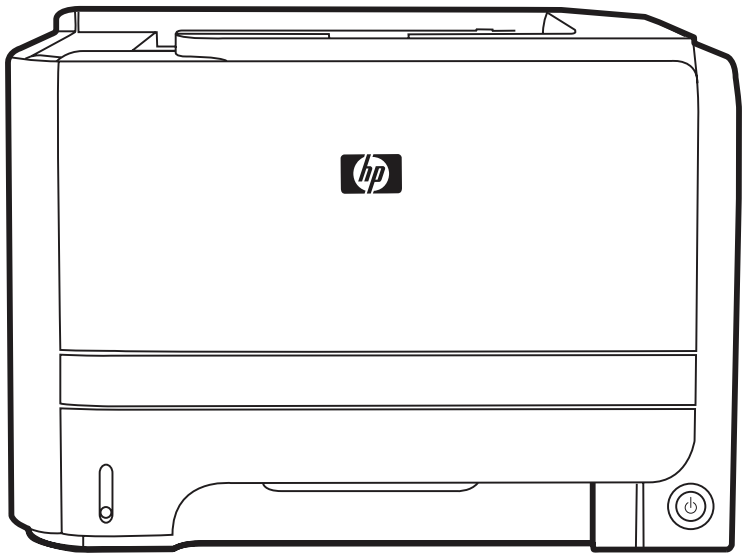
HP LaserJet P2030 Series Printer

Software Technical Reference



HP LaserJet P2030 Series printer
Software Technical Reference

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1 Document and product basics

Purpose and scope

This Software Technical Reference (STR) provides information about and troubleshooting tips for the HP LaserJet P2030 Series printing-system software.

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 product. 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 while using the product, and known solutions to those problems

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

The following table describes the structure of this STR.

Table 1-1 Software technical reference overview

Chapter	Content
Chapter 1, Document and product basics	This chapter contains basic information about the product and its software: • Overview of the product • Software availability • Software documentation
Chapter 2, Windows software description	This chapter provides an overview of the printing-system software installer and print drivers.

Table 1-1 Software technical reference overview (continued)

Chapter	Content

	This chapter also contains general information about other software features, including the following topics:
	• Printing-system software overview, including the following topics:
	  ◦ Installer features
	  ◦ Animated Getting Started Guide
	  ◦ HP print drivers overview
	• HP Embedded Web Server (network models only)
	• HP Web Jetadmin

Chapter 3, Install MS Windows printing-system components	This chapter provides instructions for installing the product in MS Windows operating systems by using various installation methods.
Chapter 4, HP LaserJet P2030 Series host-based driver and PCL 5e Universal Print Driver for Windows	This chapter provides a detailed description of theHP LaserJet P2030 Series host-based driver for Windows operating systems. It also provides information about downloading the PCL 5e Universal Print Driver.
Chapter 5, Macintosh	This chapter provides instructions for installing and uninstalling the product in Macintosh operating systems and for using Macintosh features.
Chapter 6, Engineering details	This chapter contains information about the following special topics: • Troubleshooting information • Media attributes • Readme file

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

- Product overview
- Documentation availability
- Software availability
- Product walkaround

Product overview

Product features

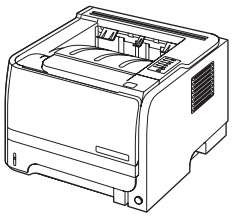
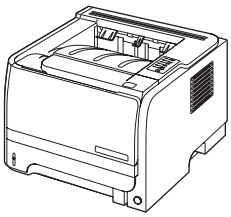
The following table contains descriptions of the product features that are discussed in this STR. Product configurations might vary among countries/regions.

