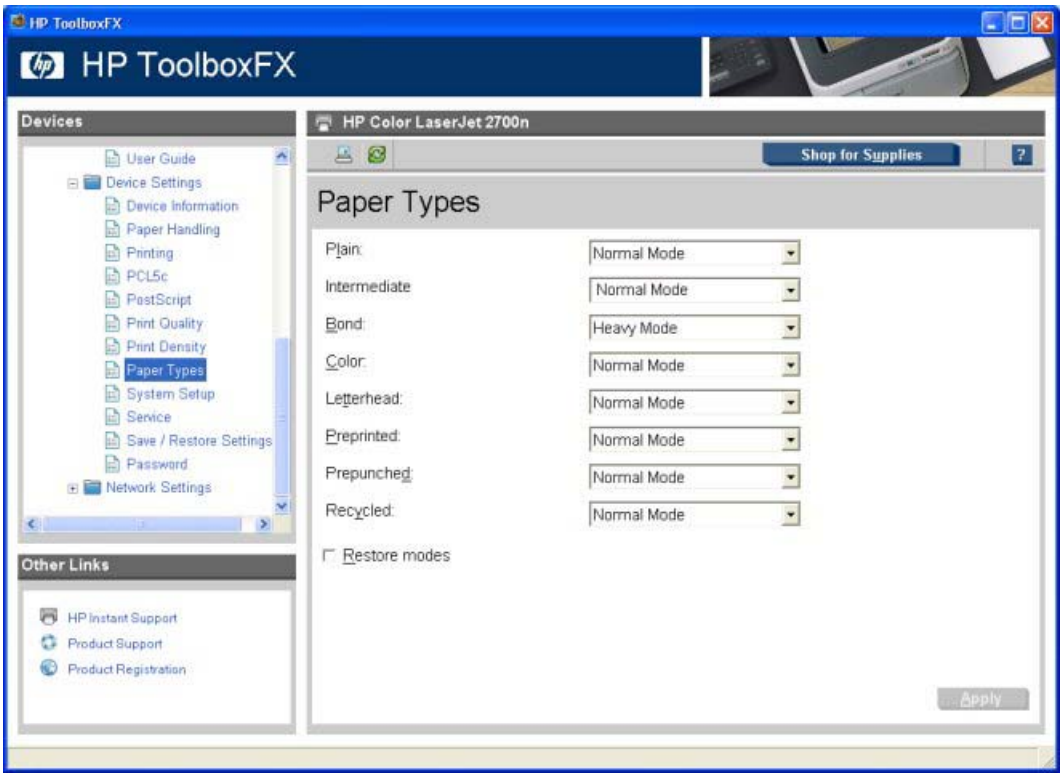


Figure 2-25 Paper Types screen

A print mode is a special setting that controls the print speed and the fuser temperature of the printer. The product speed and fuser temperature are adjusted to match the print mode selected, which can result in better print quality when printing on certain media types.

NOTE Not all of the paper types listed in the driver can be adjusted on the **Paper Types** screen.

The following table shows the paper types that the HP Color LaserJet 2700 printer supports and the default fuser mode for each type.

Table 2-2 Standard print modes

Standard print modes	Extended print modes	Color tables	Sensor correlation prefix	Default paper types
Normal Mode	None	Plain	PlainFull	Plain, Color, Preprinted,

Table 2-2 Standard print modes (continued)

Standard print modes	Extended print modes	Color tables	Sensor correlation prefix	Default paper types
				Prepunched, Recycled, Letterhead
Heavy Mode	None	Plain	PlainHalf	Heavy, Bond
Cardstock Mode	None	Plain	PlainHalf	Cardstock
Light Mode	None	Plain	PlainFull	Light
Light Glossy Mode	None	Glossy	Glossy	Glossy
Glossy Mode	None	Glossy	Glossy	Heavy Glossy
Heavy Glossy Mode	None	Glossy	Glossy	HP Premium Plus Photo
Tough Paper Mode	None	Glossy	Glossy	Tough Paper
Transparency Mode	None	OHT	Glossy	Transparency
Label Mode	None	Plain	PlainHalf	Labels

Extended Print Modes screen

The **Extended Print Modes** screen is available to control the extended print modes for the HP Color LaserJet 2700 printer. To gain access to this screen, Press Ctrl + Alt + Shift on the computer keyboard, and then click the printer name in the **Devices** pane of the HP ToolboxFX. The following screen appears:

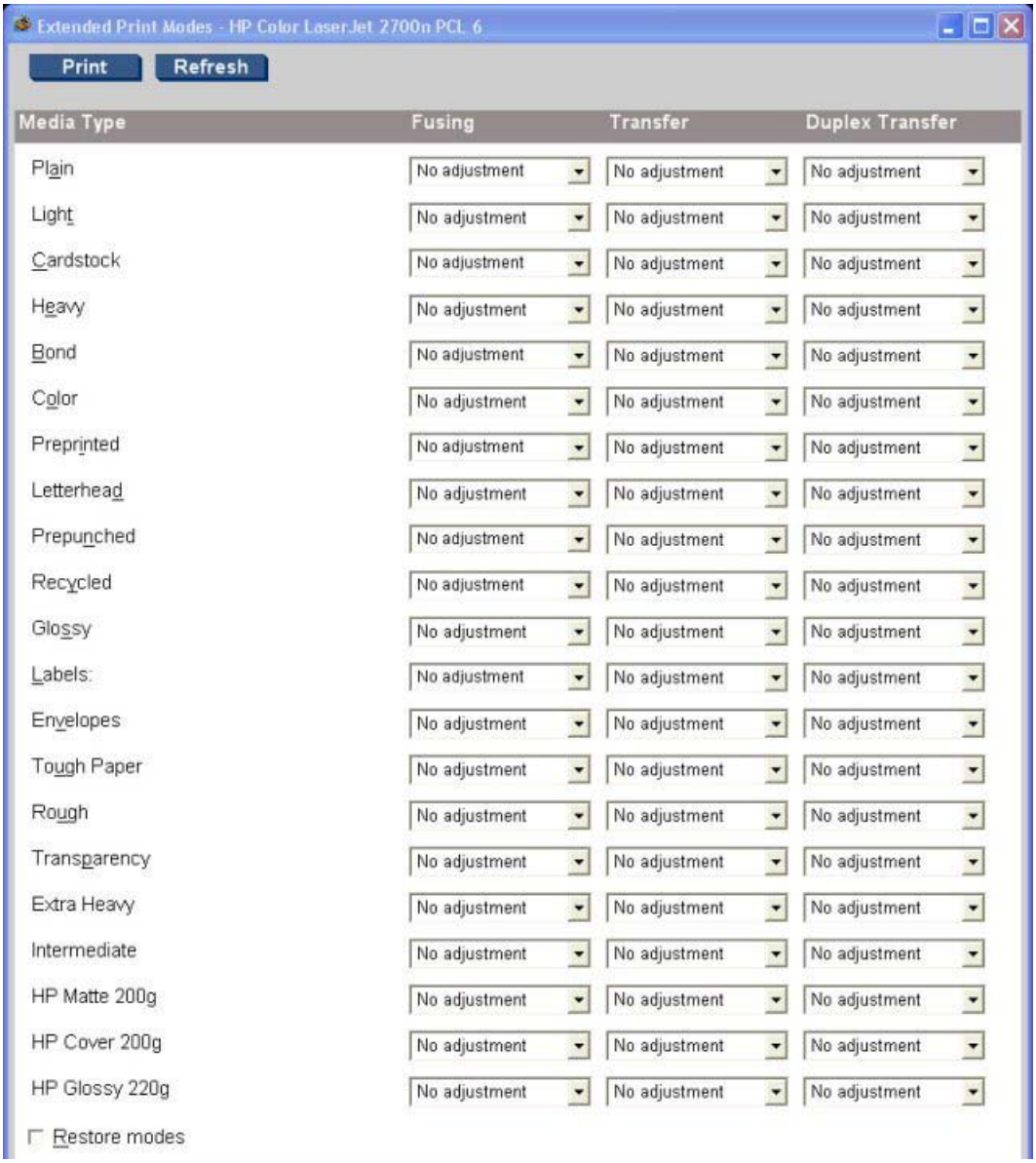


Figure 2-26 Extended Print Modes screen (1 of 2)

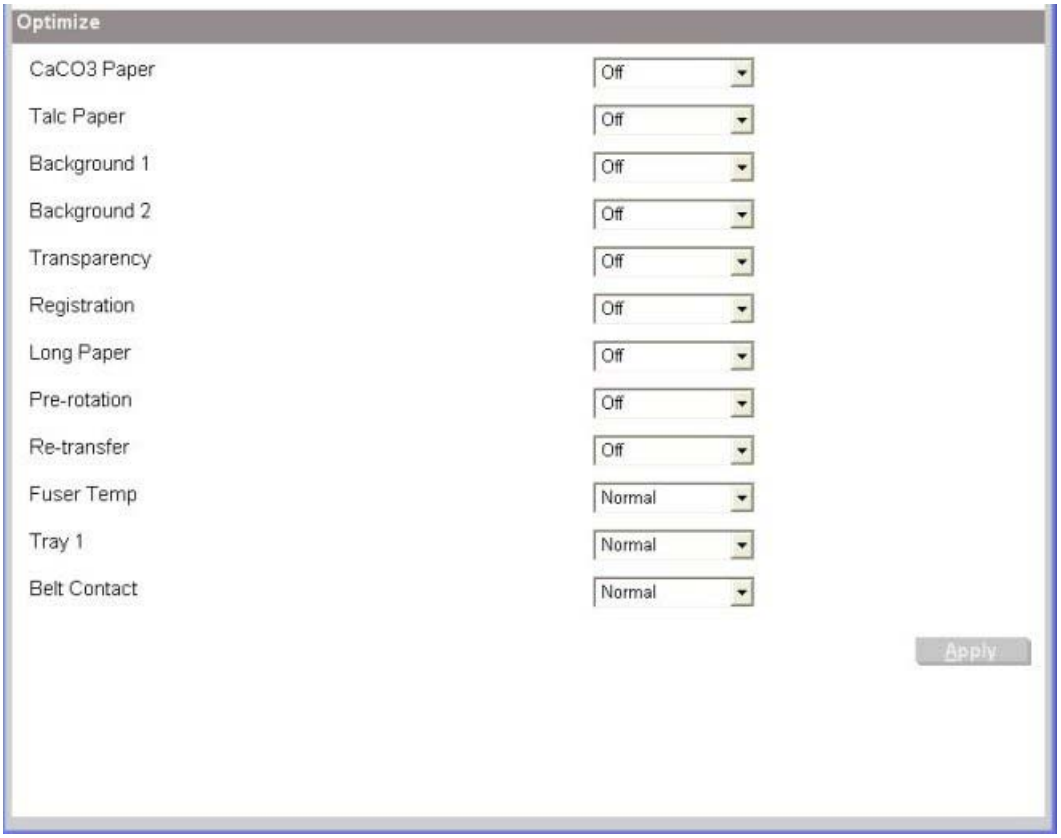


Figure 2-27 **Extended Print Modes** screen (2 of 2)

Check the **Restore modes** box and then click **Apply** to restore the print modes of the HP Color LaserJet 2700 printer to the original factory defaults.

NOTE Click **Apply** to make the changes take effect.

If you do not want to save changes made to the print mode settings, click **Refresh** rather than **Apply**.

The **Extended Print Modes** screen contains a **Media Types** section and an **Optimize** sections.

Media Types

The **Media Types** section of the **Print Modes** screen contains options to modify the engine print mode separately for each media type in the driver. Only one selection can be made for each control. The following controls are available:

- **Fusing**. The fuser temperature control in the engine is a complex algorithm that is based on the print mode and print- duty cycle. An “increase” or “decrease” in fuser temperature means that the fuser control algorithm increases or decreases the current temperature target by some amount, which depends on media type and other factors.

The following settings are available for the **Fuser** control:

- **Light Rough Paper**. This setting changes the optimum fusing temperature to 1/2 speed for light and rough paper (such as Neenah Bond 16 lb.) This setting can help prevent paper curl and poor fixing performance for these kinds of paper.
- **4mm Transparency**. This setting puts the engine in a lower temperature environment, which is appropriate when PQ defects are observed with 4mil OhT.
- **Less Fusing/More Fusing (- 1, +1)**. These settings allow the user to adjust the fuser temperature up or down one level. Use this setting to find the best balance for the print job when other adjustments are insufficient.

- **Transfer**. The transfer bias voltage control in the engine is a complex algorithm that is based on the print mode, toner cartridge, and humidity. An “increase” or “decrease” in transfer bias means that the transfer control algorithm increases or decreases the transfer bias by some amount, which depends on media type and other factors. The following settings are available for the **Transfer** control.

  The following settings are available for the **Transfer** control.

  - **Humid Transparency**. This setting is appropriate for printers that are in an environment with high humidity. It sets OhT as Print mode and also shows PQ failure.
  - **Humid Tough Paper**. This setting is appropriate for printers that are in an environment with high humidity. It sets Glossy Film as Print mode and it also shows PQ failure.
  - **High Resistivity**. This setting is appropriate for printers that are in an environment with low humidity. It shows PQ defects with high resistive paper.
  - **Less/More transfer (-1, +1)**. These settings provide one level of decreased transfer bias voltage and one level of increased transfer bias voltage if the other adjustments are insufficient. Try adjusting these settings to find the best balance for the print job. In extreme case (very dry or very wet), low transfer current defects and high transfer current defects can overlap; that is, a defect-free setting might be impossible. These adjustments can help find the best operating point.

- **Duplex Transfer**. Paper becomes much drier and develops a higher resistivity after it has printed on the first side and has passed through the fuser. The changes to the paper can result in transfer defects on the second side of the paper. To help prevent this situation, the printer engine uses different transfer bias settings for printing on the second side of the paper.

  The following settings are available for the **Duplex Transfer** control.

  - **Humid Tough Paper.** This setting is appropriate when the printer is in an environment with high humidity. It sets Glossy Film as Print mode and it also shows PQ failure.
  - **High Resistivity**. This setting is appropriate for printers that are in an environment with low humidity. It shows PQ defects with high resistive paper.
  - **Less/More transfer (-1, +1)** . These settings provide one level of decreased transfer bias voltage and one level of increased transfer bias voltage if the other adjustments are insufficient. Try adjusting these settings to find the best balance for the print job. In extreme case (very dry or very wet), low transfer current defects and high transfer current defects can overlap; that is, a defect-free setting might be impossible. These adjustments can help find the best operating point.

Optimize section

The **Optimize** settings are applied to all media printed depending on the engine's internal tables. The following controls are available:

- **CaC03 Paper**. Select this option when feeding the printer CaC03 paper.
- **Talc Paper**. Select this option when feeding the printer talc paper.
- **Background 1**. Select this option when background occurs all over the page.
- **Background 2**. Select this option when the background of the paper shows fine vertical streaks.
- **Transparency**. Select this option when OHT curl occurs.
- **Registration**. Select this option when color misregistration occurs.
- **Long Paper**. Select this option when curl develops on legal size paper .
- **Pre-rotation**. Select this option when horizontal streaks occur in the drum rotation cycle.
- **Re-transfer**. Select this option when retransfer occurs.
- **Fuser Temp**. Select this option when fuser hot offset occurs.
- **Tray 1 ETB with OPC-ETB same speed**. Select this option to start the ETB cleaning cycle at the end of each printing job. This setting puts the ETB rotating at a speed of 100% and the OPC rotating speed at 100%. This helps avoid the risk of cleaning blade failure that can occur when the ETB and OPC are set at different speeds. The time of ETB cleaning is T.B.D. sec longer, and extra T.B.D cycles or OPC rotation are required.
- **Belt Contact**. Select this option to help improve poor paper feed performance while printing in monochrome mode.

System Setup

Use the **System Setup** screen to change the system defaults for the HP Color LaserJet 2700 printer.

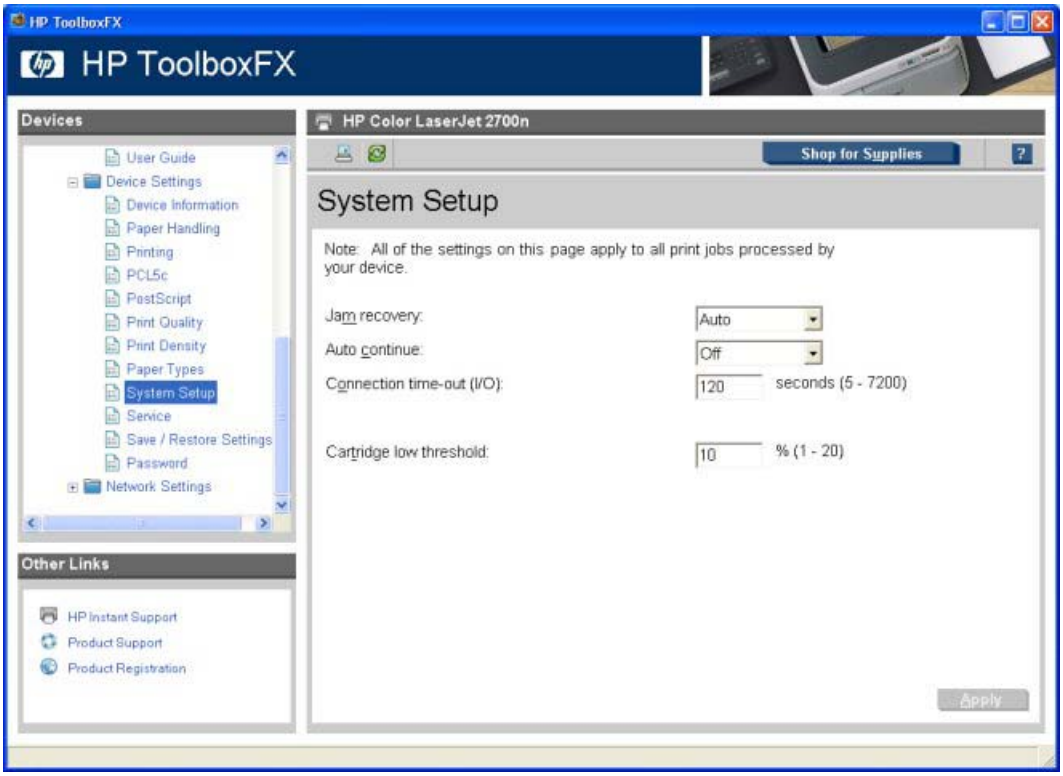


Figure 2-28 System Setup screen

The following **Jam recovery** settings are available:

- Auto (default)
- On
- Off

The following **Auto continue** settings are available:

- On
- Off (default)

Set the **Connection time-out (I/O)** setting to any value from 5 to 7200 seconds.

The following **Fast first page out** settings are available:

- On (default)
- Off

Set the **Cartridge low threshold** setting to any value from 1 to 20%. The **Cartridge low threshold** option sets the percentage threshold that triggers a toner low alert in the HP ToolboxFX.

NOTE Click **Apply** to make the changes take effect.

Service

Use the **Service** screen to start the cleaning mode procedure on the HP Color LaserJet 2700 printer.

Figure 2-29 Service screen

During the printing process, paper, toner, and dust particles accumulate inside the printer. Over time, this buildup can cause print-quality problems such as toner specks or smearing. Click **Start** to run the cleaning mode procedure on the HP Color LaserJet 2700 printer.

Save/Restore Settings

Use the **Save/Restore Settings** screen to save all of the device settings to a file on the computer. The settings that have been saved into the HP Color LaserJet 2700 printer can also be loaded from this screen.

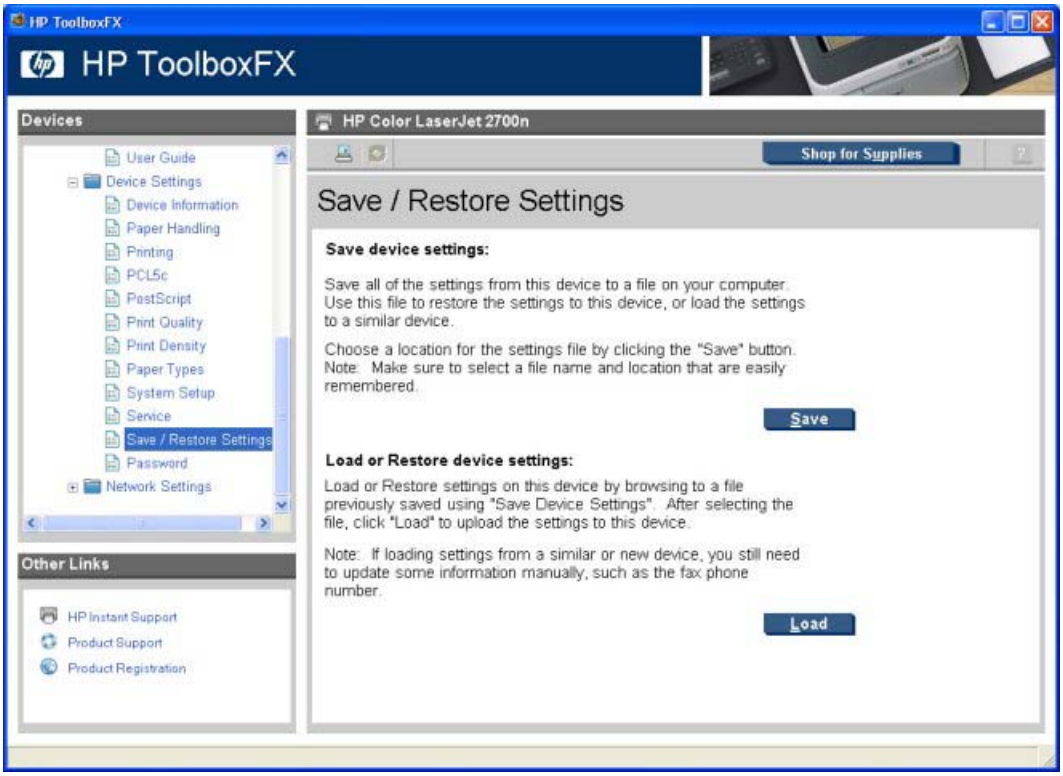


Figure 2-30 **Save / Restore Settings** screen

When you click **Save**, the **Save as** dialog box might be hidden. Look behind the browser window or on the taskbar.

Settings that were saved from a previous HP product cannot be restored. Only settings that were saved from an HP Color LaserJet 2700 printer can be restored.

NOTE The HP ToolboxFX will not function until settings have been fully loaded and the HP Color LaserJet 2700 control panel returns to the **Ready** state.

Password

Use the **Password** screen to set a password for the HP Color LaserJet 2700 printer.

Figure 2-31 **Password** screen

Network administrators can set user passwords to protect network settings. After a password is set, only users who know the password have access to certain pages within HP ToolboxFX. If a password has been set, users are prompted to type the password. If the typed-in password matches the password stored in the printer, users can navigate through the password protected screens and make changes to the settings.

If the password is lost or forgotten, the factory settings for the HP Color LaserJet 2700 must be restored and a new password assigned.

NOTE Click **Apply** to make the changes take effect.

The following HP ToolboxFX features become locked when a password is set:

- **Shop for Supplies** button
- **HP Instant Support** link
- **Systems Settings** pages
- **Print settings** pages
- **Network Settings** pages
- **Event Log** page

Network Settings folder

The **Network Settings** folder is only available with a network installation. This folder is not available when the printing-system software is installed through a USB connection.

The HP Color LaserJet 2700n model printers contain onboard networking support. This printer model does not require the use of an external Jetdirect box for network connectivity. Use **Network Settings** options to configure the network settings for the HP Color LaserJet 2700n model printer.

NOTE The HP Color LaserJet 2700 model printer does *not* contain onboard networking support for TCP/IP. It requires the use of an external Jetdirect box for network connectivity. The HP Color LaserJet 2700 model printer provides print-only support for the following external Jetdirect print servers:

- en3700
- ew2400
- 175x/310x

See the *HP Color LaserJet 2700 Advanced Network Reference Guide* for more information about the settings in the **Network Settings** folder.

For network installations, HP ToolboxFX communicates with the HP Color LaserJet 2700 printer by using the network settings that appear on the following **Network Settings** sub-folder screens:

- IP Configuration
- Advanced
- SNMP
- Network Summary

CAUTION Changing network settings can cause communication problems between HP ToolboxFX and the HP Color LaserJet 2700 printer.

IP Configuration

The **IP Configuration** screen shows the settings for basic TCP/IP network configuration. After changing these settings, click **Apply** to make the changes take effect. The printer restarts after changing these settings.

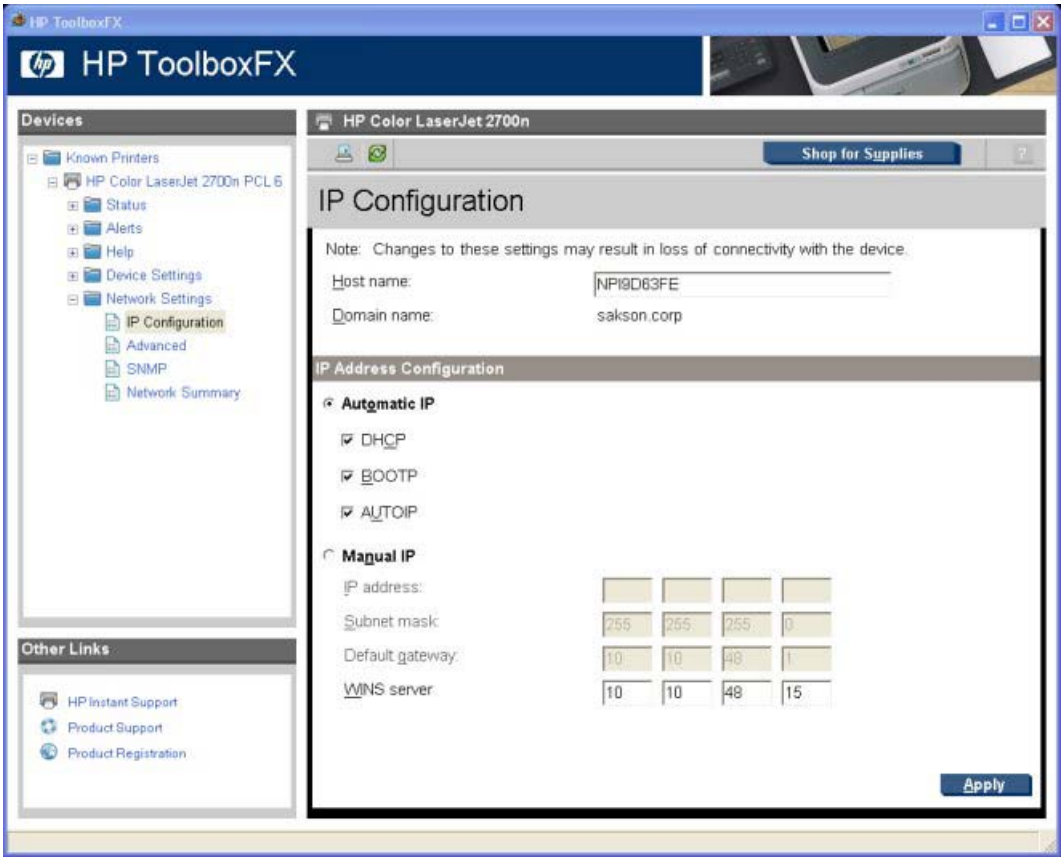


Figure 2-32 **IP Configuration** screen

When the HP Color LaserJet 2700 printer is installed through the network, the **IP Configuration** screen shows the printer host name and domain.

By default, the HP Color LaserJet 2700 printer uses automatic IP configuration and DNS Server. Use this screen to configure the TCP/IP address and DNS server manually.

The following **IP Address Configuration** options are available:

- **Automatic IP**. This option is selected by default. It causes the printer to obtain a TCP/IP address from a Dynamic Host Configuration Protocol (DHCP) server, BOOTP server, or AUTOIP.
- **Manual IP**. Select Manual IP to manually specify an Internet Protocol (IP) address (also known as a static IP address). If this option is selected, type in the computer's IP address in the **IP address**, **Subnet mask**, and **Default gateway** fields.

The following **DNS Address Configuration** options are available:

- **Automatic DNS Server**. This option is selected by default. It causes the printer to automatically obtain network addresses for DNS servers from the network. If this option is selected, a DHCP server will provide this information.
- **Manual DNS Server**. Select this option to manually specify network addresses for DNS servers used by the computer. If this option is selected, type in the IP address for the DNS server in the **Preferred DNS server** field. Contact the network administrator if the IP address is not known.
- **Alternate DNS server**. Use this server if the DNS server specified in **Preferred DNS server** is unavailable. Type in the computer's IP address for the alternate or secondary DNS server.

NOTE Click **Apply** to make the changes take effect.

Advanced

Use the **Advanced** screen to set advanced networking features for the HP Color LaserJet 2700 printer.

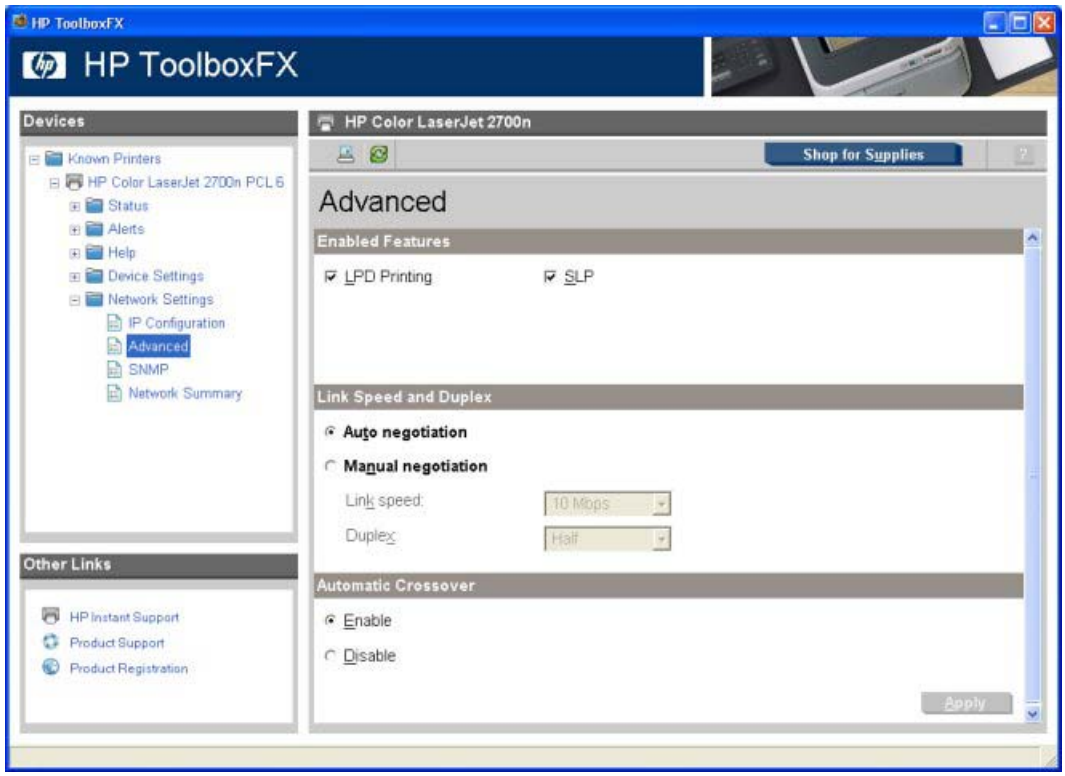


Figure 2-33 Advanced Network Settings screen

The following table shows the options and settings that are available for the **Advanced** screen.

Table 2-3 Advanced Network Settings options and settings

Option	Settings
Enabled Features	• LPD Printing (enabled by default) • HP SLP Discovery (enabled by default)

Link Speed and Duplex	• Auto negotiation (default setting)
	• Manual negotiation
	  • Link speed: 10 megabits per second (Mbps) or 100 Mbps
	  • Duplex: Full or Half

Automatic Crossover	• Enable (default) • Disable

NOTE Click **Apply** to make the changes take effect.

SNMP

Use the **SNMP** screen to set SNMP networking features for the HP Color LaserJet 2700 printer.

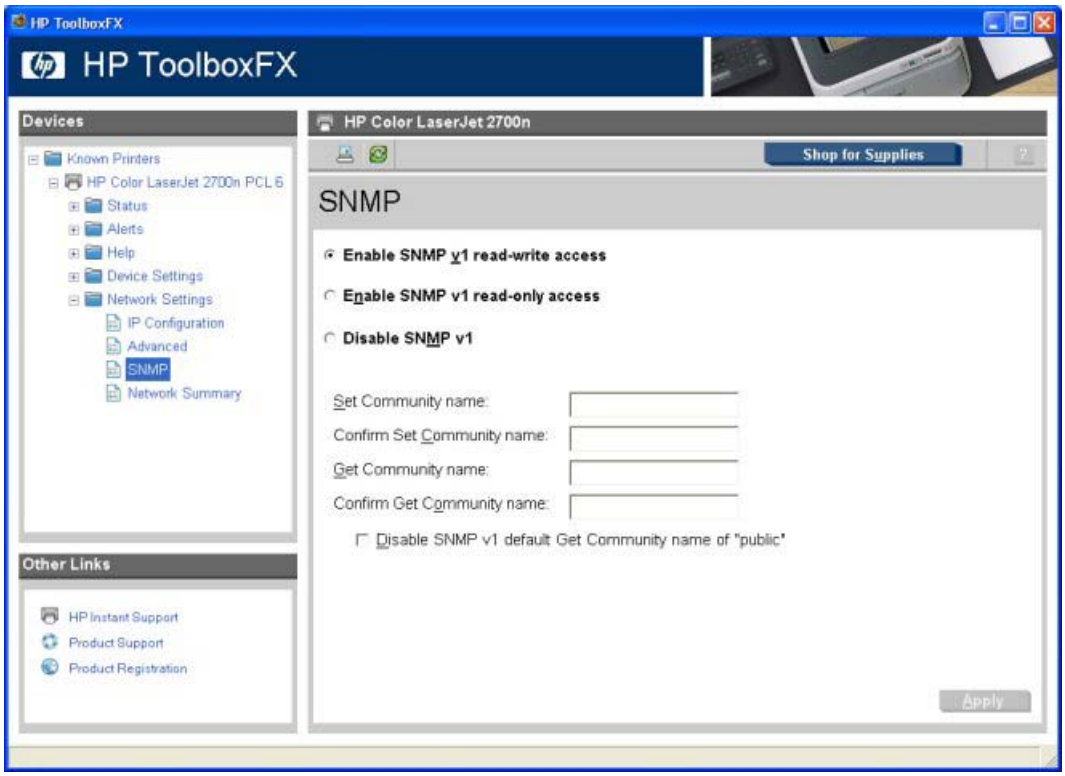


Figure 2-34 SNMP screen

The following options are available on the **SNMP** screen:

- **Enable SNMP v1 read-write access**. Select this option to enable SNMP v1 agents on the printer. Custom community names can be configured to control management access to the HP Color LaserJet 2700 printer. These community name settings appear on the lower half of the screen.
  - **Set Community name:** Type the SNMP Set Community Name (password) to allow SNMP information to be configured (or written) on the printer.
  - **Confirm Set Community name:** Retype the SNMP Set Community Name (password) to allow SNMP information to be configured (or written) on the printer.
  - **Get Community name:** Type the SNMP Get Community Name (password) to allow SNMP information to be read from the printer.

- **Confirm Get Community name:** Retype the SNMP Get Community Name (password) to allow SNMP information to be read from the printer.
- **Disable SNMP v1 default Get Community name of “public”**. Select this option to disable the default Get community name "public". After selecting this option, type the values in the **Get Community name** and **Confirm Get Community name** fields.

- **Enable SNMP v1 read-only access (uses “public” for the Get Community value)**. Select this option to enable the SNMP v1 agents on the HP Color LaserJet 2700 printer, but limit access to read-only. Write-access is disabled. The default **Get Community name** "public" is automatically enabled.
- **Disable SNMP v1**. Select this option to disable the SNMP v1 agents on the HP Color LaserJet 2700 printer, which is recommended for secure environments. If SNMP v1 is disabled, some port monitors or discovery utilities might not operate properly.

NOTE Click **Apply** to make the changes take effect.

Network Summary

The **Network Summary** screen provides an overview of the network settings that are enabled for the HP Color LaserJet 2700 printer.

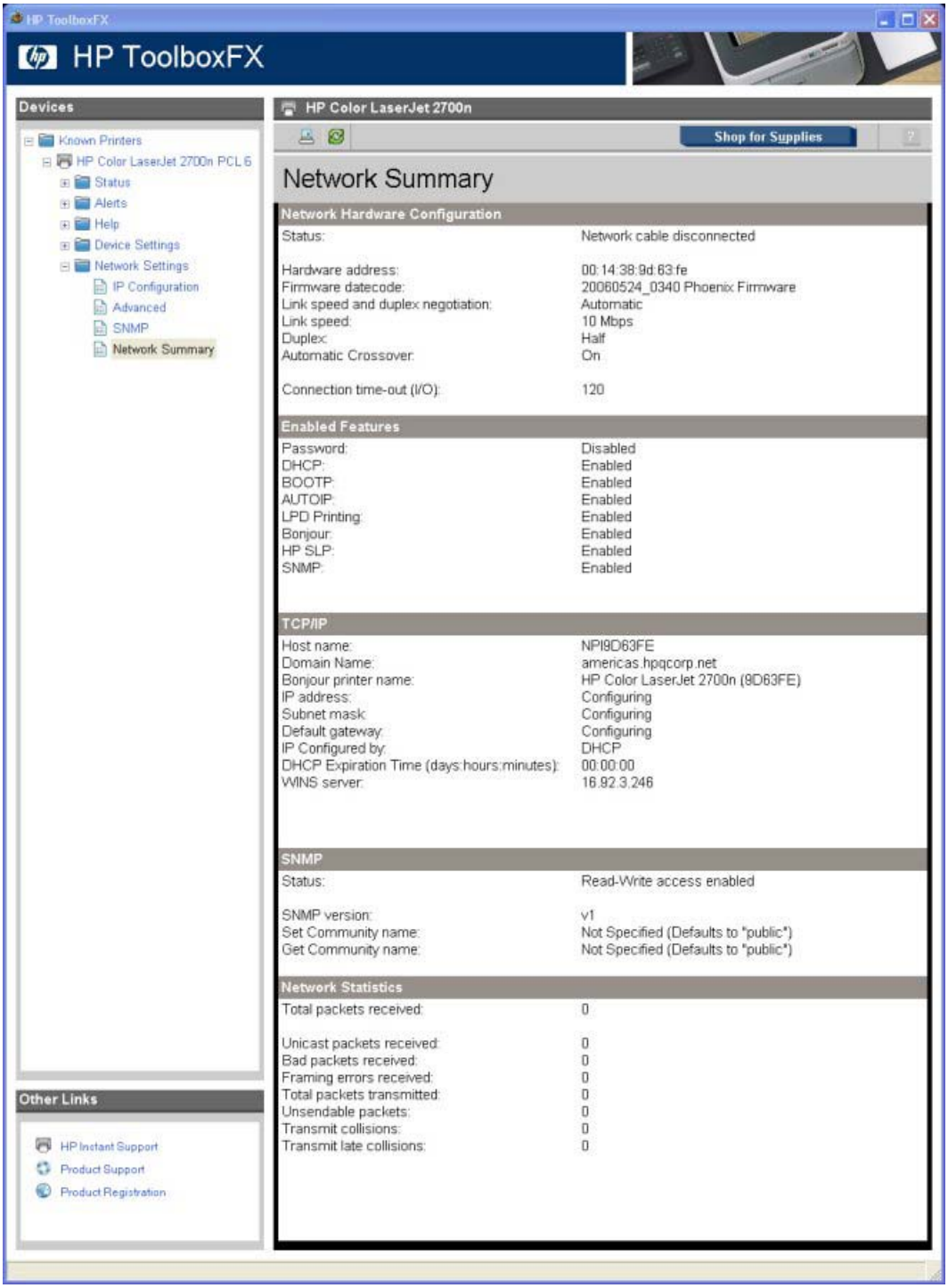


Figure 2-35 Network Summary screen

The settings appear under the following headings:

- Network Hardware Configuration
- Enabled Features
- TCP/IP

- SNMP
- Network Statistics

Other screens

The following table lists screens that are also available through the HP ToolboxFX.

Screen	Access
About HP ToolboxFX screen	Click the **HP** logo that appears in the upper-left corner of the HP ToolboxFX screens.
HP Instant Support	Click the **HP Instant Support** link in the **Other Links** box that appears on all HP ToolboxFX and HP EWS screens.
Product Support screen	Click the **Product Support** link in the **Other Links** box that appears on all HP ToolboxFX and HP EWS screens.
Product Registration screen	Click the **Product Registration** link in the **Other Links** box that appears on all HP ToolboxFX and HP EWS screens.
Supplies Ordering screen	Click the **Supplies Ordering** link in upper-right corner of the HP ToolboxFX screens.

About HP ToolboxFX dialog box

Click the HP logo in the HP ToolboxFX heading banner on any HP ToolboxFX screen to gain access to the **About HP ToolboxFX** dialog box. This dialog box shows the software version number and a copyright notice. This dialog box also shows the version number for each HP ToolboxFX product that is installed.

Figure 2-36 HP ToolboxFX dialog box

HP Instant Support

Click **HP Instant Support** to access self-help based on information sent from the product to the HP Web site. The help includes recommendations for troubleshooting, firmware upgrades, and reference documentation that is customized to respond to the most recent events that have occurred on the HP Color LaserJet 2700 printer.

Product Support

Select **Product Support** to get to a Web page with links to online support for the HP Color LaserJet 2700 printer.

Product Registration

The **Product Registration** link connects to a Web page to register the HP Color LaserJet 2700 printer.

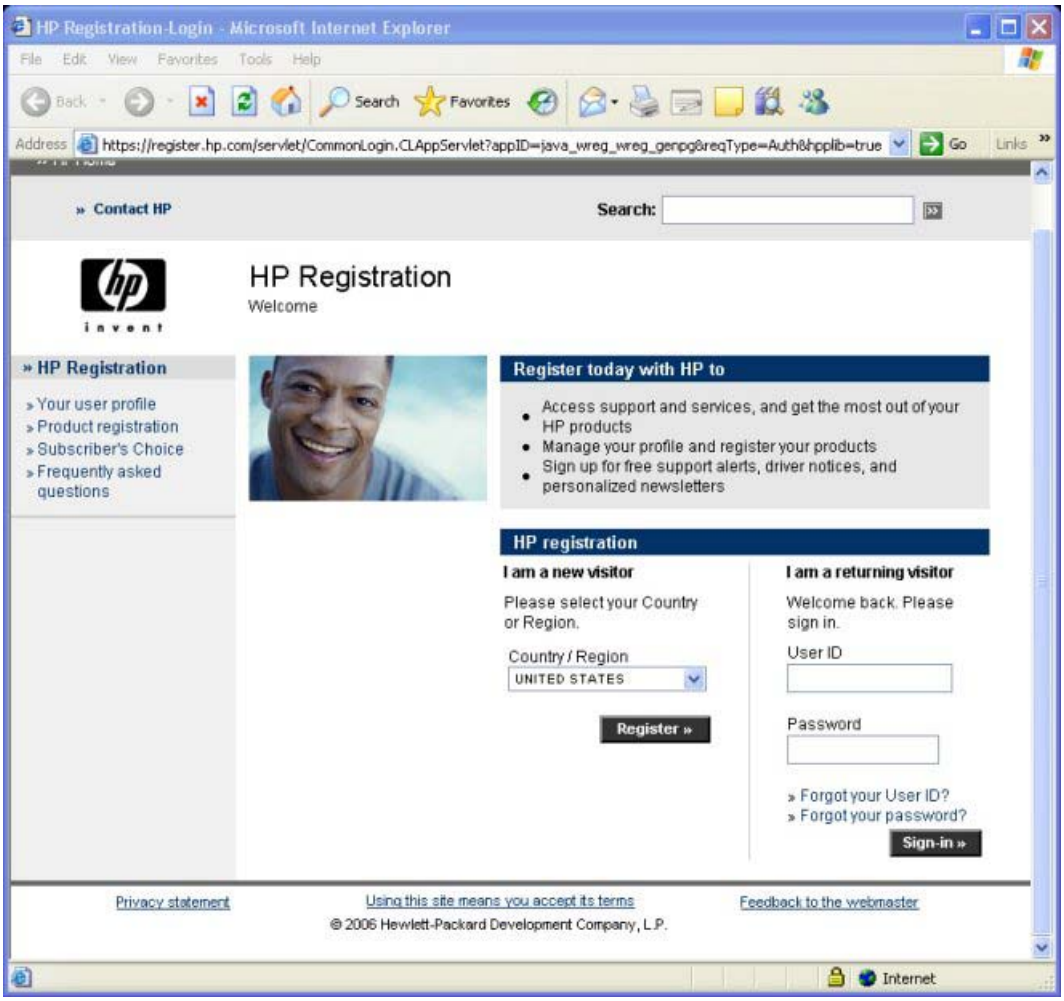


Figure 2-37 **Product Registration** screen

Supplies Ordering

The **Supplies Ordering** link connects to a Web page that can be used to order supplies online. The supplies do not come from HP, but from a choice of resellers. The HP Color LaserJet 2700 printer supplies are pre-selected. Use the options on this screen to change quantities or order additional items. The selected items are dropped into the shopping cart, ready for checkout. This process ensures that the correct supplies are ordered through the selected reseller.

HP Embedded Web Server

The HP Embedded Web Server (HP EWS) is a Web-based program that allows users to control settings on the HP Color LaserJet 2700n model printer through the Web browser. The HP EWS can only be accessed if the HP Color LaserJet 2700n printer is installed through a network rather than a USB connection.

To access the HP EWS, open a Web browser and type the printer IP address in the address bar.

The printer IP address is documented on a configuration page. Print a configuration page by following these steps on the printer control panel.

1. Make sure the control panel heading reads **Ready**. (If the printer control panels does *not* read **Ready**, press the square orange **X** button on the right of the printer control panel window.)
2. Use the arrow key to scroll to **Main menu/Reports**.
3. Press **OK**.
4. Use the arrow key to scroll to **Reports/Config report**.
5. Press **OK**. The configuration page will print.
6. Find the IP address on the printed sheet beneath the **Product Settings** heading.

The following tabs are available in the HP EWS:

- Status tab
- Settings tab
- Password page
- Networking tab

NOTE The **Networking** tab appears only for the HP Color LaserJet 2700n, which comes standard with onboard networking capabilities.

Status tab

Use the **Status** tab to access and print detailed information regarding device and supply status, device configuration, network configuration, and usage.

The **Status** tab contains the following pages:

- Device Status
- Supplies Status page
- Device Configuration page
- Network Summary page
- Print Info Pages
- Color Usage Job Log
- Event Log page

Device Status

The **Device Status** page shows device status messages from the device. The **Device Status** page also contains some pertinent printer information and device settings.

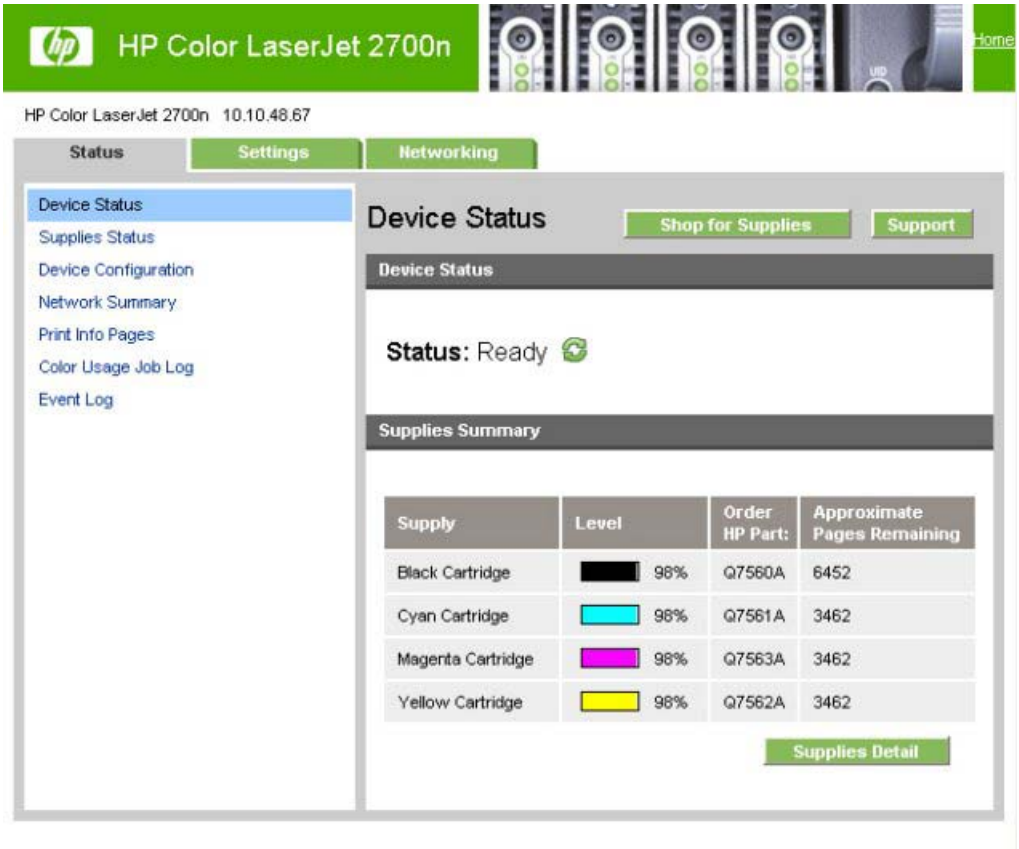


Figure 2-38 HP EWS – **Device Status** page

Supplies Status page

The **Supplies Status** page shows the status of all of the printer supplies, including the black, cyan, magenta, and yellow print cartridges.