Feature	Description
Performance	• 266 MHz processor

Feature	Description
User interface	• 2-button, 6 LED control panel • Windows® and Macintosh print drivers • Embedded Web server to access support and order supplies (for network-connected models only)
print drivers	• Host-based print drivers for Windows and Macintosh, included on the product CD • HP PCL 5 Universal Print Driver, available for download from the Web • XML Paper Specification (XPS) print driver, available for download from the Web
Resolution	• FastRes 1200 – produces 1200-dots-per-inch (dpi) print quality for fast, high-quality printing of business text and graphics • 600 dpi – provides the fastest printing
Fonts	• 45 scalable TrueType fonts
Connectivity	• Hi-Speed USB 2.0 connection • Parallel connection (HP LaserJet P2035 model only) • RJ.45 network connection (HP LaserJet P2035n model only)
Supplies	• The supplies status page contains information about toner level, page count, and approximate pages remaining. • The product checks for an authentic HP print cartridge at installation. • Integration with HP SureSupply Web site for easy replacement-cartridge reordering
Accessories	• HP Jetdirect external print server
Supported operating systems	• Microsoft® Windows® 2000, Windows® Server 2003, Windows® XP, and Windows Vista™ • Macintosh OS X V10.3, V10.4, and V10.5 • Unix® • Linux
Accessibility	• The online user guide is compatible with text screen-readers. • The print cartridge can be installed and removed by using one hand. • All doors can be opened by using one hand. • Paper can be loaded in Tray 1 by using one hand.

Product comparison

Table 1-2 HP LaserJet P2030 Series printer models

HP LaserJet P2035 model CE461A	HP LaserJet P2035n model CE462A
	
• Prints up to 30 pages per minute (ppm) on Letter-size paper and 30 ppm on A4-size paper • Contains 16 megabytes (MB) of random access memory (RAM). • HP print cartridge, rated for up to 1,000 pages • Tray 1 holds up to 50 sheets • Tray 2 holds up to 250 sheets • 125-sheet face-down output bin • Straight-through output path • Hi-speed USB 2.0 port • Parallel port	Has the same features as the HP LaserJet P2035 model, with the following differences: • On-board networking • No parallel port

Documentation availability

The documentation in the following table is available for the product.

Table 1-3 User documentation availability and localization

Document name	Languages	Part number	Location
User Guide	English	CE461-90902	The user guide is available in electronic format on the product software CD.
	Arabic	CE461-90903	
	Bulgarian	CE461-90904	
	Catalan	CE461-90905	
	Chinese (Simplified)	CE461-90937	
	Chinese (Traditional)	CE461-90938	
	Croatian	CE461-90915	
	Czech	CE461-90906	
	Danish	CE461-90907	
	Dutch	CE461-90923	
	Estonian	CE461-90911	
	Finnish	CE461-90912	
	French	CE461-90913	
	German	CE461-90908	
	Greek	CE461-90909	
	Hebrew	CE461-90914	
	Hungarian	CE461-90916	
	Indonesian (Bahasa)	CE461-90917	
	Italian	CE461-90918	
	Kazakh	CE461-90919	
	Korean	CE461-90920	
	Latvian	CE461-90922	
	Lithuanian	CE461-90921	
	Norwegian	CE461-90924	
	Polish	CE461-90925	
	Portuguese (Brazilian)	CE461-90926	
	Romanian	CE461-90927	
	Russian	CE461-90928	

Table 1-3 User documentation availability and localization (continued)

Document name	Languages	Part number	Location
	Serbian	CE461-90931	
	Slovak	CE461-90929	
	Slovenian	CE461-90930	
	Spanish	CE461-90910	
	Swedish	CE461-90932	
	Thai	CE461-90933	
	Turkish	CE461-90934	
	Ukrainian	CE461-90935	
	Vietnamese	CE461-90936	

Table 1-3 User documentation availability and localization (continued)

Document name	Languages	Part number	Location
Getting Started Guide	• Arabic • Bulgarian • Croatian • Czech • Danish • Dutch • English • Estonian • French • German • Greek • Italian • Latvian • Lithuanian • Polish • Portuguese (Brazilian) • Romanian • Russian • Serbian • Slovenian • Spanish • Turkish • Ukrainian	CE461-90985	The getting started guide is available in hard copy and comes in the box with the product.
	• English • Hebrew	CE461-90986	

Software availability

The following table presents the part numbers and language groups on the software CDs for the product.