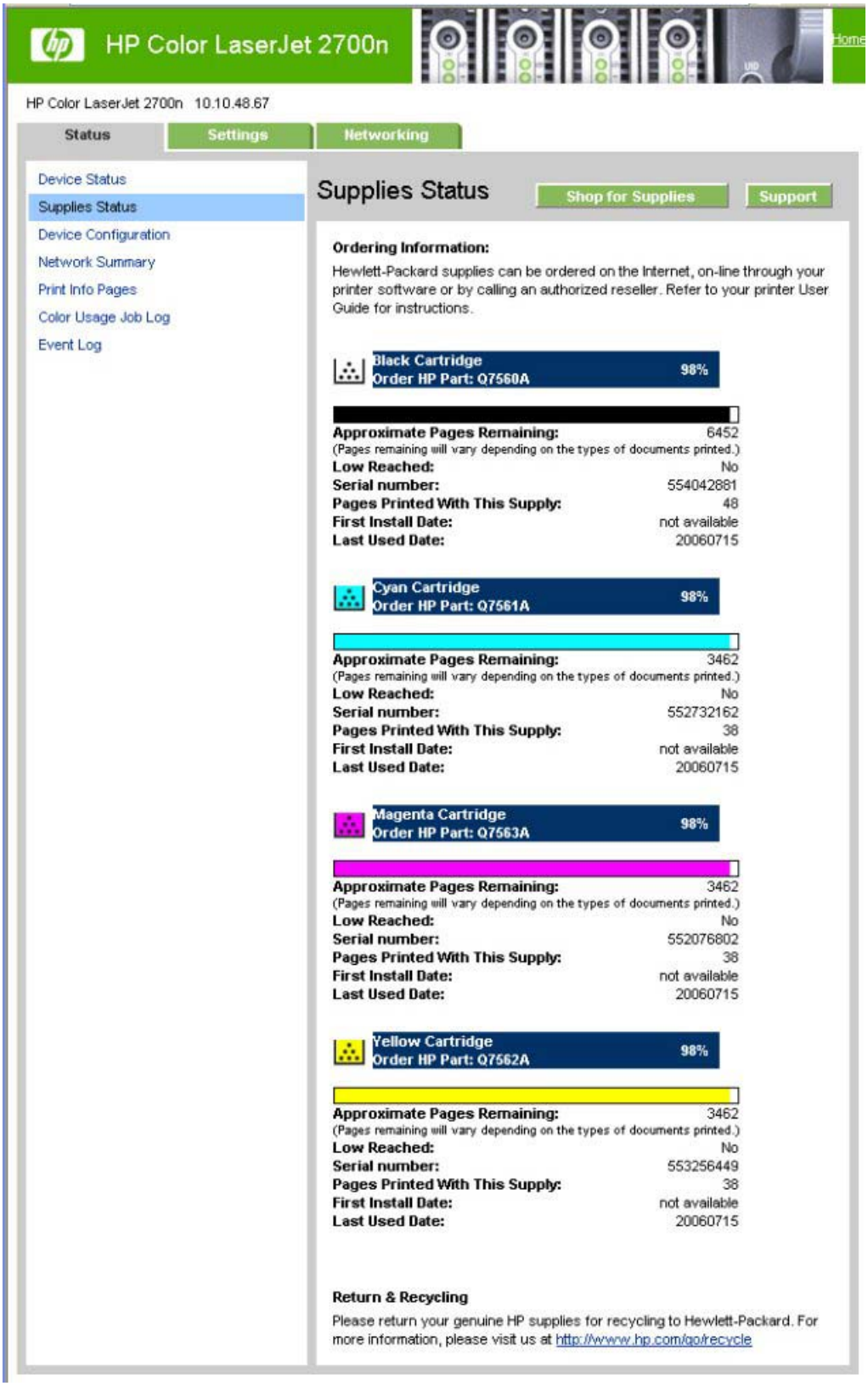


Figure 2-39 HP EWS – **Supplies Status** page

Device Configuration page

The **Device Configuration** page shows the values of all of the settings that are available in the printer. The contents of this page are consistent with the configuration page that the firmware generates.

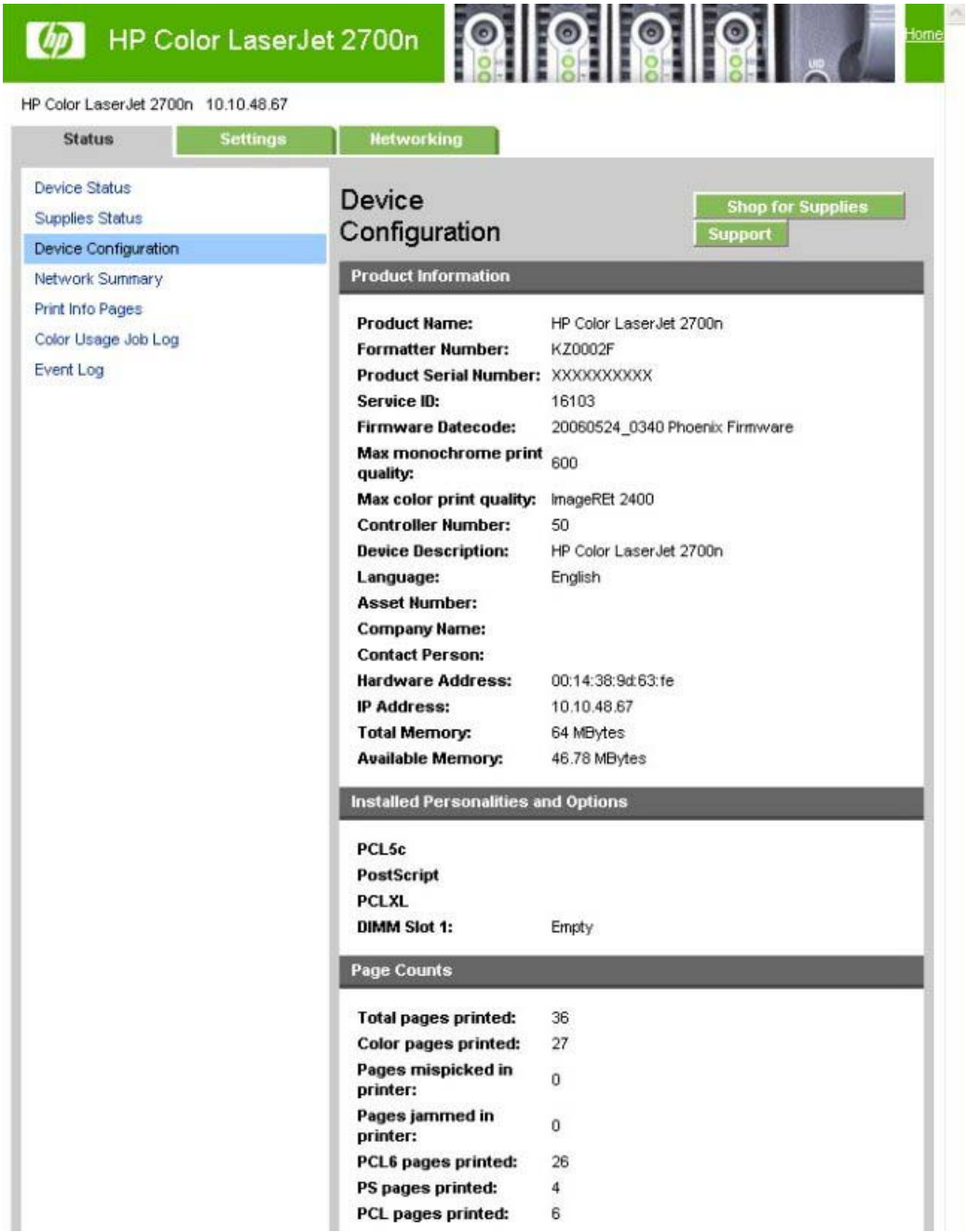


Figure 2-40 HP EWS – **Device Configuration** page (1 of 2)

Paper Settings

Paper size:	Letter
Paper type:	Plain
Tray 1 size:	Any size
Tray 1 type:	Any type
Tray 2 size:	Any size
Tray 2 type:	Any type
Paper out action:	Wait forever
Manual Feed:	Off
Plain:	Normal
HP Cover 200g:	Card stock
HP Matte 200g:	Card stock
HP Glossy 220g:	Glossy
Light:	Light
Intermediate:	Normal
Heavy:	Heavy
Card stock:	Card stock
Glossy:	Glossy
Extra heavy:	Card stock
Transparency:	Transparency
Labels:	Label
Letterhead:	Normal
Preprinted:	Normal
Prepunched:	Normal
Color:	Normal
Rough:	Rough
Bond:	Heavy
Recycled:	Normal
Envelope:	Envelope
Tough paper:	Tough paper

Print Settings

Auto Continue:	Off
Copies:	1
Courier font:	Regular
Orientation:	P (Portrait)
Wide A4:	No
Connection Timeout (I/O):	120 seconds
Jam recovery:	Auto
Font source:	I (Internal)
Font number:	23
Pitch:	10.00
Point size:	12.00
Symbol set:	PC-8
Form:	60 Lines
Append CR to LF:	No
Print PS Errors:	Off
Print to fade (Override):	No
Mono print (color out):	No
Restrict color:	Color enabled

Print Density

	C	M	Y	K
Contrasts:	0	0	0	0
Highlights:	0	0	0	0
Midtones:	0	0	0	0
Shadows:	0	0	0	0

Figure 2-41 Device Configuration page (2 of 2)

Network Summary page

The **Network Summary** page contains information about the network and its enabled features.

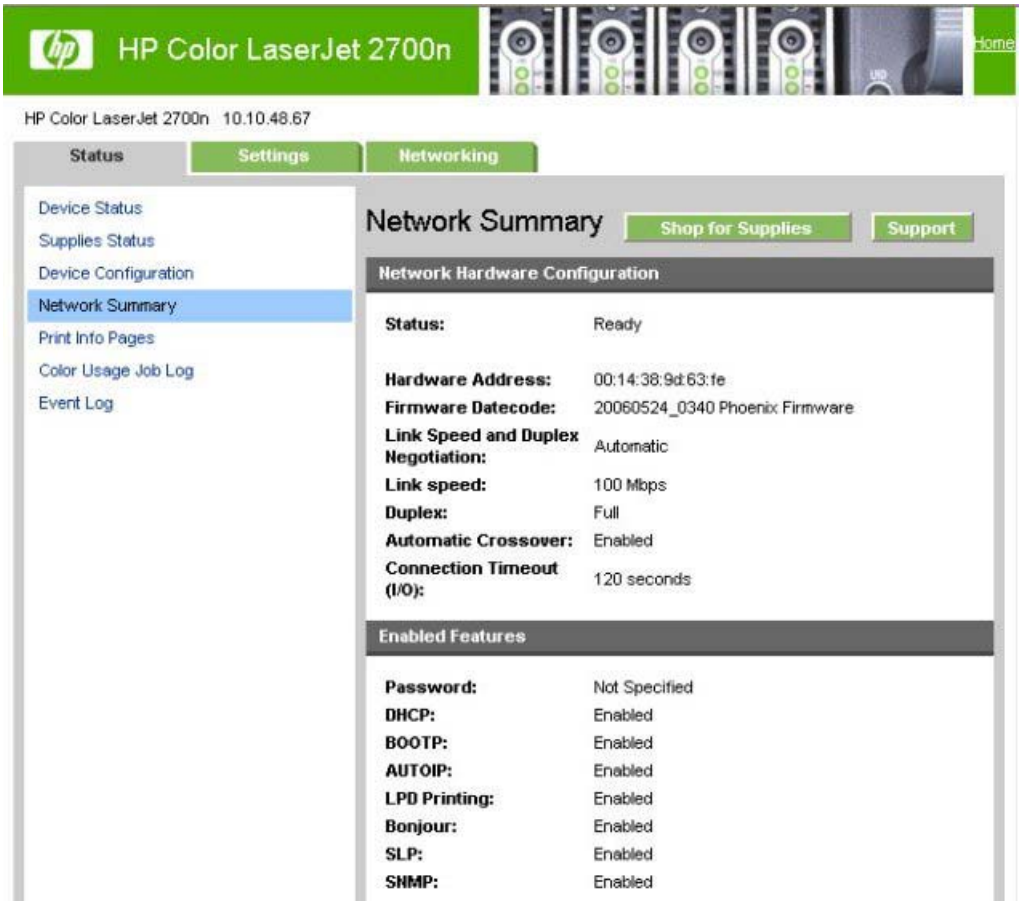


Figure 2-42 HP EWS – **Network Summary** page (1 of 2)

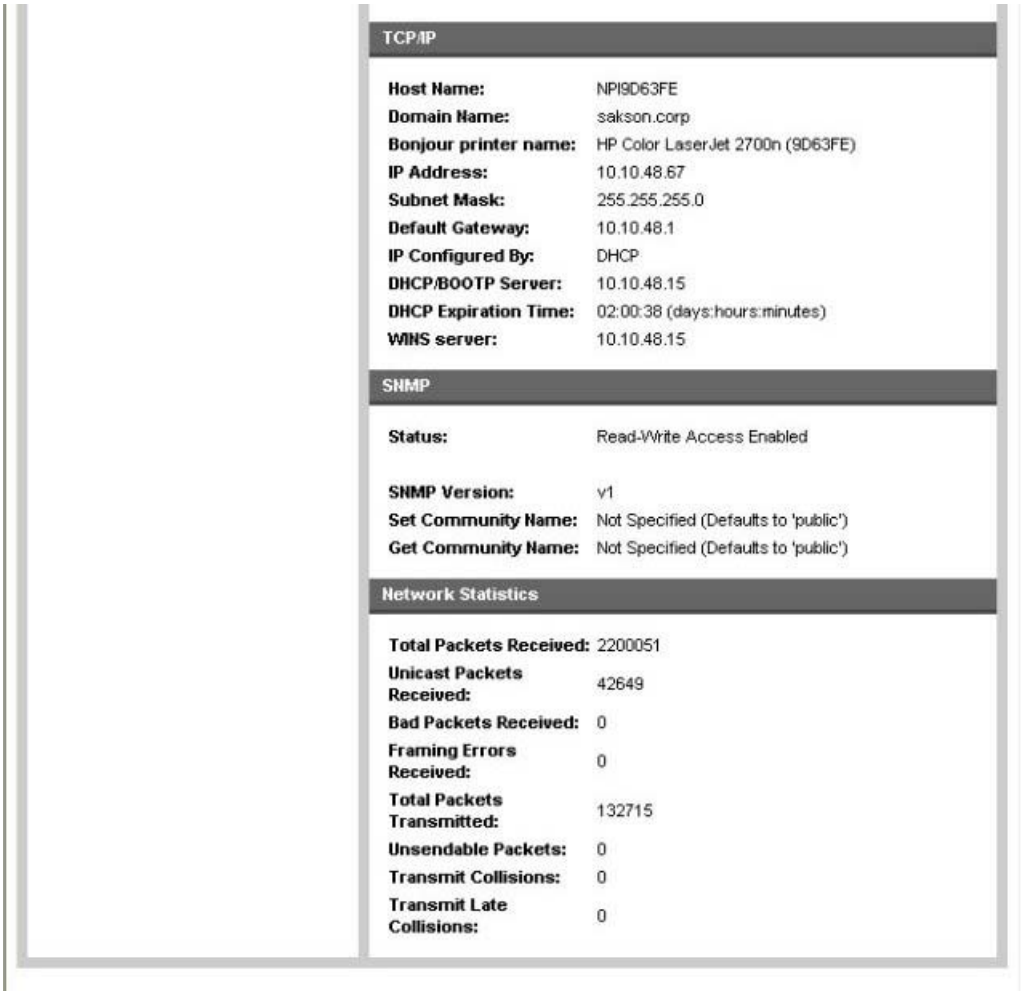


Figure 2-43 HP EWS **Network Summary** page (2 of 2)

Print Info Pages

Use the **Print Info Pages** page to print the internal special pages the device generates. The following information pages are available:

- PCL Font List
- PCL6 Font List
- PS Font List
- Supplies Page

Figure 2-44 HP EWS – **Print Info Pages** page

Color Usage Job Log

Click the **Color Usage Job Log** tab to:

- Find the printer's serial number, which is listed under the **Product Information** subheading.
- Check the number of print jobs stored, which is listed under the **Usage Totals** subheading. The log also includes information about how much color the printer has used.
- Delete the currently stored Color Usage Job Log information by selecting the **Clear Job Log** option.

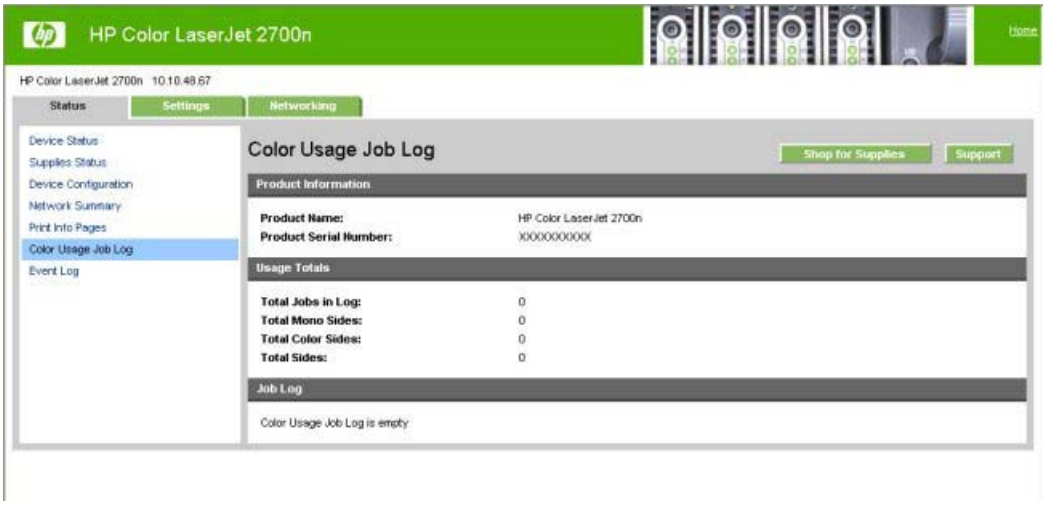


Figure 2-45 **Color Usage Job Log** page

Event Log page

Use the **Event Log** page to track the events that occur on the printer.

Figure 2-46 HP EWS – **Event Log** page

Settings tab

Use the **Settings** tab to view and change settings for the following features:

- Device Information page
- Paper Handling page
- Printing page
- PCL5c page
- PostScript page
- Print Quality page
- Print Density page
- Paper Types page
- System Setup page
- Service page

Device Information page

The **Device Information** page contains identifying information about the printer:

- **Device Description**. This field shows the version of the HP Color LaserJet 2700 printer that is installed (that is, whether it is the HP Color LaserJet 2700 or the HP Color LaserJet 2700n).
- **Asset Number**. Use this field to assign an identifying asset control number to the printer.
- **Company Name**.
- **Contact Person**.

Figure 2-47 HP EWS – **Device Information** page

Paper Handling page

Use this page to configure the paper-handling settings for the printer. Change the default settings by clicking the blue arrow next to each option and highlighting the selection.

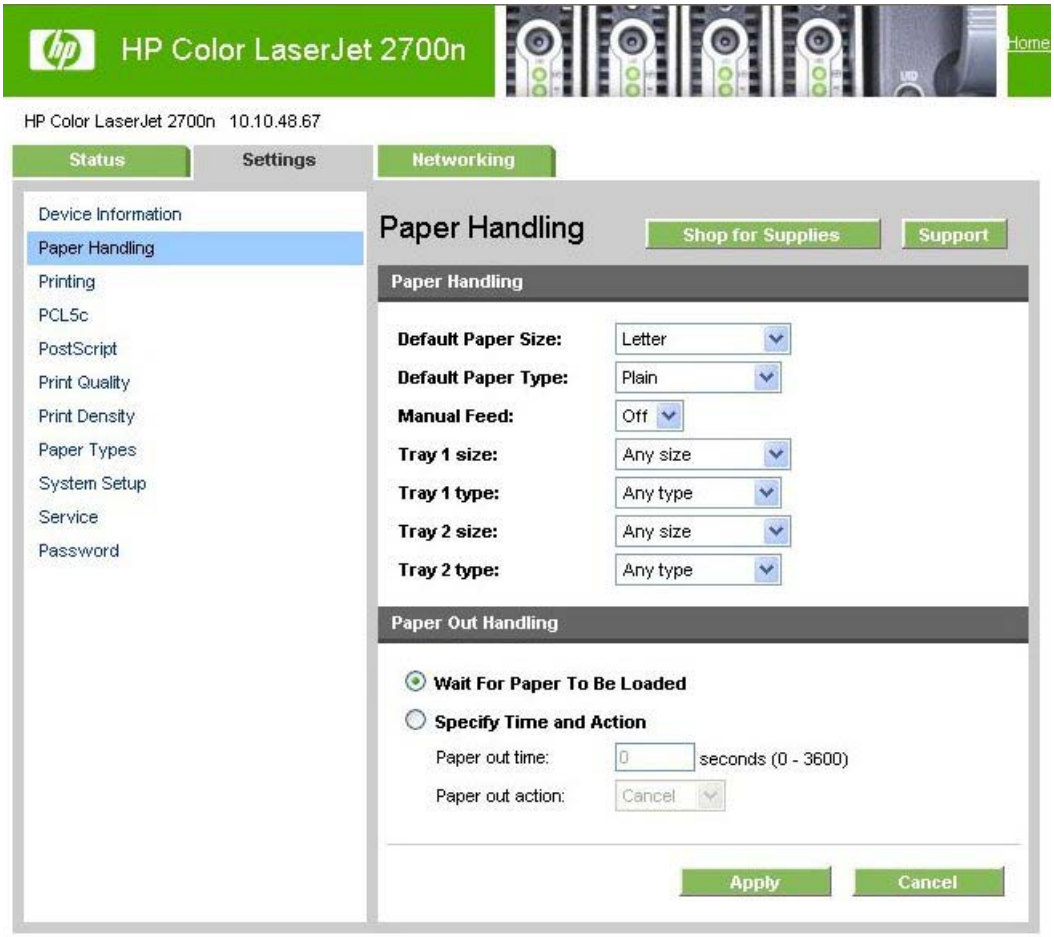


Figure 2-48 HP EWS – **Paper Handling** page

Printing page

Use this page to change the printing defaults for the printer.

Figure 2-49 HP EWS – **Printing** page

PCL5c page

Use the **PCL5c** page to change font information and form length.

Figure 2-50 HP EWS – **PCL5c** page

PostScript page

Use the **PostScript** page to change the **Print PS Errors** option.

Figure 2-51 HP EWS – **PostScript** page

Print Quality page

Use the **Print Quality** page to change the print quality defaults for the printer.

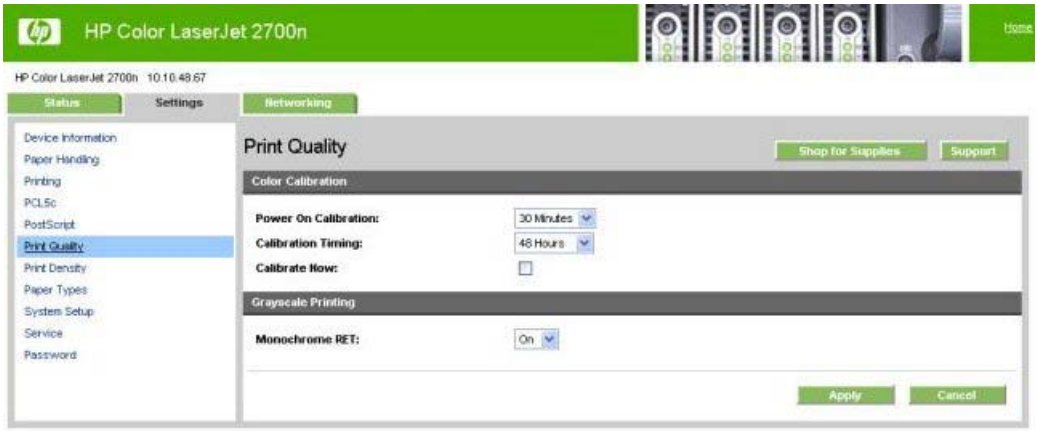


Figure 2-52 HP EWS – **Print Quality** page

Print Density page

Use the **Print Density** page to control the print density of each print cartridge on the printer.

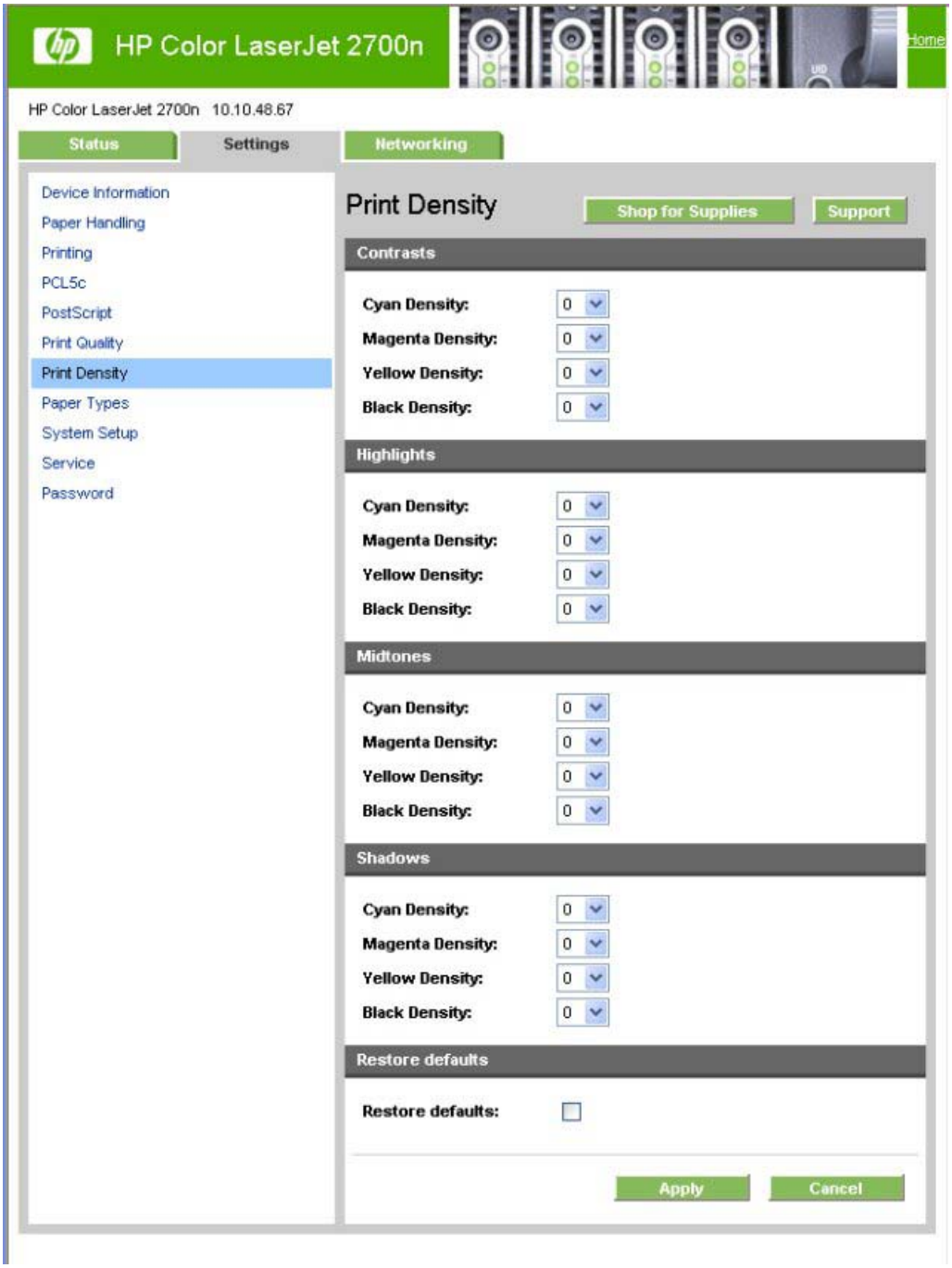


Figure 2-53 HP EWS – **Print Density** page

Paper Types page

Use the **Paper Types** page to set the default paper type settings for the printer.

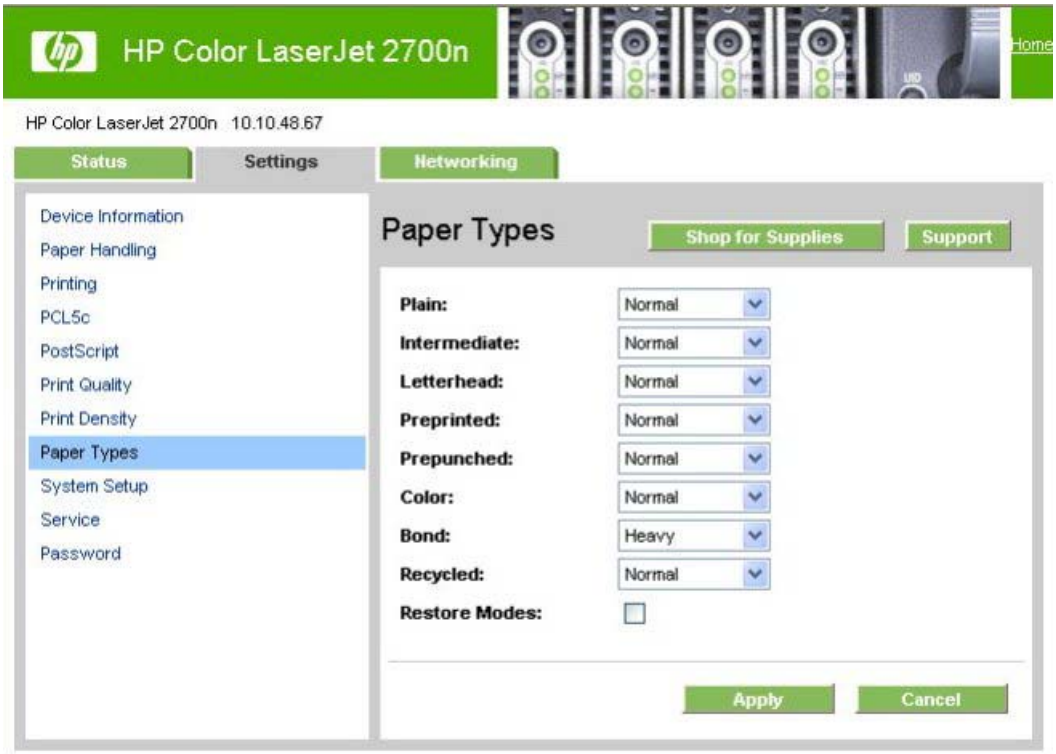


Figure 2-54 HP EWS – **Paper Types** page

System Setup page

Use the **System Setup** page to change settings on the printer such as Jam Recovery and Auto Continue.

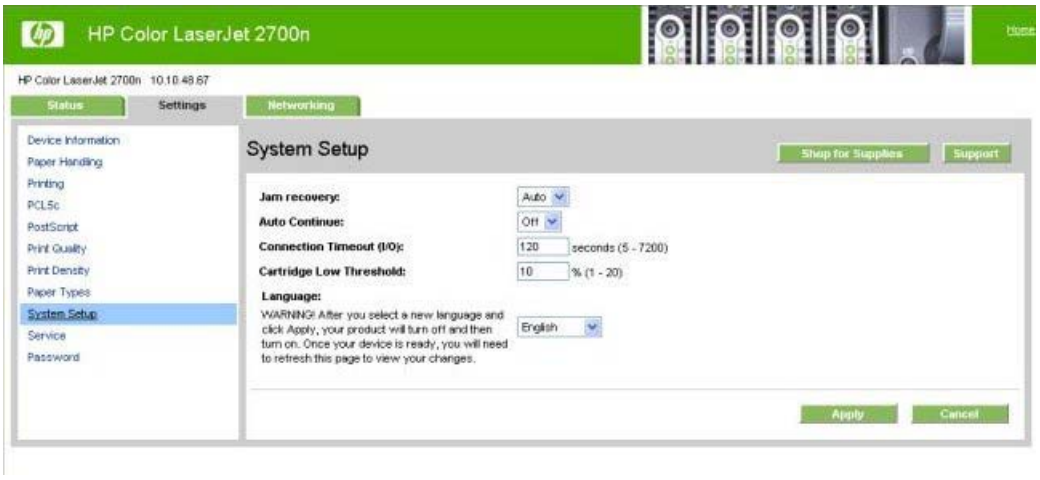


Figure 2-55 HP EWS – **System Setup** page

Service page

Use the **Service** page to start the cleaning mode procedure on the printer.

Figure 2-56 HP EWS — **Service** page

Password page

Use this page to set or change the Administrator password.

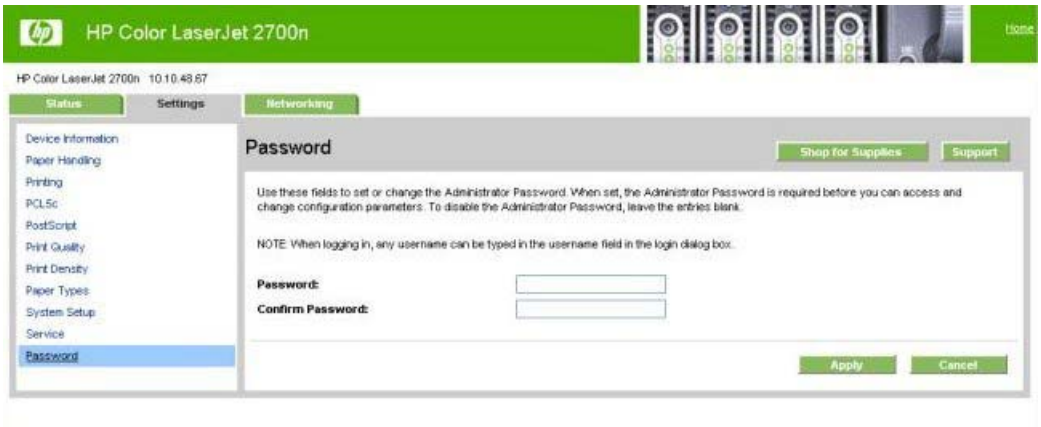


Figure 2-57 HP EWS – **Password** page

Networking tab

Use the **Networking** tab to view and change settings for the network connection and communication with the printer. The following pages are available:

- IP Configuration page
- Advanced page
- Bonjour (or Rendezvous) page
- SNMP page
- Network Summary page

NOTE The **Networking** tab appears only for the HP Color LaserJet 2700n model, which comes standard with onboard networking capabilities.

IP Configuration page

Use the **IP Configuration** page to configure the IP address and host and domain names for the printer.

Figure 2-58 HP EWS – **IP Configuration** page

Advanced page

Use the **Advanced** page to configure the enabled settings and other settings, such as link speed, for the printer.

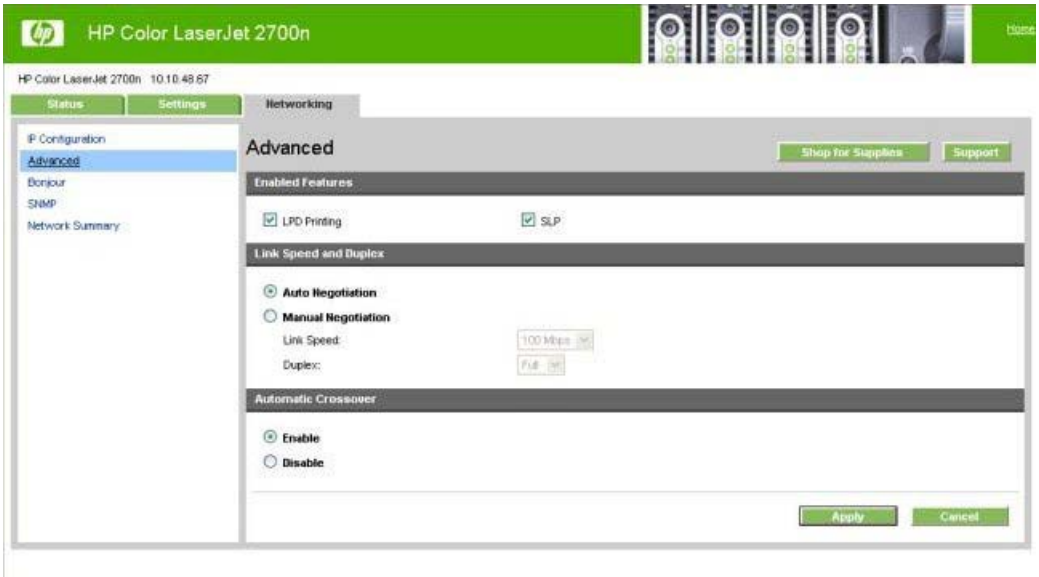


Figure 2-59 HP EWS – **Advanced** page

Bonjour (or Rendezvous) page

Use the **Bonjour (or Rendezvous)** page to enable or disable the Bonjour settings for the printer.

Figure 2-60 HP EWS – **Bonjour (or Rendezvous)** page

SNMP page

Use this page to configure the SNMP settings for the printer.

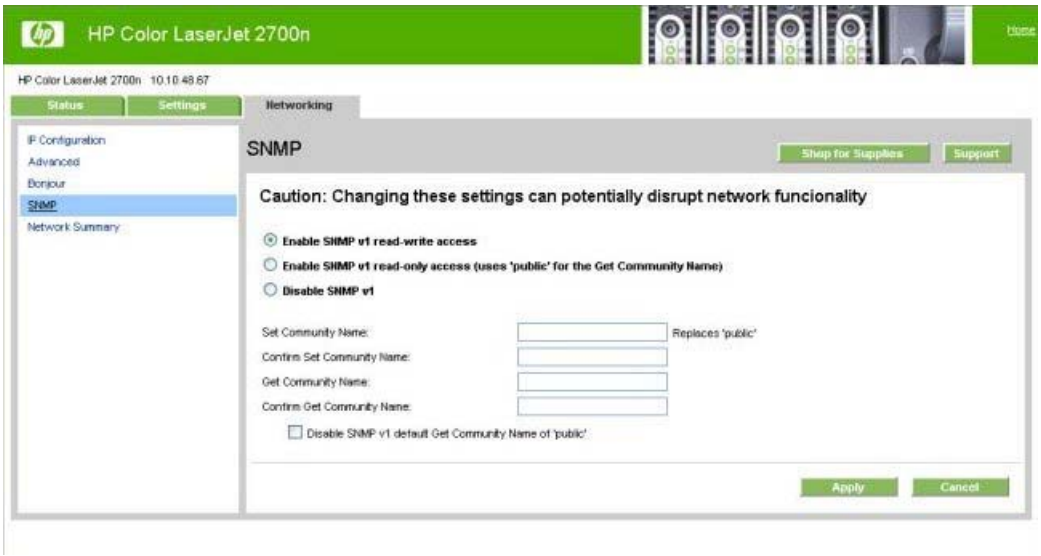


Figure 2-61 HP EWS – **SNMP** page

Network Summary page

The **Network Summary** page contains all the information about the network and its enabled features.

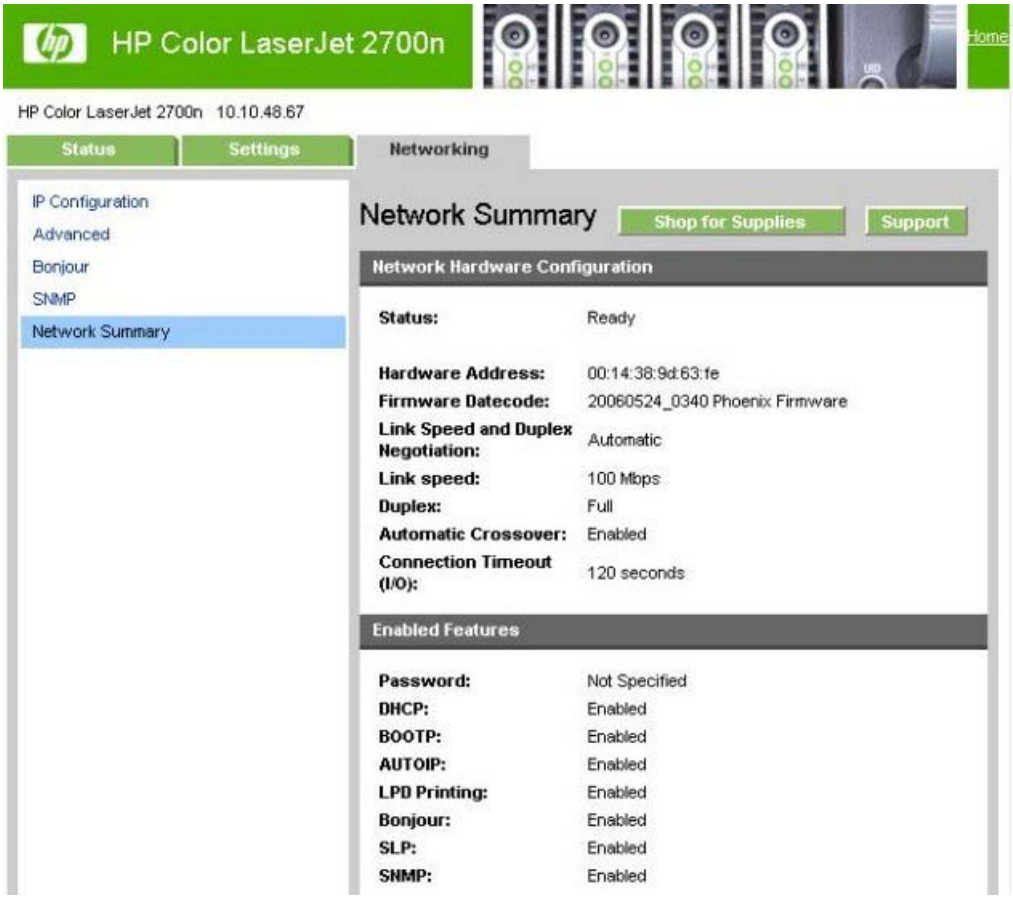
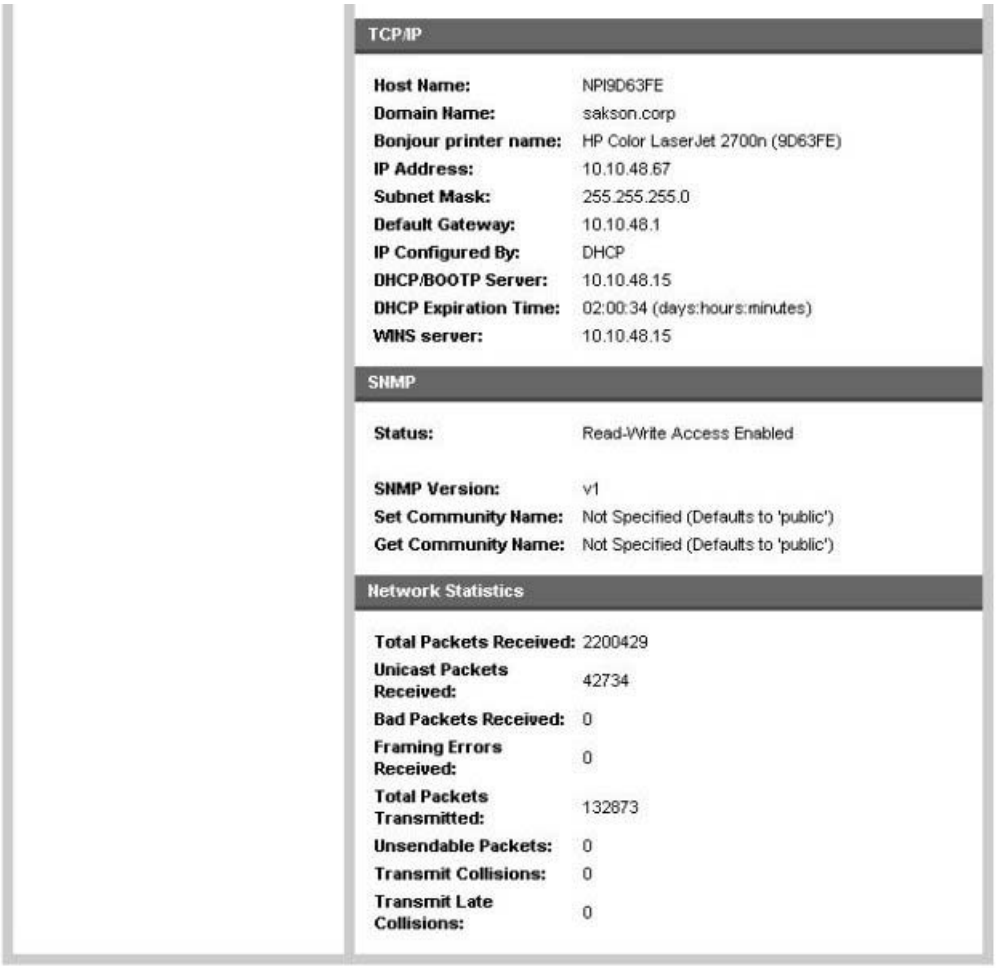


Figure 2-62 HP EWS – **Network Summary** page (1 of 2)



TCP/IP

Host Name:	NPI9D63FE
Domain Name:	sakson.corp
Bonjour printer name:	HP Color LaserJet 2700n (9D63FE)
IP Address:	10.10.48.67
Subnet Mask:	255.255.255.0
Default Gateway:	10.10.48.1
IP Configured By:	DHCP
DHCP/BOOTP Server:	10.10.48.15
DHCP Expiration Time:	02:00:34 (days:hours:minutes)
WINS server:	10.10.48.15

SNMP

Status:	Read-Write Access Enabled
SNMP Version:	v1
Set Community Name:	Not Specified (Defaults to 'public')
Get Community Name:	Not Specified (Defaults to 'public')

Network Statistics

Total Packets Received:	2200429
Unicast Packets Received:	42734
Bad Packets Received:	0
Framing Errors Received:	0
Total Packets Transmitted:	132873
Unsendable Packets:	0
Transmit Collisions:	0
Transmit Late Collisions:	0

Figure 2-63 Network Summary page (2 of 2)

3 Install Microsoft Windows printing-system components

Introduction

This chapter covers information about the HP Color LaserJet 2700 printing-system software for Microsoft Windows. For information about Macintosh installations, see Macintosh.

Topics:

- Installation overview
- Installation options
- Installation dialog box options for Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows 2003

Installation overview

The software for the HP Color LaserJet 2700 printer comes on one CD. The CD includes print drivers and all the software for the HP Color LaserJet 2700 printer.

The HP Color LaserJet 2700 printer includes a new installer that improves the software installation process and supports a software-first installation, which is the recommended installation method.

On computers running Microsoft Windows 2000, Microsoft Windows XP or Microsoft Windows Server 2003 the Setup program installs the HP Color LaserJet 2700 printing-system software from the CD onto the hard disk and updates Microsoft Windows files.

Download the HP Color LaserJet 2700 printing-system software from the Web for computers running Microsoft Windows XP x64. Download the Plug n' Play or Add-Printer Wizard at the following Web site:

www.hp.com/support/clj2700

Find out more information about Add-Printer Wizard by going to: Plug-and-Play installation for direct connections

For all of the supported platforms, each install option presents a series of query dialog boxes. These dialog boxes guide the user through installation of either a directly-connected HP Color LaserJet 2700 model printer or a networked HP Color LaserJet 2700n model printer. The user provides information about the computer environment throughout the installation process.

A **Full** or **Minimum** installation option is offered for computers running Microsoft Windows 2000 or Microsoft Windows XP. A **Minimum** installation is the only option for computers running Microsoft Windows Server 2003.

The **Minimum** installation installs everything the HP Color LaserJet 2700 printer needs to print.

The **Full** installation is recommended. This method installs everything the HP Color LaserJet 2700 printer needs to print, plus the following features:

- Screen fonts.
- The option for usage tracking through HP Extended Capabilities.
- The option for automatic software updates.
- HP ToolboxFX software.

NOTE The HP Color LaserJet 2700 printing-system software uses Microsoft USB printing support (USB00X) rather than DOT4 printing support.

Installation options

The HP Color LaserJet 2700 printing-system software can be used with the HP Color LaserJet 2700 printer in the following configurations:

- **Direct connection.** Install the HP Color LaserJet 2700 printing-system software on a computer that is directly connected to the product through a USB port and running Microsoft Windows 2000, Microsoft Windows XP, or Microsoft Windows Server 2003.

  In this configuration, the printer is not shared. A single user has complete physical control over the printer with access to all of the printer features.

- **Shared direct connection through Microsoft peer-to-peer networking.** Install the HP Color LaserJet 2700 printing-system software on a computer that is directly connected to the product through a USB port and running Microsoft Windows 2000, Microsoft Windows XP, or Microsoft Windows Server 2003. Share the HP Color LaserJet 2700 printer with other users on the network by using Microsoft Windows sharing.

  When using Microsoft Windows to share a local printer over the network, the operating system handles all of the networking issues. The product prints in this configuration, but only the local computer can use the HP ToolboxFX. Also, because Microsoft peer-to-peer networking is unidirectional, network users do not receive printer-status messages when they print to the product.

  NOTE HP does not support vending drivers across operating systems that have different print-driver architectures, such as HP Traditional drivers and HP Unidrivers. To use a mix of operating systems, download and install an alternative print driver for the specific operating system.

- **Network connection through onboard networking.** Install the HP Color LaserJet 2700 printing-system software on a computer that is running Microsoft Windows 2000, Microsoft Windows XP, or Microsoft Windows Server 2003 and has access to a local area network (LAN) to which the HP Color LaserJet 2700n printer is also connected. The HP Color LaserJet 2700n printer has onboard networking that connects to a LAN through a 10/100Base-T (RJ-45) port.

  The following elements are required for a networked HP Color LaserJet 2700n printer:

  - An installed network that uses the TCP/IP network protocol
  - A cable for the type of network connection (not included)

- **Network connection an external JetDirect print server.** The HP Color LaserJet 2700 printer offers print-only support through the following external Jetdirect print servers:

  - en3700
  - ew2400
  - 175x/310x

Microsoft Windows installation for direct connections

Use the following instructions to install the product software on a computer that is running Microsoft Windows 2000, Microsoft Windows XP, or Microsoft Windows Server 2003.

NOTE Set up and turn on the HP Color LaserJet 2700 printer before installing the printing-system software. Do *not* connect the HP Color LaserJet 2700 printer to the computer until prompted by the software installation program.

NOTE Administrator privileges are required in order to install the printing-system software.

1. Quit all open programs.
2. Insert the HP Color LaserJet 2700 printing-system software CD into the CD-ROM drive.

   NOTE If the CD does not start automatically, click **Start**, click **Run**, and then browse to and double-click the SETUP.EXE file in the root directory of the CD.

3. Follow the on-screen prompts to install the software.
4. When the installation is nearly complete, the **Finish** dialog box appears and a test page can be printed. Click the **Print a test page** check box, and then click **Finish** to finish the installation and print a test page.
5. If prompted to restart the computer, click **Yes**.

Microsoft Windows installation for networked computers

Each networked computer HP Color LaserJet 2700n model printing-system software installed has access to all of the printer features over a network connection. This access is through on-board networking that comes standard on the HP Color LaserJet 2700n model printer.

NOTE Networking is not available on the HP Color LaserJet 2700 model printer.

To install the HP Color LaserJet 2700n printing-system software on networked computers running Microsoft Windows 2000, Microsoft Windows XP, or Microsoft Windows Server 2003, follow these steps.

NOTE Administrator privileges are required in order to install the software.

1. Quit all open programs.
2. Insert the HP Color LaserJet 2700n printing-system software CD into the CD-ROM drive.

   NOTE If the CD does not start automatically, click **Start**, click **Run**, and then browse to and double-click the SETUP.EXE file in the root directory of the CD.

3. Follow the on-screen prompts to install the software.
4. When prompted by the Installer software to select how the printer will be connected, select **Through the network**, and then click **Next**. Follow the on-screen instructions.
5. When the installation is completed, a setup dialog box appears asking whether a test page should be printed. Click **Yes**.
6. If prompted to restart the computer, click **Yes**.

Installing the print drivers through Microsoft Windows Add-Printer Wizard or Plug-and-Play

The following methods are recommended by HP for installing the print drivers using Microsoft Windows Add-Printer Wizard or by using Microsoft Windows Plug-and-Play.

During an add-printer-wizard installation, the following drivers are installed:

- Print driver
- USB driver (for plug-and-play installations only)
- EWS null driver (Embedded Web Server)

Add-Printer Wizard installation for network connections

NOTE If installing on a direct connection, seePlug-and-Play installation for direct connections.

Follow these steps to install the HP Color LaserJet 2700 printing system software.

1. Quit all open programs.

2. Insert the HP Color LaserJet 2700 printing-system CD into the CD-ROM drive on the computer.

   NOTE If the CD starts automatically, click **Exit** to exit the installation program and continue with Step 3.

3. Click **Printers and Faxes**, then click **Add a Printer**.

4. Click **Next** on the **Welcome** dialog box.

5. On the **Local or Network Printer** dialog box, click **Local printer attached to this computer**, and then click **Next**.

6. On the **Select a Printer Port** dialog box, click **Create a new port**. From the **Type of port** drop-down menu, select **HP Standard TCP/IP Port**. Click **Next**.

7. The **Welcome to the Add Standard TCP/IP Port Wizard** dialog box appears. Click **Next**.

8. The **Add Port** dialog box appears. Type the printer's IP address in the **Printer Name or IP Address** text box. The **Port Name** fills automatically. Click **Next** to continue.

   To find the printer IP address, run a configuration page from the printer control panel. Make sure the control panel heading reads **Ready**. (If the printer control panels does *not* read **Ready**, press the square orange **X** button to the right of the printer control panel window).

   - Use the arrow key to scroll to **Main menu/Reports**, and then press **OK**.
   - Use the arrow key to scroll to **Reports/Config report**, and then press **OK**. The configuration page will print.
   - Find the IP address on the printed sheet beneath the **Product Settings** heading.

9. On the **Completing the Add Standard TCP/IP Printer Port Wizard** screen, click **Finish** to continue with the installation.

10. On the **Install Printer Software** screen, click **Have Disk**. Click **Next**.

11. On the **Install from Disk** dialog box, click Browse and navigate to the following path:.<CD ROM drive>:\Drivers\Win2000_XP. Click **Open**. Click **OK** to continue.

12. On the **Install Printer Software** dialog box, click **Printers** to select the driver to install, and then click **Next**.

    NOTE Microsoft Windows Server 2003 uses the same print driver as Microsoft Windows 2000 and Microsoft Windows XP.

13. On the **Name Your Printer** screen, type a name for the printer or accept the default name. Click **Yes** to make this printer the default printer. Click **Next** to continue.

14. On the **Printer Sharing** screen, determine sharing for this printer, and then click on the **Print Test Page** dialog box.

15. Click **Yes** to print a test page or **No** to decline, and then click **Next**.

16. Click **Finish** to continue the installation.

17. The **Completing the Add Printer Wizard** dialog box appears. Click **Finish** to complete the installation.

Plug-and-Play installation for direct connections

Instead of using Microsoft Windows Add-Printer Wizard to install print drivers on computers directly connected to the printer, HP recommends using either a **Minimum installation** from the printing-system CD or a **Plug-and-Play** installation.

Minimum installation of print drivers from the printing-system CD

A Minimum installation from the printing-system CD installs everything on your computer needed for the HP Color LaserJet 2700 printer to print. The HP ToolboxFX and other added features are not installed.

Perform a Minimum installation with a direct connection using the following procedure:

1. Quit all open programs. Insert the HP Color LaserJet 2700 printer software CD into the CD-ROM drive.

   NOTE If the CD does not start automatically, click Start, click Run, and then browse to and double-click the SETUP.EXE file in the root directory of the CD.

2. The **Thank You for Purchasing from HP!** screen appears. Click **Install** and an **Installing** screen briefly appears, which automatically leads to the **Welcome** dialog box.

3. Click **Next** to get to the **Do Not Block HP Install Wizard Processes** screen. Click **Next** to continue.

4. The **Check for Recommended Updates** screen appears. If you have Web access, click **Yes** to check for HP Color LaserJet 2700 printer installation updates and to continue with installation of the printing-system software. This step is optional. Click any of the links to open a screen that provides further information.

5. The **Installing** screen appears and automatically leads to the **Installation Options** screen. Select **Minimum** and click **Next** to continue.

6. After an **Installing** screen, the **License Agreement** screen appears. Review this agreement and if you accept the terms, select the **I accept the terms in the license agreement** option. Click **Next** to continue.

7. Another **Installing** screen appears and automatically leads to the **Thank you for buying another HP product!** screen. This screen shows the destination folder where the printing-system software files are installed. The default option creates an **HP** program group, which is accessed by clicking **Start** and then selecting **Programs** or **All Programs**.

8. Click **Next** to go to the **Ready to Install** dialog box .

9. Click **Next** to go to an **Installing** screen, which automatically leads to the **Connection Type** dialog box. Select the **Directly through this computer using a USB cable** option and then click **Next**.

10. The **Connect Your Device Now** screen appears. Follow the instructions and click **Next**.

11. The **Device has been detected** screen appears. After the device setup has finished, the **Product connected successfully!** message appears on the screen. Click **Next** to continue.

12. An **Installing** screen appears and automatically leads to the **Congratulations! Software installation complete** screen. Click **Finish** to complete the installation. Print a **Test page** when

prompted by the dialog box to confirm that the HP Color LaserJet 2700 printer is connected and running properly.

Plug-and-Play Installation for installing print drivers

Use this method to install the print drivers on a computer running the MS Windows XP x64 Edition operating system.

> **CAUTION** Do *not* attach the USB cable to the printer until prompted during the EZInstall program.

The HP Color LaserJet 2700 printer must be properly set up before starting the Plug-and-Play installation. Follow these instructions to set up the computer:

1. Close all software programs running on the computer.
2. Open your Web browser and go to the following Web site: www.hp.com/support/clj2700.
3. Click the **Download drivers and software**.
4. Click to select the model number for the printer driver you want to install.
5. Click to select the operating system you are using.
6. Choose your language from the drop-down menu.
7. In the **Driver** section, find the **Plug and Play** package for the driver you want to install, then click **Download**.
8. Select **Save** and a **Save As** dialog box appears.
9. Select a directory to save the file in and click **Save**. Write down and remember the location of the saved file.
10. Locate the file using Windows Explorer when the download has completed.
11. Double-click on the file. This extracts all the driver files into a directory on the computer hard-drive. The default directory is:

    : `c:\Program Files\Hewlett-Packard\LaserJet 2700 Drivers`

    However, the path and directory name can be changed when the file is extracted.
12. Click **Next** after the file extraction is complete and follow the instructions presented by the EZInstall program. Attach the USB cable only when prompted by the EZInstall program.
13. Delete the file:

    `clj2700-PCL6-pnp-winx64-<language abbreviation>.exe`

Setting up Microsoft Windows Sharing (peer-to-peer networking)

This section contains instructions for how to use Microsoft Windows Sharing to make the product available to network users when the product is directly connected to a computer.

NOTE This document outlines the procedures for sharing a printer through Microsoft Windows Sharing (peer-to-peer networking). If these procedures are not successful, contact Microsoft at the following Web site:www.microsoft.com. Because it is a function of Microsoft operating systems and not of the HP printer drivers, HP does not support peer-to-peer networking.

NOTE In Windows-sharing, the person who uses the computer that is directly connected to the HP Color LaserJet 2700 printer can allow other users on the network to also print from it.

Install printer drivers on all of the computers that will share a connection to the HP Color LaserJet 2700 printer.

Setting up the Microsoft Windows 2000 host computer

At the computer that is directly connected to the HP Color LaserJet 2700 printer, perform the following steps.

1. Click **Start**, click **Settings**, and then click **Printers**.
2. In the printer list, right-click the icon for the HP Color LaserJet 2700 printer, and then click **Sharing**.
3. On the **Sharing** tab, click the **Share As** option button, and then type a name for the product in the **Share Name** field. Click **OK**.

NOTE The **Share Name** must be a maximum of 8 characters.

Setting up the host computer running Microsoft Windows XP or Microsoft Windows Server 2003

At the computer that is directly connected to the HP Color LaserJet 2700 printer, perform the following steps.

1. Click **Start**, and then click **Printers and Faxes**.
2. In the printer list, right-click the icon for the HP Color LaserJet 2700 printer and then click **Sharing**.
3. On the **Sharing** tab, click the **Share this printer** option button and type a name for the product in the **Share Name** field. Click **OK**.

Setting up the client computers

After the host computer is set up to share the HP Color LaserJet 2700 printer, the client computers can be configured. Perform the following steps at all the other network computers that will use the HP Color LaserJet 2700 printer.

Setting up Microsoft Windows 2000 client computers

1. Click **Start**, click **Settings**, and then click **Printers**.
2. Double-click the **Add Printer** icon to open the **Add Printer** wizard.
3. Click **Next** to start the wizard.
4. Click the **Network Printer** option button, and then click **Next**.
5. Type the path to and share name of the HP Color LaserJet 2700 printer to connect.

   - OR -

   Click **Browse** and navigate to find it.
6. Click **Next**.
7. Click **Yes** or **No** when asked if this printer should be the default printer for Microsoft Windows-based programs, and then click **Next**.
8. Click **Finish** to complete the installation and close the **Add Printer** wizard.

NOTE The product software CD might be needed to complete the print-driver installations.

Setting up Microsoft Windows XP or Microsoft Windows Server 2003 client computers

1. Click **Start** and then click **Printers and Faxes**.
2. In the column to the left, under **Printer Tasks**, click **Add a printer** to open the **Add Printer** wizard.
3. Click **Next** to start the wizard.
4. Click the **A network printer or a printer attached to another computer** option button, and then click **Next**.
5. Type the path and share name of the HP Color LaserJet 2700 printer to which the computer will connect.

   - OR -

   Click **Browse** and navigate to find the HP Color LaserJet 2700 printer to which the computer will connect.
6. Click **Next**.
7. Click **Yes** or **No** when asked if this printer should be the default printer for Microsoft Windows-based programs, and then click **Next**.
8. Click **Finish** to complete the installation and close the **Add Printer** wizard.

Installation dialog box options for Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows 2003

The following section shows the dialog box options that appear during the HP Color LaserJet 2700 printing-system software installation on Microsoft Windows 2000, Microsoft Windows XP, and Microsoft Windows Server 2003 operating systems.

NOTE HP recommends installing the software before connecting the HP Color LaserJet 2700 printer to the computer (software-first installation). These instructions are for a software-first installation.

A computer running Microsoft Windows Server 2003 will automatically go through the steps for a **Minimum** installation of the HP Color LaserJet 2700 printing-system software. The installation sequence starts at Step 10.

Use these instructions the first time the HP Color LaserJet 2700 printing-system software is installed.

Start the installation after closing out of all other programs. Insert the printing-system software CD into the CD-ROM drive.

NOTE If the CD does not start automatically, click Start, click Run, and then browse to and double-click the SETUP.EXE file in the root directory of the CD.

The **Thank you for purchasing from HP!** opening screen appears. Select **Install** to start the installation of the printing-system software.

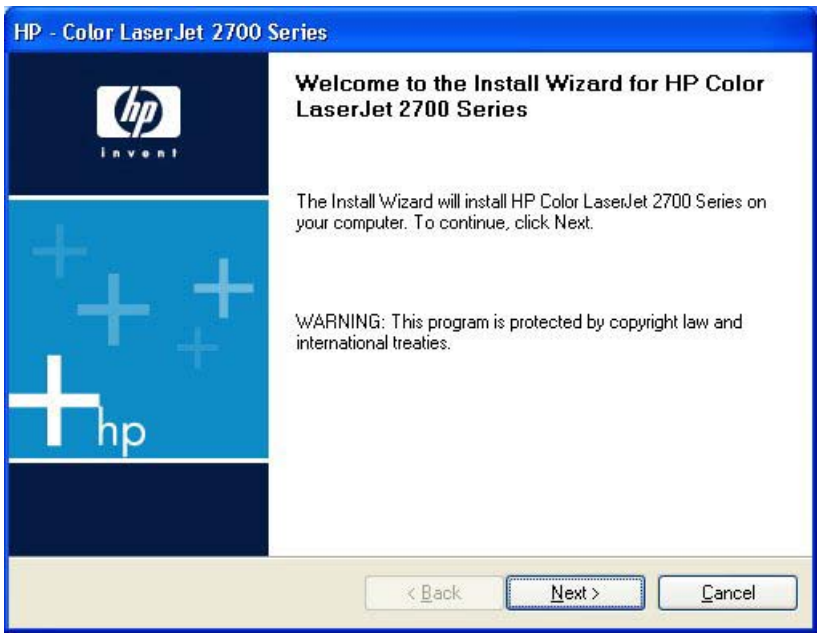


Figure 3-1 Step 1 - **Welcome** dialog box

The **Welcome** dialog box appears as the installation of the printing-system software begins. Click **Next** to go to the **Firewall warning** dialog box (step 3).

NOTE The option to cancel the installation of the HP Color LaserJet 2700 printer software is offered at different times throughout the installation process.

Click **Cancel** on screens that contain this option to go to the **Cancel** dialog box.

Figure 3-2 Step 2 - **Cancel** dialog box

Click **Yes** to close the installer.

Click **No** to return to the last installer dialog box that was open.

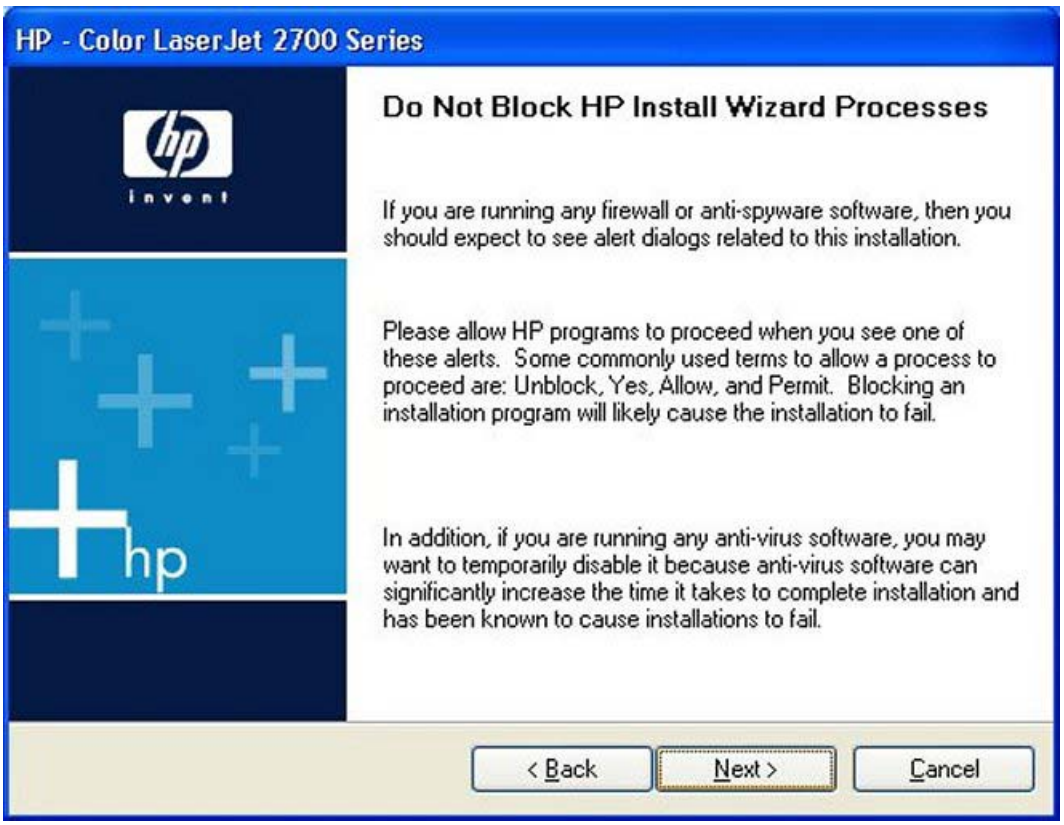


Figure 3-3 Step 3 - **Firewall Warning** dialog box

Click **Back** to go to the **Welcome** dialog box (step 1).

Click **Next** to go to the **Check for recommended installation updates** dialog box (step 4).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

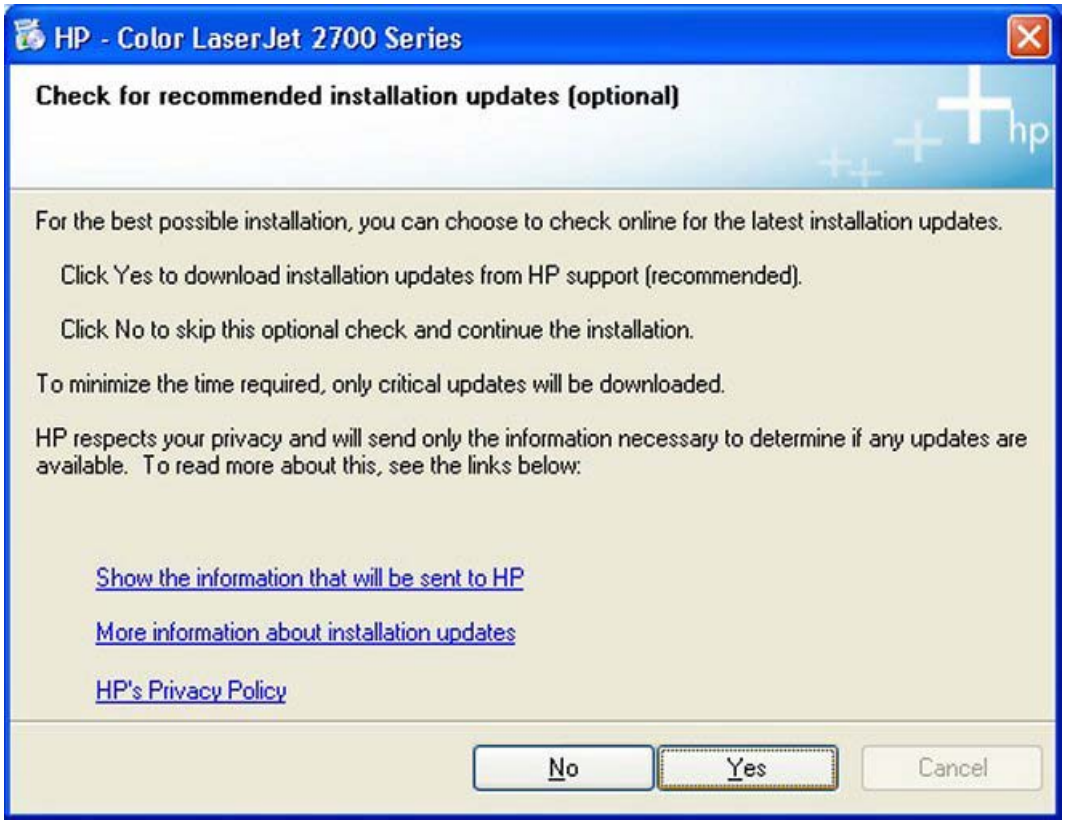


Figure 3-4 Step 4 - **Check for Recommended Installation Updates** screen

If you have Web access, click **Yes** to check for HP Color LaserJet 2700 printer installation updates and to continue with installation of the printing-system software. This step is optional. Click any of the links to get more information about installation updates.

- **Show the information that will be sent to HP**
- **More information about installation updates**
- **HP's Privacy Policy**

Click **No** to continue the installation without checking for installation updates.

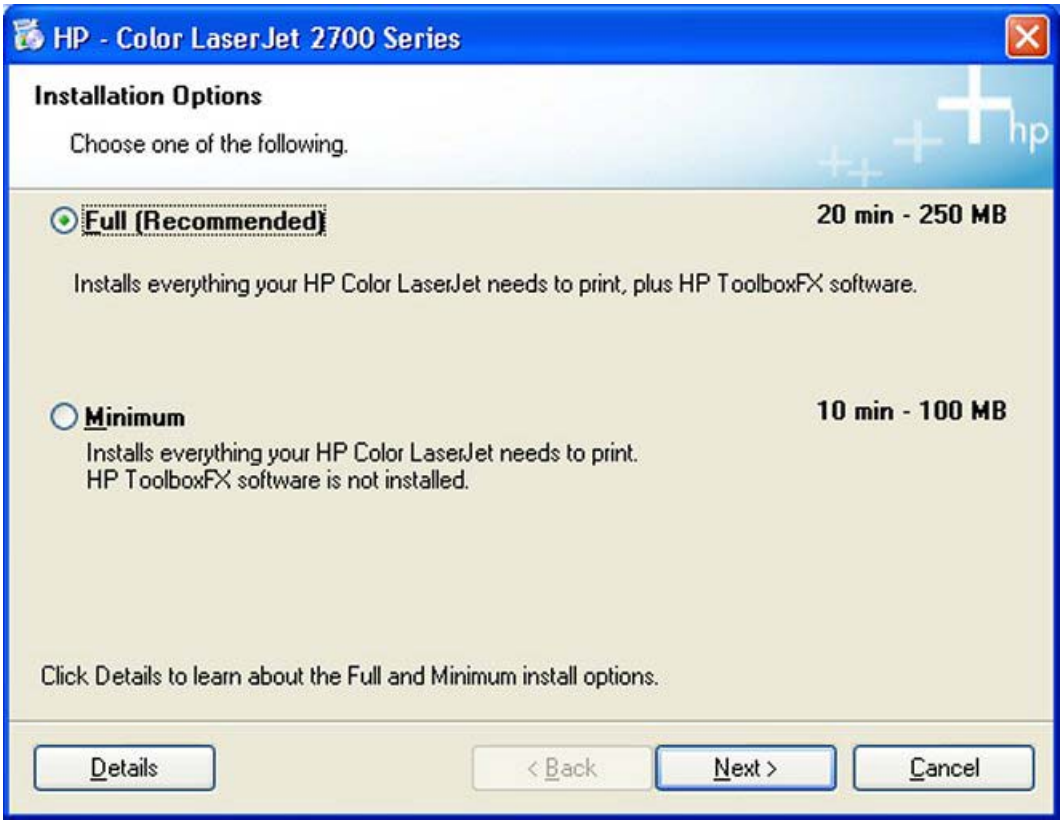


Figure 3-5 Step 5 - **Installation Options** dialog box

Select **Full (Recommended)** to select the full HP Color LaserJet 2700 printing-system software installation.

Select **Minimum** to install only the software needed to print with the HP Color LaserJet 2700 printer.

Click **Details** to get more information about each of the installation options.

Click **Cancel** to go to the **Cancel** dialog box (step 2).

After selecting a **Full** or **Minimum** installation, click **Next** to continue with the Installation. An **Installing** screen comes up, which automatically leads to the **License Agreement** dialog box (step 6).

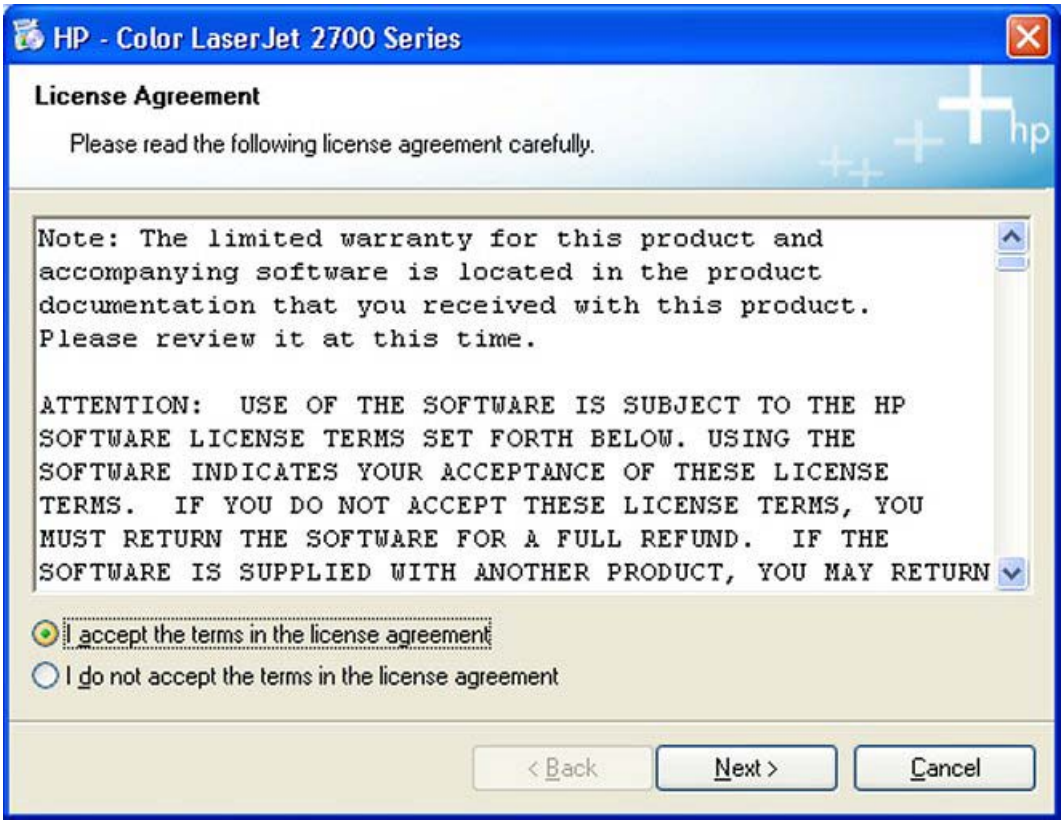


Figure 3-6 Step 6 - **License Agreement** dialog box

Click **I accept the terms in the license agreement** to continue the installation.

Click **I do not accept the terms in the license agreement** to cancel the installation.

Click **Next** to go to the **HP Extended Capabilities** dialog box (step 7).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

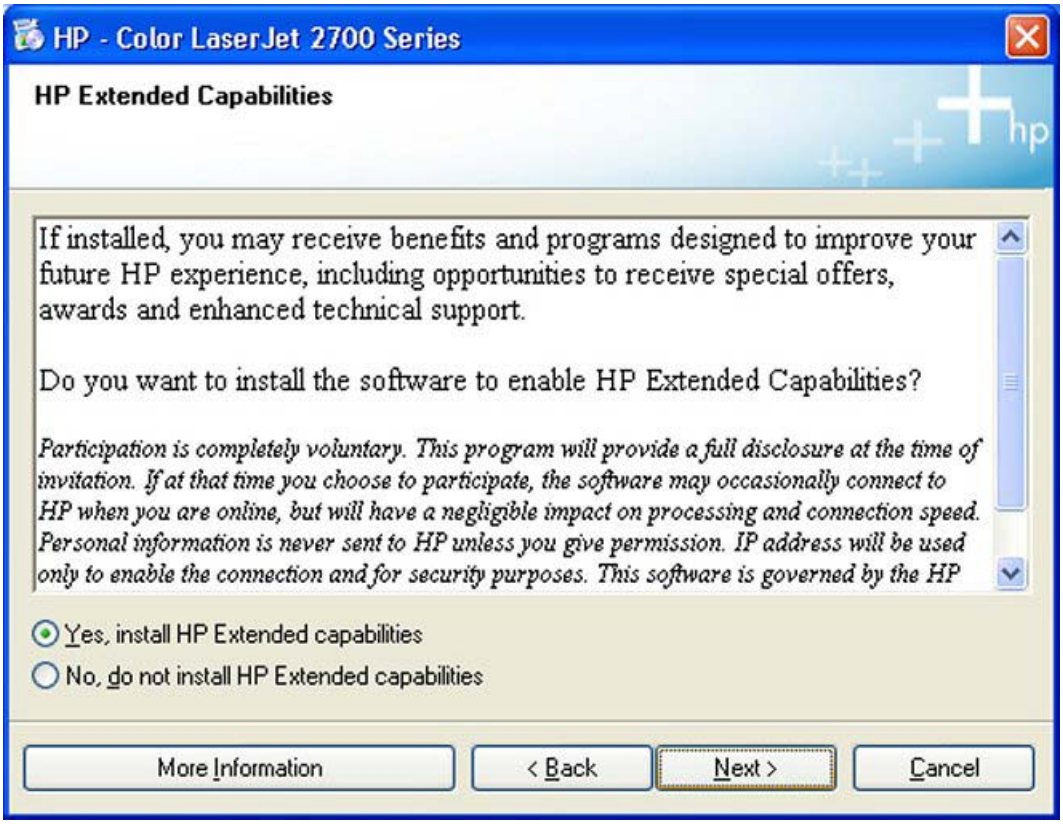


Figure 3-7 Step 7 - HP Extended Capabilities dialog box

Click **Yes, install HP Extended capabilities** to install these capabilities. If you select the option to participate, you receive an invitation about two weeks later. No information is gathered until you receive the invitation and agree to all of the terms. The invitation contains full disclosure of the information to be communicated. Participation is completely voluntary, and the impact on processing and connecting speed is negligible. Personal information is never sent without permission. TCP/IP addresses are used only to enable the connection and for security purposes.

Click **No, do not install HP Extended capabilities** to skip the option for having these capabilities installed.

Click **More Information** to get more information about HP Extended Capabilities.

Click **Back** to go back to the **License Agreement** dialog box (step 6).

Click **Next** to go to the **Thank you for buying another HP product!** (destination folder) dialog box (step 8), which shows the destination folder where the printing-system software files are installed.

Click **Cancel** to go to the **Cancel** dialog box (step 2).

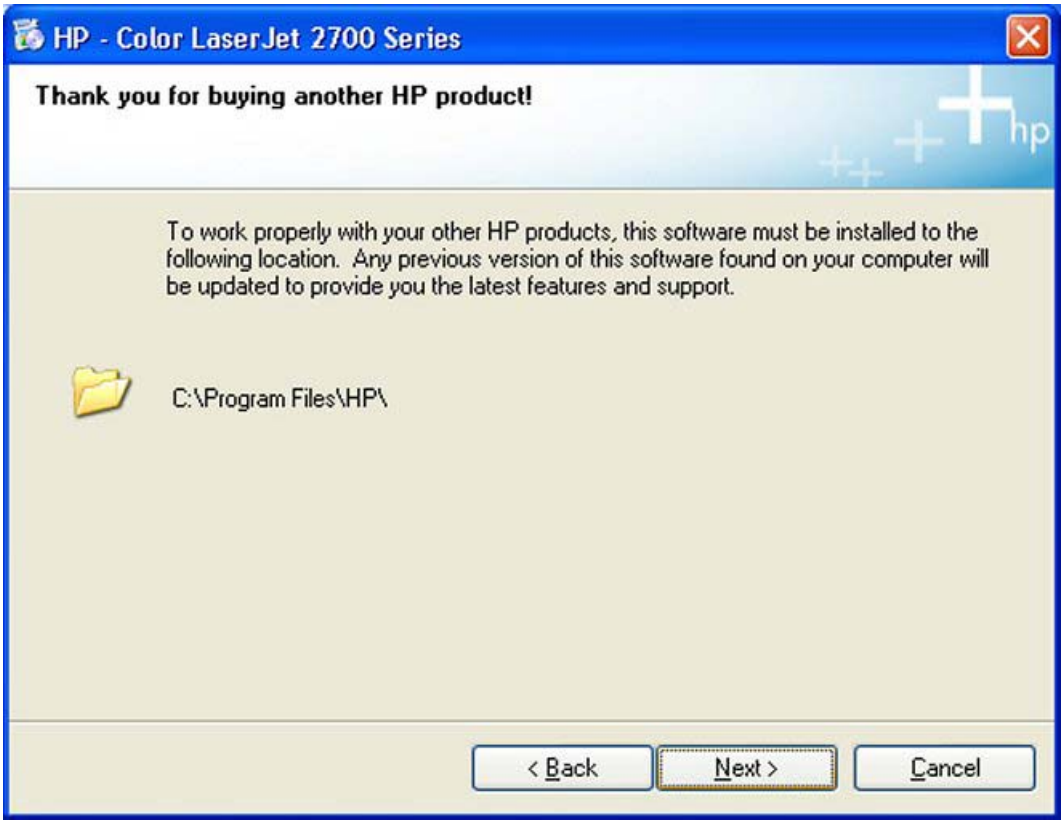


Figure 3-8 Step 8 - Thank you for buying another HP product! dialog box (destination folder)

This screen shows the destination folder where the printing-system software files are installed. The default option creates an **HP** program group, which is accessed by clicking **Start** and then selecting **Programs** or **All Programs**.

The following options are available on the **Thank you for buying another HP product!** (destination folder) screen:

Click **Back** to go back to the **HP Extended Capabilities** dialog box (step 7).

Click **Next** to go to the **Ready to Install** dialog box (step 9).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

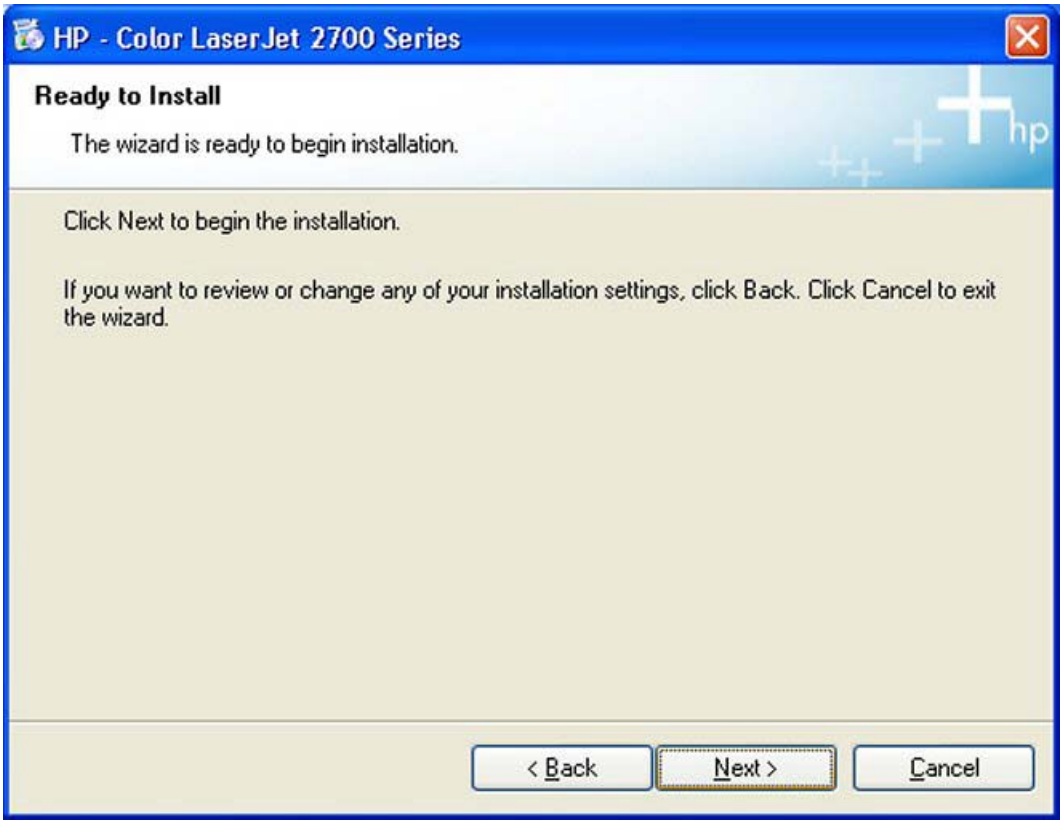


Figure 3-9 Step 9 - Ready to Install dialog box

Click **Back** to go back to the **Thank you for buying another HP product!** (destination folder) dialog box (step 8).

Click **Next** to go to the **Installing** screen, which will automatically lead to the **Connection Type** dialog box (step 10).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

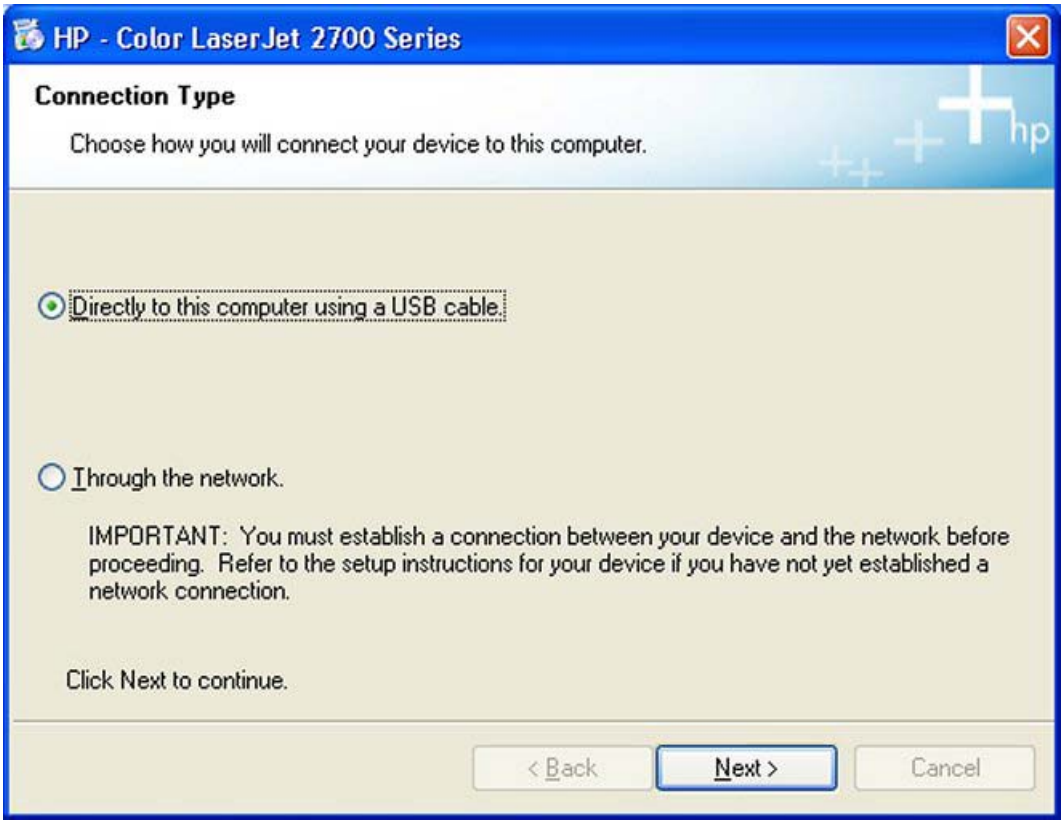


Figure 3-10 Step 10 - **Connection Type** dialog box

NOTE This is the first screen to appear if you are installing the printing-system software on a computer running Microsoft Windows Server 2003.

Click **Directly to this computer using a USB cable** (a "direct connection"), then **Next** to go to the **Installing** screen, which automatically leads to the **Connect Your Device Now** dialog box (step 11).

Click **Through the network**, then **Next** to go to the **Identify Printer** dialog box (step 12).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

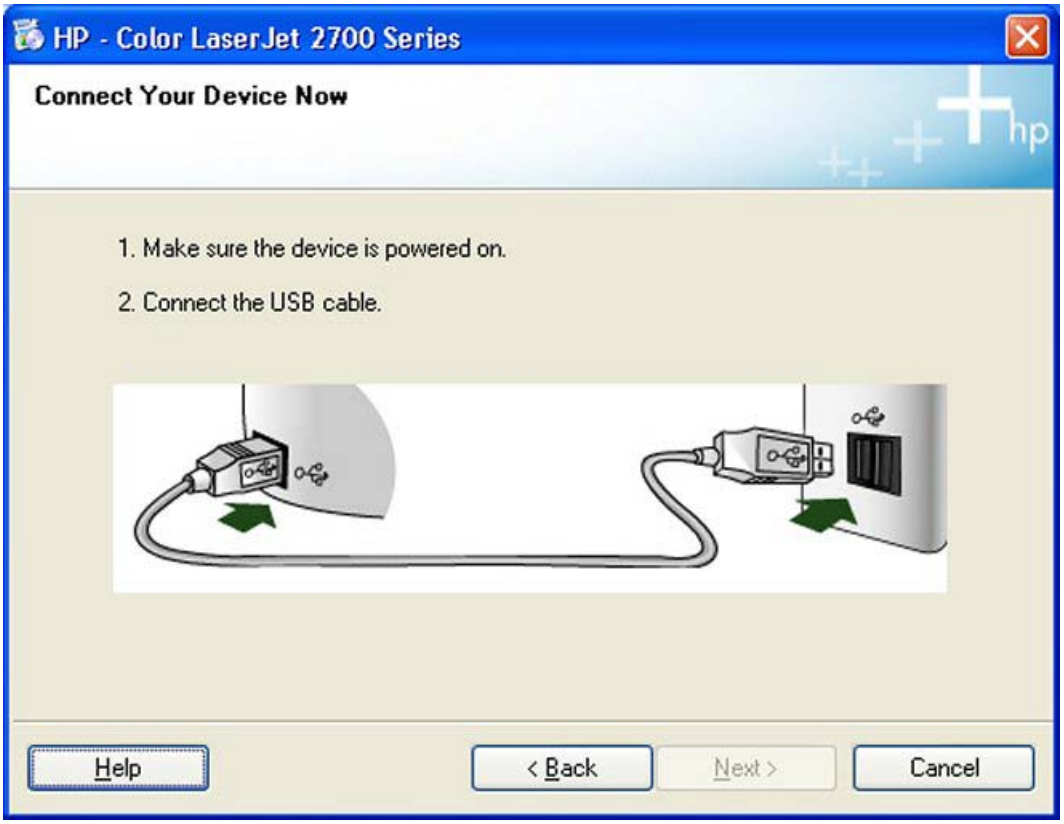


Figure 3-11 Step 11 - **Connect Your Device Now** dialog box

NOTE If the HP Color LaserJet 2700n printer version is being installed through a network connection, go to **Identify Printer** (step 12).

Connect the USB cable between the computer and the HP Color LaserJet 2700 printer and wait for the software to detect the connection. Then click **Next** to go to the **Printer Found** dialog box (step 18).

Click **Help** to start the online Help system.

Click **Back** to return to the **Connection Type** dialog box (step 10).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

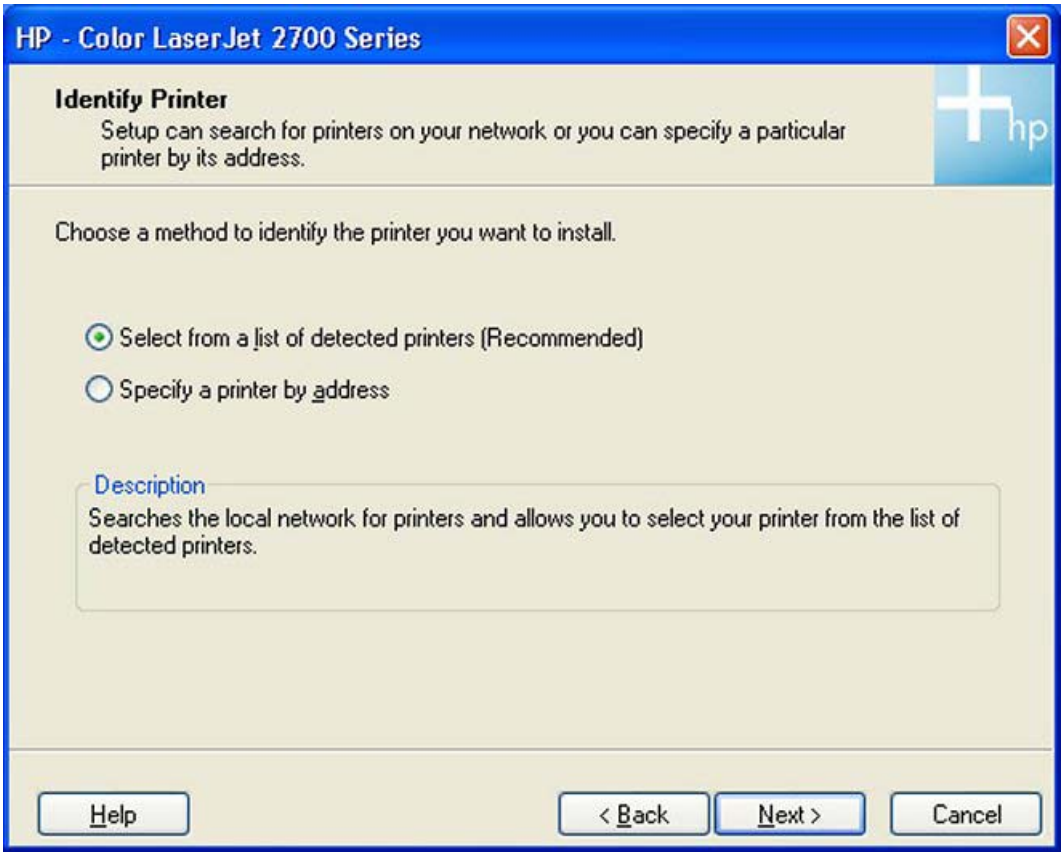


Figure 3-12 Step 12 - **Identify Printer** dialog box

NOTE If installing a direct-connection to the printer, go to the **Printer Found** dialog box (step 18).

Click the **Select from a list of detected printers (Recommended)** option, and then click **Next** to go to the **Searching** dialog box (step 14).

Click the **Specify a printer by address** option, and then click **Next** to go to the **Specify Printer** dialog box (step 17).

Click **Help** to start the online Help system.

Click **Back** to return to the **Connection Type** dialog box (step 10).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

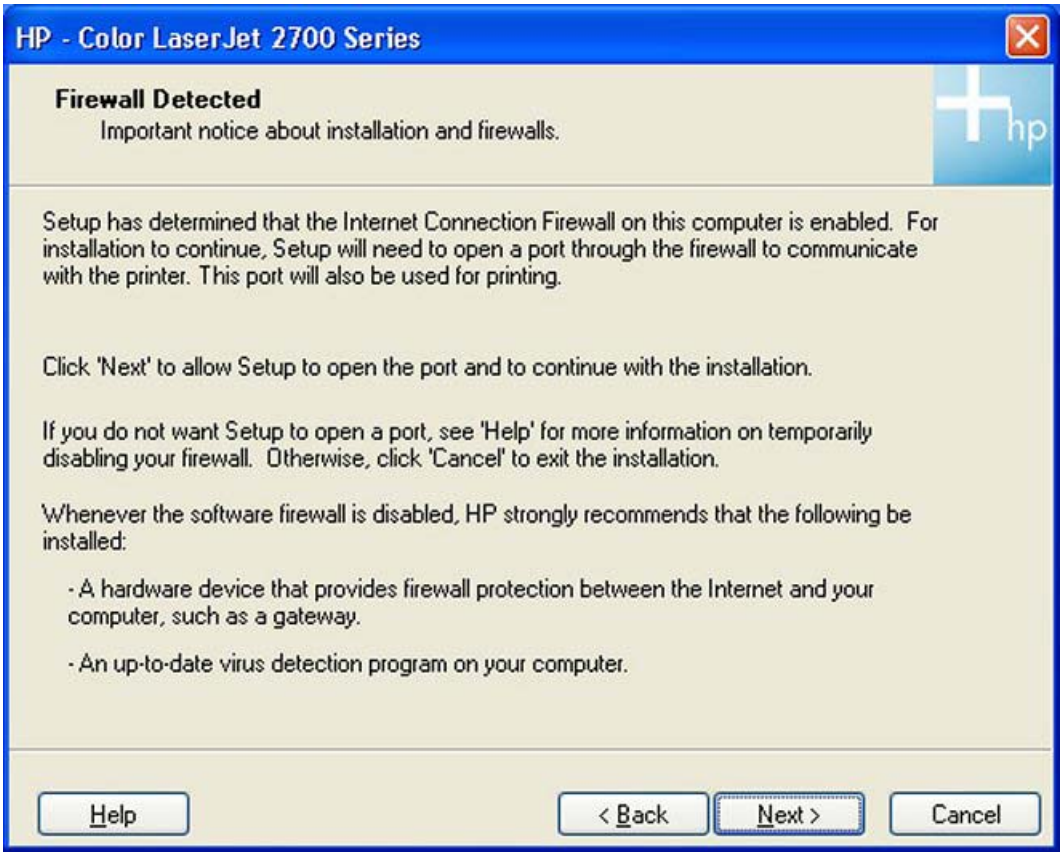


Figure 3-13 Step 13 - **Firewall Detected** dialog box

The **Firewall Detected** screen might appear.

Click **Help** to start the online Help system.

Click **Back** to return to the **Identify Printer** dialog box (Step 12).

Click **Next** to allow Setup to open the port and to continue with the installation. This will take you to the **Searching** dialog box (Step 14).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

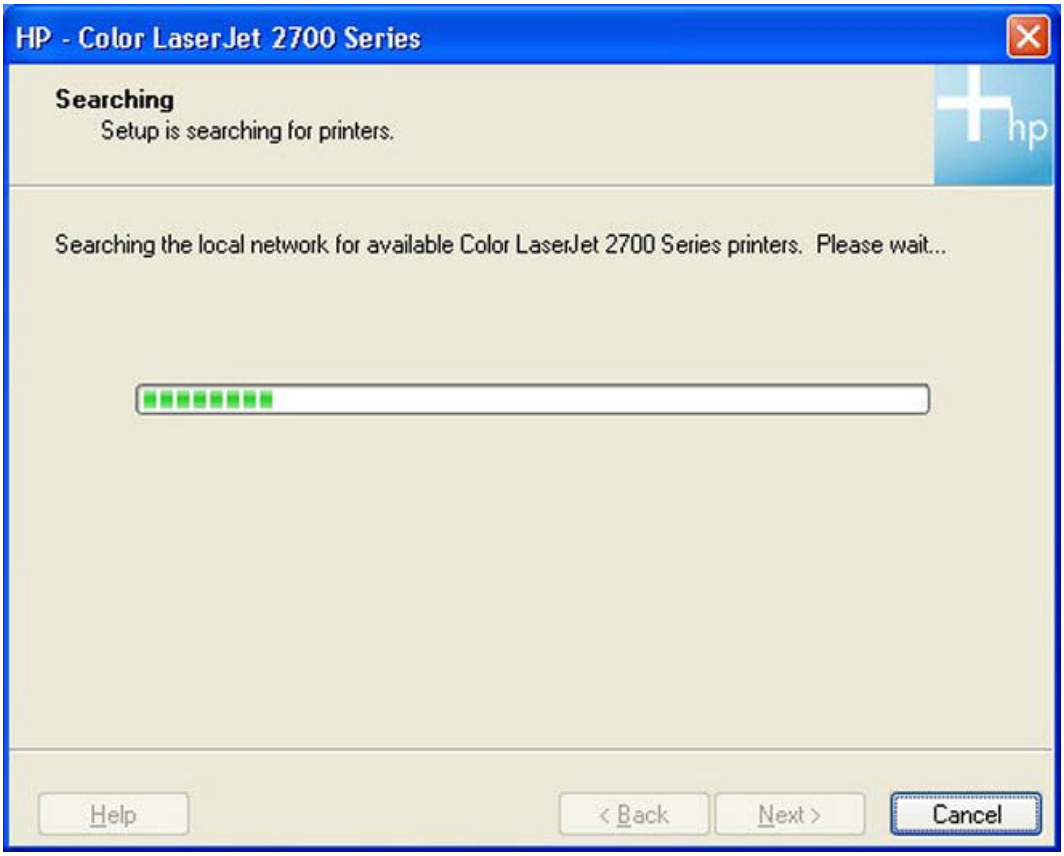


Figure 3-14 Step 14 - **Searching** dialog box

The **Searching** dialog box appears while the computer searches for the printer on the network.

If the installer finds the printer on the network, then the installer automatically goes to the **Printer Found** dialog box (step 18).