Table 1-4 Available languages on the printing-system CD

CD part number	Languages
CE461-60101	• English • Arabic • Bulgarian • Catalan • Chinese (Simplified) • Chinese (Traditional) • Croatian • Czech • Danish • Dutch • Estonian • Finnish • French • German • Greek • Hebrew • Hungarian • Indonesian (Bahasa) • Italian • Kazakh • Korean • Latvian • Lithuanian • Norwegian • Polish • Portuguese (Brazilian) • Romanian • Russian • Serbian

Table 1-4 Available languages on the printing-system CD (continued)

CD part number	Languages
	• Slovak • Slovenian • Spanish • Swedish • Thai • Turkish • Ukrainian • Vietnamese

The software installers are available in the following languages.

Table 1-5 Software installer available languages

Windows installer	Macintosh installer
• English • Arabic • Bulgarian • Catalan • Chinese (Simplified) • Chinese (Traditional) • Croatian • Czech • Danish • Dutch • Estonian • Finnish • French • German • Greek • Hebrew • Hungarian • Indonesian (Bahasa) • Italian • Kazakh • Korean	• English • Chinese (Simplified) • Chinese (Traditional) • Czech • Danish • Dutch • Finnish • French • German • Hungarian • Italian • Korean • Norwegian • Portuguese (Brazilian) • Spanish • Swedish

Table 1-5 Software installer available languages (continued)

Windows installer	Macintosh installer
• Latvian	
• Lithuanian	
• Norwegian	
• Polish	
• Portuguese (Brazilian)	
• Romanian	
• Russian	
• Serbian	
• Slovak	
• Slovenian	
• Spanish	
• Swedish	
• Thai	
• Turkish	
• Ukrainian	
• Vietnamese	

The print drivers are available for the following languages.

Table 1-6 Print driver available languages

Windows drivers	Macintosh driver
• English	• English
• Arabic	• Chinese (Simplified)
• Bulgarian	• Chinese (Traditional)
• Catalan	• Czech
• Chinese (Simplified)	• Danish
• Chinese (Traditional)	• Dutch
• Croatian	• Finnish
• Czech	• French
• Danish	• German
• Dutch	• Hungarian
• Estonian	• Italian
• Finnish	• Korean
• French	• Norwegian

Table 1-6 Print driver available languages (continued)

Windows drivers	Macintosh driver
• German	• Portuguese (Brazilian)
• Greek	• Spanish
• Hebrew	• Swedish
• Hungarian	
• Indonesian (Bahasa)	
• Italian	
• Kazakh	
• Korean	
• Latvian	
• Lithuanian	
• Norwegian	
• Polish	
• Portuguese (Brazilian)	
• Romanian	
• Russian	
• Serbian	
• Slovak	
• Slovenian	
• Spanish	
• Swedish	
• Thai	
• Turkish	
• Ukrainian	
• Vietnamese	

The following software programs are available in the following languages.

Table 1-7 HP SureSupply available languages

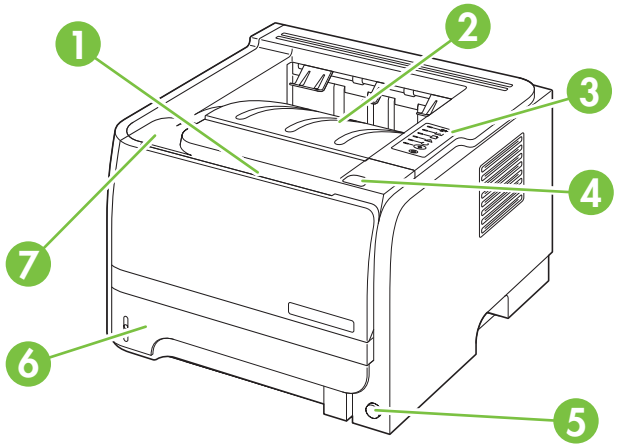
HP SureSupply
• English
• Arabic
• Bulgarian
• Catalan
• Chinese (Simplified)

Table 1-7 HP SureSupply available languages (continued)

HP SureSupply
• Chinese (Traditional)
• Croatian
• Czech
• Danish
• Dutch
• Estonian
• Finnish
• French
• German
• Greek
• Hebrew
• Hungarian
• Indonesian (Bahasa)
• Italian
• Kazakh
• Korean
• Latvian
• Lithuanian
• Norwegian
• Polish
• Portuguese (Brazilian)
• Romanian
• Russian
• Serbian
• Slovak
• Slovenian
• Spanish
• Swedish
• Thai
• Turkish
• Ukrainian
• Vietnamese

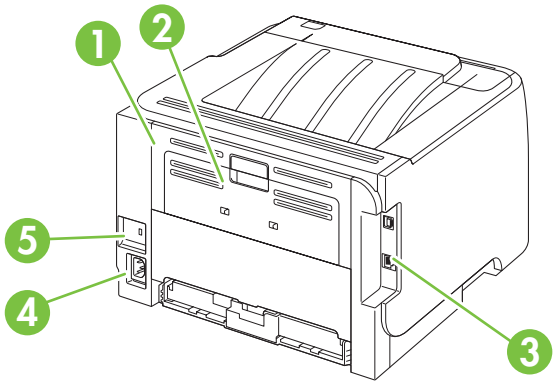
Product walkaround

Front view



1	Tray 1 (pull to open)
2	Top output bin
3	Control panel
4	Print-cartridge-door release button
5	On/off switch
6	Tray 2
7	Print-cartridge door

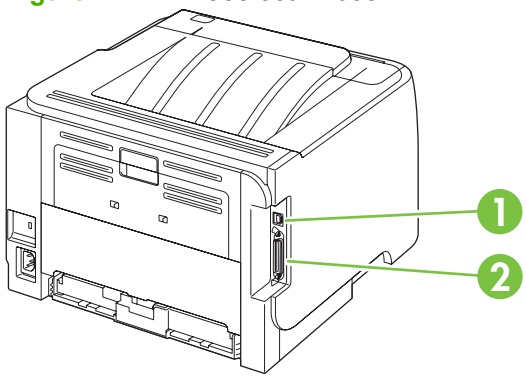
Rear view



1	Jam-release door (pull the green handle to open)
2	Straight-through paper path (pull to open)
3	Interface ports
4	Power connection
5	Slot for a cable-type security lock

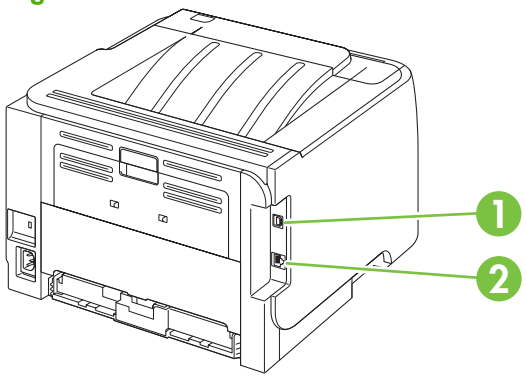
Interface ports

Figure 1-1 HP LaserJet P2035



1	Hi-speed USB 2.0 port
2	Parallel port

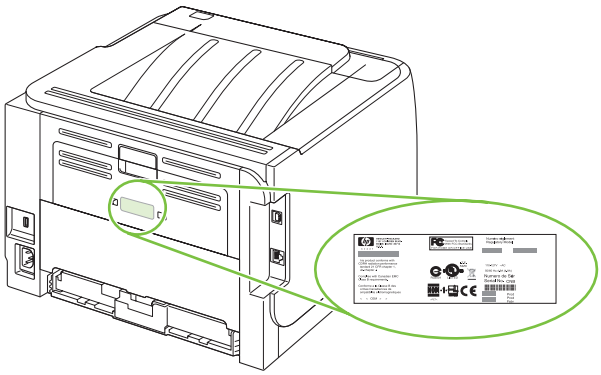
Figure 1-2 HP LaserJet P2035n



1	Hi-speed USB 2.0 port
2	RJ.45 network port

Model and serial-number label location

The label that contains the model and serial numbers is on the rear of the product.