If the installer does not find the printer on the network, then the installer automatically takes goes to the **Printer Not Found** dialog box (step 15).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

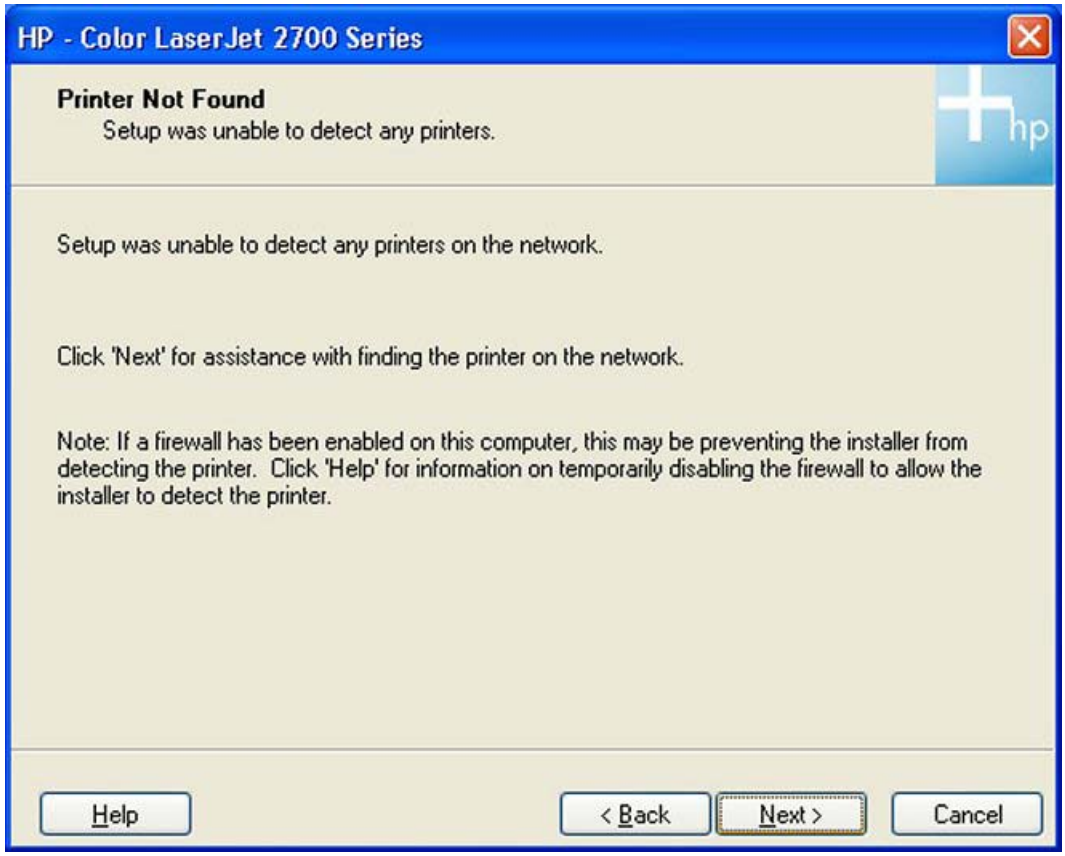


Figure 3-15 Step 15 - **Printer Not Found** dialog box

Click **Help** to start the online Help system.

Click **Back** to return to the **Identify Printer** dialog box (step 12).

Click **Next** to go to the **Check Printer Connection** dialog box (step 16).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

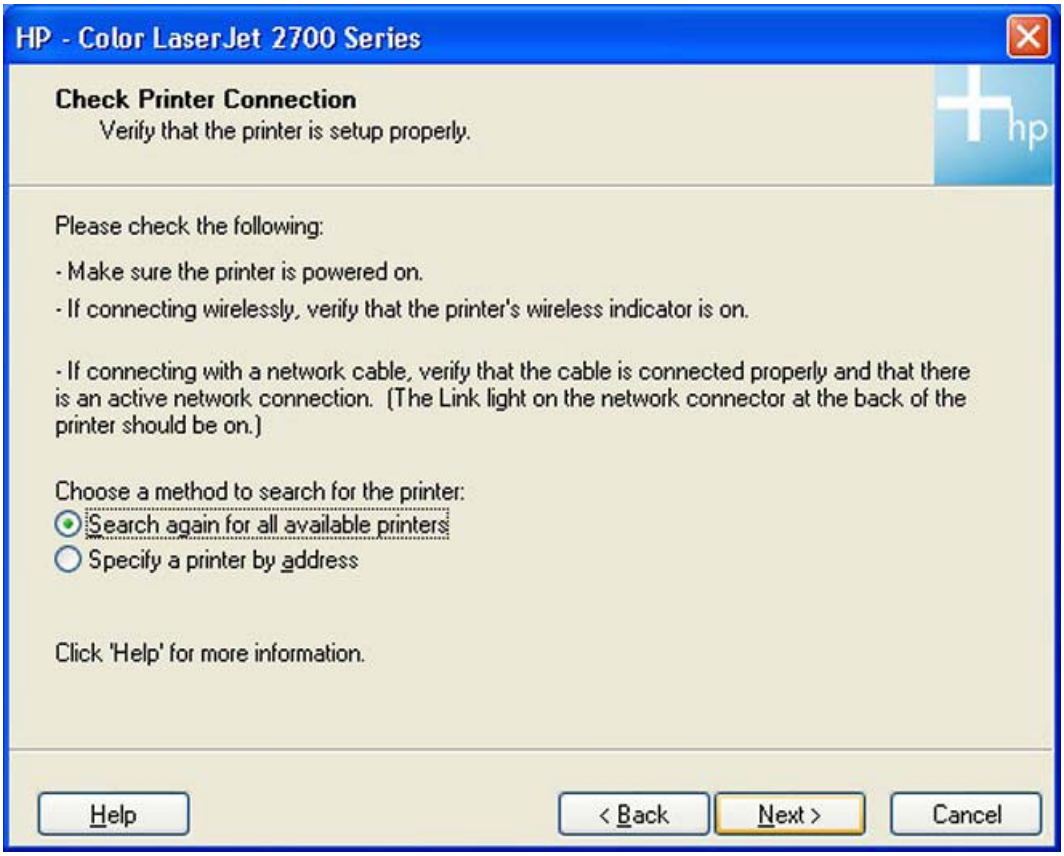


Figure 3-16 Step 16 - Check Printer Connection dialog box

Click **Search again for all available printers** and then click **Next** to go to the **Searching** dialog box (step 14).

Click **Specify a printer by address** and then click **Next** to go to the **Specify Printer** dialog box (step 17).

Click **Help** to start the online Help system.

Click **Back** to return to the **Identify Printer** dialog box (step 12).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

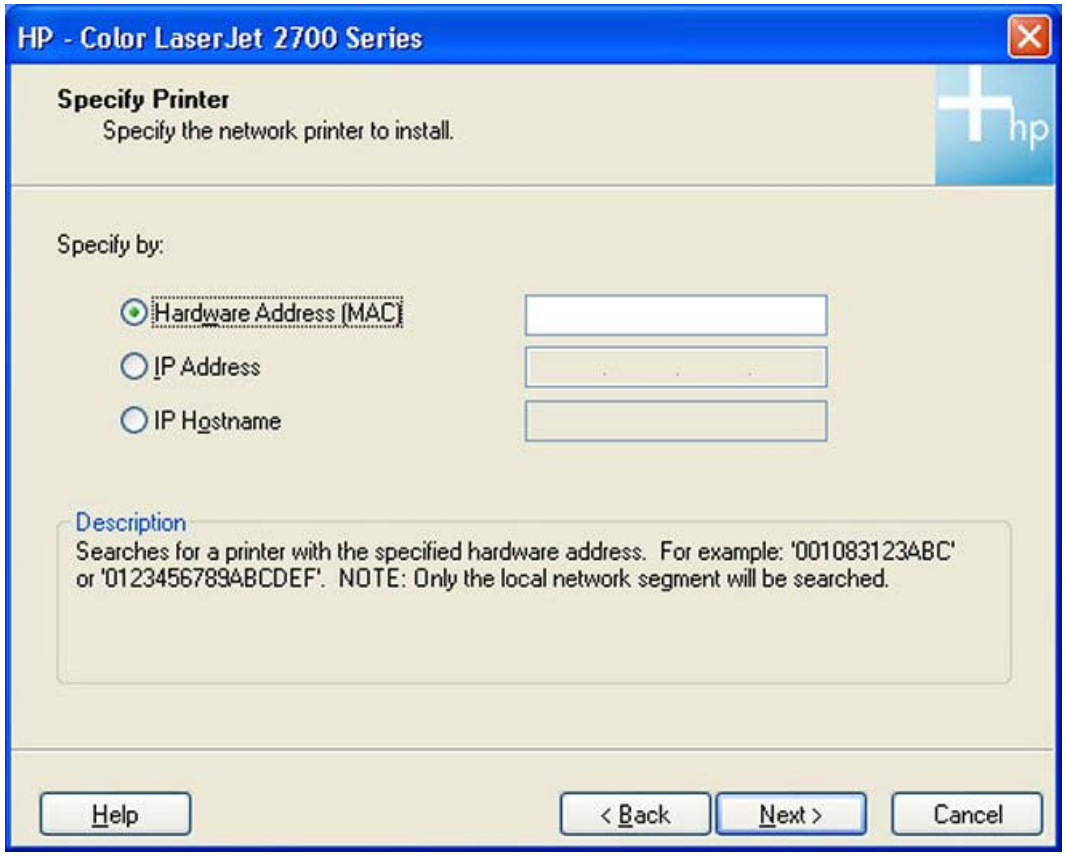


Figure 3-17 Step 17 - **Specify Printer** dialog box

Type any of the addresses and then click **Next** to go to the **Printer Found** dialog box (step 18).

Click **Help** to start the online Help system.

Click **Back** to return to the **Check Printer Connection** dialog box (step 16).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

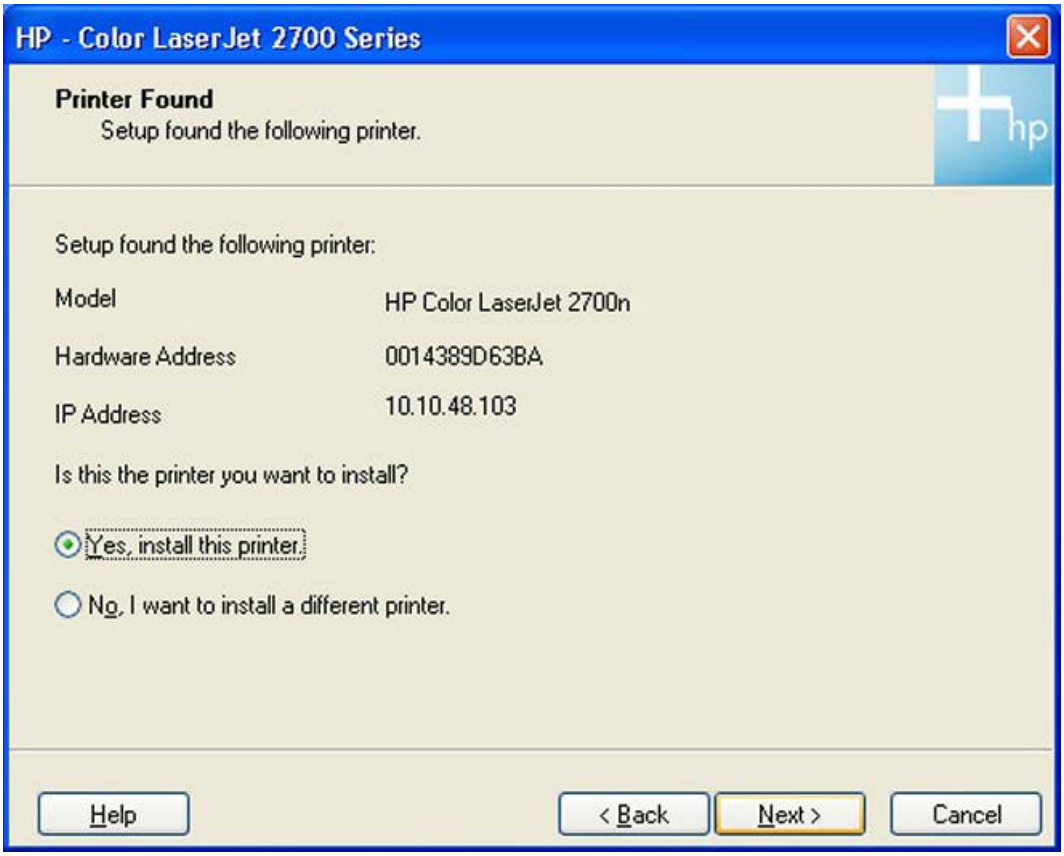


Figure 3-18 Step 18 - Printer Found dialog box

Click **Yes, install this printer.**, and then click **Next**. If performing a direct connection, go to the **Installing** dialog box (step 20). If performing a network connection, go to the **Confirm Network Settings** dialog box (step 19).

Click **No, I want to install a different printer.**, and then click **Next** to go to the **Check printer connection** dialog box (step 16).

Click **Help** to start the online Help system.

Click **Back** to return to the **Identify Printer** dialog box (step 12).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

NOTE If more than one HP Color LaserJet 2700 printer is installed on the network, a list appears. Select the specific HP Color LaserJet 2700 printer to connect to the computer.

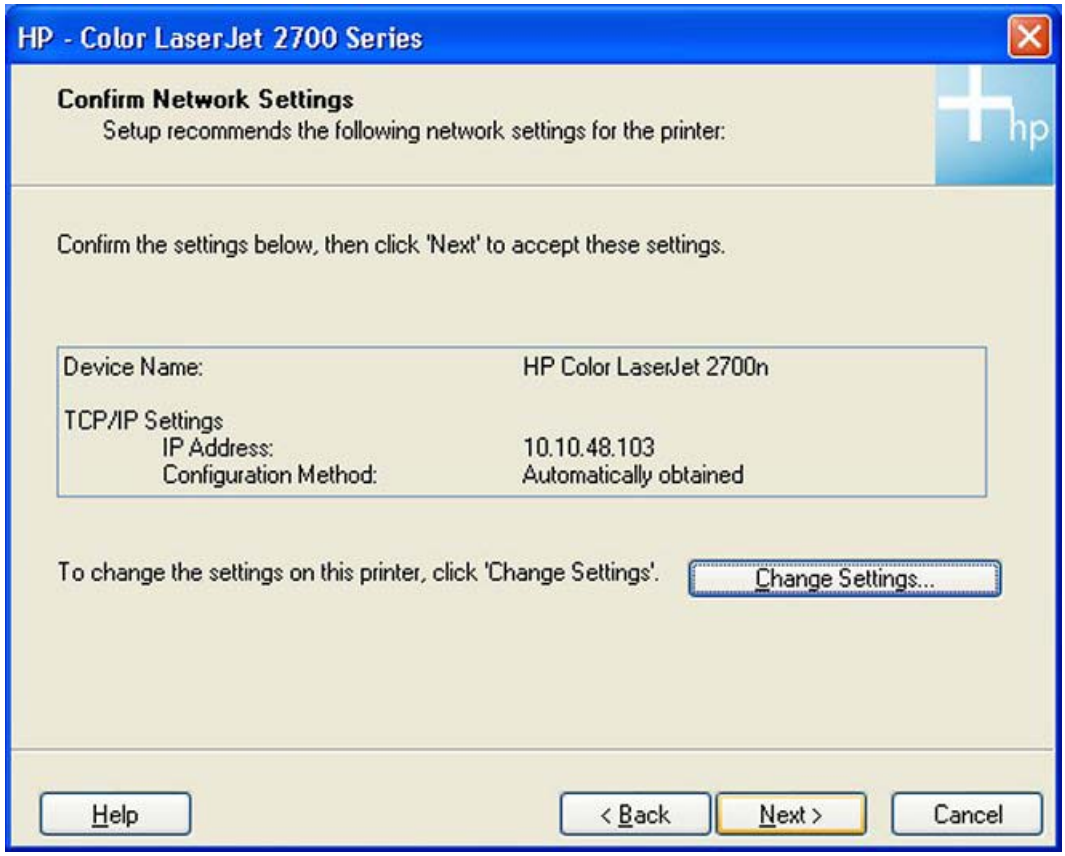


Figure 3-19 Step 19 - Confirm Network Settings dialog box

Click **Next** to go to the **Installing** dialog box (step 20).

Click **Change Settings** to change the network settings.

Click **Help** to start the online Help system.

Click **Back** to return to the **Printer Found** dialog box (step 18).

Click **Cancel** to go to the **Cancel** dialog box (step 2).

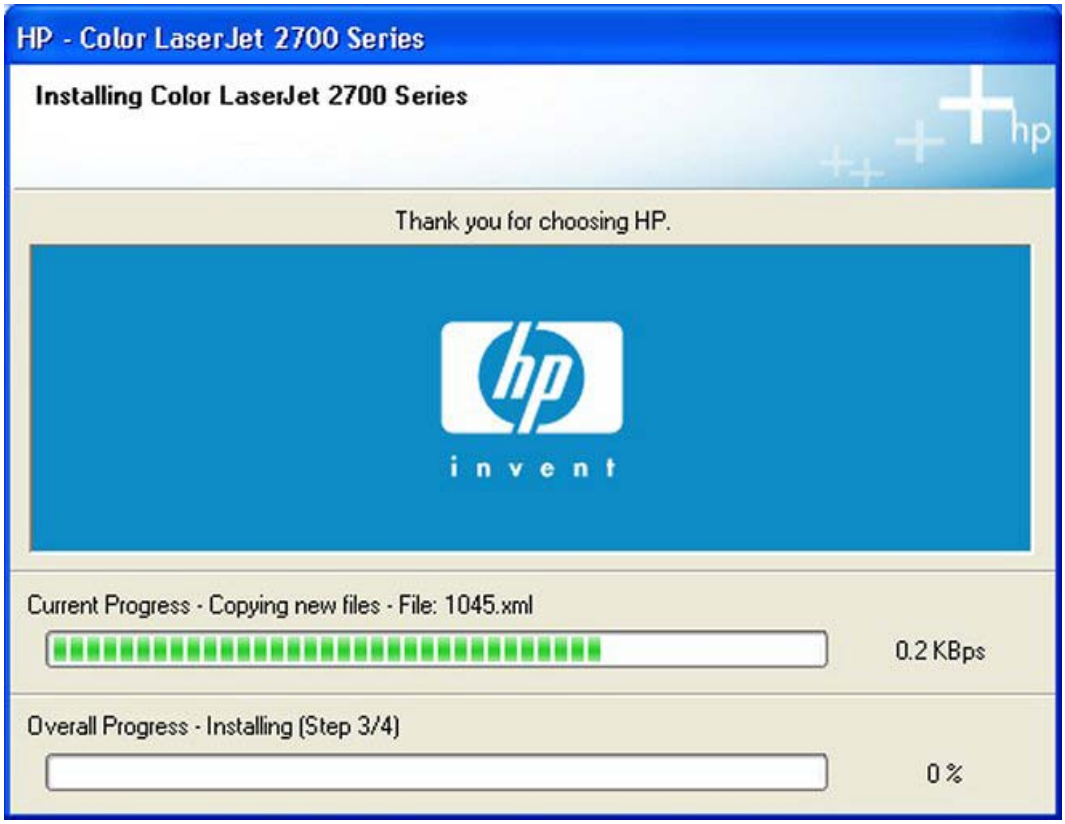


Figure 3-20 Step 20 - **Installing** dialog box

As the files install, the status bars change to show the installation progress. When installation is complete, the **Software installation complete** dialog box appears (step 21).

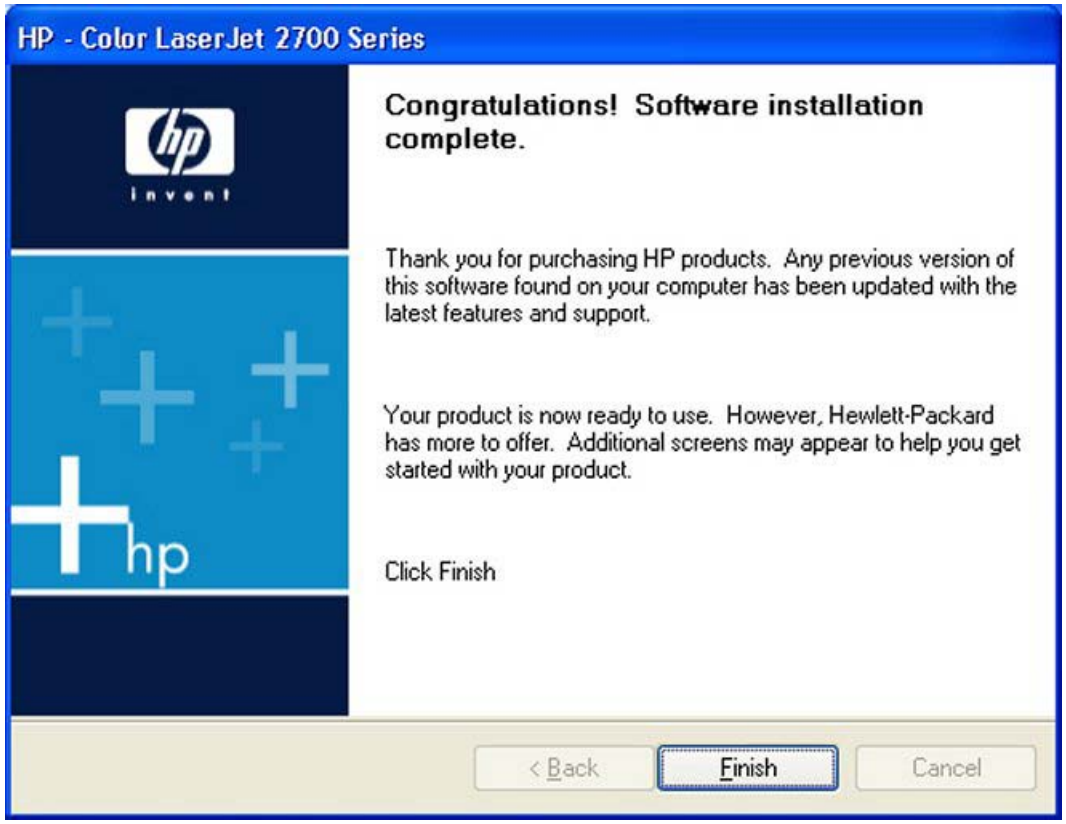


Figure 3-21 Step 21 - **Software installation complete** dialog box

Click **Finish** to complete the installation and the **Test Page** dialog box appears (step 22).

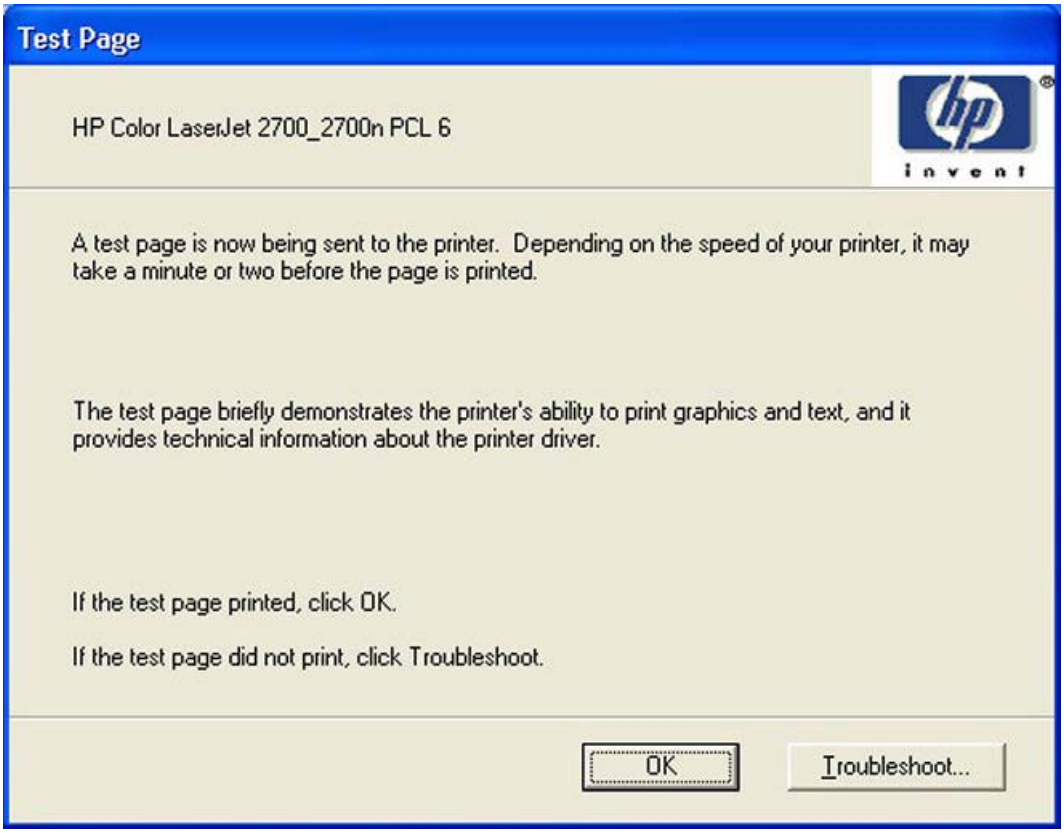


Figure 3-22 Step 22 - **Test Page** dialog box

Click **Troubleshoot** for help if the test page did not print .

Click **OK** to close the installer. When the installer closes, the **Sign up now** Web page appears (step 23).

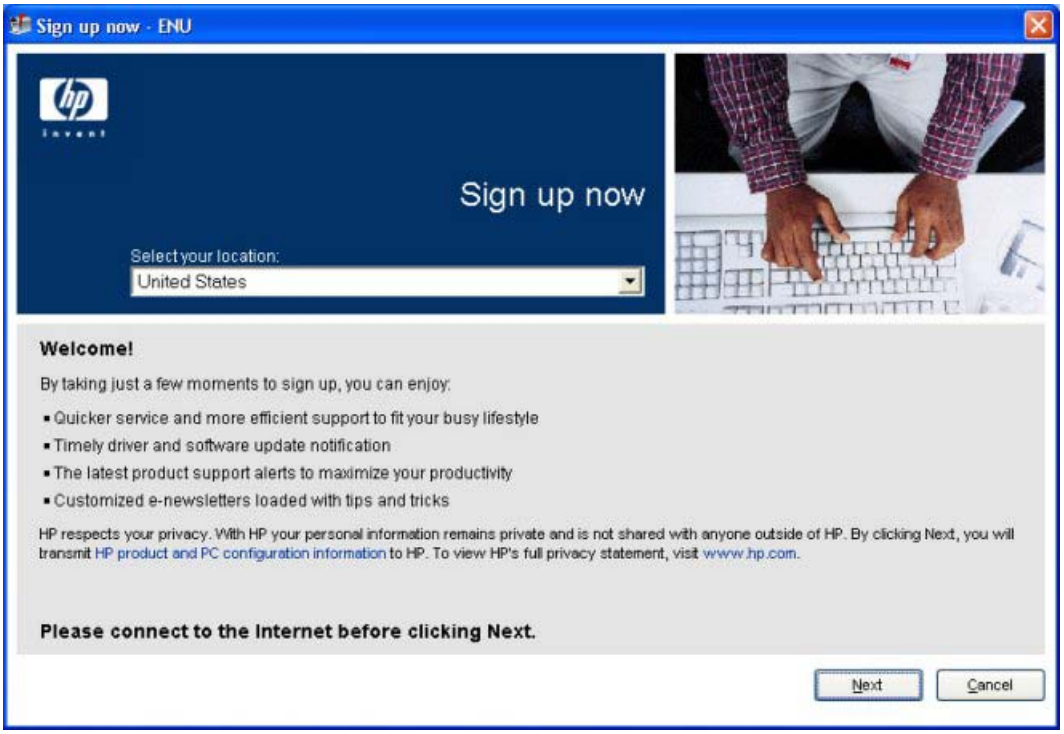


Figure 3-23 Step 23 - **Sign up now** screen

To begin the process of registering your HP Color LaserJet 2700 printer with HP, select your country/region in the **Select your location** drop-down box. Then click **Next** to continue the registration process on the **Registration** screen (step 24).

Click **Cancel** to go straight to **Congratulations** screen (step 25), which completes your installation of the HP Color LaserJet 2700 printing-system software without registering it with HP at this time.

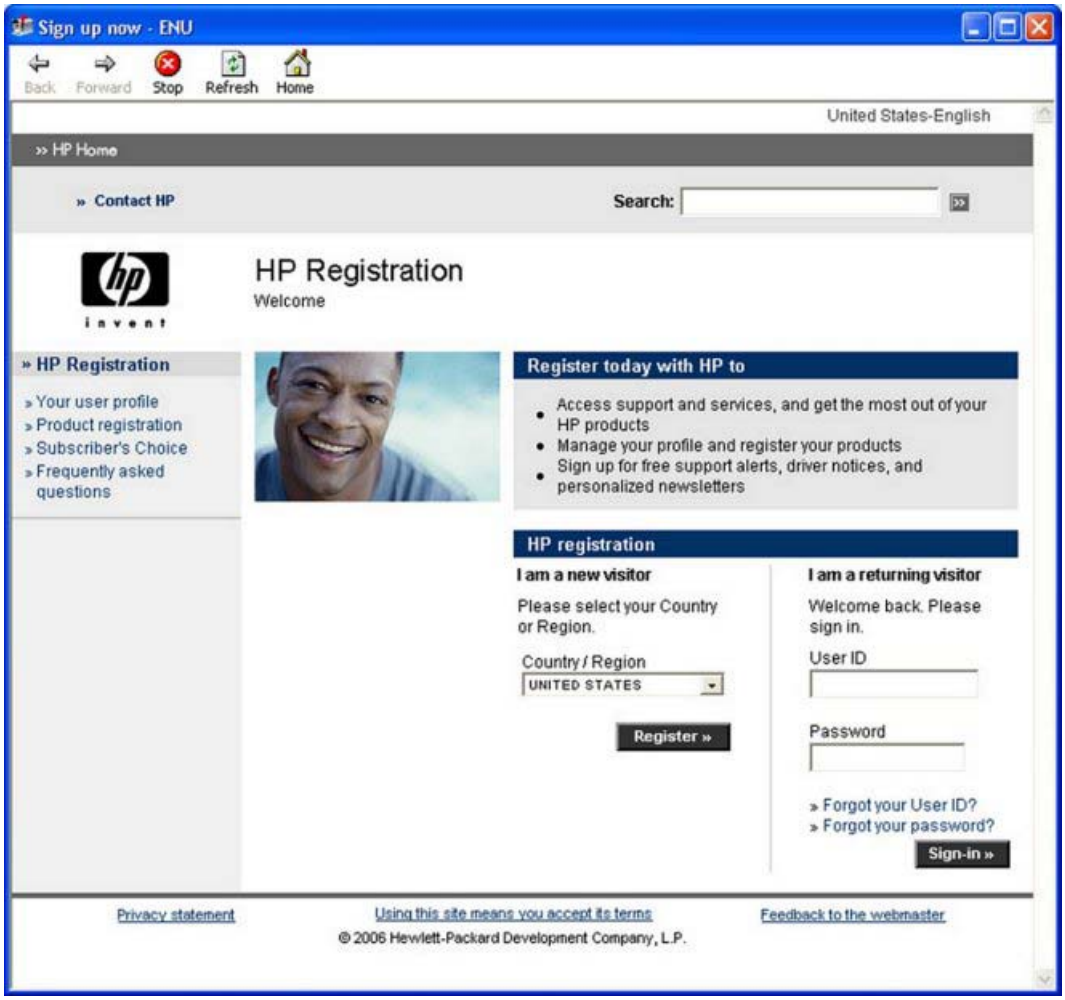


Figure 3-24 Step 24 - **Register Product** dialog box

Select the location from the drop-down menu and then click **Register**. Follow the on-screen directions to complete the registration of the HP Color LaserJet 2700 printer. After completing the registration process, the **Congratulations** dialog box appears (step 25).

If you do not want to register your HP Color LaserJet 2700 printer at this time, click the red box in the upper right-hand corner to close the **Register Product** Web page. The **Congratulations** dialog box appears (step 25).

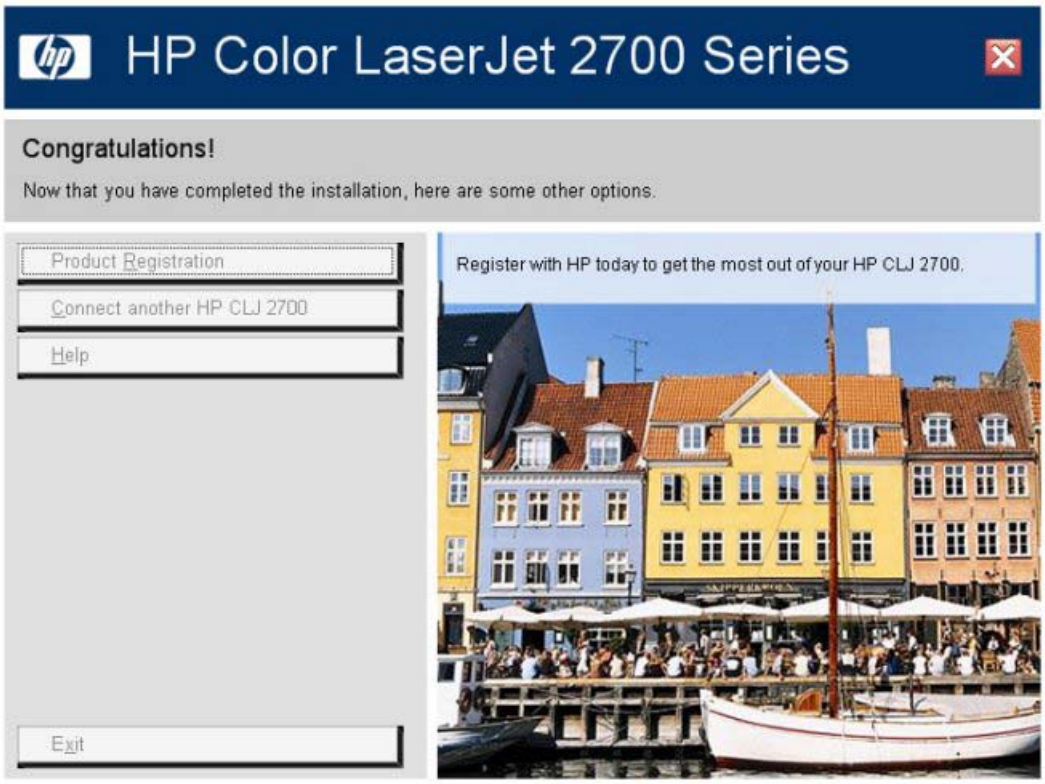


Figure 3-25 Step 25 - **Congratulations** dialog box

When this screen appears, the HP Color LaserJet 2700 printer software is fully installed. Select **Exit** at the bottom of the screen to close the installer window, or select another screen option.

Click **Product Registration** for another opportunity to register the HP Color LaserJet 2700 printer on the HP Web site.

Click **Connect another HP CLJ 2700** to connect another HP Color LaserJet 2700 printer to the computer.

Click **Help** to launch the online Help system.

4 HP PCL 6 and PS emulation unidrivers for MS Windows

Introduction

The HP Color LaserJet 2700 printer includes the following drivers: the HP PCL 6 Unidriver, the HP PCL 6 Black and White Driver, and the PS Emulation Unidriver.

- Access to drivers
- Help system
- HP Postscript 3 Emulation Unidriver support
- Advanced tab features
- Paper/Quality tab features
- Effects tab features
- Finishing tab features
- Color tab features (HP PCL 6 Unidriver and PS Emulation Unidriver only)
- Services tab features
- Device Settings tab features
- About tab features

Access to drivers

To access the 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.

Other drivers can also be controlled directly from the **Printers** folder. These settings change the default settings used across all software programs.

- In Microsoft Windows 2000, click **Start**, click **Settings**, click **Printers**, and right-click the printer name. From the drop-down popup list that appears, select **Printing Preferences** to access the same set of driver tabs that the software program controls.
- In Microsoft Windows XP, click **Start**, click **Printers and Faxes** (Microsoft Windows XP Professional) or click **Printers and Other Hardware Devices** (Microsoft Windows XP Home). From the drop-down popup list that appears, select **Printing Preferences** to access the same set of driver tabs that the software program controls.

After right-clicking the printer name, select **Properties** instead of **Printing Preferences** to access a different set of tabs that control the driver behavior and driver connections. For information about the **Properties** tabs, see the following sections.

Printing Preferences driver tabs

The **Printing Preferences** driver tabs change the default settings that are used across all software programs. Access the **Printing Preferences** tabs by clicking **Start** and then follow the next steps according to which version of Microsoft Windows is installed.

- For Microsoft Windows 2000, click **Settings**, click **Printers**, right-click the printer name, and then select **Printing Preferences**
- For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**, right-click the printer name, and then select **Printing Preferences**.
- For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**, right-click the printer name, and then select **Printing Preferences**.

The following **Printing Preferences** tabs are available:

- **Advanced**
- **Paper/Quality**
- **Effects**
- **Finishing**
- **Color**
- **Services**

Properties driver tabs

The **Properties** driver tabs control the driver behavior and driver connections. To open the **Properties** tabs, click **Start** and then proceed according to which version of Microsoft Windows is installed.

- For Microsoft Windows 2000, click **Settings**, click **Printers**, right-click the printer name, and then select **Properties**.
- For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**, right-click the printer name, and then select **Properties**.
- For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**, right-click the printer name, and then select **Properties**.

The following **Properties** tabs are available:

- **General**
- **Sharing**
- **Ports**
- **Advanced**
- **Color Management**
- **Security**
- **Device Settings**
- **About**

The **Device Settings** and **About** tabs are HP driver tabs and are described in this guide. The other **Properties** tabs are Microsoft Windows tabs. For information about those tabs, see the documentation that came with the computer.

Help system

The HP PCL 6 Unidriver, the HP PCL 6 Black and White Driver, and the PS Emulation Unidriver include a full-featured Help system to provide assistance with printing and configuration options. The following Help options are available.

- “What's this?” Help
- Context-sensitive Help
- Constraint messages

“What's this?” Help

"What's this?" Help is supported in Microsoft Windows 2000 and Microsoft Windows XP. Access the "What's this?" Help messages in any of the following ways:

- Right-click a control button on a screen. For example, on the **Properties** tab screen, right-click either the **Printing Preferences** control or the **Print Test Page** control. A small **What's this?** box appears. Right-click on the **What's this?** box and a pop-up Help window appears.
- Click the **?** button in the upper-right corner of the screen frame, next to the **X**, to change the cursor to an arrow with a question mark. Use this special cursor to select a control, and the pop-up Help window for that feature appears.
- Press the F1 key, and the Help window for the currently selected control appears.

Context-sensitive Help

Click the **Help** button on a driver tab or in a dialog box, and context-sensitive Help appears.

Constraint messages

Constraint messages are unsolicited messages that appear in response to specific actions that are illogical or impossible given the capabilities of the printer or the current settings of other controls. For example, if you click **Print on Both Sides** and then change the paper type to **Transparency**, a message appears with options on how to resolve this conflict.

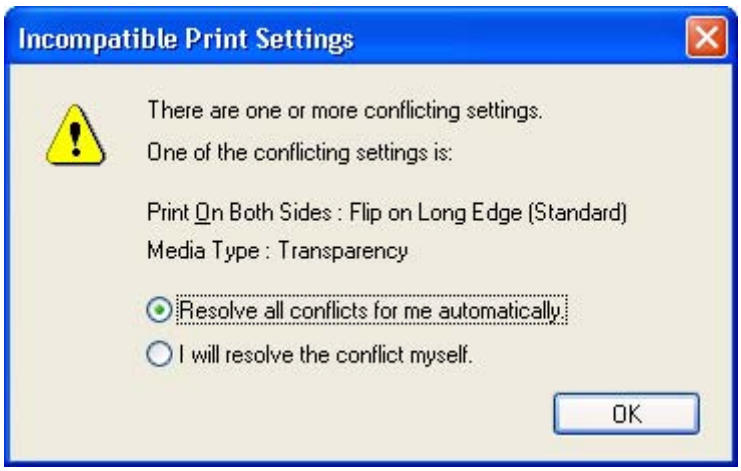


Figure 4-1 A typical constraint message

Whenever a constraint message appears with **Resolve all conflicts for me automatically** or **I will resolve the conflict myself** buttons, the action of the buttons is as follows:

- To reject the change that was just made, returning the control to its previous value, click **Resolve all conflicts for me automatically** and then click **OK**.
- To accept the change that was just made, click **I will resolve the conflict myself** and then click **OK**. This brings back the driver settings where the user can resolve the conflict.

HP Postscript 3 Emulation Unidriver support

The HP postscript 3 emulation maintains full compatibility with Adobe PS level 3 when PS level 3 soft fonts are purchased from Adobe.

Users of Adobe-licensed software might also have the right to use the Adobe PS level 3 print drivers from Adobe with the HP LaserJet printer Postscript level 3 emulation PPD. These drivers are available on the HP LaserJet printer software CD or from the HP Web site. Use of the Adobe PS level 3 print driver requires compliance with all Adobe licensing agreements, as stated on the Adobe Web site at www.adobe.com/support/downloads/license.html.

Advanced tab features

Follow these steps to access the **Advanced** tab.

1. Click **Start** and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings**, and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then select **Printing Preferences**.
3. Click the **Advanced** tab.

Use the **Advanced** tab to change the layout of printed pages, to configure special controls that are not commonly used, and to change other settings such as the media size and number of copies. Many software programs also enable control of some **Advanced** tab features when accessed through the print dialog box or page settings.

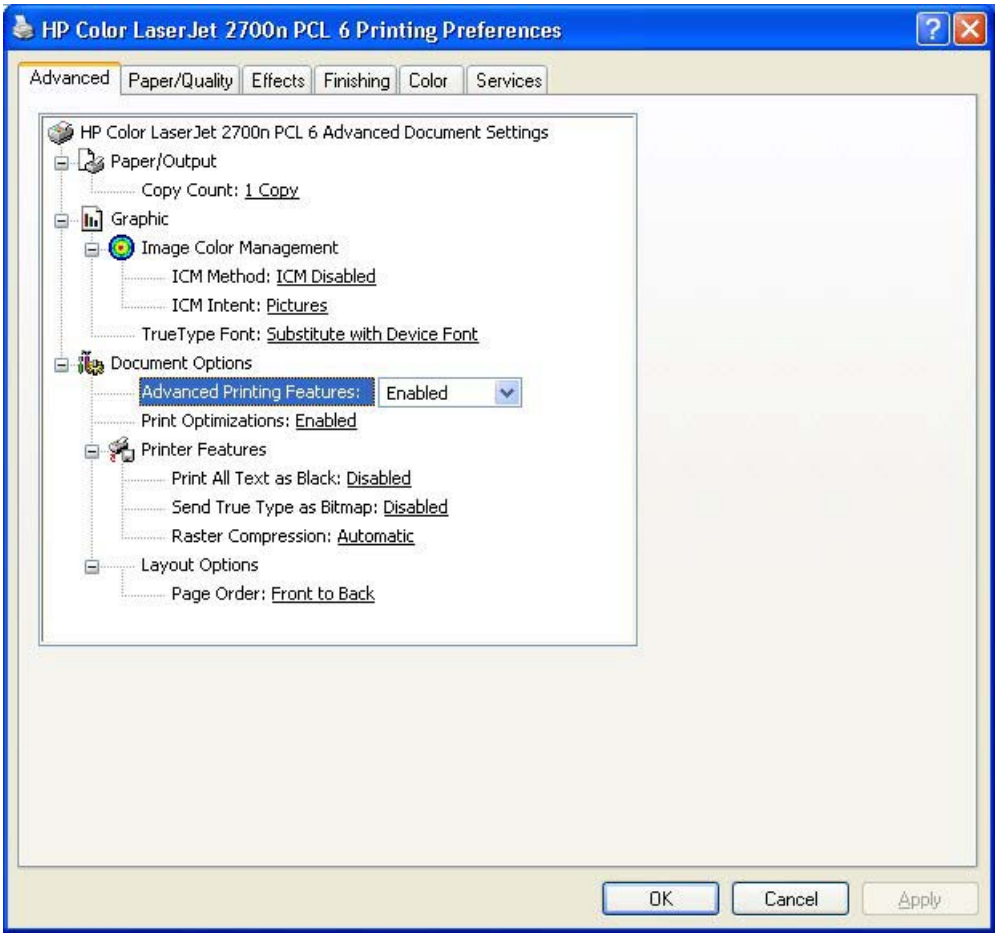


Figure 4-2 **Advanced** tab – HP PCL 6 Unidriver

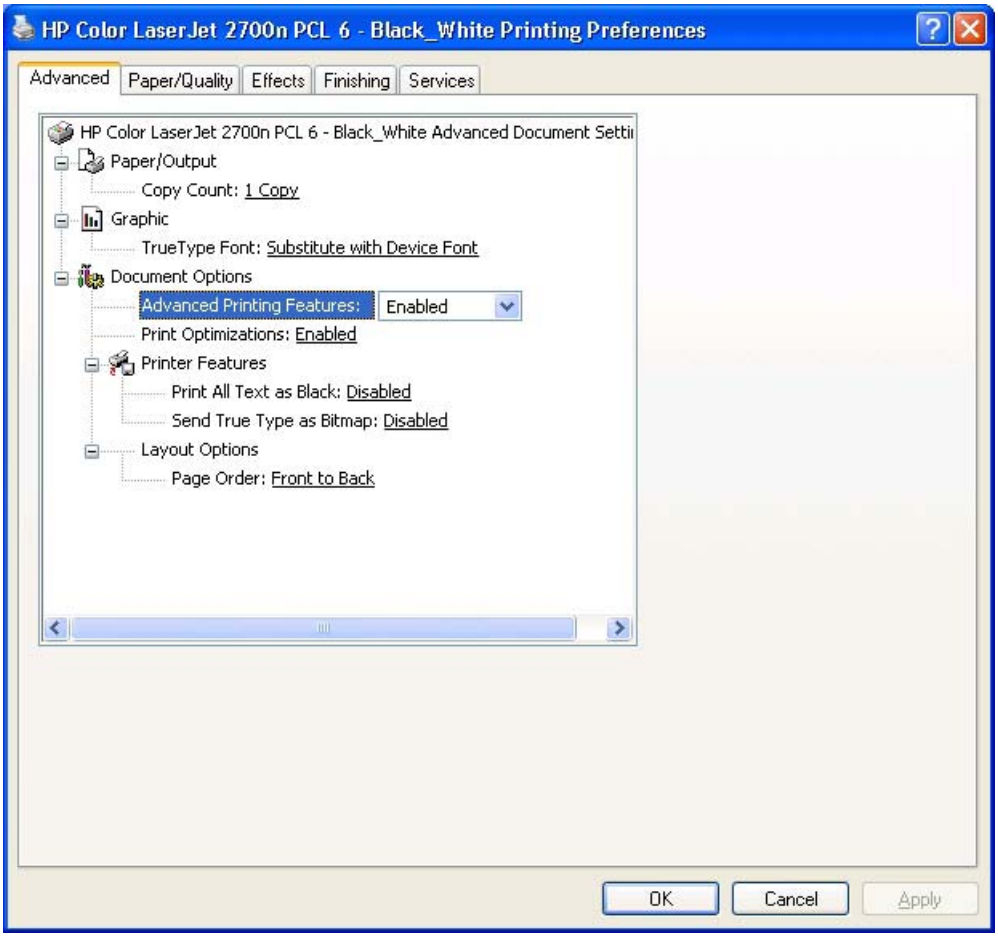


Figure 4-3 **Advanced** tab – HP PCL 6 Black and White Driver

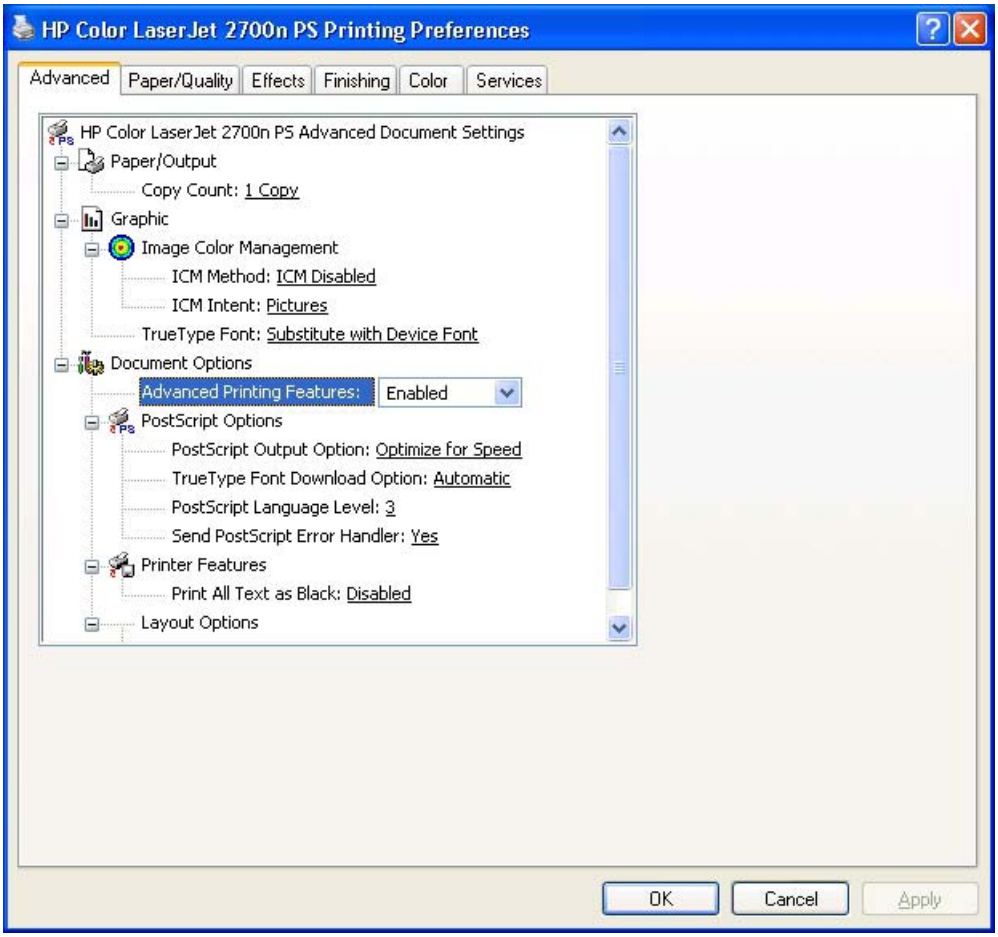


Figure 4-4 **Advanced** tab – PS Emulation Unidriver

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

- **Paper/Output** settings
- **Graphic** settings
- **Document Options** settings

Paper/Output settings

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

Copy Count setting

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 requested number of copies appears in the **Copy Count** option. Select the number by typing in the box or by using the up and down arrows on the right side of the text box. For the HP Color LaserJet 2700 printer, 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 edit box (such as non-numerical input, numbers less than 1, or numbers greater than 9999) change to the last valid value that appeared in the box. The default number of copies is 1.

Problems can develop when a software program and the driver it is running on both allow the user to set the number of copies to print. In most cases, the software program and the driver communicate, so that the number of copies set in one location (such as the program) appears in the other (such as the driver). For some software programs, this communication does not take place, and the copies values are treated independently. For example, setting 10 copies in the program and then setting 10 copies in the driver might result in the printer making 100 copies (10 x 10). Set the number of copies in the software program, whenever possible.

Graphic settings

The **Graphic** settings contain the following controls.

- **Image Color Management** settings (HP PCL 6 Unidriver and PS Emulation Unidriver only)
- **TrueType Font** settings

Image Color Management settings (HP PCL 6 Unidriver and PS Emulation Unidriver only)

Image Color Management (ICM) options are used for printing color graphics. The ICM options make it possible for programs to adjust colors before printing so that the color of images on the screen more closely matches the color of printed images. The following options are available:

- **ICM Method**. The ICM Method setting specifies how to print color graphics. The default setting for **ICM Method** is **ICM Disabled**. Additional options on the **ICM Method** drop-down menu include:
  - **ICM Handled by Host System**. Click this option to perform calculations for color matching on the host computer before sending the document to the printer.
  - **ICM Handled by Printer**. Click this option to perform calculations for color matching on the printer. A set of rules for mapping the colors is created and downloaded to the printer (which must be PostScript language level 2 or higher). The printer uses these rules to adjust colors in the document.
- **ICM Intent**. The ICM Intent setting specifies how color images are created to produce the best-looking image on the printed page.
  - If printing a chart or using fully saturated, bright colors, click **Graphics** to achieve the best quality.
  - For photographs or pictures where the colors blend together, click **Pictures** to maximize the contrast.
  - If the document uses a color that you need to match exactly, and you are sending the document to a printer that has that specific color of ink, click **Proof**.
  - To preview the color settings from another printer, click **Match**.