2 Windows software description

Introduction

The HP LaserJet P2030 Series printer comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. Linux and UNIX systems also support the product, and software is available on the Web. For information about specific system installers, drivers, and components, see the section that corresponds to that system.

- Windows printing-system software
- HP Easy Printer Care
- HP Embedded Web Server
- HP Web Jetadmin
- HP Customer Participation Program
- Optional software

Windows printing-system software

- Printing system and installer
- HP LaserJet P2030 Series print drivers

Printing system and installer

- HP LaserJet P2030 Series printing-system software CD for MS Windows systems
- Installer features

HP LaserJet P2030 Series printing-system software CD for MS Windows systems

In the MS Windows environment (Microsoft Windows 2000, Windows XP, Windows Server 2003, and Microsoft Windows Vista), insert the HP LaserJet P2030 Series printing-system software CD in the CD-ROM drive to open the HP LaserJet P2030 Series Animated Getting Started Guide.

See the following for information about the opening screens of the HP LaserJet P2030 Series Animated Getting Started Guide.

HP LaserJet P2030 Series Animated Getting Started Guide

Use the HP LaserJet P2030 Series Animated Getting Started Guide to set up the HP LaserJet P2030 Series printer or click **Install the Software** to launch the installer.

The following figure shows the main screen of the HP LaserJet P2030 Series Animated Getting Started Guide.

Figure 2-1 HP LaserJet P2030 Series Animated Getting Started Guide – Main screen

If the screen does not appear when you insert 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 **AUTORUN.EXE** file to start the Animated Getting Started Guide.

Installer features

The common installer is designed to provide a simple and consistent installation method for the product. The common installer is available for the Microsoft Windows 2000, Windows XP, Windows Server 2003, and Microsoft Windows Vista operating systems.

The common installer offers the following features:

- The HP LaserJet P2030 Series printing-system software CD features an interactive software interface.
- Network connection is integrated so that you can install drivers and connect to a networked product in a single process.

The HP LaserJet P2030 Series printing-system software CD also includes the HP LaserJet Uninstaller Utility.

The installer automatically detects the language of the operating system.

Select from the following types of installation:

- Easy Install (recommended)
  - Choose either USB or network installation.
- Advanced Install
  - Choose either USB or network installation.

HP LaserJet P2030 Series print drivers

HP LaserJet P2030 Series print drivers provide the printing features and communication between the computer and the product. The printing system includes software for end users and network administrators who are working in the following operating environments:

- Microsoft Windows 32-bit drivers for Windows 2000, Windows XP, Windows Vista and Windows Server 2003
- Microsoft Windows 64-bit drivers for Windows XP, Windows Vista and Windows Server 2003
- Macintosh OS X V10.3, V10.4, V10.5

NOTE: For the latest information about the printing-system software components and additional information about installing the printing-system software, see the *HP LaserJet P2030 Series Printing-System Install Notes* on the printing-system software CD.

All of the drivers provide access to paper-handling and print-quality features.

- Select the best print driver
- HP print drivers
- Driver version numbers for MS Windows operating systems

Select the best print driver

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

- Complete LaserJet printing system (Recommended Install)
- HP LaserJet P2030 Series host-based driver
- HP PCL 5e Universal Print Driver

Complete LaserJet printing system (Recommended Install)

Use the printing-system software CD and choose the recommended Easy Install to install the HP LaserJet P2030 Series host-based driver and the full set of other software available for the HP LaserJet P2030 Series printer. The HP LaserJet P2030 Series host-based driver is also available through the Advanced Install option and through the Add Printer Wizard.

HP LaserJet P2030 Series host-based driver

Overall, the HP LaserJet P2030 Series host-based driver provides the best performance, print quality, and product-feature support for most users. The driver aligns with MS Windows graphic device interface (GDI) for best performance in MS Windows environments.

The HP LaserJet P2030 Series host-based driver may not be fully compatible with third-party and custom solutions that are based on PCL 5.

HP PCL 5e Universal Print Driver

NOTE: The HP PCL 5e Universal Print Driver is available for download from the HP Web site: www.hp.com/go/ljp2030series_software

The Universal Print Drivers are designed for corporate or IT-managed MS Windows environments. These drivers provide a single-driver solution for use with multiple product models.

The HP Universal Print Drivers are recommended when printing to multiple product models or from a mobile MS Windows computer.

- Provide a single-driver solution for use with multiple product models — Designed for corporate or IT-managed Windows environments
- Preferred when printing in an enterprise or managed print server environment to multiple product models in either a static or mobile print environment

HP print drivers

The HP LaserJet P2030 Series host-based driver for Microsoft Windows 2000, Windows XP (32-bit and 64-bit), Windows Server 2003 (32-bit and 64-bit), and Windows Vista (32-bit and 64-bit) is available on the HP LaserJet P2030 Series printing-system software CD.

The HP PCL 5e Universal Print Driver for Microsoft Windows 2000, Windows XP (32-bit and 64-bit), Windows Server 2003 (32-bit and 64-bit), and Microsoft Windows Vista (32-bit and 64-bit) and the HP XML Paper Specification (XPS) Print Driver are available for download from the HP Web site: www.hp.com/go/ljp2030series_software

NOTE: During a recommended Easy Install from the printing-system software CD, the HP LaserJet P2030 Series host-based driver is installed by default. The HP PCL 5e Universal Print Driver and the HP XPS Print Driver can be downloaded through a link provided at the end of the installation sequence and then installed through the Add Printer Wizard.

NOTE: The HP LaserJet P2030 Series printing-system CD contains a Windows NT driver (PCL_NT_Driver), which is located on the root of the CD. However, this driver is not supported by HP.

For detailed information regarding which driver versions are available using each install method and operating system, see the following table.

Table 2-1 Drivers included with the HP LaserJet P2030 Series printing-system software

Install method/Operating system	HP LaserJet P2030 Series host-based driver	HP PCL 5e Universal Print Driver
Easy Install (recommended) and Advanced Install		
Microsoft Windows 2000	X	
Microsoft Windows 2003 (32-bit and 64-bit)	X	
Microsoft Windows XP (32-bit and 64-bit)	X	

Table 2-1 Drivers included with the HP LaserJet P2030 Series printing-system software (continued)

Install method/Operating system	HP LaserJet P2030 Series host-based driver	HP PCL 5e Universal Print Driver
Microsoft Windows Vista (32-bit and 64-bit)	X	
Add Printer Wizard Install		
Microsoft Windows 2000	X	X
Microsoft Windows 2003 (32-bit and 64-bit)	X	X
Microsoft Windows XP (32-bit and 64-bit)	X	X
Microsoft Windows Vista (32-bit and 64-bit)	X	X
Macintosh install		
Macintosh OS	X	

Driver version numbers for MS Windows operating systems

Access to driver version numbers varies, depending on the operating system in which the HP LaserJet P2030 Series printer is installed.

NOTE: For a list of HP LaserJet P2030 Series print drivers, updated HP printing-system software, and product-support information, go to:

www.hp.com/support/ljp2030series

The Microsoft Windows 2000, Windows XP, Windows Server 2003, and Microsoft Windows Vista operating systems support the HP LaserJet P2030 Series host-based driver and the HP PCL 5e Universal Print Driver. If you are using an HP print driver in a Microsoft Windows 2000, Windows XP, Windows Server 2003, or Microsoft Windows Vista environment, follow these steps to find driver-version information:

1. In Windows Vista, click **Computer**, click **Control Panel**, and then click **Hardware and Sound**.

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

   -or-

   In Windows XP Home, click **Start**, click **Control Panel**, and then double-click the **Printers and Other Hardware** icon.