TrueType Font settings

This option specifies the TrueType font settings. The following settings are available:

- **Substitute with Device Font**. This setting causes the printer to use equivalent fonts for printing documents that contain TrueType fonts. This permits faster printing; however, special characters that the printer font does not support might be lost. This is the default setting.
- **Download as Softfont**. This setting causes TrueType fonts to be downloaded and used for printing, instead of the fonts installed through the printer.

Document Options

The **Document Options** settings contain the following controls:

- Advanced Printing Features
- Print Optimizations (HP PCL 6 Unidriver and HP PCL 6 Black and White Driver only)
- PostScript Options (PS Emulation Unidriver only)
- Printer Features
- Layout Options

Advanced Printing Features

When the **Advanced Printing Features** setting is **Enabled**, metafile spooling is turned on and the**Finishing** tab options such as **Page Order**, **Booklet Layout**, and **Pages per Sheet** are available, depending on the printer. For normal printing, leave the **Advanced Printing Features** setting at the default (**Enabled**). If compatibility problems occur, disable the feature. However, some advanced printing features might still be available in the print driver, even if 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 turned on again.

Print Optimizations (HP PCL 6 Unidriver and HP PCL 6 Black and White Driver only)

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

PostScript Options (PS Emulation Unidriver only)

The following PostScript options appear in the PS Emulation Unidriver:

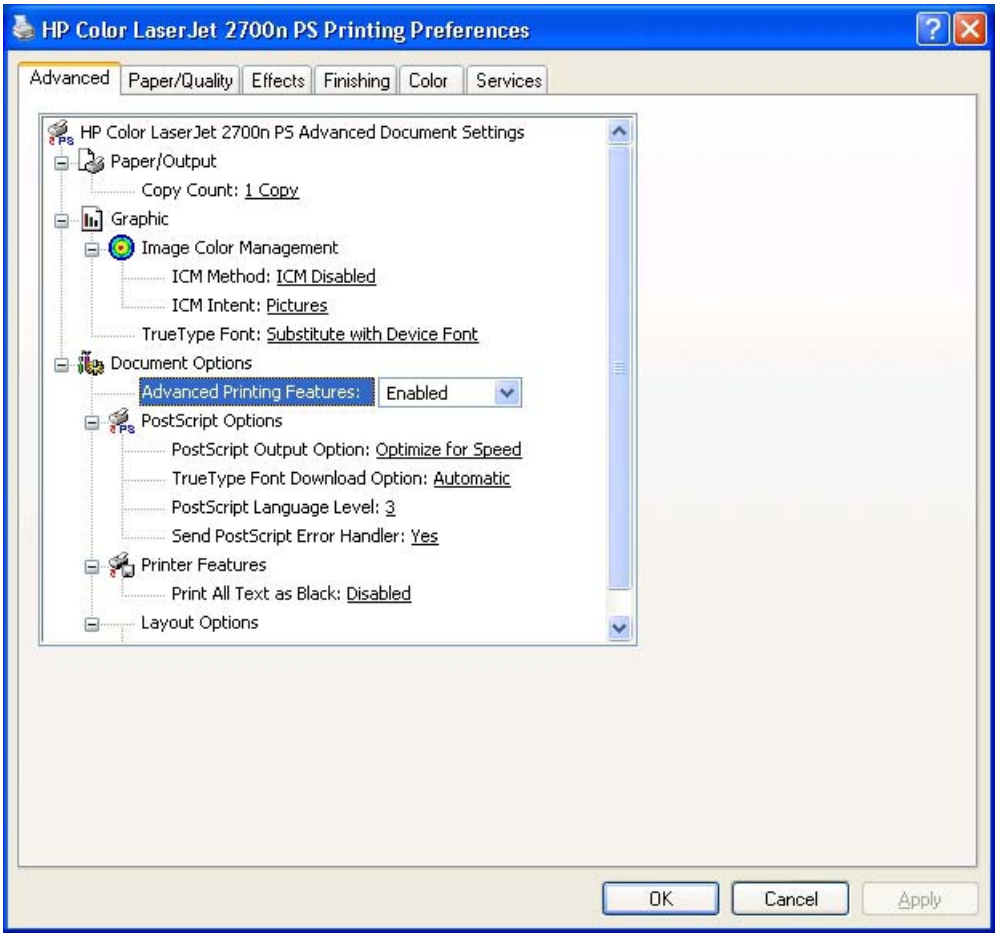


Figure 4-5 **Advanced** tab - PS Emulation Unidriver - PostScript Options

- **PostScript Output Option**
- **TrueType Font Download Option**
- **PostScript Language Level**
- **Send PostScript Error Handler**

PostScript Output option

The **PostScript Output Option** specifies the output format for PS files. Generally, use the default setting, **Optimize for Speed**, to print the documents.

To create a file that conforms to the Adobe Document Structuring Conventions (ADSC), click **Optimize for Portability**. Each page of the document will be a self-contained object. This is useful when creating a PS file and print it on a different printer. To include the file as an image in another document that is printed from a different software program, click **Encapsulated PostScript (EPS)**. The **Archive Format** creates a PS file that can be used later.

TrueType Font Download option

The **TrueType Font Download Option** specifies how TrueType fonts are downloaded. The default setting of **Automatic** allows the PS driver to decide which format is best.

- To download the TrueType font as a scalable outline font, click **Outline**.
- To download the TrueType font as a bitmap font, click **Bitmap**.
- If the printer is a TrueType rasterizer printer, click **Native TrueType** to download the TrueType font as an outline font.

PostScript Language Level

The **PostScript Language Level** option specifies which PS language level to use, from 1 to 3. The highest level supported by the HP Color LaserJet 2700 is 3, and this is the default setting. Some printers support multiple levels.

It is usually best to select the highest number available, because a higher language level provides more features. In some instances level 1 should be used, such as when printing a file to disk, and that file will be printed by someone who uses a level-1 printer.

Send PostScript Error Handler

The **Send PostScript Error Handler** setting specifies whether a PS error-handler message is sent. To get the printer to print an error page when an error occurs in the print job, click **Yes**. The default setting is **Yes**.

Printer Features

The following **Printer Features** are available:

- Print All Text as Black
- Send TrueType as Bitmap (HP PCL 6 Unidriver and HP PCL 6 Black and White Driver only)
- Raster Compression (HP PCL 6 Unidriver only)

Print All Text as Black

The **Print All Text as Black** 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. **Print All Text as Black** remains enabled only for the current print job. When the current print job is completed, **Print All Text as Black** is automatically disabled.

Send TrueType as Bitmap (HP PCL 6 Unidriver and HP PCL 6 Black and White Driver only)

Send TrueType as Bitmap provides an alternative for those software programs that encounter problems when TrueType fonts are used for special graphic purposes such as shading, rotation, or slanting. The setting is **Disabled** (off) by default. The TrueType fonts are first converted to bitmap soft fonts before downloading. The **Enabled** setting causes the driver to send TrueType fonts to the printer as outlines, which retains the standard format (outline) of the fonts.

Raster Compression (HP PCL 6 Unidriver only)

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

- **Automatic**. The software determines the best compression method to use.
- **Best Quality**. Forces the software to use a lossless compression method. (Lossless means that no data is lost during compression.)
- **Maximum Compression**. Where applicable, requires the software to always use a lossy compression method (some data is lost). Choosing this option increases the print speed performance, but does decrease print image quality.

Layout Options

The **Layout Options** setting offers different ways of setting up the **Page Order**.

The **Front to Back** option prints the document so that page 1 prints first. By selecting **Back to Front**, the document prints so that page 1 prints last. The **Back to Front** setting is useful to achieve output in the correct order when printing to a face-up page output bin.

NOTE The page-ordering operation works on whole sheets of paper rather than on individual logical pages. Accordingly, if by setting **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.

Paper/Quality tab features

Follow these steps to access the **Paper/Quality** tab.

1. Click **Start** and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings**, and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then select **Printing Preferences**.
3. Click the **Paper/Quality** tab.

Use the **Paper/Quality** tab to specify the size, type, and source of the media for the HP Color LaserJet 2700 printer. Also use this tab to indicate different paper-selection choices for the first page, other pages, and back cover of the document.

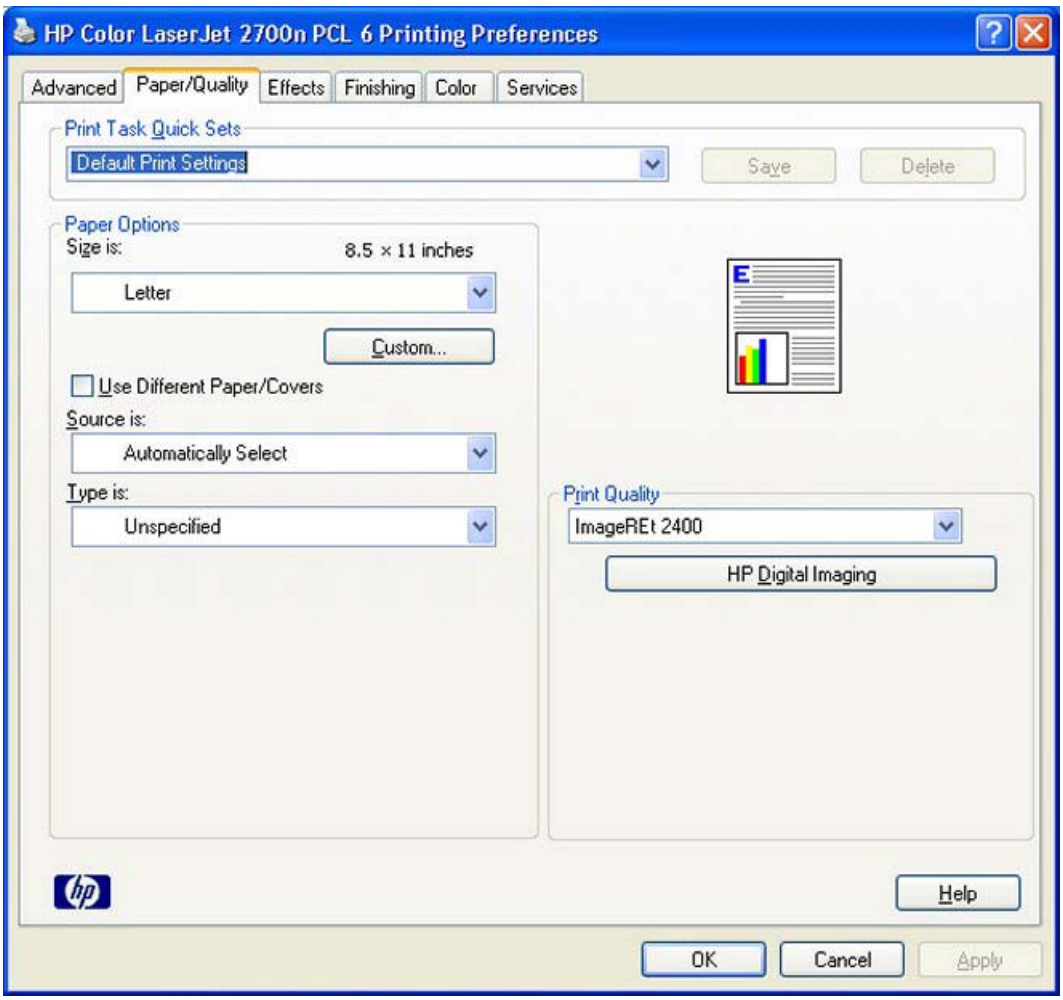


Figure 4-6 **Paper/Quality** tab – HP PCL 6 Unidriver

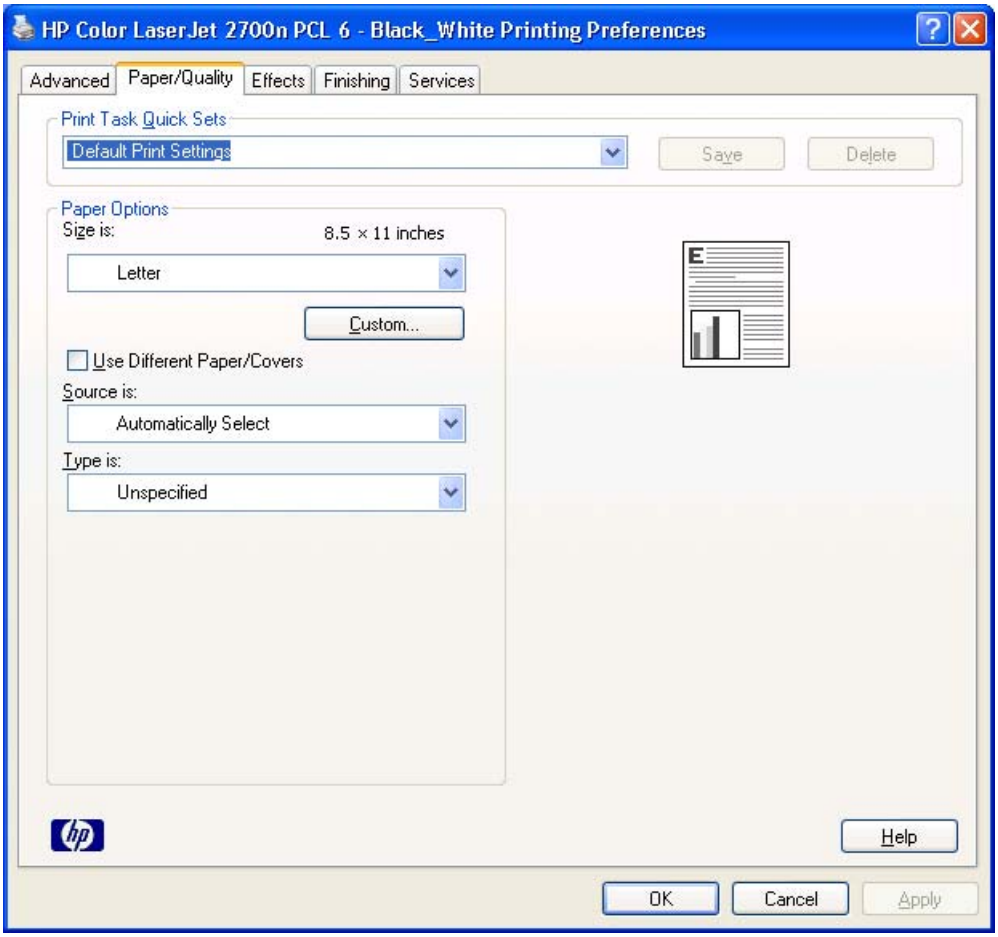


Figure 4-7 **Paper/Quality** tab – HP PCL 6 Black and White Driver

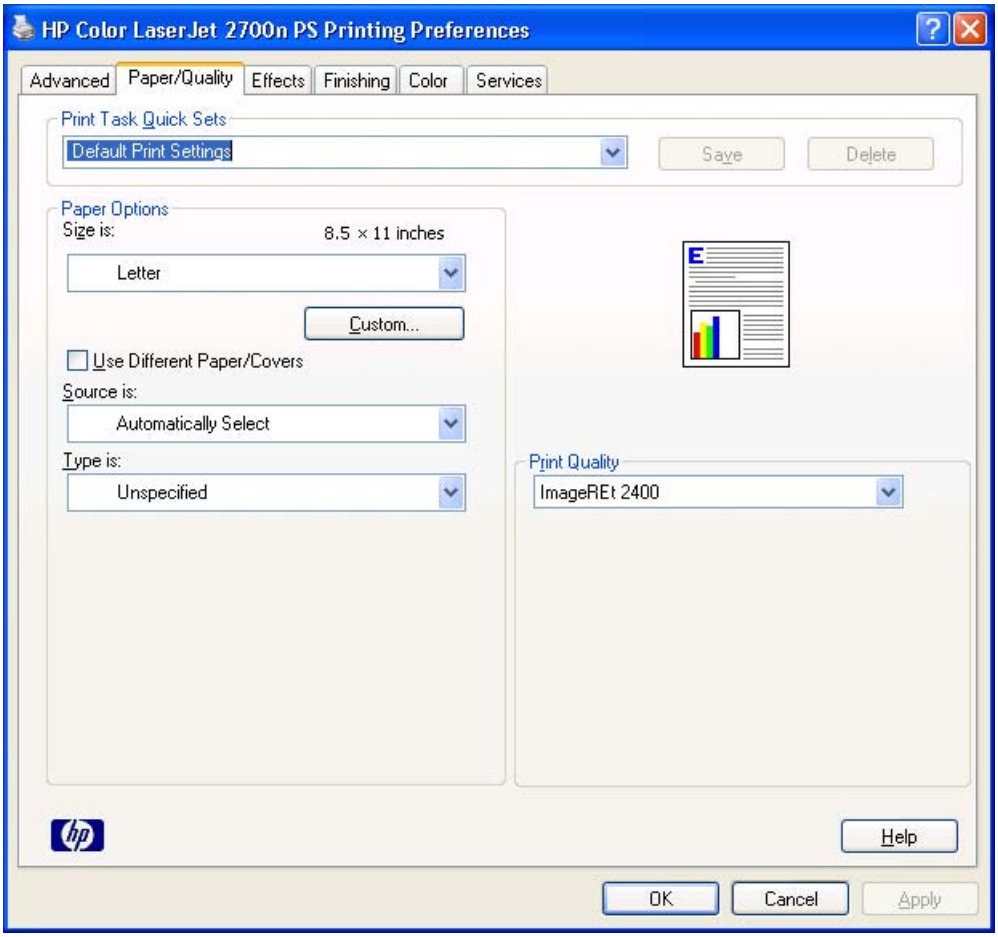


Figure 4-8 **Paper/Quality** tab – PS Emulation Unidriver

The **Paper/Quality** tab contains the following controls:

- Print Task Quick Sets
- Paper Options group box
- Document preview image
- Print Quality group box (HP PCL 6 Unidriver and PS Emulation Unidriver only)

Print Task Quick Sets

The first group box in the upper portion of the **Paper/Quality** tab is **Print Task Quick Sets**. Because they are all the same control, any change to the **Print Task Quick Sets** group box that is made on the **Paper/Quality** tab affects all the **Printing Preferences** driver tabs that have the **Print Task Quick Sets** setting:

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

NOTE The Print Task Quick Sets tabs are *not* available through the **Advanced** and **Services** tabs. The **Print Task Quick Sets** setting also does *not* appear on the driver tabs in the **Properties** section (which can be accessed by right-clicking on the HP Color LaserJet 2700 icon after clicking the **Start** button and the **Printers** option for the specific Microsoft Windows version installed on the computer).

Use the **Print Task Quick Sets** setting to store the current combination of driver settings. **Print Task Quick Sets** are either preset by network-administrator settings or user-defined printing specifications (such as media size, pages per sheet, and so on).

The following selections are available in the **Print Task Quick Sets** drop-down menu:

- **Default Print Settings**
- **User Guide Print Settings**
- **Type a new Quick Set name here**

Default Print Settings

By selecting **Default Print Settings**, nearly all of the settings are restored to the combination that existed after the driver was installed (the original settings). However, if the attribute combinations that are associated with watermark definitions, custom paper sizes, or the **User Guide Print Settings** quick set have been changed or deleted, the original settings are *not* restored.

Type a new Quick Set name here appears in the **Print Task Quick Sets** menu automatically if no other driver settings have been changed since the driver was installed, or if all of the driver settings match the original settings. Otherwise, the setting in the **Print Task Quick Sets** menu is the same label that appeared when a computer user last closed the printing **Properties** dialog box by clicking **OK**.

User Guide Print Settings

The **User Guide Print Settings** option provides a **Print Task Quick Sets** for optimal printing of the *HP Color LaserJet 2700 Series User Guide*.

Type new Quick Set name here

By default, the **Print Task Quick Sets** menu is set to **Type new Quick Set name here**. To change a default setting on any of the **Printing Preferences** driver tabs and save the configuration as a Print Task Quick Set, highlight the words **Type new Quick Set name here**, type the name for the new Print Task Quick Set, and then click **Save**. Print Task Quick Sets are saved in the system registry. To delete a Print Task Quick Set, select it from the drop-down menu and click **Delete**.

NOTE Administrators can predefine Print Task Quick Sets for their users. These administrator Print Task Quick Sets are defined on the server and are available to users, but usually cannot be modified by users. Users can also define Print Task Quick Sets for their own use. User-defined Print Task Quick Sets are described later in this section.

A maximum of 25 **Print Task Quick Sets** can be stored on a particular system. If you attempt to save too many, a message appears: **There are too many Print Task Quick Sets defined. Please delete some before adding new ones.**

Paper Options group box

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 4-9 **Paper Options** group box

The appearance of the **Paper Options** group box changes when the **Use Different Paper/Covers** check box is selected. The following settings in the **Paper Options** group box are available:

- Size is: drop-down menu
- Source Is: drop-down menu
- Type is: drop-down menu
- Use Different Paper/Covers options

Size is: drop-down menu

The **Size is:** drop-down menu lists all of the supported media sizes.

Specify size for all the settings in the **Paper Options** group box. Use the same size of media for the entire print job. That is, if the print job uses Letter-size media, any option selected from the available **Use Different Paper** options must also use Letter-size media.

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

For the **Other Pages** and **Back Cover** settings, you can select a source (tray) and media type that differ from the settings selected for **First Page**. If a conflict exists among media source, media size, and media type, and the conflicting settings are kept, the settings are processed in the following order: media size, media type, and then media source.

The media-size settings in most software programs override the driver settings. For this reason, use the driver to set media size only when printing from software programs that do not have a media-size setting, such as NotePad, or when producing a book or a booklet that does not require different media sizes.

NOTE When using a software program with a media-size setting, specify different media sizes within a single document by accessing features in the **Use Different Paper/Covers** setting. For more information, see Use Different Paper/Covers options.

Follow these steps to create a custom paper size.

1. Click **Start**, and then click one of the following:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional or Microsoft Windows Server 2003, click **Printers and Faxes**
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Click the **File** menu, **Server Properties**, and then the **Create a new form** check box.
3. Specify a name and paper size dimensions, and then click **Save Form**.

This new paper size is included in any list of paper sizes in the driver and application tabs. The print dialogs for various software programs also often have settings that allow the creation of custom paper sizes.

Use Different Paper/Covers check box

When the **Use Different Paper** check box is selected and different options are configured, the **Size is:**, **Source is:**, and **Type is:** menus change, offering a variety of options. For more information, see Use Different Paper/Covers check box.

Source Is: drop-down menu

Use the **Source is:** drop-down menu to specify the source tray to use for printing a document. The list of source trays depends on the printer accessories. Any optional source trays that are installed through the **Device Settings** tab also appear here.

The **Source is:** drop-down menu can contain the following options:

- **Automatically select**
- **Printer Auto Select**
- **Manual Feed in Tray 1**
- **Tray 1**
- **Tray 2**
- **Tray 3** (optional 500-sheet tray)

The default setting is **Automatically Select**, which makes the printer use the source tray that is loaded with the right size of paper for the media size selected. If another source tray is selected other than **Automatically select**, make sure that the correct media size is loaded in the source tray.

Type is: drop-down menu

The **Type is:** drop-down menu shows all the paper types that the HP Color LaserJet 2700 printer supports. The default setting, **Unspecified**, results in the printer using the default media type, which is usually **Plain**.

The following standard paper types appear in the lists.

Table 4-1 Standard paper types and engine speeds

Paper type	Engine speed
Unspecified	Full
Plain	Full
Preprinted	Full
Letterhead	Full
Transparency	Half speed (5 ppm)
Prepunched	Full
Labels	Half speed (5 ppm)
Bond	Half speed (5 ppm)
Recycled	Full
Color	Full
Light (60 to 75 g/m^2)	Full
Cardstock (Tray 1 only; 164 to 220 g/m^2)	Half speed (5 ppm)
Gloss (106 to 120 g/m^2)	Half speed (5 ppm)
Tough Paper	Half speed (5 ppm)
Envelope (Tray 1 only)	Half speed (5 ppm)
Rough	Half speed (5 ppm)
Heavy (105 to 120 g/m^2)	Half speed (5 ppm)
Intermediate (90 to 104 g/m^2)	Half speed (5 ppm)
Extra Heavy (Tray 1 only; 120 to 163 g/m^2)	Half speed (5 ppm)
HP Cover (200 g/m^2)	Half speed (5 ppm)
HP Color Laser Paper, Matte (200 g/m^2)	Half speed (5 ppm)
HP Color Laser Paper, Glossy (220 g/m^2)	Half speed (5 ppm)

The default setting is **Unspecified**, and the program selects the media type. Before selecting a different setting, make sure that the correct media type is loaded in the tray that is specified in the **Source is:** setting.

Use Different Paper/Covers options

Print books that include different media types by using the **Use Different Paper/Covers** options.

When the **Use Different Paper/Covers** check box is selected, the following settings can appear in the group box, along with associated options:

- **Front Cover**
- **First Page**
- **Other Pages**
- **Last Page**
- **Back Cover**

To access **Use Different Paper/Covers** options, configure the setting for the print job. Each option for the **Use Different Paper/Covers** setting is described in the sections that follow this procedure. Use the following instructions to configure the setting.

To configure the Use Different Paper/Covers options for a print job

For each option, set a different tray by using the **Source Is:** drop-down menu. For some options, the **Type is:** drop-down menu is also available.

1. To use different paper or cover stock, select the **Use Different Paper/Covers** check box. A list of options appears in the dialog box. The full set of selections is visible when using the down arrow button to the right of the list to scroll.

2. To use different media for the pages within the print job, select the appropriate option (**Front Cover**, **First Page**, **Other Pages**, **Last Page**, or **Back Cover**) in the dialog box. A check mark appears to the left of the option when a setting is changed by using the **Source is:** or **Type is:** drop-down menus.

3. Click **OK** to print.

NOTE Use the same size of media for the entire print job. All **Use Different Paper/Covers** options default to the most recent size selected in the **First Page** settings.

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

Each option for the **Use Different Paper/Covers** setting is described in the following sections, in the order they appear in the pane below the **Use Different Paper/Covers** check box.

Front Cover and Back Cover options

Use these options to include a blank or preprinted front cover or back cover on a document.

The following figure shows the **Front Cover** setting and options. These options are the same for the **Back Cover** setting.

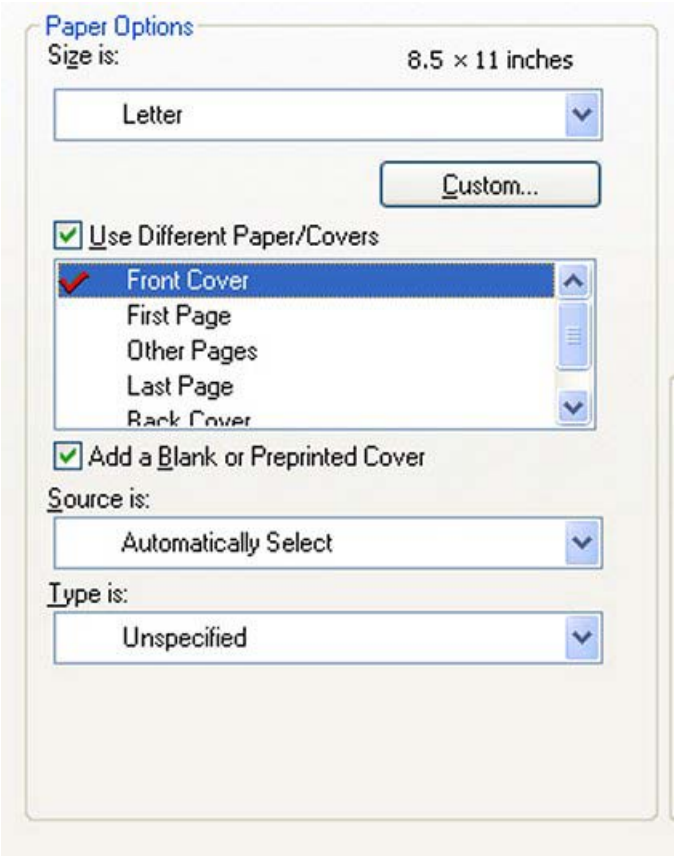


Figure 4-10 **Front Cover** setting

The **Front Cover** and **Back Cover** options are as follows:

- **Add a Blank or Preprinted Cover** check box
- **Source is:** drop-down menu
- **Type is:** drop-down menu

When **Front Cover** or **Back Cover** is selected, also select the **Add a Blank or Preprinted Cover** check box to enable the setting. The **Source is:** and **Type is:** drop-down menus become available and a check mark appears next to the **Front Cover** or **Back Cover** option.

NOTE The **Back Cover** options are not available when the **Booklet Layout** setting is enabled on the **Finishing** tab. For two-page-per-sheet (2-up) booklet printing, obtain a cover by selecting different media for the first page only. The back cover setting is unavailable, because this page would be printed in the middle of a booklet.

The **Source is:** setting specifies the source tray to use for adding a back cover to the document. The list of source trays depends on the printer accessories. Any optional media trays that are installed through the **Configure** tab also appear here. For more information about the **Source is:** setting, see the Source Is: drop-down menu section of this chapter.

The **Type is:** drop-down menu shows all of the media types that the printer supports. For more information about the **Type is:** drop-down menu settings, see the Type is: drop-down menu section of this chapter.

First Page, Other Pages, and Last Page options

Use these options to select an alternative media size, type, or source for the first page, other pages, or last page of a document. The following figure shows the appearance of the **Paper Options** group box when **Use Different Paper/Covers** is selected.

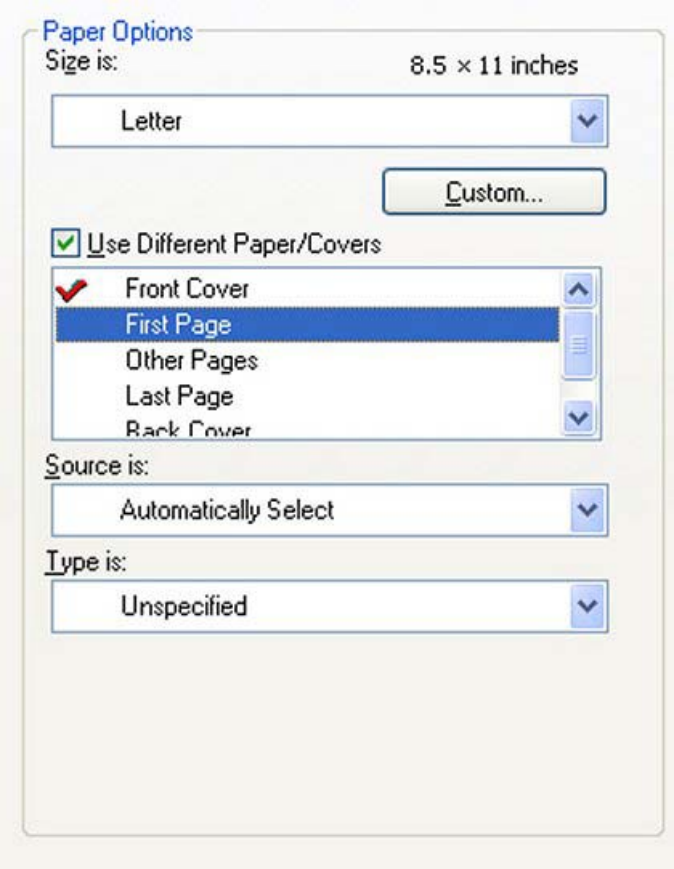


Figure 4-11 **First Page**, **Other Pages**, and **Last Page** options

The **First Page**, **Other Pages**, and **Last Page** options are as follows:

- **Size is:** drop-down menu
- **Source is:** drop-down menu
- **Type is:** drop-down menu

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:

- **Paper/Quality**
- **Effects**

- **Finishing**
- **Color**

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

Print Quality group box (HP PCL 6 Unidriver and PS Emulation Unidriver only)

The **Print Quality** group box provides options that control resolution and digital imaging settings. The group box includes the following options:

- Print Quality drop-down menu
- HP Digital Imaging (PCL 6 unidriver only)

Print Quality drop-down menu

The **Print Quality** drop-down menu contains the ImageREt 2400 resolution option. This setting produces 2400 dpi color output quality through HP Image Resolution Enhancement Technology (ImageREt) 2400. This setting is selected by default.

HP Digital Imaging (PCL 6 unidriver only)

Click the **HP Digital Imaging** button to open the **HP Digital Imaging Options** dialog box.

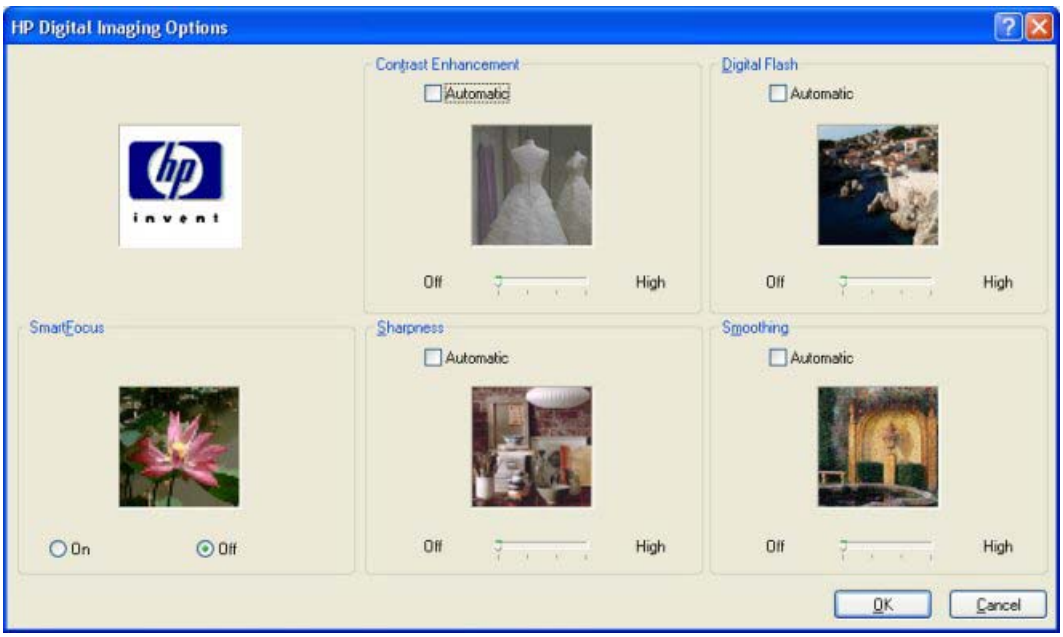


Figure 4-12 HP Digital Imaging Options dialog box

The HP Digital Imaging settings should be used only on high-resolution images (600 dpi or higher) that are printed on photograph-quality paper. These settings are not recommended for text.

The following settings can be adjusted on the **HP Digital Imaging Options** dialog box:

- **Contrast Enhancement**. This setting has an **Automatic** check box and a slide bar ranging from **Off** to **High**. Use the **Contrast Enhancement** setting to increase image contrast for a more visually pleasing result. This filter is useful with flat images (images in which much of the image content is compressed into a small dynamic range of pixel values). Flat images can result from low lighting, environmental haze, or camera or scanner limitations.
- **Digital Flash**. This setting has an **Automatic** check box and a slide bar ranging from **Off** to **High**. Use the **Digital Flash** setting to adjust lighting levels to reveal areas in shadow. The filter locates dark areas in an image and brings out detail without degrading other features in the image.
- **SmartFocus**. This setting has settings are **Off** and **On** options. Use the **SmartFocus** setting to increase the apparent resolution of lower resolution images. Many images that are downloaded from the Internet or from digital cameras can be compressed because of size restrictions, and might exhibit pixilation artifacts when printed. **SmartFocus** upscales the image to the printer resolution without accentuating these artifacts.
- **Sharpness**. This setting has an **Automatic** check box and a slide bar ranging from **Off** to **High**. Many images are improved by increasing their sharpness. Use the **Sharpness** feature locates edge detail and makes it more prominent. The filter detects regions that contain significant variations in pixel value along a number of different vectors (which denotes edges) and then applies a filter to enhance detail.
- **Smoothing**. This setting has an **Automatic** check box and a slide bar ranging from **Off** to **High**. Just as many images benefit increased sharpness, many images are improved by smoothing, which decreases noise artifacts that are often created by digital cameras or scanners. When you select **Smoothing**, the filter locates areas that contain abrupt changes in pixel value by comparison with surrounding pixels (which denotes noise) and then applies a filter to smooth the output.

Effects tab features

Follow these steps to access the **Effects** tab.

1. Click **Start** and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then select **Printing Preferences**.
3. Click the **Effects** tab.

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

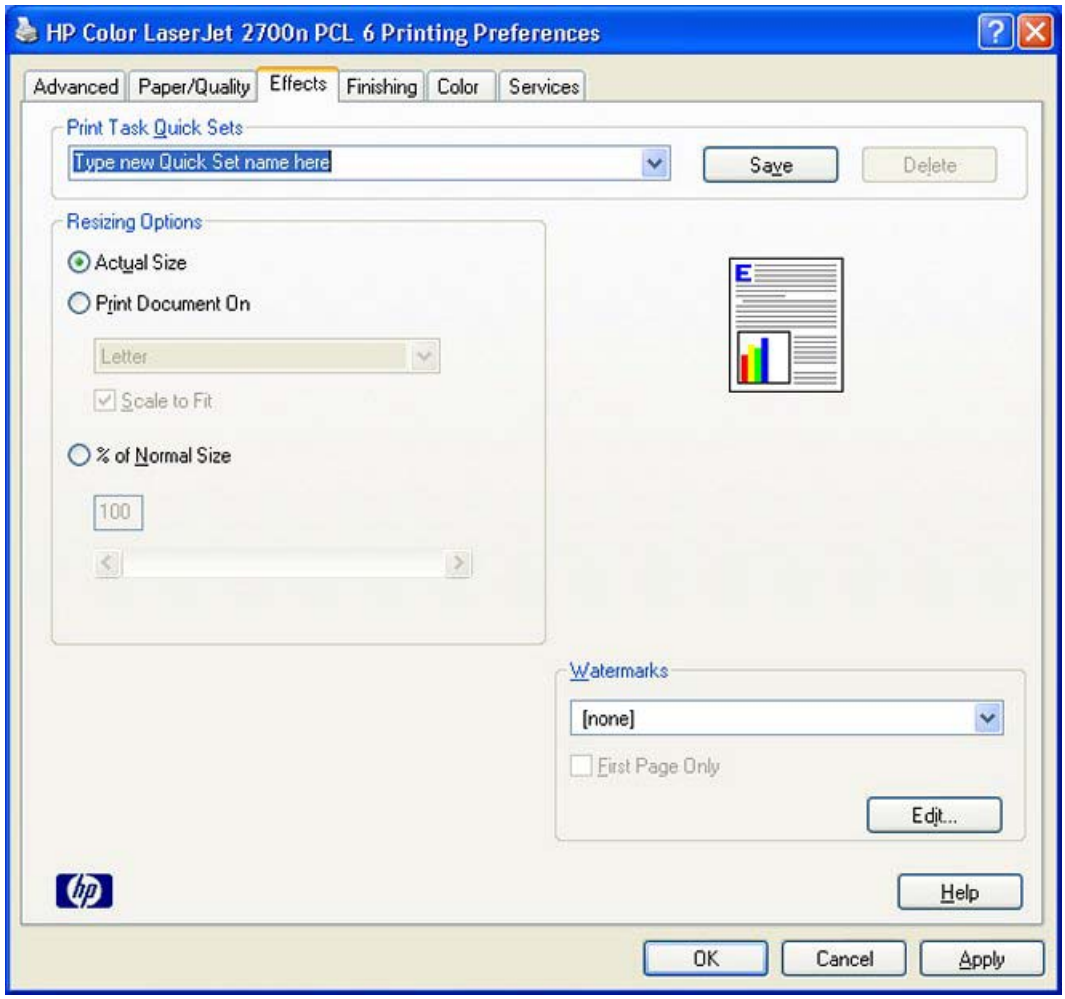


Figure 4-13 Effects tab

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

- **Print Task Quick Sets** group box
- **Resizing Options** group box

- Document preview image
- **Watermarks** group box

Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that are found on all other **Printing Preferences** driver tabs. Print task quick sets are either preset or user-defined printing specifications, such as paper size and pages per sheet. For more information, see Print Task Quick Sets in the **Paper/Quality** tab section of this guide.

Resizing Options group box

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

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

Actual Size setting

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

Print Document On setting

Select the **Print Document On** option button 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 Normal 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 media sizes on which you can print. The list contains all of the standard media sizes that are supported by the selected media source and any custom sizes that have been created. When **Print Document On** is selected, **Scale to Fit** is automatically selected. Clear this check ox if you do not want the document reduced or enlarged to fit on the selected media.

Scale to Fit option

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 illustration shows preview images for a document that is formatted for legal-size paper and where the **Print Document On** check box is selected and the target size is specified as **Letter**.

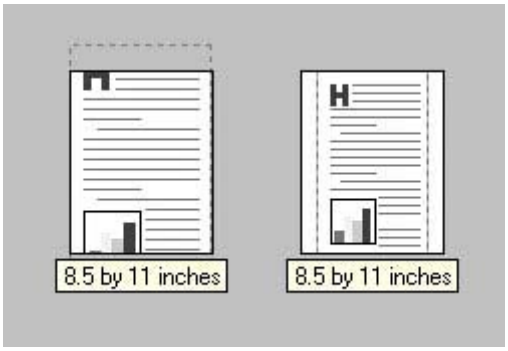


Figure 4-14 Preview images - Legal on Letter; Scale to Fit off (left) and on (right)

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 page size.

% of Normal Size option

The **% of Normal Size** option provides a slider bar to use for scaling the percentage setting. The default setting in the entry box is 100% of normal size. Normal 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 printer.

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 scroll bar indicator is dragged, and the preview image is updated to the new image scale. Each click on the scroll bar arrows increases or decreases the scale by 1%. Each click on the slider bar affects the scale by 10%.

An exact value is not achieved by dragging the scroll bar indicator at the default Microsoft Windows resolution; use the scroll bar indicator to approximate the appropriate value, and then use the scroll bar arrows to refine the value.

The following settings disable **% of Normal 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:

- **Paper/Quality**
- **Effects**

- **Finishing**
- **Color**

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

Watermarks group box

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

- **(none)**
- **Confidential**
- **Draft**
- **SAMPLE**

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 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.

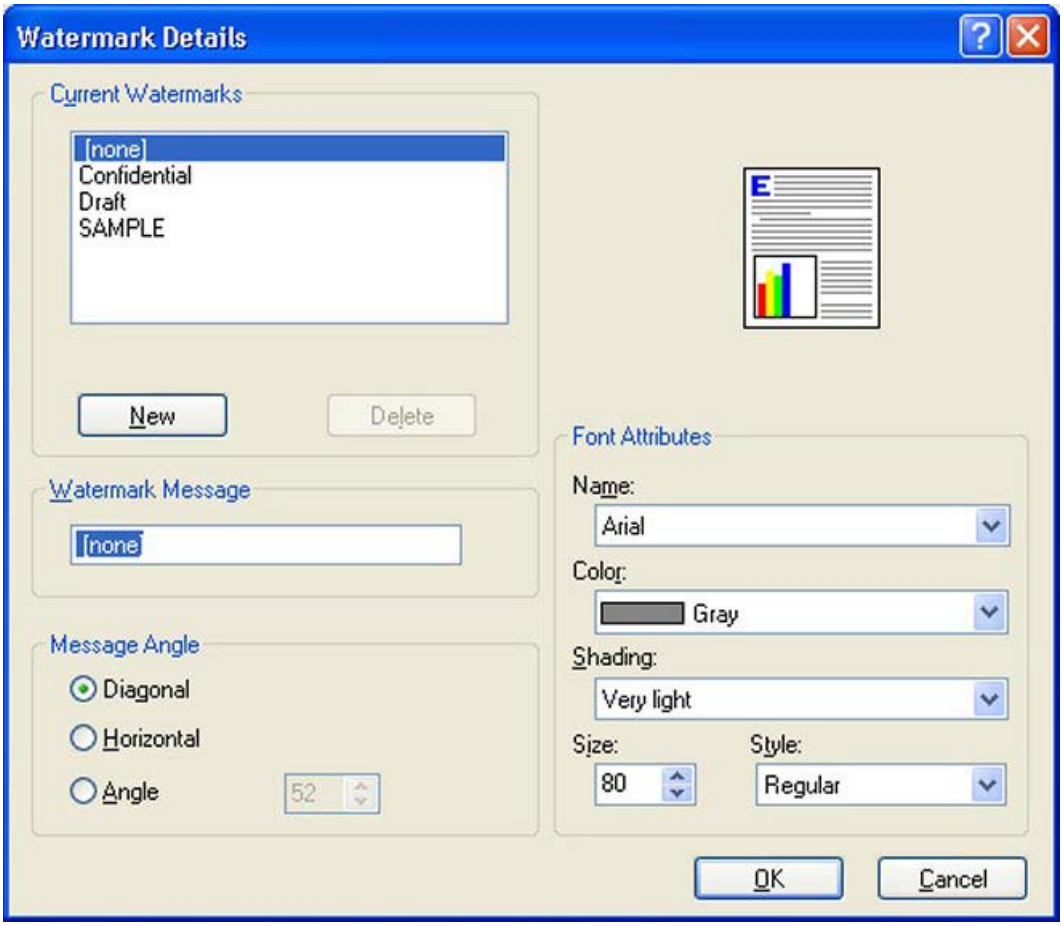


Figure 4-15 Watermark Details dialog box

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 made to the previous watermark 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 the predefined watermarks that are available in the driver and any new watermarks that have been created.

Creating a new watermark

1. Click **New**.

   The new watermark appears in the **Current Watermarks** list and in the **Watermark Message** edit box as "Untitled" until it is named.

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

The typed name in the **Watermark Message** field appears in the following locations:

- In the **Current Watermarks** group box in the **Watermark Details** dialog box
- In the **Watermarks** group box on the **Effects** tab

NOTE No more that 30 watermarks can exist in the **Current Watermarks** list at one time. When the limit of 30 watermarks is reached , the **New** button is disabled. The **(none)** setting is one of the 30 definable watermarks; the names for the other 29 watermarks can be customized.

To edit an existing watermark, select the watermark in the **Current Watermarks** list. Changing the **Watermark Message** for that watermark is, in effect, creates a new watermark.

Deleting a watermark

1. Select the watermark in the **Current Watermarks** list.
2. Click **Delete**.
3. A warning appears asking whether the intent is to delete the selected item.
   - Click **Cancel** to retain the watermark.
   - Click **OK** to delete the selected 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, several different watermarks can contain 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; 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.
- **Angle**. 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** drop-down menu
- **Color** drop-down menu
- **Shading** drop-down menu
- **Size** spin box
- **Style** drop-down menu

Name drop-down menu

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

Color drop-down menu

The **Color** drop-down menu provides a fixed, unalterable set of color choices, in palette/color name-pair form, for the watermark. The triplet values for these colors are shown in the following table.

Table 4-2 Watermark color values

Setting	Gray	Red	Yellow	Green	Cyan	Blue	Magenta
Lightest	255	255	255	232	232	232	255
	255	232	255	255	255	232	232
	255	232	232	232	255	255	255
Very Light	224	255	255	224	224	224	255
	224	224	255	255	255	224	224
	224	224	224	224	255	255	255
Light	192	255	255	192	192	192	255
	192	192	255	255	255	192	192
	192	192	192	192	255	255	255
Med Light	160	255	255	160	160	160	255
	160	160	255	255	255	160	160
	160	160	160	160	255	255	255
Medium	128	255	255	128	128	128	255
	128	128	255	255	255	128	128
	128	128	128	128	255	255	255
Med Dark	96	255	255	96	96	96	255
	96	96	255	255	255	96	96
	96	96	96	96	255	255	255
Dark	64	255	255	64	64	64	255
	64	64	255	255	255	64	64

Table 4-2 Watermark color values (continued)

Setting	Gray	Red	Yellow	Green	Cyan	Blue	Magenta
	64	64	64	64	255	255	255
Very Dark	32	255	255	32	32	32	255
	32	32	255	255	255	32	32
	32	32	32	32	255	255	255
Darkest	0	255	255	0	0	0	255
	0	0	255	255	255	0	0
	0	0	0	0	255	255	255

Shading drop-down menu

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. A choice of **Light** produces a lightly saturated gray watermark. A choice of **Lightest** produces the lightest shade of watermark; **Darkest** produces a black watermark.

Size spin box

Font sizes from 1 to 999 points are available from the **Size** menu. The default point size is language-dependent. The choice of **Regular**, **Bold**, **Italic**, and **Bold Italic** is available from the **Style** drop-down menu.

Style drop-down menu

The **Style** drop-down menu has the following setting choices: **Regular**, **Bold**, **Italic**, and **Bold Italic**. The **Regular** setting is the default for new and preset watermarks.

Default settings

The default settings for new watermarks are **Arial** font, **Gray** color, **Very Light** shading, **80** points, and **Regular** style. The default settings for preset watermarks are **Arial** font, **Very Light** shading, and **Bold** style. The default point size for preset watermarks is language-dependent, and varies.

Finishing tab features

Follow these steps to access the **Finishing** tab.

1. Click **Start** and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then select **Printing Preferences**.
3. Click the **Finishing** tab.

Use the **Finishing** tab to print booklets and control the media output.

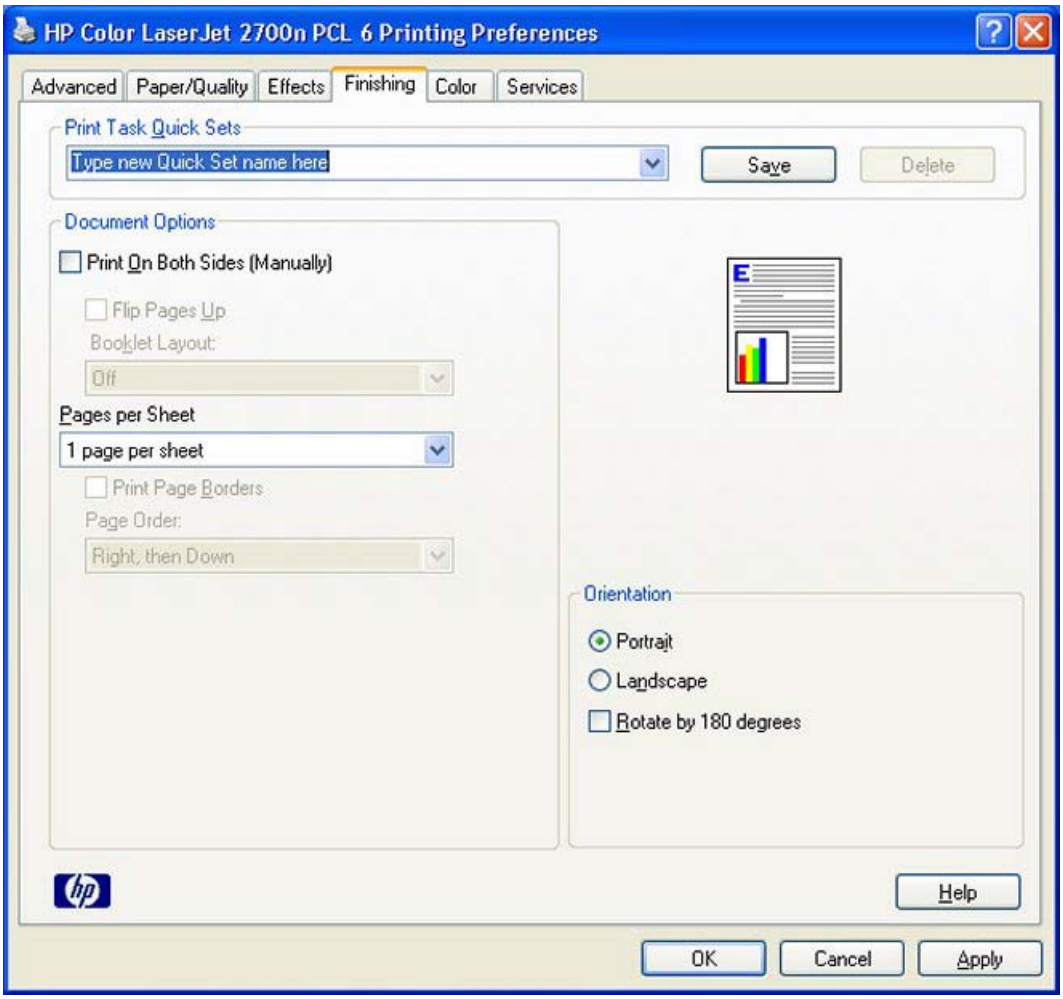


Figure 4-16 **Finishing** tab - HP PCL 6 Unidriver

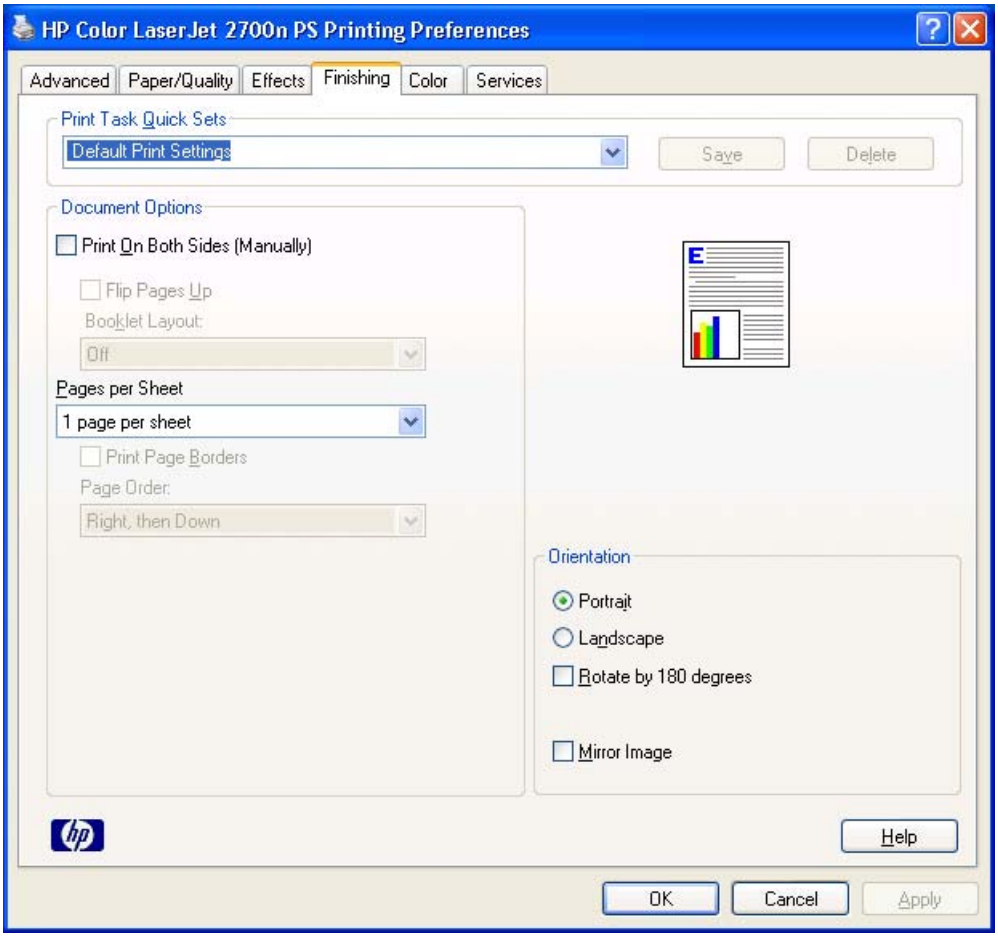


Figure 4-17 **Finishing** tab – PS Emulation Unidriver

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

- Print Task Quick Sets
- Document Options
- Document preview image
- Orientation group box

Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that appear on all other **Printing Preferences** driver tabs. Print task quick sets are either preset or user-defined printing specifications, such as paper size and pages per sheet. For more information, see Print Task Quick Sets in the **Paper/Quality** tab section of this guide.

Document Options

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

- **Print on Both Sides** or **Print on Both Sides (Manually)** check box
- **Flip Pages Up** option

- **Booklet Layout** drop-down menu
- **Pages per Sheet** drop-down menu
- **Print Page Borders** check box
- **Page Order** drop-down menu

Print on Both Sides (Manually) check box

The **Print on Both Sides (Manually)** option controls the manual duplexing function of the HP Color LaserJet 2700 printer.

Manually printing on both sides

Select the **Print on Both Sides (Manually)** check box to print on the second side of the media for the HP Color LaserJet 2700 printers. The HP Color LaserJet 2700 printers do not have automatic duplexing capability.

Selecting a media type instructs the printer to use a group of settings (such as fuser temperature and print speed) to print the media with the best possible quality. This group of settings is known as print mode. To achieve the best print quality when printing on the second side of the page, the printer makes adjustments to its print modes. A different print mode is used with each media type. Print-mode adjustments for the second side of a duplexed page are automatic.

Select the media type that corresponds to the media used for the current print job. The following media types have a different print mode when printed manually on the second side:

- **Unspecified**
- **Plain**
- **Preprinted**
- **Preprinted**
- **Transparency**
- **Prepunched**
- **Labels**
- **Bond**
- **Recycled**
- **Color**
- **Light** (60-75 g/m^2)
- **Cardstock** (164-120 g/m^2)
- **Glossy 106-120 g/m2**
- **Tough Paper**
- **Envelope**
- **Rough**

- **Heavy** (105-120 g/m^2_
- **Intermediate** (90-104 g/m^2)
- **Extra Heavy** (120-163 g/m^2)
- **HP Cover** (200 g/m^2)
- **HP Matte Photo** (200 g/m^2)
- **HP Glossy Photo** (220 g/m^2)

Cardstock media can be manually printed on the second side, but there is no change to the print mode.

A triangle enclosing an exclamation point icon appears next to the **Transparencies** and **Labels** options. This icon indicates that duplex printing is not advised for these paper types.

To make the **Print on Both Sides (Manually)** check box available in the document options, enable the **Allow Manual Duplexing** option on the **Device Settings** tab in the **Properties** print-driver tabs.

1. Click **Start**, click **Settings** and then click **Printers**(for Microsoft Windows 2000); or click **Start** and then click **Printers and Faxes** (for Microsoft Windows XP Professional and Microsoft Windows Server 2003); or click **Start** and then click **Printers and Other Hardware**(for Microsoft Windows XP Home).
2. Right-click the icon for the HP Color LaserJet 2700 printer.
3. Select **Properties** from the pop-up list that appears.
4. Click **Device Settings** tab.
5. Look for the *Installable Options* section at the bottom of **Device Settings** screen. Select “Enabled” for the “Allow Manual Duplexing” option.

When the **Print on Both Sides (Manually)** check box is available on the **Document Options** section of the **Finishing** tab screen, follow these steps to make the HP Color LaserJet 2700 printer manually print on both sides.

1. Select the **Print on Both Sides (Manually)** check box.
2. Click **OK**.
3. Click **Print**.
4. Click the green **OK** button on the printer control panel. The even-number pages of the document print.

5. Insert the stack of even-number pages that just printed when the control panel shows the **Manually Feed** message (or it shows the **Load Tray** message), insert the stack of media (on which the even-numbered pages have been printed) as indicated on **Figure 4-18**.

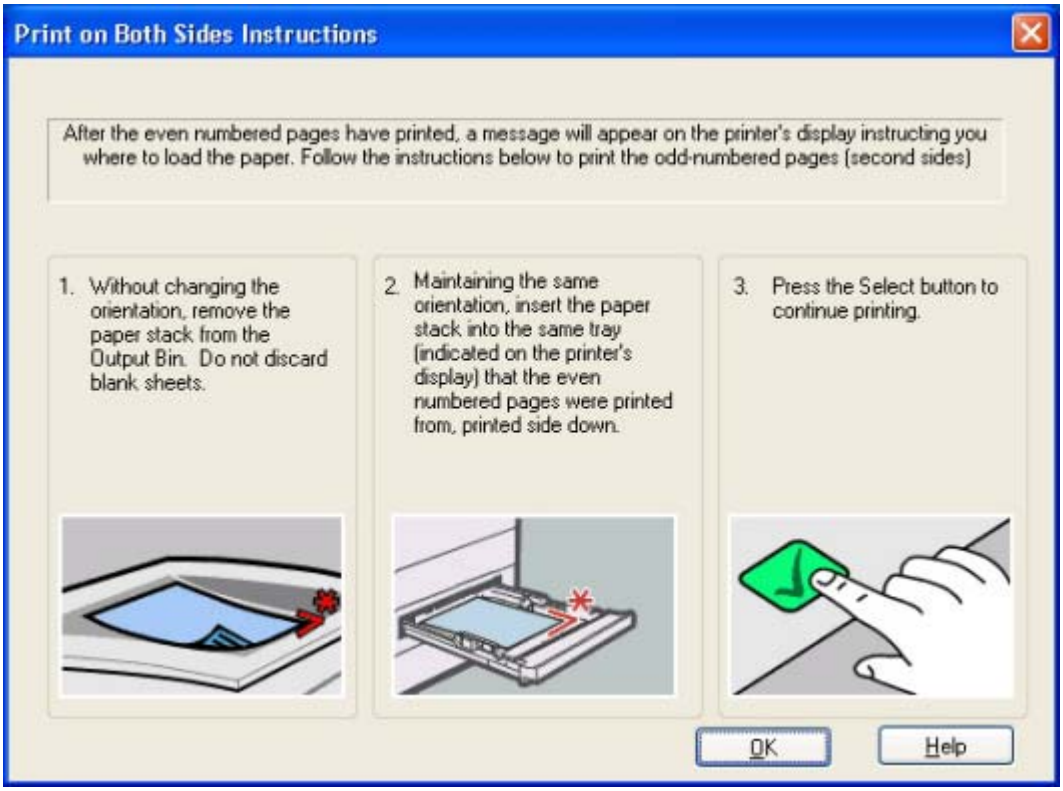


Figure 4-18 Print on Both Sides Instructions

6. Click the green **OK** button on the printer control panel.

7. The second half of the job prints on the second side (blank) of the stacked sheets. The driver automatically coordinates the odd- and even-page printing.

NOTE For more assistance, refer to animation in the **Help** section of the HP ToolboxFX .

Flip Pages Up option

Select the **Flip Pages Up** check box to specify the duplex-binding option. (The **Flip Pages Up** option is only available when **Print on Both Sides Manually** is selected.) By default, the **Flip Pages Up** check box is *not* selected. The following table shows the results of selecting this 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 Manually** 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 drop-down menu

The **Booklet Layout** drop-down menu, visible when **Print on Both Sides Manually** is selected, offers choices that are based on the current paper size. The default setting for the **Booklet Layout** drop-down menu is **Off**.

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

By selecting **Left Edge Binding** or **Right Edge 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**. Manually changing the **Pages per Sheet** setting to 4, 6, 9, or 16 pages per sheet disables the booklet setting. See the Printing a booklet section of this chapter for more information.

The **Booklet Layout** setting is disabled when A6 or B6 (JIS) is selected as the media size, and an incompatibility error message appears when you click **OK** to close the driver.

Book and booklet printing

The HP Color LaserJet 2700 printer and the HP Color LaserJet 2700n printer support book and booklet printing.

A book is a print job consisting of at least two pages that can have a different media type for the front cover, first page, other pages, last page, or back cover. Use the **Front Cover**, **First Page**, **Other Pages**, **Last Page**, and **Back Cover** settings on the **Paper/Quality** tab (available by selecting the **Use Different Paper/Covers** check box) to select different media for these pages.

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

Printing a booklet

Complete the following steps to print a booklet.

1. In the **Finishing** tab, select the **Print on Both Sides Manually** check box.
2. In the **Booklet Layout** drop-down menu, select the preferred type of booklet printing (for example, **Right Edge Binding**).
3. Click **OK** in the print driver.
4. Click **OK** in the **Print** dialog box to print.

Printing a book

To print a book in which the front cover, first page, other pages, last page, and back cover are printed on different media types, see the Paper/Quality tab features section of this chapter.

Pages per Sheet drop-down menu

On the **Finishing** tab, use the **Pages per Sheet** option to select the number of pages to print on a single sheet of media. If more than one page per sheet is selected, 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 Selecting an option other than **2 pages per sheet** makes booklet printing unavailable.

Print Page Borders check box

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

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 drop-down menu

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

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

The document preview image reflects any changes made in the **Page Order** settings. The following figure shows the different document preview configurations.

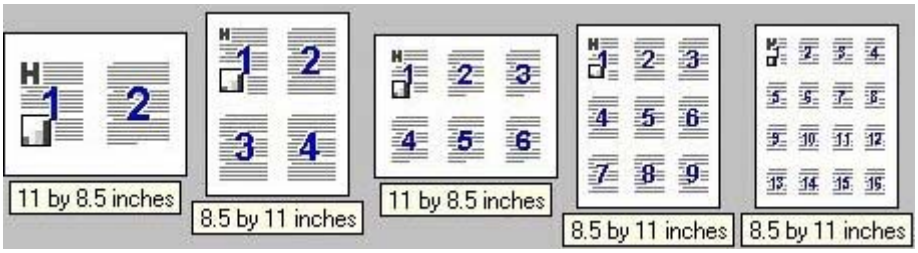


Figure 4-19 Page-order preview images

- **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:

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

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

Orientation group box

Use the **Orientation** setting to establish different layouts of the image on the page. This setting does not affect the way that media feeds into the printer.

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

- Portrait option button
- Landscape option button
- Rotate by 180 degrees check box
- Mirror Image check box (PS Emulation Unidriver only)

Portrait option button

Select this feature to print the document in **Portrait** orientation, which is when the top edge of the document is the shorter edge of the paper. This is the default setting.

Landscape option button

Select this feature to print the document in **Landscape** orientation, which is when the top edge of the document is the longer edge of the paper.

Rotate by 180 degrees check box

Select this feature to rotate the document image on the paper 180°. For example: If the return address on an envelope is smudged, select this setting and then feed the envelope into the printer so the return address area goes in first.

Mirror Image check box (PS Emulation Unidriver only)

Click the **Mirror Image** check box to reverse the horizontal coordinates of the printed document.

Color tab features (HP PCL 6 Unidriver and PS Emulation Unidriver only)

Follow these steps to access the **Color** tab.

1. Click **Start** and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then click **Printing Preferences**
3. Click the **Color** tab.

Use the **Color** tab to specify predefined color-option settings or to fine-tune the color treatments and half-toning. Color output can also be converted to grayscale.

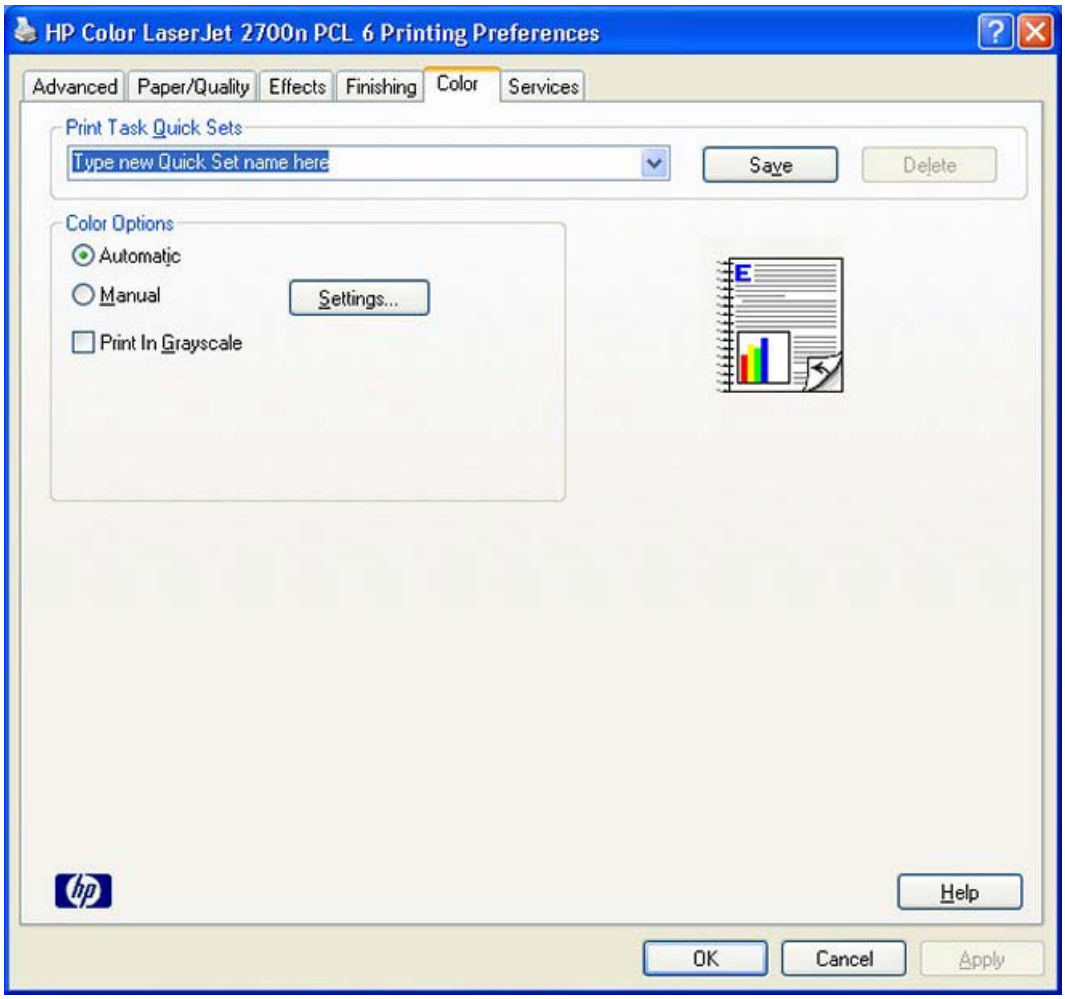


Figure 4-20 **Color** tab

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

- **Print Task Quick Sets** group box
- **Color Options** group box
- Document preview image

Print Task Quick Sets

The **Print Task Quick Sets** control is available on each Printing Preference tab, and is used to store the current combination of driver settings found on all of the other tabs. **Print Task Quick Sets** are either preset or user-defined printing specifications, such as paper size and pagers per sheet. For more information, see Print Task Quick Sets in the **Paper/Quality** tab section of this guide.

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 (opens the **Color Settings** dialog box)
- **Print in Grayscale** check box

Automatic color settings

Use the **Automatic** option for default coloration settings that automatically fine-tune the color printer output. The HP **Automatic** default color settings provide high-quality output for most color printing needs.

Manual color settings

To change the default coloration settings, select the **Manual** option, and then click the **Settings** button. The **Color Settings** dialog box appears. Select the options in the drop-down menus and then click **OK**.

The following figure shows the **Color Settings** dialog box.

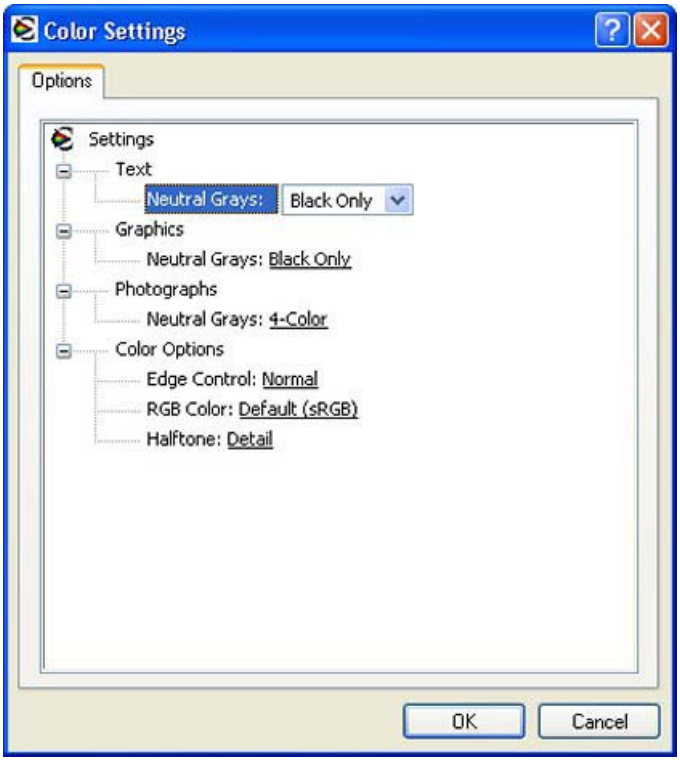


Figure 4-21 **Color Settings** dialog box

The **Color Settings** dialog box gives you independent control of the following settings:

- **Text**
- **Graphics**
- **Photographs**
- **Color Options**

Text, Graphics, and Photographs settings

Use these sections to adjust the **Neutral Grays** setting for each control.

Neutral Grays setting

The **Neutral Grays** drop-down menu controls the selection of a device-dependent color table that is embedded in the printer firmware. The options are **Black Only** or **4-Color**. Adjust the **Neutral Grays** setting independently for **Text**, **Graphics**, or **Photographs**.

- **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. The default setting for **Photographs** is **4-Color**.

Color Options

Use the **Color Options** setting group to control the **Edge Control**, **RGB Color**, and **Halftone** settings for all color printing.

Edge Control

Edge Control determines how edges are rendered. **Edge Control** consists of Adaptive Halftoning and Trapping. Adaptive Halftoning increases the edge sharpness. Trapping reduces the effect of color-plane misregistration by slightly overlapping the edges of adjacent objects.

The **Edge Control** option contains the following settings:

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

RGB Color

The **RGB Color** settings affect the color treatment for object types and determines how colors are rendered. The following options are available.

- **Default (sRGB).** This option interprets RGB color space (sRGB), which is the accepted standard for many software companies and organizations such as Microsoft and the World Wide Web Consortium. **Default (sRGB)** is the default setting for all components.
- **Vivid.** This option uses the full range of the printer capabilities, producing colors that are more deeply saturated than those on the screen. By using **Vivid** color, blues and greens will likely appear darker in print than on the monitor. Vivid color is useful for business graphics and other documents that require deep, rich colors.

  NOTE This setting uses the sRGB color table for the HP Color LaserJet 2700n printer.

- **Device.** This option sets the printer to print RGB data in raw device mode. To render photographs correctly when this option is selected, manage the color in the currently running software program or operating system.
- **AdobeRGB (1998).** Select **AdobeRGB (1998)** for documents that use the Adobe RGB 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, turn off the color management in the software program and allow the printer software to manage the color space.
- **Photo/Image.** Photo/Image interprets the RGB color as if it was printed as a photograph from a digital mini-lab, rendering the deeper, more saturated colors differently than **Default** mode. Use this setting for printing photos. For best results, use HP Glossy Laser Paper with this setting.

NOTE In software programs that convert text and graphics to raster, the **Photographs** settings also control the **Text** and **Graphics** settings.

Halftone

The **Halftone** setting controls the selection of a device-dependent halftone algorithm that is embedded in the printer firmware. The **Halftone** options, **Smooth** and **Detail**, affect the resolution and clarity of the color output.

- **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.
  - Cyan - 155 lines per inch (lpi)
  - Magenta - 155 lpi
  - Yellow - 212 lpi
  - Black - 155 lpi
- **Detail.** This option is useful for text and graphics that require sharp distinctions among lines or colors, or for images that contain a pattern or high level of detail. Select this option for sharp edges and detail.
  - Cyan - 190 lpi
  - Magenta - 190 lpi
  - Yellow - 200 lpi
  - Black - 212 lpi

Print in Grayscale

Select **Print in Grayscale** to print a color document in black and white. This option is useful for previewing preliminary copies of slides and hardcopy output quickly or for color documents that will be photocopied or faxed.

Services tab features

Follow these steps to access the **Services** tab.

1. Click **Start** and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then click **Printing Preferences**.
3. Click the **Services** tab.

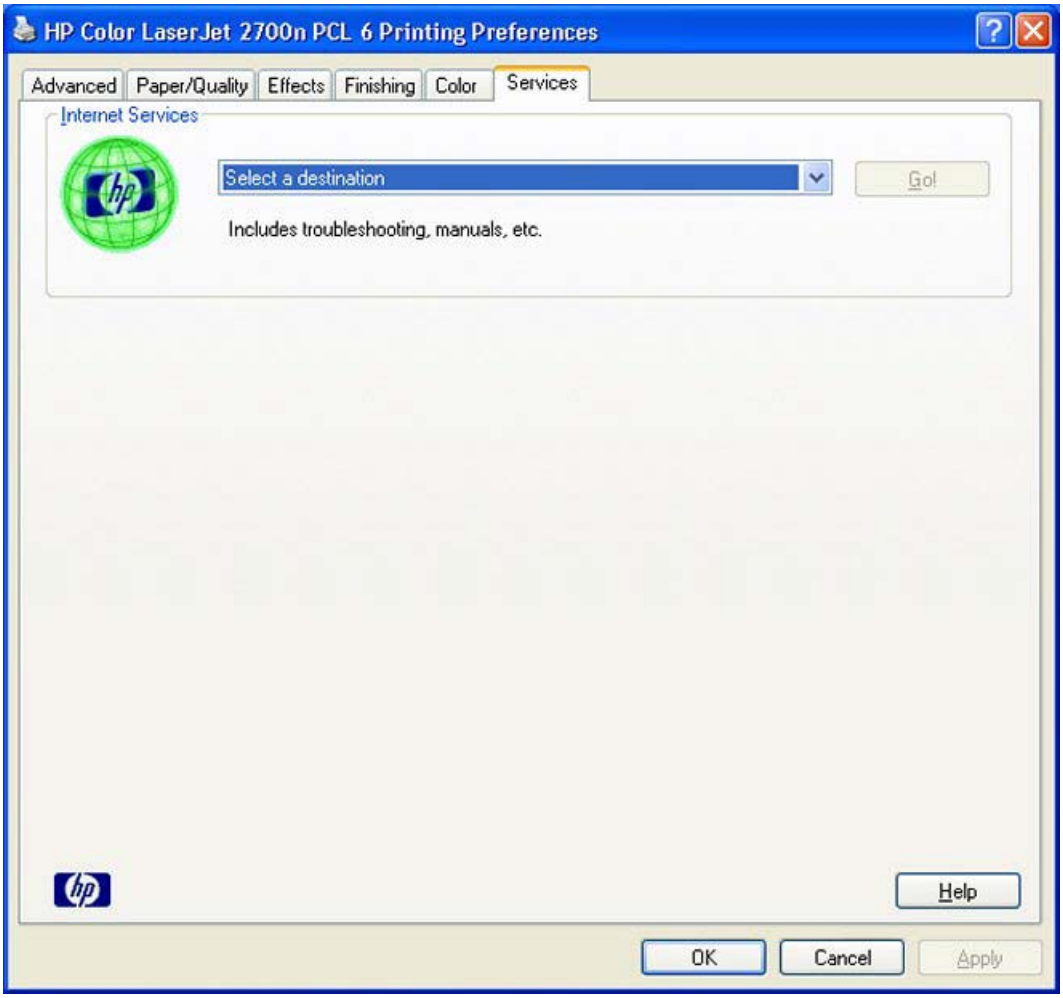


Figure 4-22 **Services** tab - HP PCL 6 Unidriver

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

- **Support and troubleshooting**
- **Product manuals**

- **Check for driver updates**
- **Orders supplies**

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

Device Settings tab features

Follow these steps to access the **Device Settings** tab.

1. Click **Start**, and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then click **Properties**.
3. Click the **Device Settings** tab.

The **Device Settings** tab contains controls for media-handling devices and for managing the HP Color LaserJet 2700.

The following figures show the **Device Settings** tab for each driver.

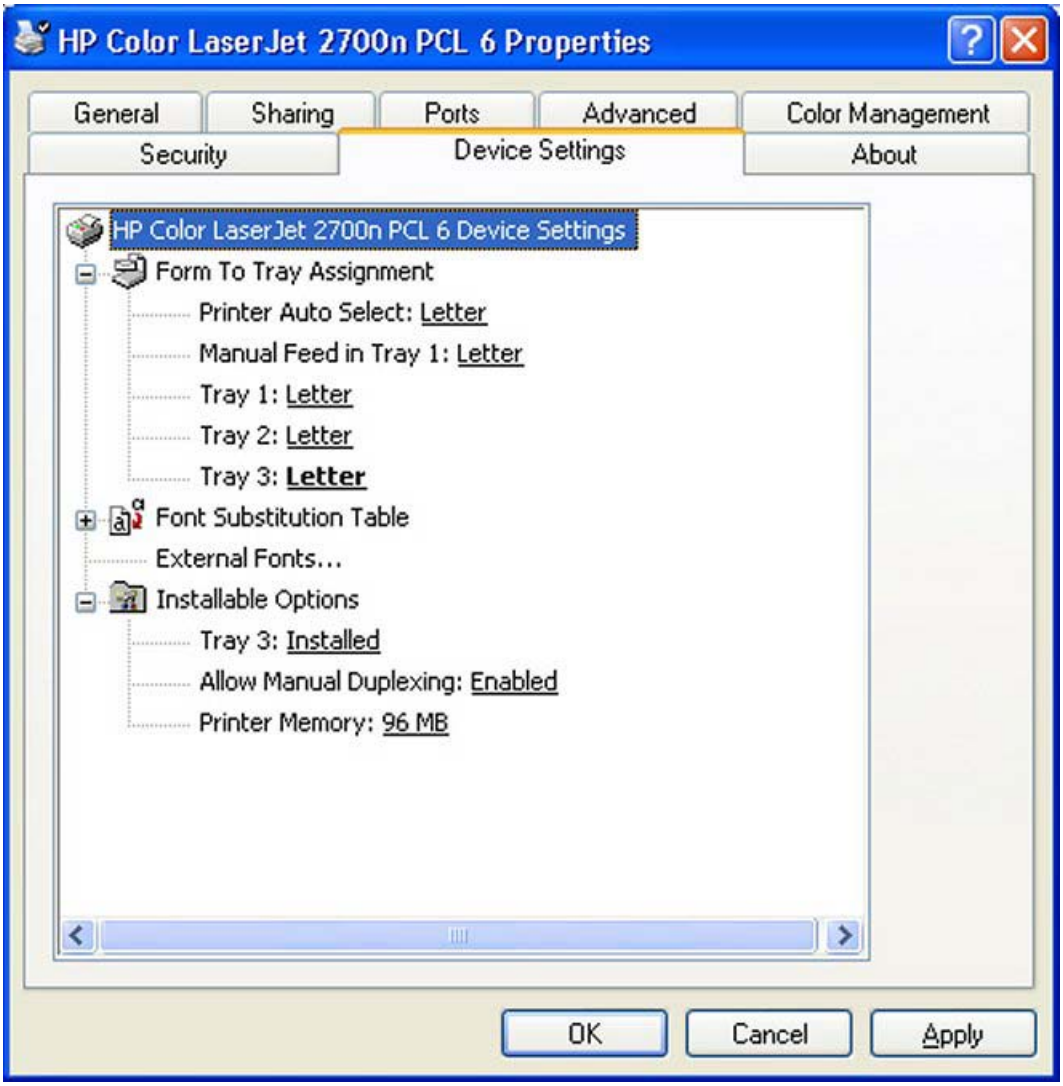


Figure 4-23 **Device Settings** tab features - HP PCL 6 Unidriver and HP PCL 6 Black and White Driver

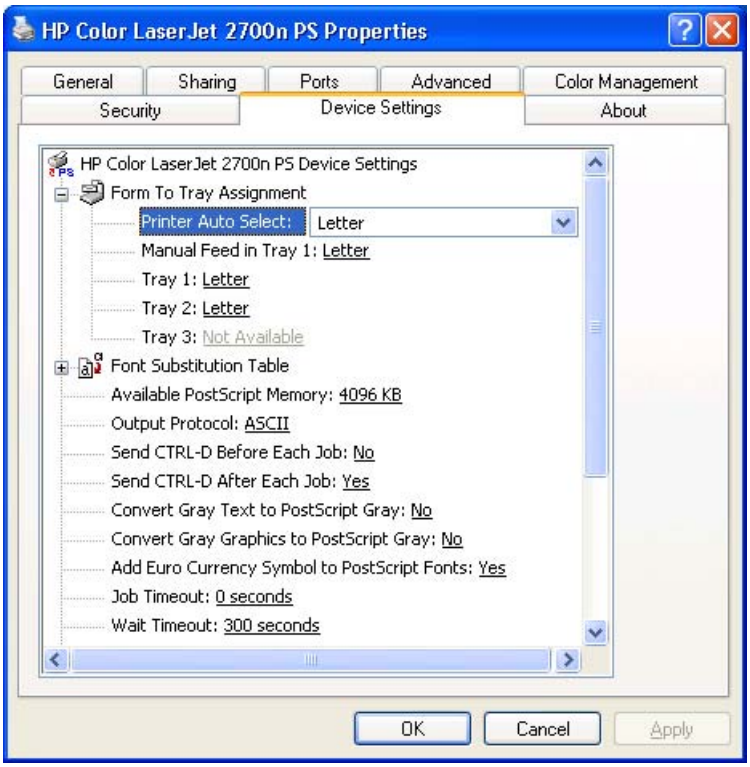


Figure 4-24 **Device Settings** tab - PS Emulation Unidriver (1 of 2)

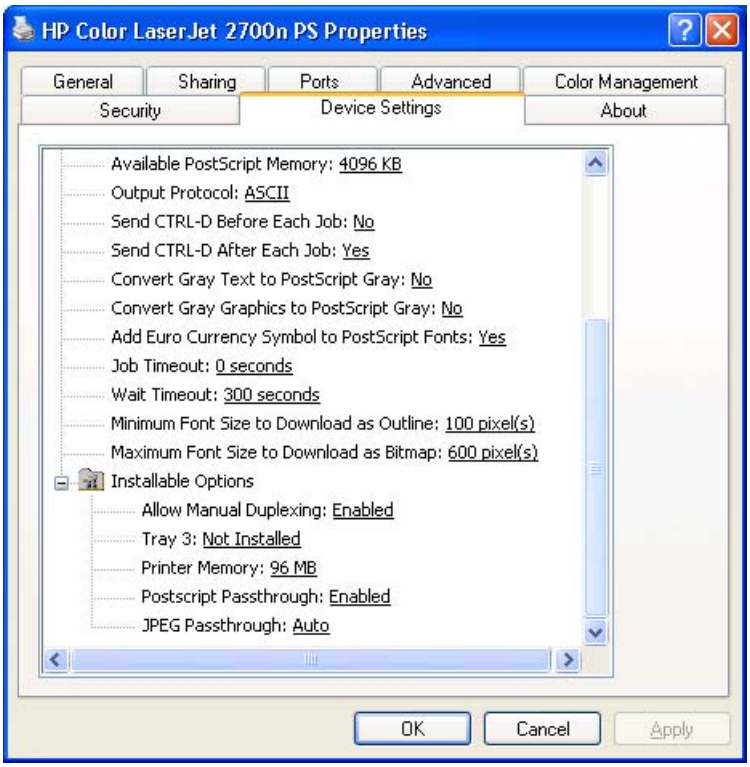


Figure 4-25 **Device Settings** tab - PS Emulation Unidriver (2 of 2)

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

- Form to Tray Assignment
- Font Substitution Table
- External Fonts (HP PCL 6 Unidriver and HP PCL 6 Black and White Driver only)
- Installable Options
- Additional Device Settings options (PS Emulation Unidriver only)
- Send CTRL-D Before Each Job
- Send CTRL-D After Each Job
- Convert Gray Text to PostScript Gray
- Convert Gray Graphics to PostScript Gray
- Add Euro Currency Symbol to PostScript Fonts
- Job Timeout
- Wait Timeout
- Minimum Font Size to Download as Outline
- Maximum Font Size to Download as Bitmap

Form to Tray Assignment

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

The HP Color LaserJet 2700 printer supports more than one source of media. Assign a form (which defines the media size and margins) to each printer media source. The form, when selected, will then print to an assigned tray.

Network administrators can use the **Form to Tray Assignment** setting to specify, in the driver, the media size that is loaded into each available input tray. The use of forms constrains the choices that are available in the media-size list on the **Advanced** tab in the **Printing Preferences** driver tab set. This constraint prevents (or reduces the likelihood of) tying up the printer 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.

The input trays listed in the **Form to Tray Assignment** setting are also listed as media 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 media size (form) that is loaded in that tray.
3. Repeat steps 1 and 2 for the remaining trays.

4. Click **OK** to enable the settings, or, if necessary, click the **Cancel** button to reconfigure all the trays and remove the size and type constraints that you have specified on the **Paper/Quality** tab.

Font Substitution Table

Clicking the **Font Substitution Table** allows the user to change the TrueType-to-PostScript font mapping options. The following figure shows the **Device Settings** tab with part of the **Font Substitution Table** open.

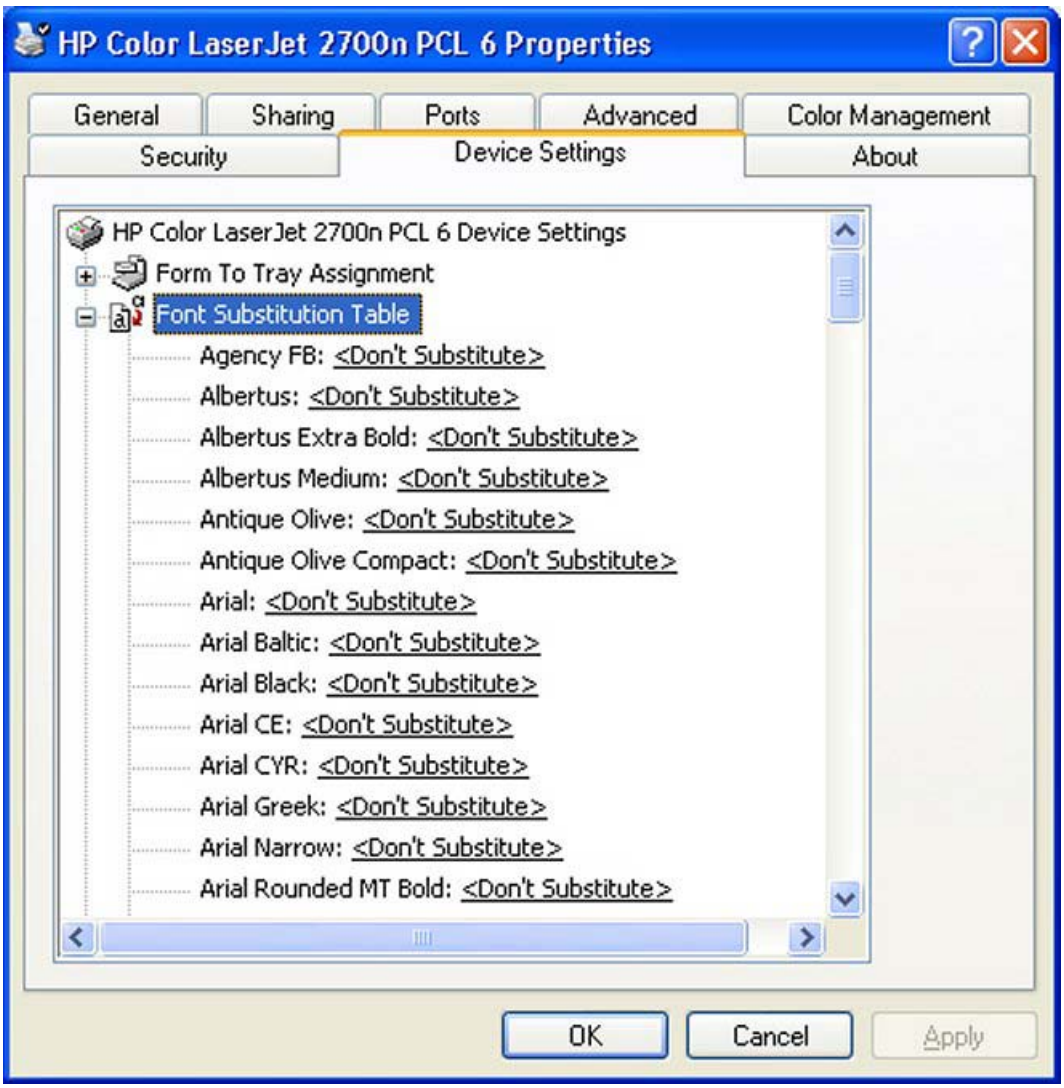


Figure 4-26 Font Substitution Table

External Fonts (HP PCL 6 Unidriver and HP PCL 6 Black and White Driver only)

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

Clicking the **External Fonts** option causes the **Properties** button to appear. Clicking the **Properties** button opens the **Font Installer** dialog box.

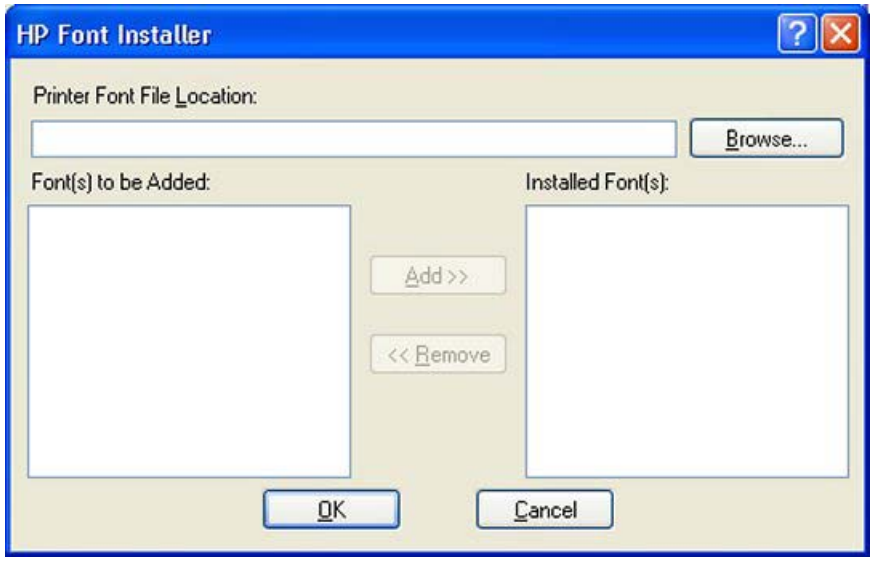


Figure 4-27 **Font Installer** dialog box

Installing external fonts

Follow these steps to install external fonts.

1. Click **Start**, and then click the following according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003 click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the name of the printer, and then click **Properties**.
3. Click the **Device Settings** tab.
4. Click the **External Fonts** option. The **Properties** button appears.
5. Click the **Properties** button. The **Font Installer** dialog box appears.
6. 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.
7. Select the fonts to add, and then click **Add**. The fonts are installed and the file names appear in the **Installed Font(s)** window.
8. Click **OK** to close the **Font Installer** dialog box.

Removing external fonts

1. Click **Start**, and then proceed according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings** and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Click the **Device Settings** tab.
3. Click the **External Fonts** option. The **Properties** button appears.
4. Click the **Properties** button. The **Font Installer** dialog box appears.
5. The external fonts that are installed appear in the **Installed Fonts** window. Select the fonts to remove, and then click **Remove**. The fonts are removed.
6. Click **OK** to close the **Font Installer** dialog box.

Installable Options

The *Installable Options* section of the **Device Settings** tab provides configuration printing options that can be installed for the HP Color LaserJet 2700 printers. The following options are available:

- Tray 3
- Allow Manual Duplexing
- Printer Memory
- PostScript Passthrough (PS Emulation Unidriver only)
- JPEG Passthrough (PS Emulation Unidriver only)

Tray 3

This control specifies whether tray 3, an optional 500-sheet tray, is installed on the HP Color LaserJet 2700. The drop-down options for **Tray 3** are **Installed** or **Not Installed**. The default setting is **Not Installed**.

Allow Manual Duplexing

Use this setting to allow printing on both sides of a page.

Printer Memory

This option matches the setting to the amount of memory that is installed in the printer. The driver generates ranges of memory that can be selected, up to the maximum that the printer can accept. The driver can use this information to manage how the print driver uses the printer memory.

PostScript Passthrough (PS Emulation Unidriver only)

PostScript Passthrough is enabled by default, and must be enabled for most print jobs. This option provides additional capabilities for some software programs when printing to a Postscript driver.

Options such as watermarks, n-up printing, and booklet printing might not print correctly from some software programs when PostScript Passthrough is enabled because such programs send Postscript information to the printer that the driver cannot control. Other software programs that use these options might print without problems.

If problems occur while printing, select **Disabled** and print the document again. In some cases, disabling PostScript Passthrough might cause unexpected behavior in the software program.

JPEG Passthrough (PS Emulation Unidriver only)

The following options appear under the **JPEG Passthrough** setting:

- **Disable.** Images sent as JPEG are printed as bitmaps, resulting in faster printing.
- **Enable.** Images sent as JPEG are printed as JPEG (JPEG passthrough).
- **Auto.** Detects the printer connection type and either disables JPEG passthrough for network (TCP/IP) connections or enables USB connections.

Additional Device Settings options (PS Emulation Unidriver only)

In addition to these options, the **Device Settings** tab for the PS Emulation Unidriver also includes the following options.

- Available PostScript Memory
- Output Protocol
- **Available PostScript Memory** options
- **Output Protocol** options
- **Send CTRL-D Before Each Job** options
- **Send CTRL-D After Each Job** options
- **Convert Gray Text to PostScript Gray** options
- **Convert Gray Graphics to PostScript Gray** options
- **Add Euro Currency Symbol to PostScript Fonts** options
- **Job Timeout** options
- **Wait Timeout** options

Available PostScript Memory

This option specifies the amount of available PS memory. The available PS memory is a subset of the printer's total physical memory. It is usually best to use the default setting, which the printer manufacturer determines.

Output Protocol

This control specifies the protocol that the HP Color LaserJet 2700 uses for print jobs. Three options are available:

- Click **ASCII** to send data in ASCII format (7-bit), which might take longer to print but can be sent through any I/O channel, such as a USB or network port.
- Click **TBCP** (Tagged Binary Communications Protocol) to send all data in binary (8-bit) format, except special control characters. The binary formats can be sent over USB or serial communications ports at a faster rate than by sending data in ASCII format.
- Click **Binary** to send all data in binary (8-bit) format, except special control characters. The binary formats can be sent over USB communications ports at a faster rate than by sending data in ASCII format.

Send CTRL-D Before Each Job

This option specifies whether the HP Color LaserJet 2700 printer will be reset at the beginning of every .PS document. The default setting is **No**. Ctrl-D resets the printer to its default setting to ensure that previous print jobs do not affect the current print job. Ctrl-D might cause a print job to fail if the printer is connected through a network. If the document fails to print when sent to a printer connected through a USB port, change **No** to **Yes**.

Send CTRL-D After Each Job

This option specifies whether the HP Color LaserJet 2700 printer will be reset at the end of every .PS document. The default setting is **Yes**. Ctrl-D resets the printer to its default setting to ensure that future print jobs are not affected by the current print job. Ctrl-D might cause a print job to fail if the printer is connected through a network. If the document fails to print when sent to a network printer, change **Yes** to **No**.

Convert Gray Text to PostScript Gray

This option specifies whether to convert the true gray (RGB value) in text to the gray that the PS Emulation Unidriver provides. The default setting is **No**.

Convert Gray Graphics to PostScript Gray

This option specifies whether to convert the true gray (RGB value) in graphics to the gray that the PS Emulation Unidriver provides. The default setting is **No**.

Add Euro Currency Symbol to PostScript Fonts

This option specifies whether to augment the device fonts with the euro character. The default setting is **Yes**.

Job Timeout

This option specifies how long the document can take to get from the computer to the HP Color LaserJet 2700 printer before the printer stops trying to print the document. By specifying 0 seconds, the printer continues trying to print indefinitely. The default setting is **0 seconds**. Use the spin box to change this value to a maximum of **32,767** seconds.

Wait Timeout

This option specifies how long the HP Color LaserJet 2700 printer waits to get more PS information from the computer. After the specified time passes, the printer stops trying to print the document and prints an error message. When printing a very complicated document, it might help to increase this value. By specifying **0 seconds**, the printer waits indefinitely. The default setting is **300 seconds**. Use the spin box to change this value up to a maximum of **32,767 seconds**.

Minimum Font Size to Download as Outline

This control specifies the minimum font size (in pixels) for which the PostScript driver will download TrueType fonts as outline (Type 1) fonts. Any font smaller than the minimum setting will be downloaded as a bitmap (Type 3) font.

This option allows fine-tuning of the Automatic setting for the TrueType Font Download option. This option can be found on the Advanced Options dialog box of the Printing Preferences dialog box.

Maximum Font Size to Download as Bitmap

This control specifies the maximum font size (in pixels) for which the PostScript driver will download TrueType fonts as bitmap (Type 3) fonts. A font larger than the maximum setting will be downloaded as an outline (Type 1) font.

Use this option to fine-tune the **Automatic** setting or override the **Bitmap** setting for the **TrueType Font Download** option. This option can be found on the **Advanced Options** tab in **Printing Preferences**.

About tab features

Follow these steps to gain access to the **About** tab.

1. Click **Start**, and then click the following according to which version of Microsoft Windows is installed:
   - For Microsoft Windows 2000, click **Settings**, and then click **Printers**.
   - For Microsoft Windows XP Professional and Microsoft Windows Server 2003, click **Printers and Faxes**.
   - For Microsoft Windows XP Home, click **Printers and Other Hardware Devices**.
2. Right-click the printer name, and then click **Properties**.
3. Click the **About** tab.

The **About** tab provides detailed information about the driver. It contains an overall build number (in parentheses following the model name) along with specific information about each of the components. The information varies according to the HP Color LaserJet 2700 model number, driver, date, and version numbers.

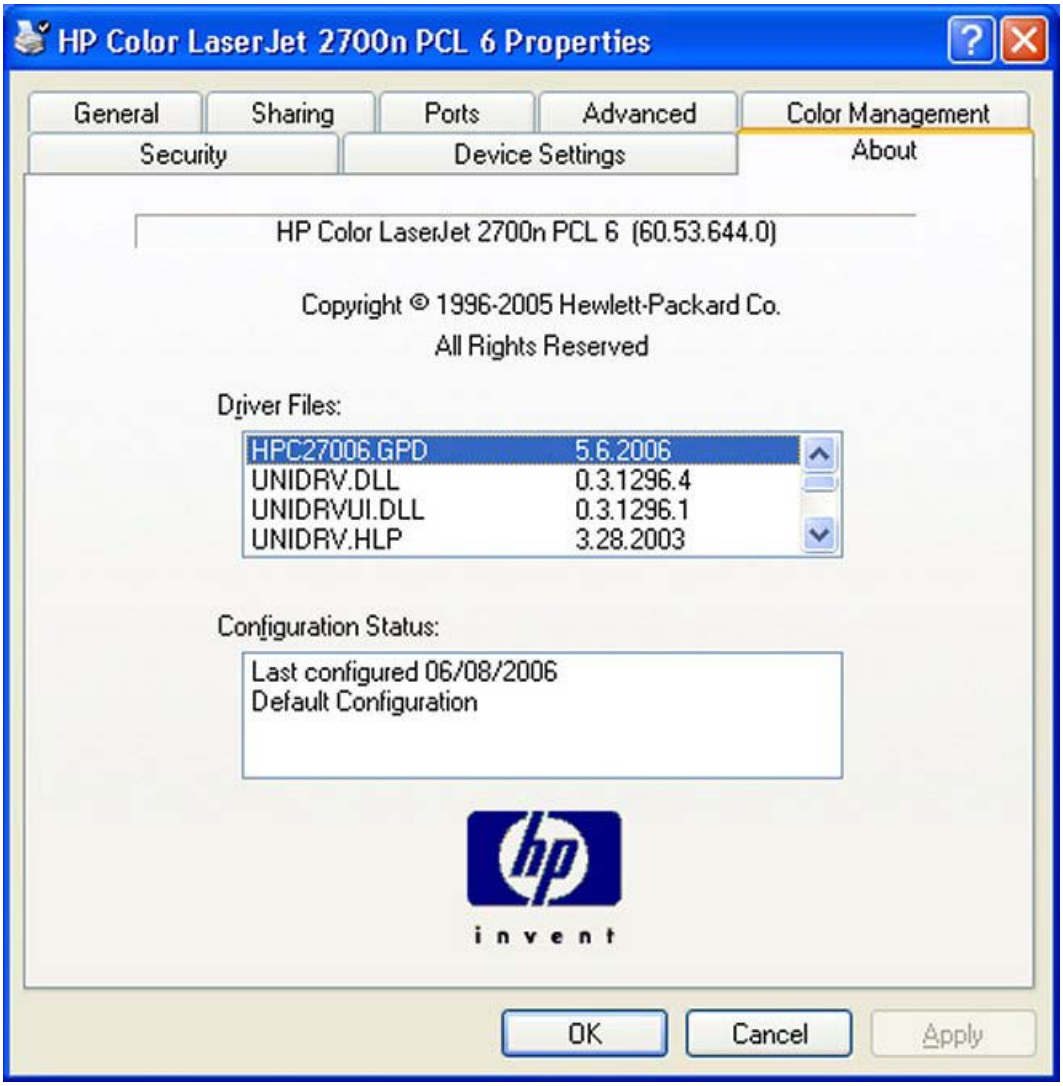


Figure 4-28 **About** tab

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 default or user-defined.

5 Macintosh

Introduction

The HP Color LaserJet 2700 comes with printing software and installers for Apple Computer, Inc., Macintosh operating systems.

Topics:

- Macintosh printing-system software
- Macintosh install and uninstall instructions
- HP Embedded Web Server (EWS)

Macintosh printing-system software

The HP Color LaserJet 2700 printing system for Macintosh is composed of an HP-created postscript printer definition file (PPD) and a printer dialog extension (PDE) file that work together with the Macintosh OS print system. These files are used by the Macintosh OS print system to determine default print settings and also allows the user to select between the various print options and settings and are installed by the provided HP LaserJet Installer. Additionally, an HP-supplied Macintosh printer device configuration utility is provided, which allows the user to access the printer's embedded web server (EWS) to allow for additional configuration and printer status monitoring. The following are provided on the installation CD:

- The HP LaserJet Installer for Macintosh
- Install notes (Readme file)

The following major components are installed by the HP LaserJet Installer for Mac:

- HP Color LaserJet 2700 PPD
- HP Color LaserJet 2700 PDE
- HP USB EWS Gateway
- HP Device Configuration Utility
- HP Uninstaller for the HP Device Configuration Utility and HP USB EWS Gateway

Topics:

- Hardware requirements
- Operating-system support
- Availability

Hardware requirements

- PowerPC G3, G4, G5 or Intel Core processor
- Minimum 128 MB system memory
- 32 MB or more of available hard-disk space
- A USB port, or an ethernet connection with on-board networking
- A CD-ROM drive (required for installation)

Operating-system support

- Mac OS X v10.2.8, v10.3, v10.4 and later are supported.
- Mac OS 9 and Mac OS X classic are not supported.

Availability

This document provides information about the availability of the HP Color LaserJet 2700 printing-system software and related software and firmware. Printing-system software on a CD is available from HP fulfillment centers.

Topics:

- Printing-system software on the Web
- In-box printing-system software CDs

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.

NOTE This document describes drivers that are shipped with the printing-system software CD. This document does *not* describe any drivers that might be released for use by support personnel.

Topics:

- Printing-system software
- Software component availability

Printing-system software

The HP Color LaserJet 2700 printing-system software is available for download at the following Web site:

www.hp.com/go/lj2700_softwarehttp://www.hp.com/go/lj2700_software

Software component availability

The following HP LaserJet software components are installed:

- HP Color LaserJet 2700 PPD
- HP Color LaserJet 2700 PDE
- HP USB EWS Gateway
- HP Device Configuration Utility
- HP Uninstaller for the HP Device Configuration Utility and HP USB EWS Gateway

In-box printing-system software CDs

The software CD for the HP Color LaserJet 2700 printer contains the files for installing the printing-system software on the computer.

Topics:

- Macintosh partition
- CD versions

Macintosh partition

The HP Color LaserJet 2700 printing-system software CD is divided into two partitions, one for each of the following operating systems:

- MS Windows
- Macintosh

The HP Macintosh printing-system software files all reside in the Macintosh partition. The HP LaserJet Installer for Macintosh is at the root of the Macintosh CD Partition. The user manuals (in PDF format) are grouped by language and are under the Documents directory on the Macintosh CD Partition.

CD versions

The software CD for the HP Color LaserJet 2700 contains the files for installing the printing-system software on the computer.

The HP Color LaserJet 2700 printing-system software CD is available in 3 versions, each of which contains printing-system documentation in various languages, as follows:

- **CD AM – Americas and Western Europe (part number Q7824–60102):**
  - AR = Arabic
  - CA = Catalan (Català)
  - DA = Danish (Dansk)
  - DE = German (Deutsch)
  - FI = Finnish (Suomi)
  - NL = Dutch (Nederland)
  - EL = Greek
  - EN = English
  - ES = Spanish (Español)
  - FR = French (Français)
  - IT = Italian (Italiano)
  - NO = Norwegian (Norsk)
  - SV = Swedish (Svenska)
  - PT = Portugese (Portugués)
- **CD EMEA (part number Q7824–60103):**
  - HR = Croatian
  - CS = Czech (Cesky)
  - EN = English
  - EL = Greek

- HE = Hebrew
- HU = Hungarian (Magyar)
- PL = Polish (Polski)
- RO = Romanian
- RU = Russian
- SK = Slovak
- SL = Slovenian
- TR = Turkish

- **CD Asia (part number Q7824–60101):**
  - ID = Indonesian (Bahasa)
  - EN = English
  - KO = Korean
  - JA = Japanese
  - TH = Thai
  - ZHCN = Simplified Chinese
  - ZHTW = Traditional Chinese

Macintosh install and uninstall instructions

The HP Color LaserJet 2700 printer comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. This document provides procedures for installing and removing the HP Color LaserJet 2700 printing-system software for Macintosh operating systems.

Topics:

- Macintosh component descriptions
- Install the Macintosh printing system
- Uninstall the Macintosh printing system

Macintosh component descriptions

The device includes the following software for Macintosh computers:

- HP Color LaserJet 2700
- HP Color LaserJet 2700n
- HP USB EWS Gateway
- HP Device Configuration Utility
- HP Uninstaller for the HP Device Configuration Utility and HP USB EWS Gateway

Topics:

- HP LaserJet PPDs
- PDEs
- HP Embedded Web Server
- Install notes (Readme file)
- Online help

HP LaserJet PPDs

In Mac OS X V10.2.8 or later, the PPDs are installed in **Library/Printers/PPDs/Contents/Resources:<lang>.lproj**, where **<lang>** is the appropriate localized folder.

The path to the Library folder varies depending on which Mac OS X version is in use.

- To get to the **Library** folder In Mac OS X V10.2.8 , first select **Go** from the upper toolbar, select **Computer**, then click Mcintosh HD.

The PPDs, in combination with the driver, provide access to the device configuration settings and installable options. These settings are usually configured during the installation process by using Apple Mac OS X tools such as Print Center, Printer Setup Utility, and Print & Fax. For more information, see Table 5-1 Adding a printer in Macintosh operating systems.

PDEs

Printer Dialog Extensions (PDEs) are code plug-ins (for Mac OS X V10.2.8 or later only) that provide access to device features, such as number of copies, manual duplexing, and quality settings.

HP Embedded Web Server

Mac OS X supports the HP Embedded Web Server (HP EWS). Use the HP EWS to perform the following tasks:

- View the device status and change device settings.
- View and change network settings for the device.
- Print information pages for the device.
- View the device event log.

The HP EWS is accessed by using a web browser such as Safari. The HP USB EWS Gateway software allows the web browser to access the device if the device is connected using a USB cable. The HP EWS can also by opened by choosing the **Utility** button in the Macintosh Print Center or Printer Setup Utility, or through the HP Device Configuration utility.

Install notes (Readme file)

This text file contains information about basic device installation and OS support.

Online help

The help system is in English only, and can be viewed through a browser or in the Macintosh OS Help Center.

Install the Macintosh printing system

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 access rights to the printer. The computer user must also have administrative rights on the computer in order to install the software.

Topics:

- General installation for Macintosh operating systems
- Detailed Mac OS X installation
- Printer setup

General installation for Macintosh operating systems

1. If you are connecting the printer to a network, connect the network cable to the printer network port (on HP Color LaserJet 2700n model printers only). If you are connecting the printer to a computer using the USB cable, install the software *before* connecting the USB cable. The installation software prompts you to connect the USB cable at the appropriate time.
2. Insert the Macintosh printing-system software CD into the CD-ROM drive.

   NOTE If the CD screen does not open automatically, double-click the **HP LaserJet 2700** CD-ROM icon on the desktop to open the CD-ROM window.

3. The **HP LaserJet** screen appears. Double-click on the **HP Color Laserjet 2700.app** label or **Vise X** icon to open the installer.

NOTE The **Continue** button appears only after you type the "admin" password in the **Authenticate** dialog.

4. The main **Installer** dialog appears. Click **Install** and then follow the on-screen instructions to complete the software installation.

NOTE When you are installing the printing-system software, 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.

5. When software installation is complete, the opening **HP LaserJet** screen again appears. This screen has a photo of printers, the **HP Color LaserJet 2700.app** label with the **Vise X** icon, and the **Documents** icon. Close this screen and continue with the steps for setting up a printer.

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

Table 5-1 Adding a printer in Macintosh operating systems

Operating System	Print Center	Printer Setup Utility	Print & Fax
Mac OS X V10.2.8	x		
Mac OS X V10.3		x	x
Mac OS X V10.4		x	x

Detailed Mac OS X installation

Topics:

- Main Install dialog sequence

Main Install dialog sequence

This section provides information about the Macintosh installation dialog-box sequence.

NOTE If you are installing the printer using a network connection, you can connect the printer to the network before installing the software, but if you are installing the printer using a USB connection, install the software *before* connecting the USB cable. The installation software prompts you to connect the USB cable at the appropriate time.

Insert the HP Color LaserJet 2700 printing-system software CD in the CD-ROM drive.

If the CD screen does not open automatically when the CD is put into the CD-ROM drive, double-click the **HP LaserJet 2700** CD-ROM icon on the desktop to open the installer folder.

Figure 5-1 **HP LaserJet 2700** CD-ROM icon

The **HP LaserJet Software** dialog opens.

Figure 5-2 **HP LaserJet** screen

Double-click on the **HP Color Laserjet 2700.app** icon to open the installer. This begins the install process.

The **Authenticate** dialog appears.

Figure 5-3 **Authenticate** dialog

Type the correct “admin” name and password and click **OK** to continue.

Click **Cancel** to exit the installation.

The **License** dialog appears.

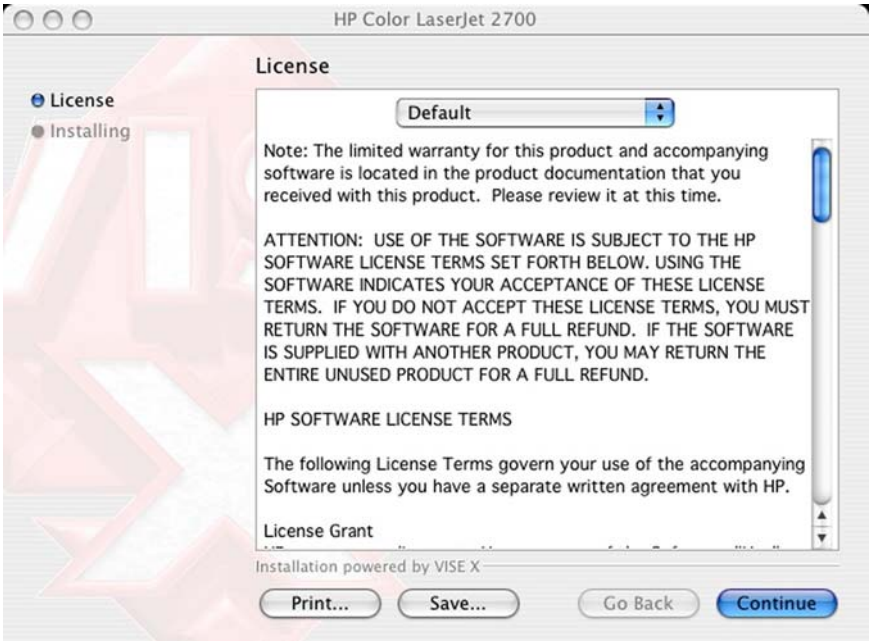


Figure 5-4 **License** dialog

Click **Print…** to open the **Page Setup** dialog for the default printer and print a copy of the license agreement.

Click **Save…** to open the system **Save** dialog and save the license agreement to disk.

Read the software-license agreement and then click **Continue** to continue the installation. A dialog appears, asking you to accept the license agreement. Click **Agree** to accept the agreement. The **Installing** screen appears.

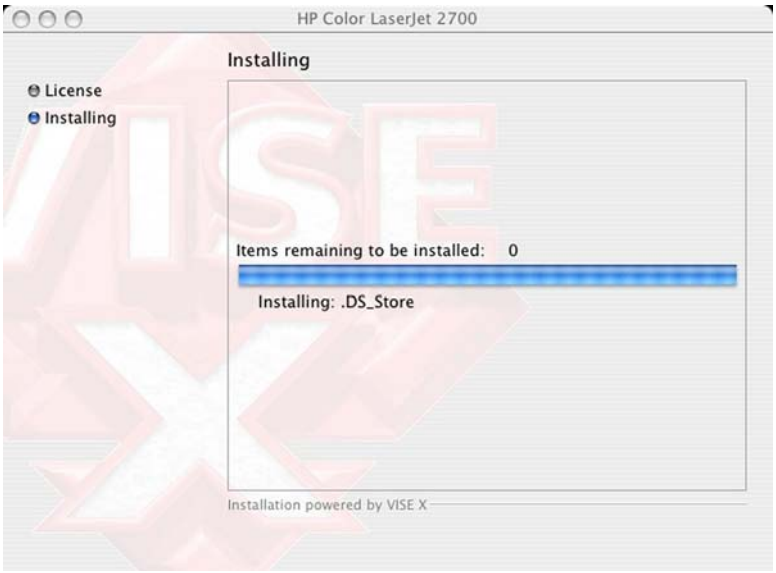


Figure 5-5 **Installing** screen

The **Installing** dialog shows installation progress. No action is required unless you want to stop the installation. Click the upper left red circle to interrupt the install file copy process.

The installation screen closes automatically when the printing-system software installation is finished.

Figure 5-6 USB Cable

After the Installing screen finishes, a USB Cable pop-up screen appears. This dialogue prompts the user to perform a USB connection between the printer and the computer. If the connection is wanted, make it at this time. When completed, click **OK**.

If the computer and printer are installed with a network connection, no action is needed. Click **OK** to close the screen

Hewlett-Packard Color LaserJet 2700 Series Printing-system Install Notes

Edition 1, 03/2006

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Warranty
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Copyright

I. INSTALLATION INSTRUCTIONS

INSTALLING SOFTWARE ON MACINTOSH OS 10.2.X, 10.3X, and 10.4.X

USB installation instructions

1. Insert the CD-ROM.
2. Run the installation utility.
3. After the software installation is complete, attach the USB cable to the printer and the computer and then restart the computer.
4. After the computer has restarted, open the Print Center or Printer Setup Utility to see if the printer name appears in the Printer List.
5. If the printer name displays in the Printer List, the setup is complete. If the printer name does not display in the Printer List, go to the next step.
6. Click the **Add** button, and then select **USB** from the drop-down list.
7. Select **HP Color LaserJet 2700** and then click **Add**. The printer name displays in the Printer List. Setup is complete.

Figure 5-7 Install Notes (ReadMe) screen

The **Hewlett-Packard Color LaserJet 2700 Series Printing-system Install Notes** (ReadMe) file opens and the screen appears. Installation of the printing-system software is complete. Close the **Install Notes** screen window to exit the installer.

The installation sequence is over once you close out the **Install Notes** file and the opening **HP LaserJet** screen again appears.

Figure 5-8 **HP LaserJet** opening screen

The original screen from the beginning of the installation appears again after closing the **Install Note** screen. Close this screen and go to the Printer setup instructions to complete the printer connection to a Macintosh computer.

Printer setup

After installing the printing-system software in Macintosh operating systems, the printer must be set up.

Topics:

- Set up a printer
- Troubleshooting the printer setup

Set up a printer

NOTE This section describes setting up a printer with a Mac OS X V10.4.

Carry out these steps *after* the software installation is complete.

1. If you are installing the printer using a USB connection, connect the USB cable between the HP Color LaserJet 2700 printer and the computer. Turn on the printer. If you are installing using a network connection, verify that the network cable is connected to the printer and the printer is on.

2. From the **Go** tab on the upper toolbar, select the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility** (or **Print Center** in Mac V 10.2.8). The **Printer List** appears. It looks similar to the one shown in the following figure.

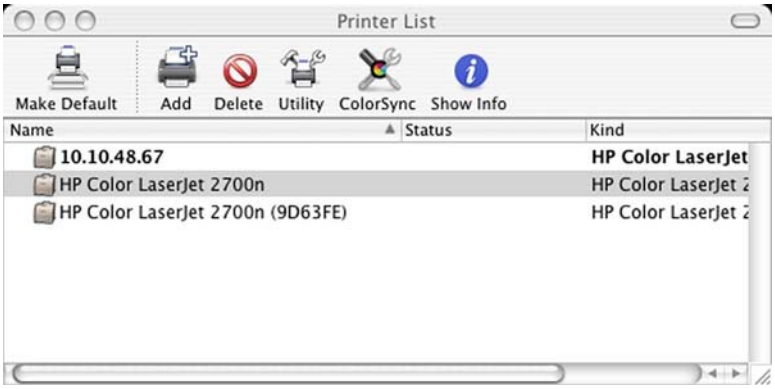

Figure 5-9 **Printer list** screen

The printer can also be configured using the **Print & Fax** pane of **System Preferences** (from the Apple menu, choose **System Preferences...**, then choose **Print & Fax**).

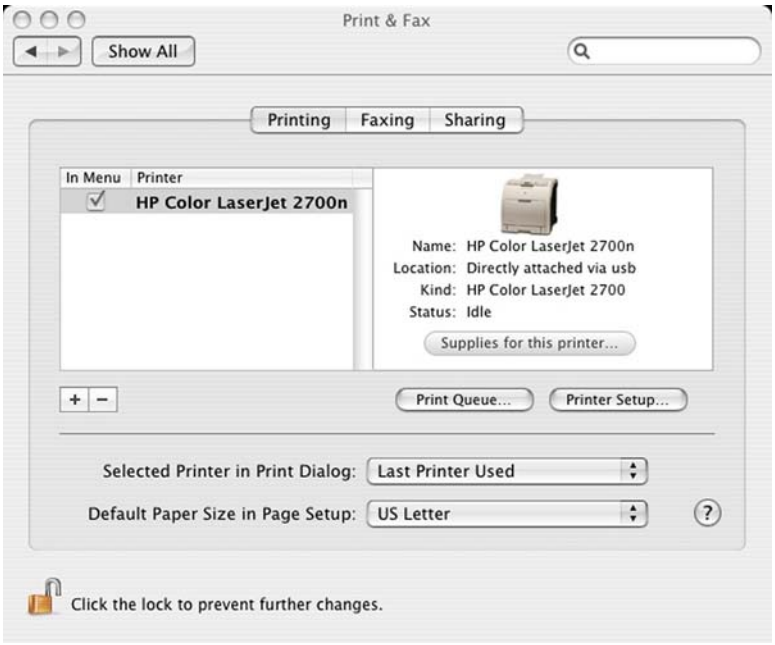

Figure 5-10 **Print & Fax** screen

On the **Print & Fax** screen, highlight the HP Color LaserJet 2700 model printer that is being installed.

3. If installing the printer using a USB connection, verify that the printer appears on the printer list. Setup is complete when the **HP Color LaserJet 2700** printer name appears in **Kind** column display list.

   If the printer does not appear, or if the correct information does not appear in the **Kind** column, see Troubleshooting the printer setup.

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

4. Click **Add** (or the **+** button in the Print & Fax utility) to open the Printer Browser screen.

5. For a network connection you can select one of the following from the Printer Browser drop-down list:

   - **Bonjour** in Mac V10.4 and higher or **Rendezvous** in Mac V10.3.
   - **IP Printing**.

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

   a. Click the **Default Browser** tab, which will automatically set the **Bonjour** connection.

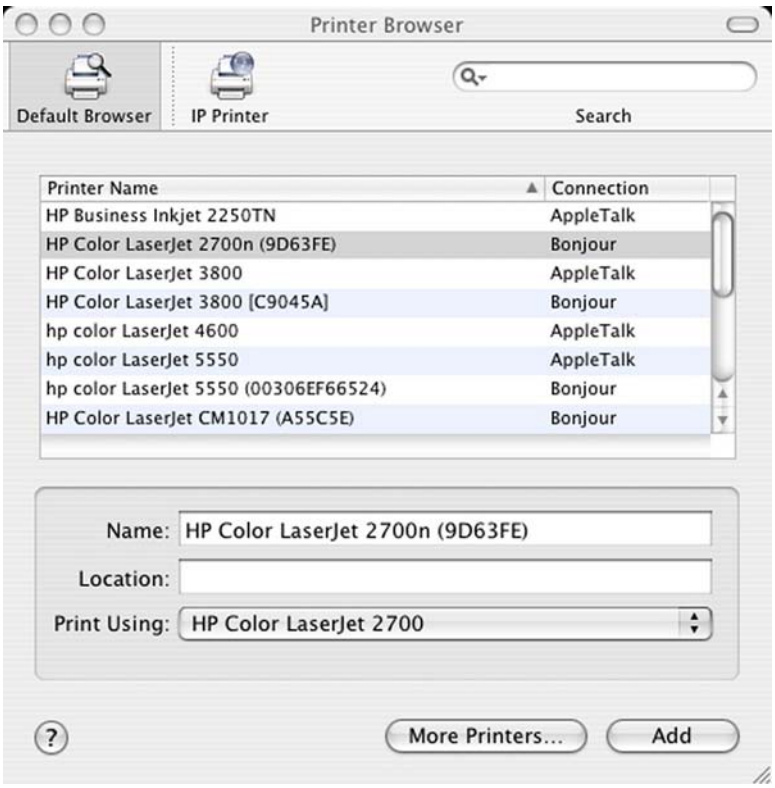

Figure 5-11 **Default Browser** screen for Bonjour

   b. Select the **HP Color LaserJet 2700** printer from the list. The software verifies that the printer is connected to the network and the **Print Using** field is automatically populated with the correct PPD for the printer.

NOTE If the **HP Color LaserJet 2700** does not appear in the list, verify that the printer is on and connected to the network, then try turning the printer off and then on again. If the **HP Color LaserJet 2700** 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 printer setup.

If you want to use the **IP** Printing method, carry out the following steps:

a. Click the **IP Printer** tab.

b. From the **Protocol** pull-down menu, select the **HP Jet Direct – Socket** option. This is the recommended setting for HP printers.

Figure 5-12 IP Printer Browser screen with **HP JetDirect – Socket** selected

c. Type in the IP address in the **Address** entry.

To find the printer IP address, run a configuration page from the printer control panel. Make sure the control panel heading reads **Ready**. (If the printer control panels does *not* read **Ready**, press the square orange **X** button to the right of the printer control panel window).

- Use the arrow key to scroll to **Main menu/Reports**, and then press **OK**.
- Use the arrow key to scroll to **Reports/Config report**, and then press **OK**. The configuration page will print.

Find the address under the **Product Settings** heading. Type this address into the **Address** field on the add printer screen.

d. The **Name**, **Location**, and the computer will automatically fill in the **Print Using** information. If the **HP Color LaserJet 2700** PPD does not appear in the **Print Using** field, turn the computer off and then on again and restart the setup process.

6. Click **Add**. The **Installable Options** screen appears.

Figure 5-13 **Installable Options** screen

7. If the optional 500-sheet tray 3 is installed on the printer, select **Installed** from the **Tray 3** menu, and then click **Continue**.

8. The device name appears in the **Printer List** and the setup is complete.

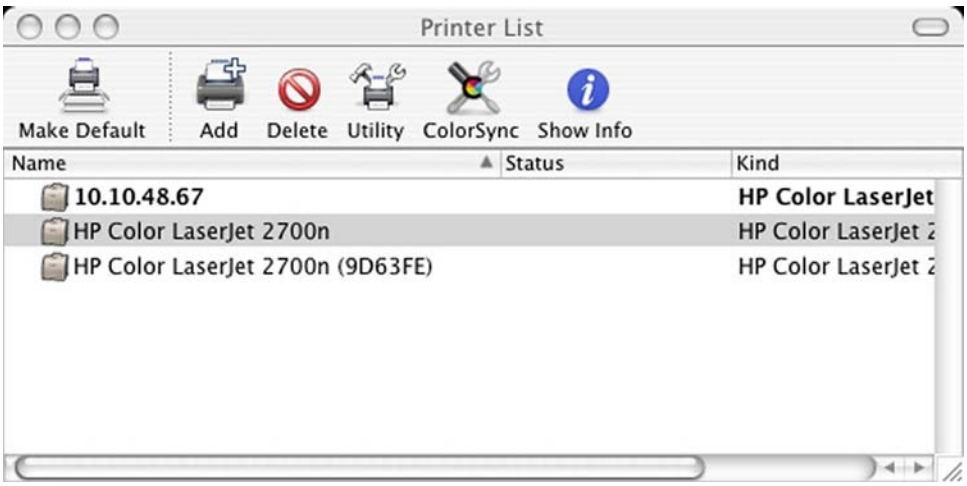

Figure 5-14 **Printer List** screen

Troubleshooting the printer setup

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

Carry out 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 printer and the computer and that the printer 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 printer off and then back on again.
- If you are using a USB hub on the computer, disconnect the other USB devices from the hub.

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

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

If these steps do not resolve the problem, delete the incorrect print queue, click **Add**, select the printer from the list, and then browse manually for the **HP Color LaserJet 2700** PPD.

Uninstall the Macintosh printing system

Follow these instructions to uninstall the Macintosh Printing System.

1. Browse to the folder containing the PPDs. In Mac OS X V10.2.8 or later, the PPDs are installed in **Library/Printers/PPDs/Contents/Resources:<lang>.lproj**, where **<lang>** is the appropriate language.
2. Select the HP Color LaserJet 2700.gz file and drag it to **Trash**.
3. Empty the **Trash**.
4. To uninstall the HP Device Configuration application and supporting files, go to Applications/HP EWS Device Configuration and run the HP Uninstaller application.

HP Embedded Web Server (EWS)

HP EWS is an embedded web server in the printer firmware. It provides access to additional printer status and configuration tools in Mac OS X.

Topics:

- Access to the HP EWS
- Status tab
- Settings tab
- Networking tab

Access to the HP EWS

Use any one of the following methods to gain access to the HP EWS:

- **Using the Mac OS Print Center, Printer Setup Utility, or Print & Fax screen:**

1. In the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility** or the **Print Center** utility.

   You can also access the HP EWS using the **Print & Fax** pane of **System Preferences** (from the Apple menu, choose **System Preferences...**, then choose **Print & Fax**).

2. Select the HP Color LaserJet 2700 printer, and then click **Utility** (Mac OS X V10.3 or later). The web browser opens and the **Device Status** screen appears. In the **Print & Fax** screen, select the HP Color LaserJet 2700 printer, click the **Print Queue...** button, then click **Utility**.

- **Using a web browser:**

NOTE This method can only be used if the printer is using a network connection.

1. Find the printer IP address by running a configuration page from the printer control panel.

   Make sure the control panel heading reads **Ready**. (If the printer control panels does *not* read **Ready**, press the square orange **X** button to the right of the printer control panel window).

   - Use the arrow key to scroll to **Main menu/Reports**, and then press **OK**.
   - Use the arrow key to scroll to **Reports/Config report**, and then press **OK**. The configuration page will print.

   Find the IP address under the **Product Settings** heading.

2. Type the printer's IP address into a web browser such as Safari. The HP EWS **Device Status** screen appears.

- **Using HP Device Configuration**

1. In the Applications folder, open the HP EWS Device Configuration folder. Double-click the HP Device Configuration icon.

2. Select the HP Color LaserJet 2700 from the list of devices. The web browser opens the EWS and the **Device Status** screen appears.

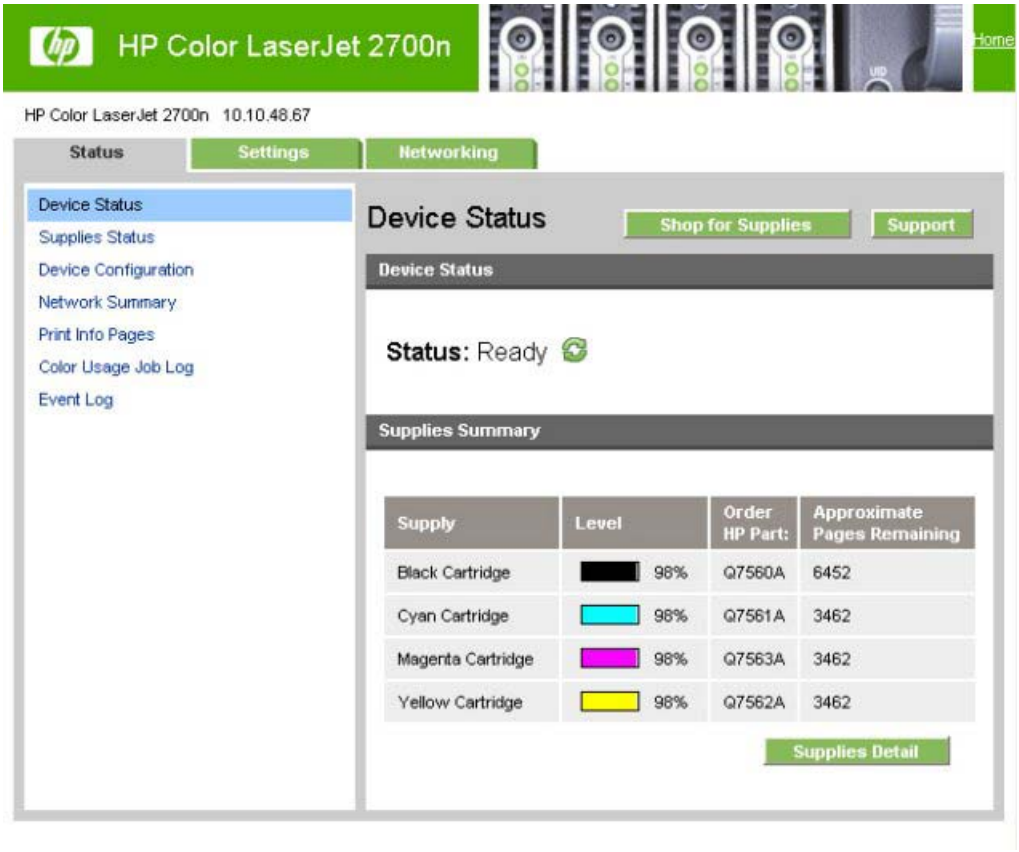

Figure 5-15 Device Status screen

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

Status tab

The **Status** tab allows you to access and print out detailed information regarding device and supply status, device configuration, network configuration, and usage.

The **Status** tab contains the following pages:

- Device Status
- Supplies Status page
- Device Configuration page
- Network Summary page
- Print Info Pages
- Event Log page

Device Status

The **Device Status** page shows device status messages from the device. The **Device Status** page also displays some pertinent printer information and device settings.

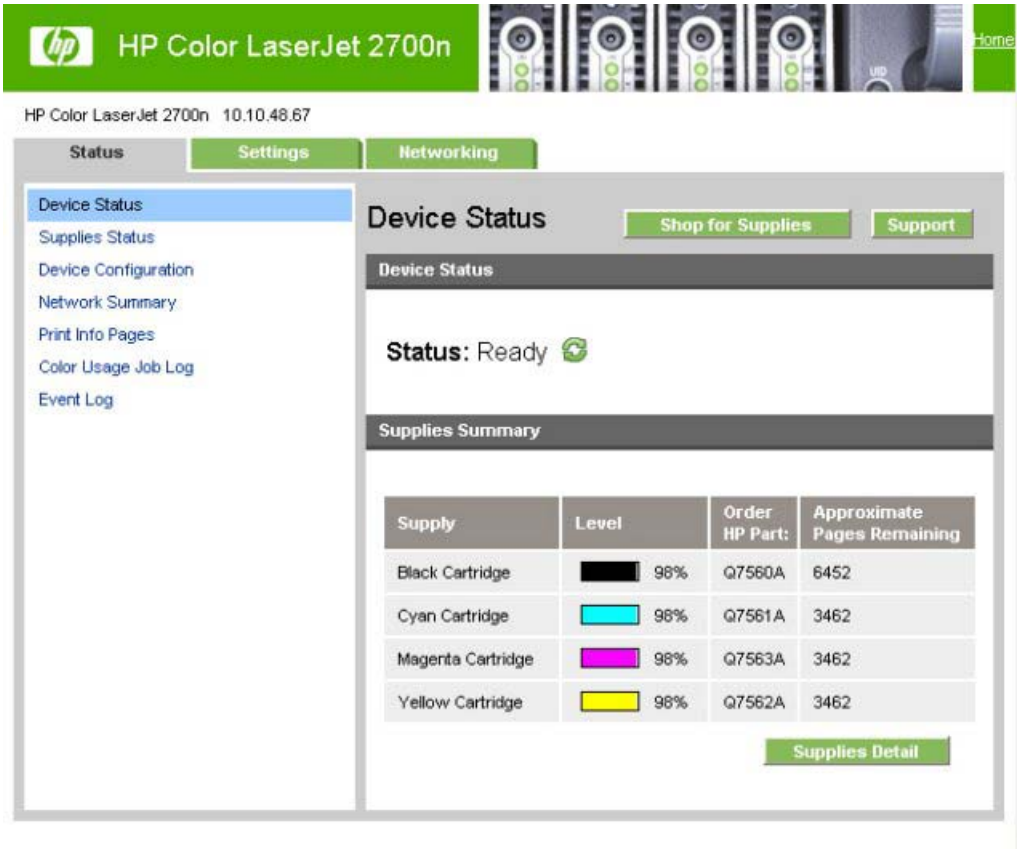

Figure 5-16 HP EWS – **Device Status** page

Supplies Status page

The **Supplies Status** page displays the status of all of the supplies used by the printer, including the black, cyan, magenta, and yellow print cartridges.

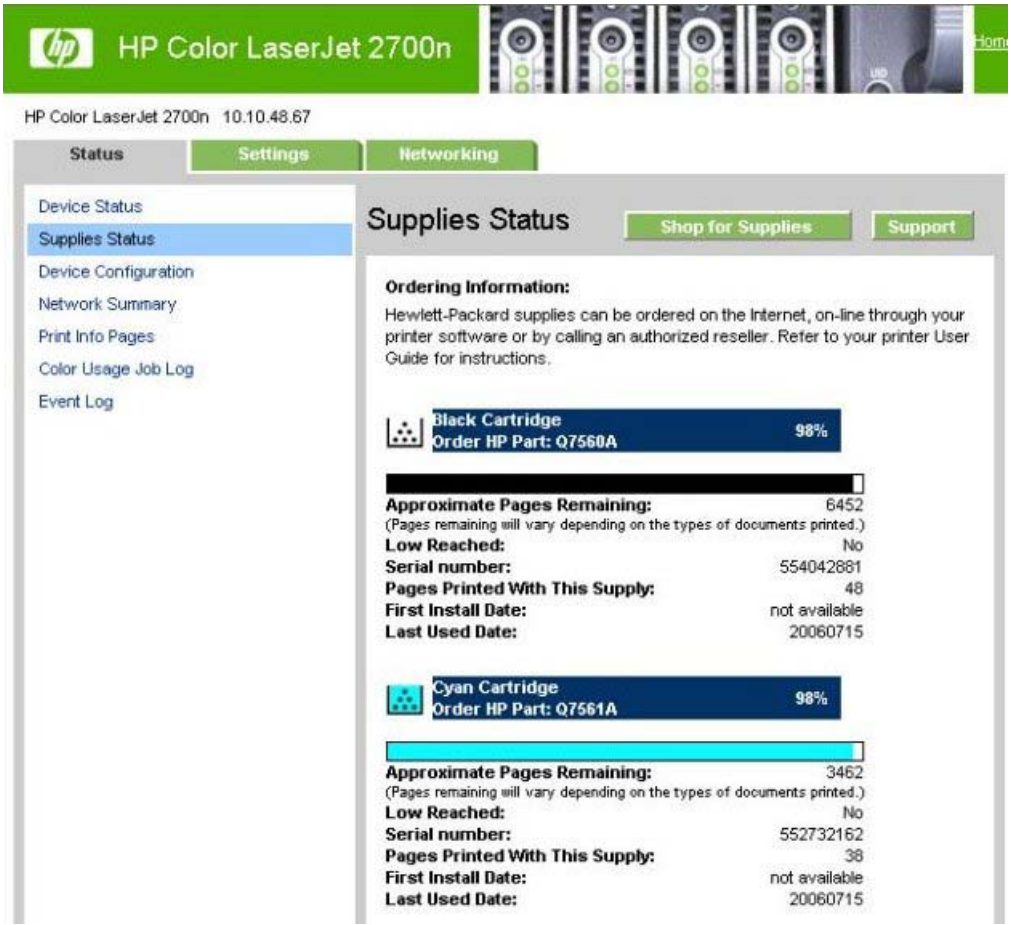

Figure 5-17 HP EWS – **Supplies Status** page (1 of 2)

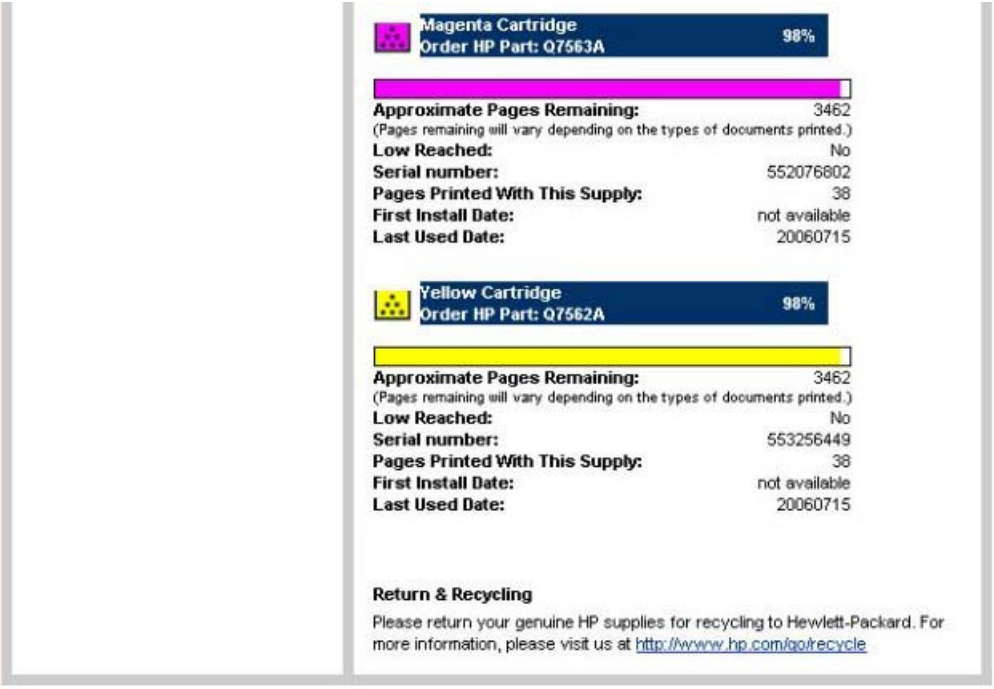

Figure 5-18 HP EWS – **Supplies Status (2 of 2)**

Device Configuration page

The **Device Configuration** page displays the values of all of the settings available to be set in the printer. The contents of this page are consistent with the Configuration page generated by the firmware.

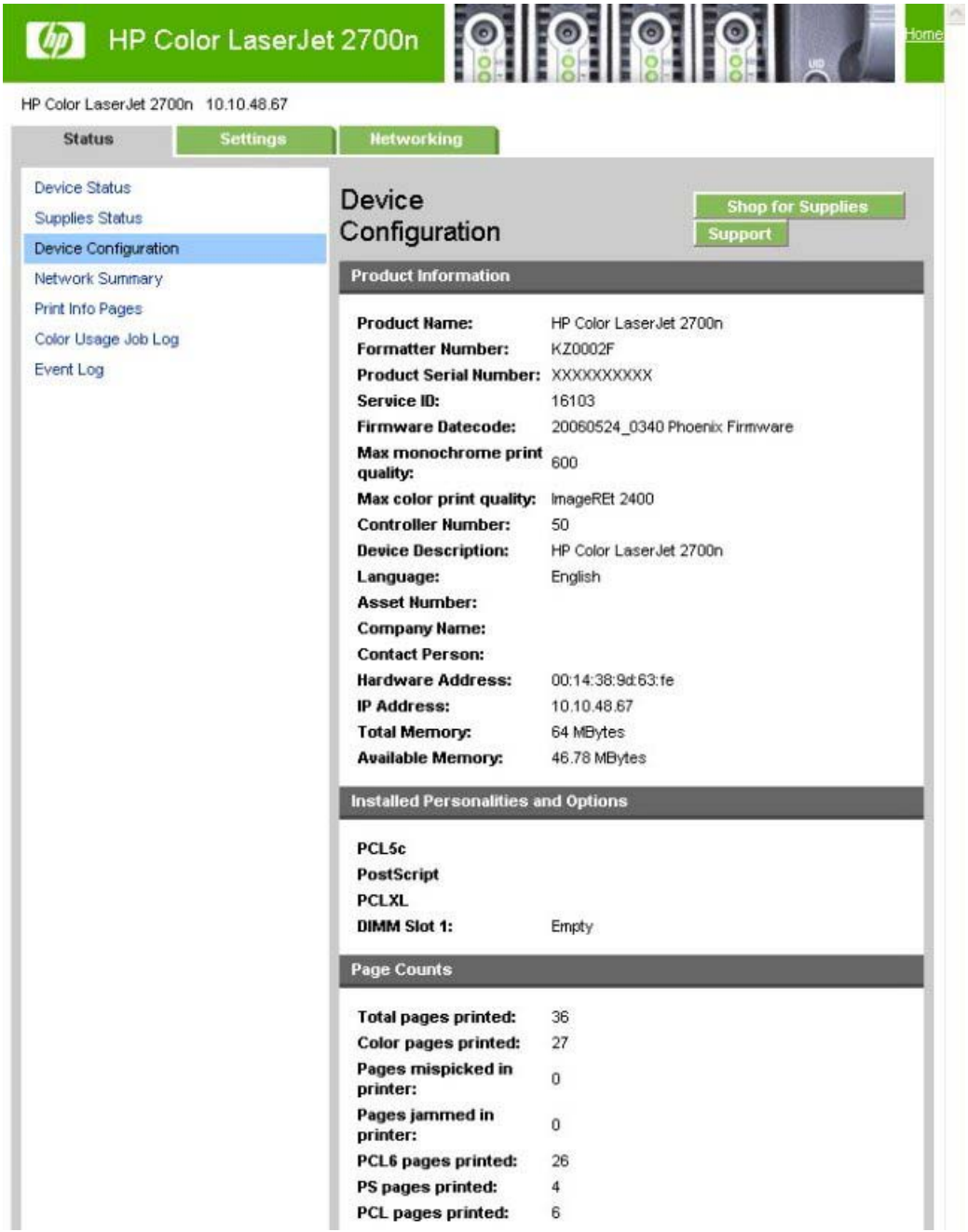

Figure 5-19 HP EWS – **Device Configuration** page (1 of 2)

Paper Settings

Paper size:	Letter
Paper type:	Plain
Tray 1 size:	Any size
Tray 1 type:	Any type
Tray 2 size:	Any size
Tray 2 type:	Any type
Paper out action:	Wait forever
Manual Feed:	Off
Plain:	Normal
HP Cover 200g:	Card stock
HP Matte 200g:	Card stock
HP Glossy 220g:	Glossy
Light:	Light
Intermediate:	Normal
Heavy:	Heavy
Card stock:	Card stock
Glossy:	Glossy
Extra heavy:	Card stock
Transparency:	Transparency
Labels:	Label
Letterhead:	Normal
Preprinted:	Normal
Prepunched:	Normal
Color:	Normal
Rough:	Rough
Bond:	Heavy
Recycled:	Normal
Envelope:	Envelope
Tough paper:	Tough paper

Print Settings

Auto Continue:	Off
Copies:	1
Courier font:	Regular
Orientation:	P (Portrait)
Wide A4:	No
Connection Timeout (I/O):	120 seconds
Jam recovery:	Auto
Font source:	I (Internal)
Font number:	23
Pitch:	10.00
Point size:	12.00
Symbol set:	PC-8
Form:	60 Lines
Append CR to LF:	No
Print PS Errors:	Off
Print to fade (Override):	No
Mono print (color out):	No
Restrict color:	Color enabled

Print Density

	C	M	Y	K
Contrasts:	0	0	0	0
Highlights:	0	0	0	0
Midtones:	0	0	0	0
Shadows:	0	0	0	0

Figure 5-20 HP EWS – **Device Configuration** page (2 of 2)

Network Summary page

The **Network Summary** page contains all the information about the network and its enabled features.

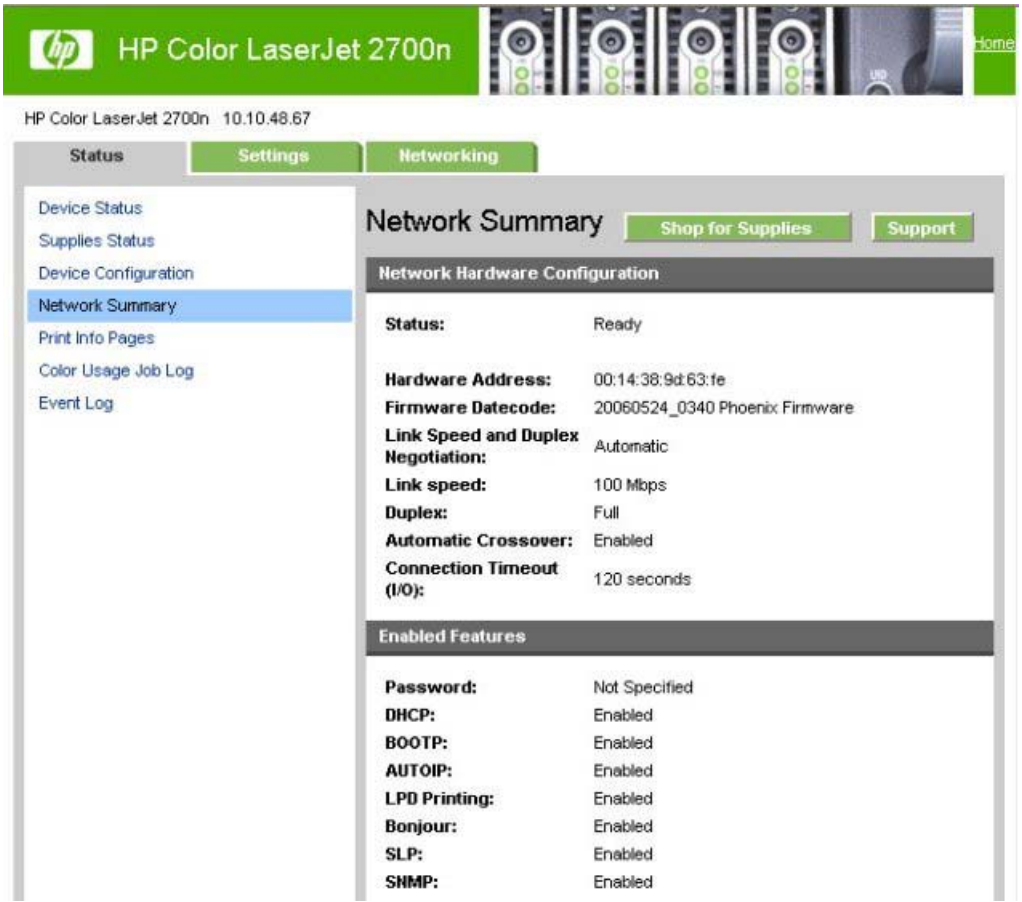

Figure 5-21 HP EWS – **Network Summary** page (1 of 2)

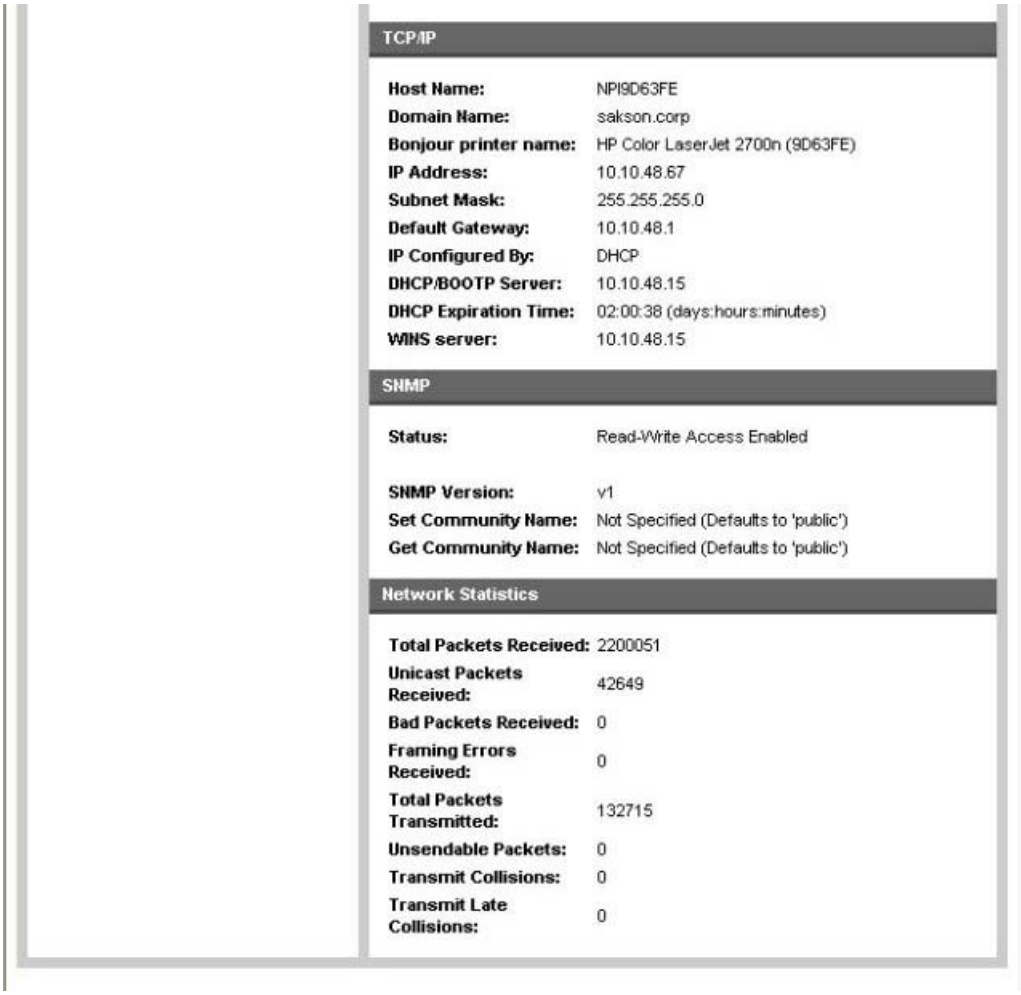

Figure 5-22 HP EWS – **Network Summary** page (2 of 2)

Print Info Pages

The **Print Info Pages** page provides users the ability to easily print out the internal special pages that are generated by the device. The following information pages are available.

- PCL Font List
- PCL6 Font List
- PS Font List
- Supplies Page

Figure 5-23 HP EWS – **Print Info Pages** page

Event Log page

Use the **Event Log** page to track the events that occur on the HP Color LaserJet 2700 printer.

Figure 5-24 HP EWS – **Event Log** page

Settings tab

The **Settings** tab allows you to view and change settings for the following features:

- Device Information page
- Paper Handling page
- Printing page
- PCL5c page
- PostScript page
- Print Quality page
- Paper Types page
- System Setup page
- Service page
- Password page

Device Information page

The **Device Information** page contains identifying information about the HP Color LaserJet 2700 printer.

Figure 5-25 HP EWS – **Device Information** page

Paper Handling page

Use this page to configure the paper-handling settings for the HP Color LaserJet 2700 printer.

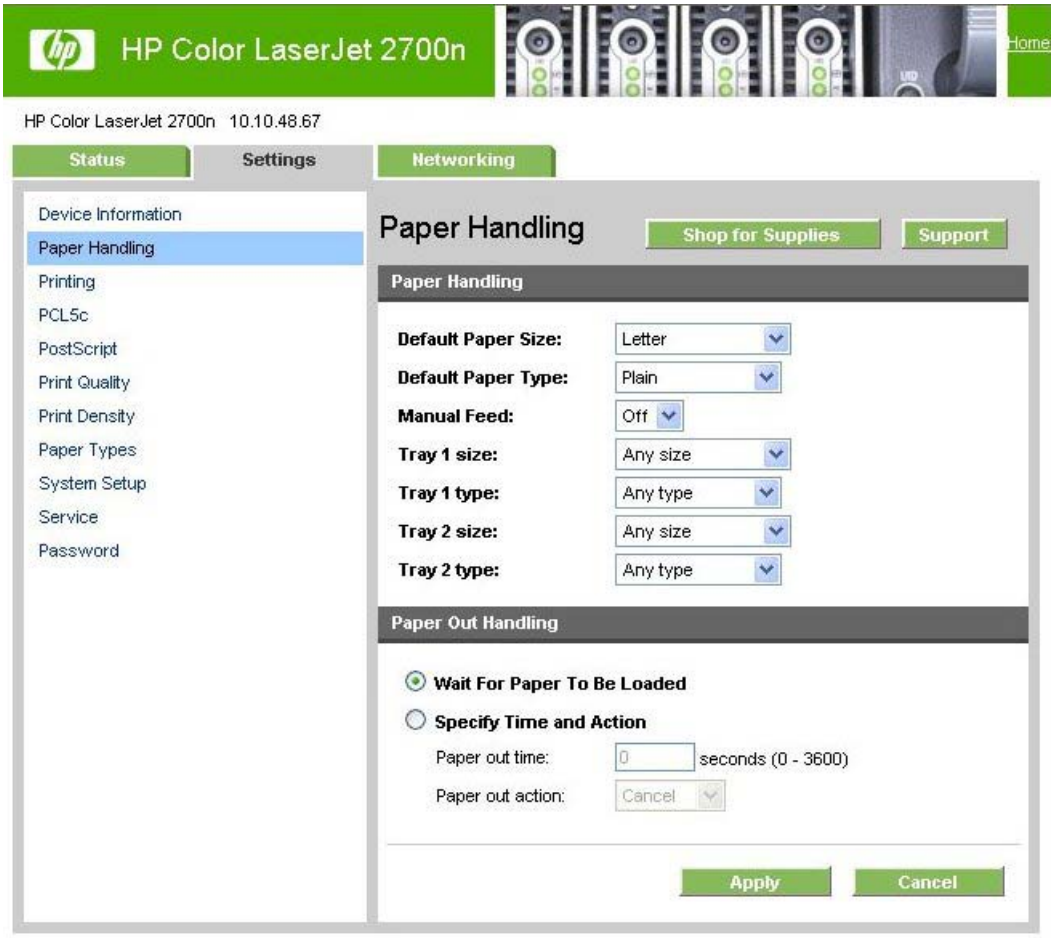

Figure 5-26 HP EWS – **Paper Handling** page

Printing page

Use this page to change the printing defaults for the HP Color LaserJet 2700 printer.

Figure 5-27 HP EWS – **Printing** page

PCL5c page

Use the **PCL5c** page to change font information and form length. This page does not apply to Macintosh print drivers.

Figure 5-28 HP EWS – **PCL5c** page

PostScript page

The **PostScript** page allows you to change the **Print PS Errors** option.

Figure 5-29 HP EWS – **PostScript** page

Print Quality page

Use the **Print Quality** page to change the print quality defaults for the HP Color LaserJet 2700 printer.

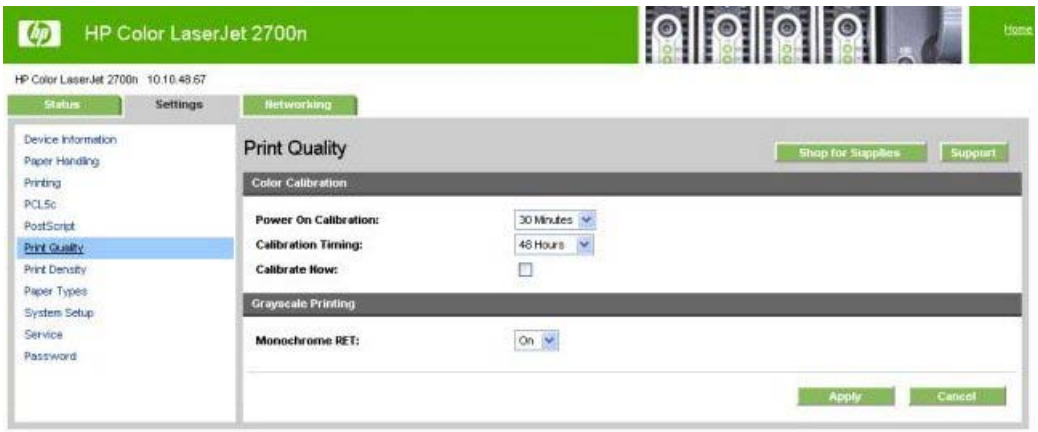

Figure 5-30 HP EWS – **Print Quality** page

Paper Types page

Use the **Paper Types** page to set the default paper type settings for the HP Color LaserJet 2700 printer.

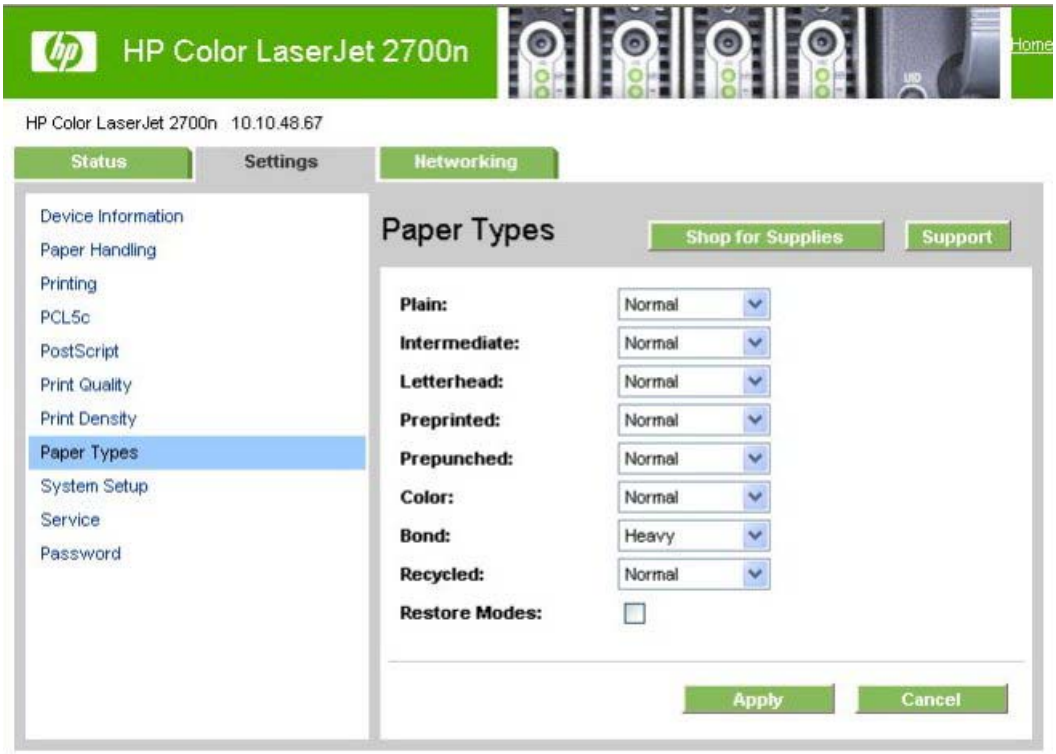

Figure 5-31 HP EWS – **Paper Types** page

System Setup page

Use the **System Setup** page to change settings on the HP Color LaserJet 2700 printer such as Jam Recovery and Auto Continue.

Figure 5-32 HP EWS – **System Setup** page

Service page

Use the **Service** page to initiate the cleaning mode on the HP Color LaserJet 2700 printer.

Figure 5-33 HP EWS – **Service** page

Password page

Use this page to set or change the Administrator password.

Figure 5-34 HP EWS – **Password** page

Networking tab

The **Networking** tab allows you to view and change settings for the device's network connection and communication. The following pages are available:

- IP Configuration page
- Advanced page
- Bonjour page
- SNMP page
- Network Summary page

IP Configuration page

Use the **IP Configuration** page to configure the IP address and host and domain names for the HP Color LaserJet 2700 printer.

Figure 5-35 HP EWS – **IP Configuration** page

Advanced page

Use the **Advanced** page to configure the enabled settings and other settings, such as link speed, for the HP Color LaserJet 2700 printer.

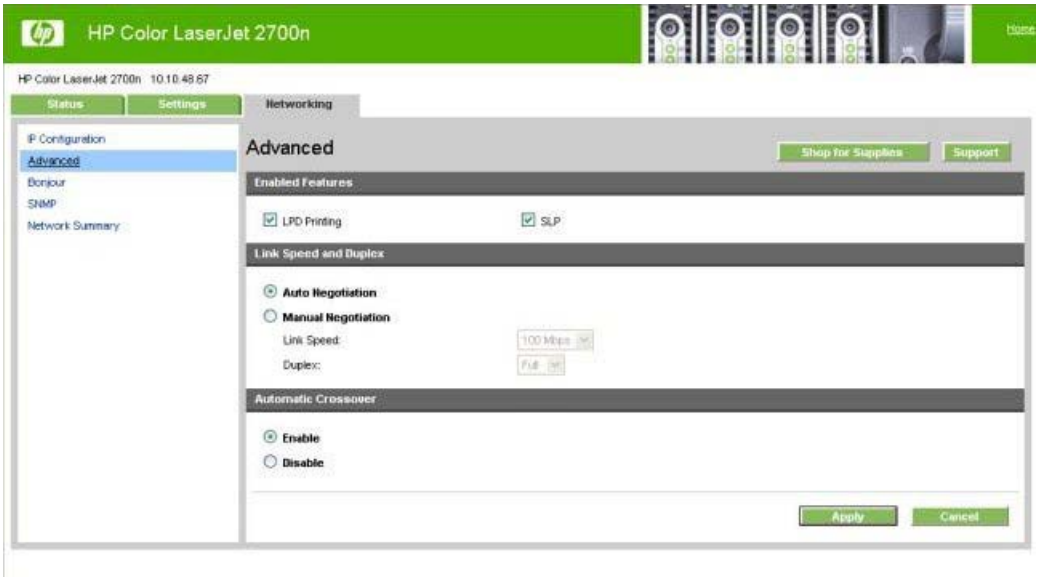

Figure 5-36 HP EWS – **Advanced** page

Bonjour page

Use the **Bonjour** page to enable or disable the Bonjour settings for the HP Color LaserJet 2700 printer. You can also use this page to change the Bonjour printer name.

Figure 5-37 HP EWS – **Bonjour** page

SNMP page

Use this page to configure the SNMP settings for the HP Color LaserJet 2700 printer.

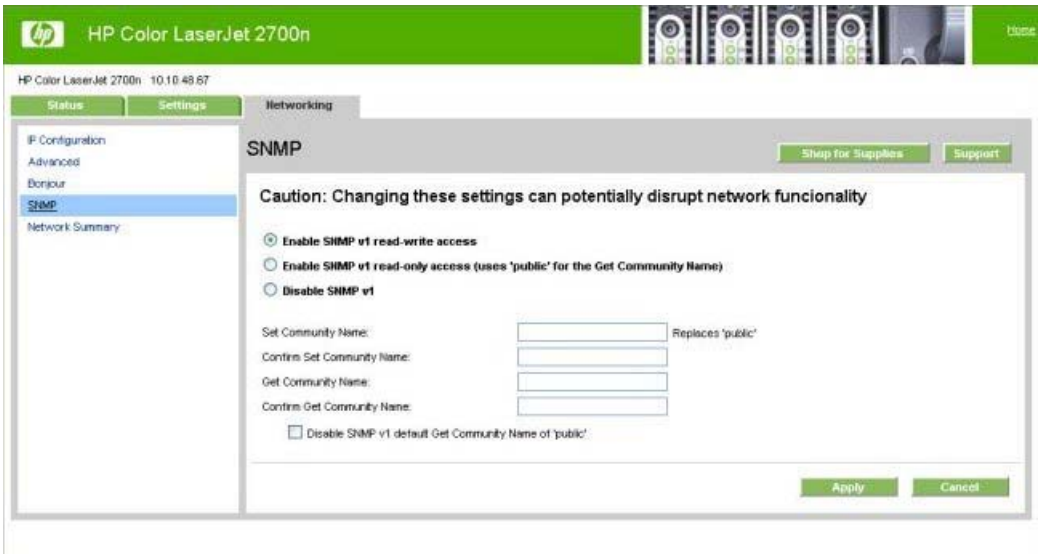

Figure 5-38 HP EWS – **SNMP** page

Network Summary page

The **Network Summary** page contains all the information about the network and its enabled features.

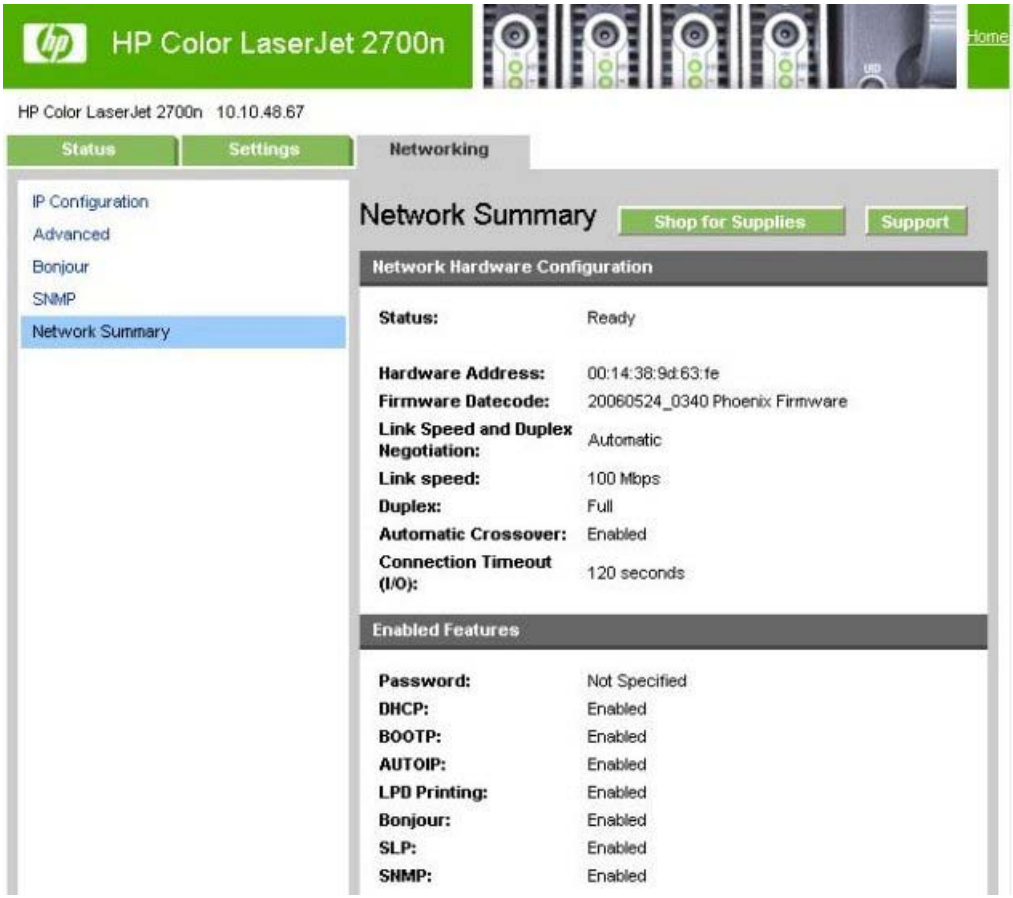

Figure 5-39 HP EWS – **Network Summary** page (1 of 2)

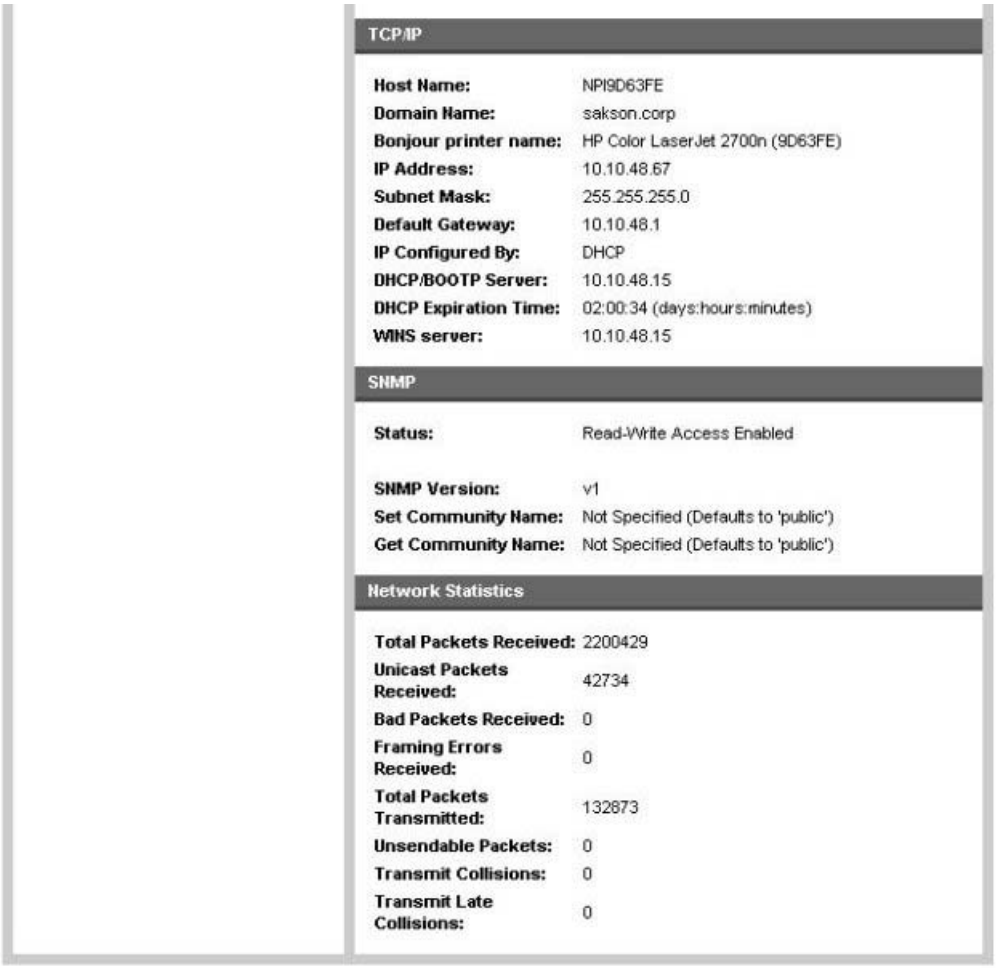

Figure 5-40 HP EWS – **Network Summary** page (2 of 2)

6 Engineering Details

Introduction

Topics:

- Troubleshooting
- Uninstall
- Media attributes
- Hewlett-Packard Color LaserJet 2700 series Printing System Install Notes

Troubleshooting

This section contains the following topics:

- Basic troubleshooting checklist
- Troubleshooting tools

Basic troubleshooting checklist

Use the following steps when trying to solve a problem with the device.

Table 6-1 Troubleshooting checklist

Step number	Verification step	Possible problems	Solutions
1	**Is the power on?** When the device is connected to a grounded power source, the control panel shows **Hewlett-Packard** with both the Ready and Attention lights blinking. The control panel will then display **Initializing** and then **Ready**, at which time only the green light is on.	No power is available because the power source, cable, switch, or fuse has failed.	1. Verify that the device is plugged in. 2. Verify that the power cable is functional and that the power switch is on. 3. Check the power source by plugging the device directly into the wall or into a different outlet. 4. Test the outlet or connect another device to the outlet to verify that the outlet is functioning.
2	**Does Ready appear in the device control panel?** The control panel should function without error messages.	The control panel shows an error.	See HP Color LaserJet 2700 Series User Guide for a list of common messages to help correct the error. If the error persists, contact HP Customer Contact Center.
3	**Do information pages print?** Print a Configuration page.	The control panel shows an error message.	See HP Color LaserJet 2700 Series User Guide for a list of common messages to help correct the error.
		Media does not move smoothly through the device paper path.	Clean the paper path.
		Poor print quality.	See the HP Color LaserJet 2700 Series User Guide for information about print quality problems. If the error persists, contact HP Customer Contact Center.

Table 6-1 Troubleshooting checklist (continued)

4	**Does the device print from the computer?** Connect the network cable or USB cable to the device and the computer. Use a word-processing application to send a print job to the device.	The software is not installed correctly or an error occurred during software installation.	Uninstall and then reinstall the device software. Verify that the correct installation procedure and the correct port setting are used.
		The cable is not connected correctly.	Reconnect the cable.
		An incorrect driver is selected.	Select the correct driver.
		Other devices are connected to the USB port.	Disconnect the other devices and try again to print.
		A port driver problem exists in Microsoft Windows.	Uninstall and then reinstall the device software. Verify that the correct installation procedures and port setting are used.
	If the error persists, contact HP Customer Contact Center.		

Troubleshooting tools

The HP Color LaserJet 2700 printing-system CD contains the following troubleshooting tools in the Utilities folder on the root directory.

- File to E-mail utility
- ACCESSDENIEDUTILITY.EXE
- FixErr1714 utility

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 HP Color LaserJet 2700 printer.

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 page.

The tool is compatible with Microsoft Windows 2000 and Microsoft Windows XP.

The File to E-mail utility runs with any MAPI-compliant e-mail programs. It does not run with Web-based e-mail services such as Yahoo, Hotmail, or AOL.

Depending on computer speed, 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 HP Color LaserJet 2700 software CD:

- <CD-ROM drive>util\CCC\FiletoEmail\FileToEmail.exe
- <CD-ROM drive>util\CCC\FiletoEmail\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 to send to the IT administrator.

If the File to E-mail utility is not successful for any reason (for instance, if the new message is cancelled or Web-based e-mail software is used), all the files are copied to a desktop folder named HpCCC, possibly with a string of 0's attached to the end. Zip these files and then e-mail them separately.

ACCESSDENIEDUTILITY.EXE

CCC agents use this utility when customers call in with registry “access denied” problems. This utility is generally in the following circumstances:

- To fix the registry access-denied issues
- Not very useful because the Shield plug-in already does this.
- CCC requested this utility to ship anyway
- No command line options exist, just double-click.
- No logging takes place

FixErr1714 utility

CCC agents use this utility when customers call in with MSI error 1714, which occurs when a user different from the installing user attempts to uninstall the product.

- This utility might fix the 1714 problem; some evidence exists that this utility might not work in all cases.
- No command- line options exist, just double-click.
- No logging takes place.
- No user interface exists.

Uninstall

This section provides information about the following topics:

- Uninstall methods
- Uninstall component list
- Uninstall instructions for Microsoft Windows 2000 and Microsoft Windows XP

Uninstall methods

The following three methods exist for uninstalling the HP Color LaserJet 2700 printing-system software from the computer:

- **Program group**. Click **Uninstall** from the HP Color LaserJet 2700 program group from **Programs** menu on the computer. This is the preferred uninstall method.
- **Add/Remove programs**. Click **Add/Remove Programs** from the Microsoft Windows Control Panel, and then click the HP Color LaserJet 2700 software components to be removed.
- **HP Color LaserJet 2700 printing-system CD**. Reinsert the HP Color LaserJet 2700 printing-system CD into the CD-ROM drive on the computer and click **Uninstall**.

Uninstall component list

The HP Color LaserJet 2700 uninstaller removes the following components from the computer:

- Drivers
- HP ToolboxFX
- User guides

The HP Color LaserJet 2700 uninstaller does *not* remove the following components from the computer:

- HP Extended Capabilities
- HP Software Update

Remove these components with Microsoft Windows Add/Remove Programs feature. A warning screen appears if the components to be removed are needed for other HP products that are running on the computer.

For a full list of the files installed and uninstalled on the computer by the HP Color LaserJet 2700 uninstaller, see the HP Color LaserJet 2700 Software Technical Reference Addendum.

Uninstall instructions for Microsoft Windows 2000 and Microsoft Windows XP

NOTE To uninstall the software from Microsoft Windows 2000 and Microsoft Windows XP , log on with Administrator privileges.

1. Quit all open programs.
2. Click **Start**, click **Programs** (or **All Programs** in Microsoft Windows XP), select **HP**, select **HP Color LaserJet 2700**, and then click **Uninstall**.

3. The **Important Information** dialog box appears. Click **Next** to continue.

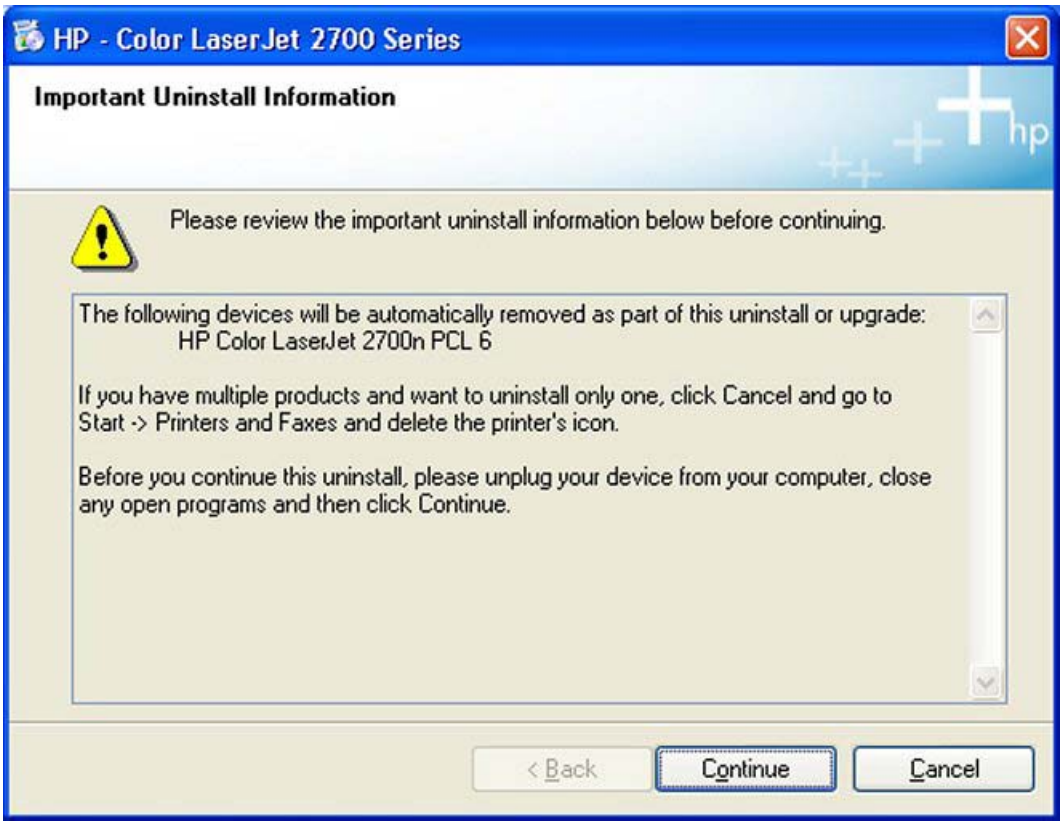

Figure 6-1 Important Information dialog box

4. The **Cleanup Progress** dialog box appears. A progress bar reflects the status of the uninstall process.

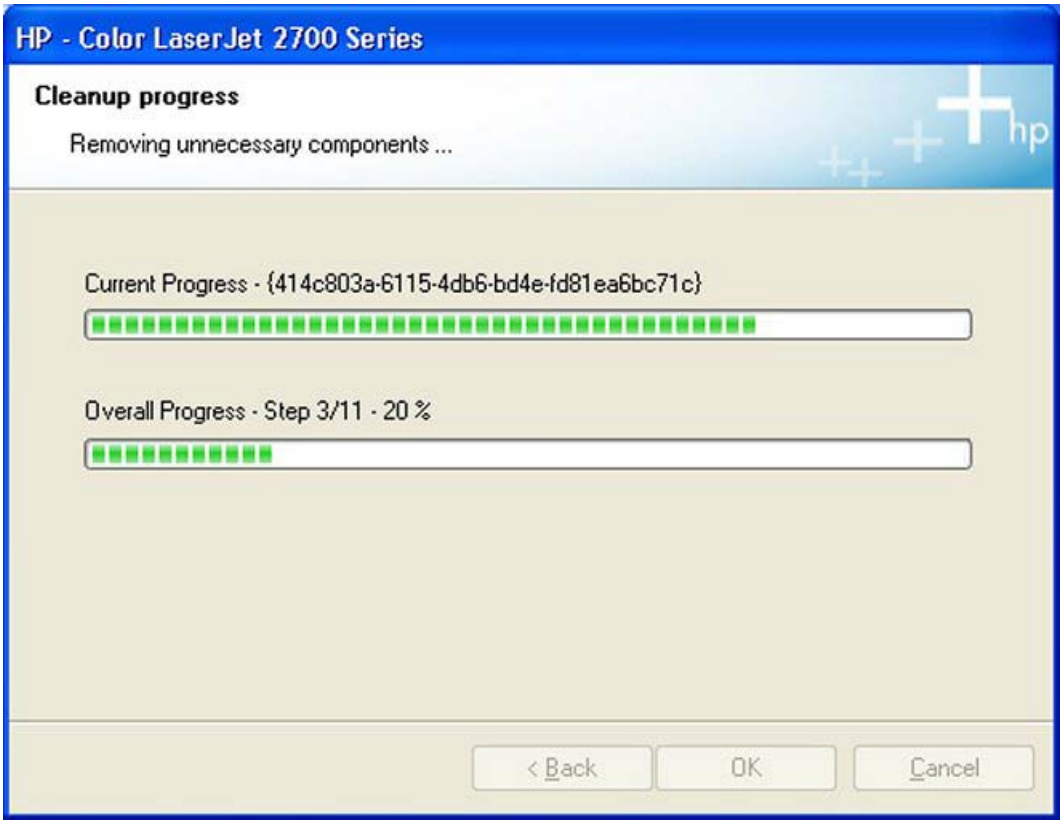

Figure 6-2 Cleanup Progress dialog box

5. When the uninstall process is completed, the **Restart** dialog box appears. Select the **Click here to restart later** check box to restart the computer at a later time, and then click **Finish**. Or, click **Finish** to restart the computer and finish the uninstall process.

Figure 6-3 Restart dialog box

Media attributes

Topics:

- Media types and sizes
- Custom paper sizes

Media types and sizes

The tables in this section provide information about media features, media attributes, and paper-handling constraints for the HP Color LaserJet 2700 printer.

NOTE The following table lists the features and attributes of various media listed under the **Size Is** drop-down menu on the **Paper/Quality** tab. The list order can vary, depending on the operating system. The list will contain all the sizes shown here, and might contain sizes from other drivers.

Table 6-2 Supported media attributes

Paper sizes	Width	Height
Letter	216 mm (8.5 inches)	279 mm (11.0 inches)
Legal	216 mm (8.5 inches)	355 mm (14.0 inches)
A4	210 mm (8.27 inches)	297 mm (11.69 inches)
A5	148 mm (5.83 inches)	210 mm (8.27 inches))
A6 (Tray 1 only)	128 mm (5.1 inches))	182 mm (7.2 inches)
Executive	185 mm (7.25 inches)	266 mm (10.5 inches)
B4 (JIS)	257 mm (10.12 inches)	364 mm (14.33 inches)
B5 (ISO)	176 mm (6.93 inches)	250 mm (9.84 inches)
B5 (JIS)	182 mm (7.16 inches)	257 mm (10.12 inches)
Executive (JIS)	185 mm (7.25 inches)	266 mm (10.5 inches)
Postcard (JIS) [Tray 1 only]	100 mm (3.94 inches)	148 mm (5.83 inches)
Envelope #10 (Tray 1 only)	105 mm (4.13 inches)	241 mm (9.5 inches)
Envelope Monarch (Tray 1 only)	99 mm (3.88 inches)	190 mm (7.5 inches)
Envelope C5 (ISO) [Tray 1 only]	162 mm (6.38 inches)	229 mm (9.02 inches)
Envelope DL (ISO) [Tray 1 only]	110 mm (4.33 inches)	220 mm (8.66 inches)
Envelope B5 (ISO) [Tray 1 only]	176 mm (6.93 inches)	250 mm (9.84 inches)
Custom, Tray 1	Minimum: 76 mm (3.0 inches) Maximum: 216 mm (8.5 inches)	Minimum: 127 mm (5.00 inches) Maximum: 356 mm (14.0 inches)
Custom, Tray 2 and Optional Tray 3	Minimum: 148 mm (5.83 inches) Maximum: 216 mm (8.5 inches)	Minimum: 210 mm (8.27 inches) Maximum: (356 mm) 14 inches
Postcard (JIS)	100 mm (3.94 inches)	148 mm (5.83 inches)

Table 6-2 Supported media attributes (continued)

Paper sizes	Width	Height
Double Postcard (JIS) [Tray 1 only]	148 mm (5.83 inches)	200 mm (7.87 inches)
Double Japan Postcard [Tray 1 only]	148 mm (5.83 inches)	200 mm (7.87 inches)
A5	148 mm (5.83 inches)	210 mm (8.27 inches)
8.5 x 13 (Foolscap)	216 mm (8.5 inches)	330 mm (13 inches)
16K 7.75 x 10.75	197 mm (7.75 inches)	273 mm (10.75 inches)
16K 184x260mm	184 mm (7.2 inches)	260 mm (10.2 inches)
16K 195x270mm	195 mm (7.67 inches)	270 mm (10.6 inches)

Custom paper sizes

The following tables identify the media types the HP Color LaserJet 2700 supports in trays 1, 2, and 3.

Table 6-3 Tray 1 and Tray 2 specifications

Media type	Dimensions[1]	Weight	Capacity[2]
Paper	Minimum: 76 x 127 mm (3 x 5 inches) Maximum: 216 mm x 356 mm (8.5 x 14 inches)	60 to 163 g/m² (16 to 43 lb) Up to 176 g/m² (47 lb) for postcards	Tray 1: up to 100 sheets Tray 2: up to 250 sheets
HP Laser Photo Paper, gloss and HP Color Laser Photo Paper, matte	Same as for paper	75 to 220 g/m² (20 to 58 lb)	Tray 1: up to 60 sheets Tray 2: up to 100 sheets
HP Cover Paper[3]		200 g/m² (53 lb) cover	Tray 1: up to 60 sheets Tray 2: up to 100 sheets
Transparencies and opaque film		Thickness: up to 0.12 mm to 0.13 mm (4.7 to 5.1 mils)	Tray 1: up to 50 sheets Tray 2: up to 50 sheets
Labels[4]		Thickness: 0.23 mm (up to 9 mils)	Tray 1: up to 60 sheets Tray 2: up to 50 sheets
Envelopes		Up to 90 g/m² Up to (24 lb)	Tray 1: up to 10 envelopes Tray 2: up to 10 envelopes

1 The printer supports a wide range of standard and custom sizes of print media. Check the printer driver for supported sizes.
2 Capacity can vary depending on media weight and thickness, and environmental conditions.
3 Smoothness: 100 to 250 (Sheffield).
4 Hewlett-Packard does not guarantee results when printing with other types of heavy paper.

Table 6-4 Tray 3 specifications

Media type	Size	Weight	Capacity[1]
Paper	Letter Legal Executive A4 A5 B5–JIS 8.5 x 13	60 to 120 g/m² (16 to 32 lb)	Up to 500 sheets

Table 6-4 Tray 3 specifications (continued)

HP Color Laser Photo Paper, gloss and HP Color Laser Photo, matte[2]	Same as for paper	106 to 120 g/m^2 (28 to 32 lb)	Up to 200 sheets
Cardstock		Up to 120 g/m^2 Up to (32 lb)	Up to 200 sheets
Letterhead		60 to 120 g/m^2 (16 to 32 lb)	Up to 500 sheets

1 Capacity can vary depending on media weight and thickness and environmental conditions.
2 Hewlett-Packard does not guarantee results when printing on other types of heavy paper.

Table 6-5 Specifications for manual 2-sided printing

Tray 1, Tray 2, and optional Tray 3	**Dimensions**[1]	**Weight**	**Capacity**[2]
Paper	Letter, A4, legal (8.5 x 13 inches)	60 to 105 g/m^2 (16 to 28 lb)	Single sheet for Tray 1 Up to 250 sheets for Tray 2 and 500 sheets for optional Tray 3
HP LaserJet glossy paper	Letter, A4	75 to 120 g/m^2 (20 to 32 lb)	Single sheet for Tray 1 Up to 250 sheets for Tray 2 and 500 sheets for optional Tray 3

1 The printer supports a wide range of standard and custom sizes of print media. Check the printer driver for supported sizes.
2 Capacity can vary depending on the media weight and thickness, and environmental conditions.

Hewlett-Packard Color LaserJet 2700 series Printing System Install Notes

Edition 1, 10/2006

- I. INTRODUCTION
- II. LATE-BREAKING INFORMATION
- III. INSTALLATION INSTRUCTIONS
- IV. TECHNICAL ASSISTANCE
- V. LEGAL STATEMENTS

I. INTRODUCTION

Purpose of this document

This document provides specific installation instructions and other information you should know before you install and use the printing system. Installation instructions are provided in this document for the following operating systems:

- Microsoft Windows 2000
- Microsoft Windows 2000 (64-bit available on the Web, installation via Plug and Play or Add Printer)
- Microsoft Windows XP (32-bit)
- Microsoft Windows XP (64-bit available on the Web, installation via Plug and Play or Add Printer)
- Microsoft Windows Server 2003 (available on the Web, installation via Plug and Play or Add Printer)
- Macintosh OS X v10.2.x, 10.3.x and 10.4.x

NOTE The HP Color LaserJet 2700 series printer is not supported by HP in the following Microsoft Windows operating systems:

– Windows 98 Second Edition and Me

– Windows NT 4.0

– Windows 95

– Windows 3.1x

– Windows NT 3.51

For information and printer drivers for Linux, see the following Web site: www.hp.com/go/linux

For information and printer drivers for UNIX (R), see the following Web site: www.hp.com/go/jetdirectunix_software

For instructions to install OS/2 printer drivers, Macintosh OS components, or other systems, see the associated installation notes, readme files, or other product information for that particular system.

Product Description

The HP Color LaserJet 2700 printer (Q7824A) is a single pass four-color laser printer that prints 15 pages per minute (ppm) in color and 20 pages per minute (ppm) in monochrome (black and white), has a 100-sheet priority feed slot (Tray 1) and a universal tray (Tray 2) that holds up to 250 sheets of various paper types and sizes or 10 envelopes, supports an optional 500-sheet paper tray (optional Tray 3), has a Hi-Speed USB 2.0 port, 64 megabytes (MB) of double data rate memory (DDR) and to allow for memory expansion, the printer has one DIMM slot that accepts 256 MB RAM. The printer can support up to 320 MB of memory.

The HP Color LaserJet 2700n printer (Q7825A) includes all the features of the HP Color LaserJet 2700, but also includes an HP built-in internal print server for connecting to a 10/100Base-T network.

This document provides specific installation, compatibility, and troubleshooting information. For additional information about printer features and driver features, see the user guide and the online help included with each software component.

Who needs this software?

All users require this printing system software to operate the HP Color LaserJet 2700 series printer. Network clients need the installation CD-ROM or the name of the appropriate network directory to install the software on their individual workstations.

Overview of the printing-system components

The printer CD-ROM has software for IBM-compatible computer systems and Apple Macintosh (and compatible) systems. For more information about a particular driver or software component, see its associated online help.

End-user software components

- **Printer Drivers**. A printer driver is a software program that provides other software programs access to the printer features. Typically, you should install a printer driver for each printer. The printing-system software CD-ROM that came with your printer includes the following Microsoft Windows and Apple Macintosh printer drivers:
  - HP Color LaserJet 2700 PCL6 and HP postscript level 3 emulation drivers for Windows 2000 and Windows XP (32-bit), both with similar graphical user interfaces
  - HP Color LaserJet 2700 series driver for Apple Macintosh operating systems OS X v10.2.x, 10.3.x and 10.4.x

  NOTE The most recent printer drivers and printing software for your HP Color LaserJet printer are available on the Web at the following URL:

  www.hp.com/support/clj2700

  Additional drivers might be available from your Hewlett-Packard distributor or from online sources. See the "TECHNICAL ASSISTANCE" section of this document or the printer user guide for more information about obtaining drivers and other HP software.

- **HP ToolboxFX**. The printing system for Windows includes the ToolboxFX software component for end-users. HP ToolboxFX allows you to configure printer settings and can be configured to allow alert messages to appear when the printer cannot print (printer out of paper), an HP supply needs to be ordered, or a warning condition exists (printer has an error but can continue). Alerts only appear when attempting to print. The Alerts can also be configured to show no alert messages.

- **Adobe Acrobat Reader**. Acrobat Reader should be used to view the online manuals. The latest version of Acrobat Reader is available on the Adobe Web site at the following URL:

  www.adobe.com

- **Printer documentation**. The following documents are available on the printing system software CD-ROM:

  - Document: HP Color LaserJet 2700 series printer User Guide

    File name: LJ2700_use_<language code>.pdf and LJ2700_use_<language code>.chm

    Path: <CD-ROM DRIVE>:\<Language>\Manuals\

  - Document: Hewlett-Packard Color LaserJet 2700 series Printing System Install Notes

    File name: LJ2700_installnotes_<language code>.htm

    Path: <CD-ROM DRIVE>:\<Language>\Manuals\

- **Uninstall**. The uninstall utility allows you to remove the Windows HP printing system components. See the "Uninstaller" section for more instructions.

- **Latest printer drivers**. The latest printer drivers and printing software for your HP LaserJet printer are available on the Web at the following URL:

  www.hp.com/support/clj2700

II. LATE-BREAKING INFORMATION

KNOWN ISSUES AND WORKAROUNDS

For a complete list of known issues and workarounds, please click on the following link (a connection to the public internet is required): http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?objectID=c00420312

ISSUES FIXED

See the HP Color LaserJet 2700 software download page at http://www.hp.com/support/clj2700 for an updated listing of issues fixed for the HP LaserJet Printing System Software. Use the link for the "Release Notes" or "Readme File" found on the driver download page for your operating system and driver version. Fixes will be listed only if there have been updates to the original software.

General

- Firewall software can interfere with the HP software installer. If you do not disable the firewall during install, you may see longer install times and failures to detect the device during a network install.

- Certain high speed USB 2.0 cards ship with unsigned host controller drivers. If you have purchased a USB 2.0 add-in card and have an unsigned driver, you may experience driver installation problems or communication problems between the device and HP software. It is recommended that you always use a Microsoft WHQL Certified host controller driver with your USB hardware.

- Plug and Play Print driver packages are available on the Web at the following URL:

  www.hp.com/support/clj2700

- Functionality on systems that only meet minimum system requirements will be limited. Use of many images or videos requires a system that meets the recommended system requirements for acceptable performance and reliability.
- **Troubleshooting Setup and Install**

  If your device is not recognized:

  - Verify that your cable is USB 2.0 high-speed compliant.
  - Ensure that your cable is connected correctly. Remove the USB cable, look at the end of the cable, and then match it to the pattern on the USB port. Make sure that it is not upside down. Insert one end of the USB cable completely into the USB port on the HP device and the other end into the back of the computer.
  - Check that the peripheral is powered on. Peripherals will not be recognized if the power is off.
  - Ensure that your USB cable is no more than 15 feet or 5 meters in length.
  - Check that the USB port is enabled. Some PCs ship with disabled USB ports.

III. INSTALLATION INSTRUCTIONS

When operating in a Windows environment, the CD-ROM setup or installation software detects the version of the operating system that you are running. The software is installed in the language that you have selected. For example, if you are running an English version of Windows and have the language preference set to Spanish, the installation utility will install the Spanish version of the printing software for the appropriate Windows version.

INSTALLATION OPTIONS

Two methods are available for installing printer drivers and software components for the printer.

- **Full (Recommended)**. Installs everything your device needs to work plus HP ToolboxFX.
  - **HP Color LaserJet 2700 PCL 6 driver**
  - Allows you to change some printer settings and contains documentation and self-help tools.

    - Alerts. This functionality is contained within the ToolboxFX. This feature alerts you if a job you sent to the printer cannot finish printing. You can view the status of your printer (for example, toner levels and configuration).
  - **Screen Fonts**. Printer-matching TrueType fonts help ensure WYSIWYG printing.
  - **HP Color LaserJet 2700 series printer documentation**. A list of documentation, which includes information about product operation, troubleshooting, warranty and specifications, supplies, and support.
  - **HP Software Update.** Use this software to check for software updates for your HP products.
- **Minimum**. Installs everything your device needs to work. The following is a list of available components:
  - **HP Color LaserJet 2700 PCL 6 driver**
  - **Screen Fonts**. Printer-matching TrueType fonts help ensure WYSIWYG printing.
  - **HP Software Update**. Use this software to check for software updates for your HP products.

INSTALLING SOFTWARE ON WINDOWS 2000 and XP (32-bit)

NOTE Administrator privileges are required to install the printing system onto a Windows 2000 or Windows XP operating system.

Printing system installation from CD-ROM

1. Close all programs.
2. Insert the CD-ROM.
3. If the HP printing system installer program has not started after 30 seconds, complete steps 4 through 6.
4. From the **Start** menu on the taskbar, select **Run**.
5. Browse to the root directory for the CD-ROM drive.
6. Select the **Setup.exe** file. Click **Open**, and then click **OK**.
7. Click **Install**.
8. Follow the on-screen instructions.

NOTE If you download the printing system electronically and are using Web files, you need to first run the downloaded .exe file(s) to extract or unzip the installer files.

USB INSTALLATION (Plug and Play Install) ON WINDOWS 2000 (64-bit), WINDOWS XP (64-bit), and WINDOWS SERVER 2003

The HP Color LaserJet 2700 series drivers for 64 bit and Windows Server 2003 operating systems are not on the CD. They are available on the Web at the following URL:

www.hp.com/support/clj2700

NOTE USB Printing Support is automatically installed in Windows Server 2003.

NETWORK INSTALLATION ON WINDOWS SERVER 2003

1. Download HP's Install Network Printer Wizard.
2. Run Install Network Printer Wizard and follow the on-screen instructions.

NOTE The HP Color LaserJet 2700 series drivers are not included with Install Network Printer Wizard, but will be needed to complete the network installation. They are available on the Web at the following URL:

www.hp.com/support/clj2700

INSTALLING SOFTWARE ON MACINTOSH OS 10.2.X, 10.3X, and 10.4.X

USB installation instructions

1. Insert the CD-ROM.
2. Run the installation utility.

3. After the software installation is complete, attach the USB cable to the printer and the computer and then restart the computer.
4. After the computer has restarted, open the Print Center or Printer Setup Utility to see if the printer name appears in the Printer List.
5. If the printer name appears in the Printer List, the setup is complete. If the printer name does not appear in the Printer List, go to the next step.
6. Click the **Add** button, and then select **USB** from the drop-down list.
7. Select **HP Color LaserJet 2700** and then click **Add**. The printer name appears in the Printer List. Setup is complete.

Network installation instructions

1. Connect the local area network (LAN) cable to the printer.
2. Print the Network configuration report from the printer control panel. Find the "Bonjour printer name" located under the TCP/IP heading. The name will be needed in step 7.
3. Insert the CD-ROM.
4. Run the installation utility.
5. After the installation utility has completed, open the Print Center or Printer Setup Utility.
6. Click the **Add** button, and then select **Bonjour/Rendezvous** from the drop-down list.
7. Select the **HP Color LaserJet 2700 series printer** name that matches the Bonjour printer name found on the Network configuration report printed in step 2.
8. Click **Add**. The printer name appears in the Printer List. Setup is complete.

UNINSTALLER

After a printing system installation, use the uninstall icon in the HP Color LaserJet 2700 series printer program group to select and remove the HP printing system components.

Starting the Uninstaller

1. From the **Start** menu, in the **HP Color LaserJet 2700 series** program group, click the **Uninstall** icon.
2. The printing system guides you through removing all of the printing system components.
3. If you have performed a Full install and you do not have any other HP devices installed, you will also need to follow steps 4 and 5. Following these steps may break certain functionality of other HP devices you have previously installed because they share the software.
4. Open your Microsoft Windows Control Panel. Double-click **Add/Remove Programs**.
5. You will see entries for HP Extended Capabilities, HP Software Update, HP Imaging Device Functions, and HP ToolboxFX and Imaging Support Tools. For each item, click **Change/ Remove** and follow the prompts.

NOTE For driver-only (Add Printer) installations, delete the printer icon from the Printers folder (Windows 98 Second Edition, Windows Me, and Windows 2003 Server).

IV. TECHNICAL ASSISTANCE

Some of the following services are provided for the United States only. Services similar to those listed below are available in other countries/regions. See the printer user guide or call your local authorized HP dealer.

CUSTOMER SUPPORT

See your printer user guide or call your local authorized HP dealer.

WEB

Browse to the following URL for online technical support:

www.hp.com/support/clj2700

HP SOFTWARE AND SUPPORT SERVICES - ADDITIONAL INFORMATION

See your printer user guide for additional methods of obtaining software and support information, such as printer driver distribution centers, other online services, fax services, and other online support.

V. LEGAL STATEMENTS

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WARRANTY AND COPYRIGHT

Warranty

See the printer documentation for complete warranty and support information.

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