   -or-

   In Windows 2000, click **Settings**, and then click **Printers**.

2. Right-click the product icon.
3. Click **Properties**.
4. Click the **About** tab. To determine the latest version, view the overall build number (in parentheses after the model name).

HP Easy Printer Care

With HP Easy Printer Care software, you can manage and monitor up to 15 products from your desktop. HP Easy Printer Care software allows you to view the product status, create printer usage reports, reorder supplies, and troubleshoot and repair products via HP Proactive Support.

Click the **HP Easy Printer Care** option to go to the HP Easy Printer Care free software download page.

www.hp.com/go/easyprintercare

HP Embedded Web Server

NOTE: The HP Embedded Web Server (HP EWS) is supported by the HP LaserJet P2035n only when connected to the computer through a network. The HP LaserJet P2035 does not have access to the HP EWS interface.

The HP EWS is a Web-based application that allows users to control settings on the network-connected product through a Web browser. To open the HP EWS, open a Web browser and type the product IP address in the address bar. The product IP address appears on the product Configuration page. To print a configuration page, do one of the following:

- On the product control panel, press and hold the Go button for 5 seconds when the Ready light is on and no other jobs are printing.
- Select **Configuration** page from the **Print Information Pages** drop-down menu on the **Services** driver tab.

The following tabs are available in the HP EWS:

- Status tab
- Settings tab
- Networking tab

Status tab

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

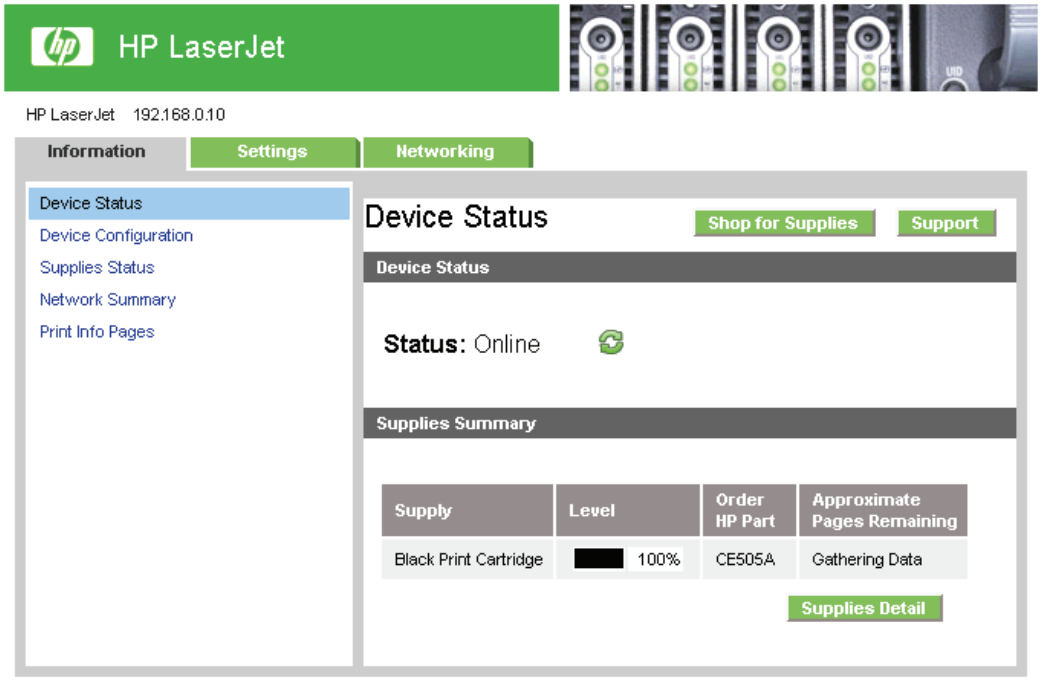
The **Status** tab contains the following pages:

- Device Status
- Supplies Status page
- Device Configuration page
- Network Summary link
- Print Info Pages

Device Status

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

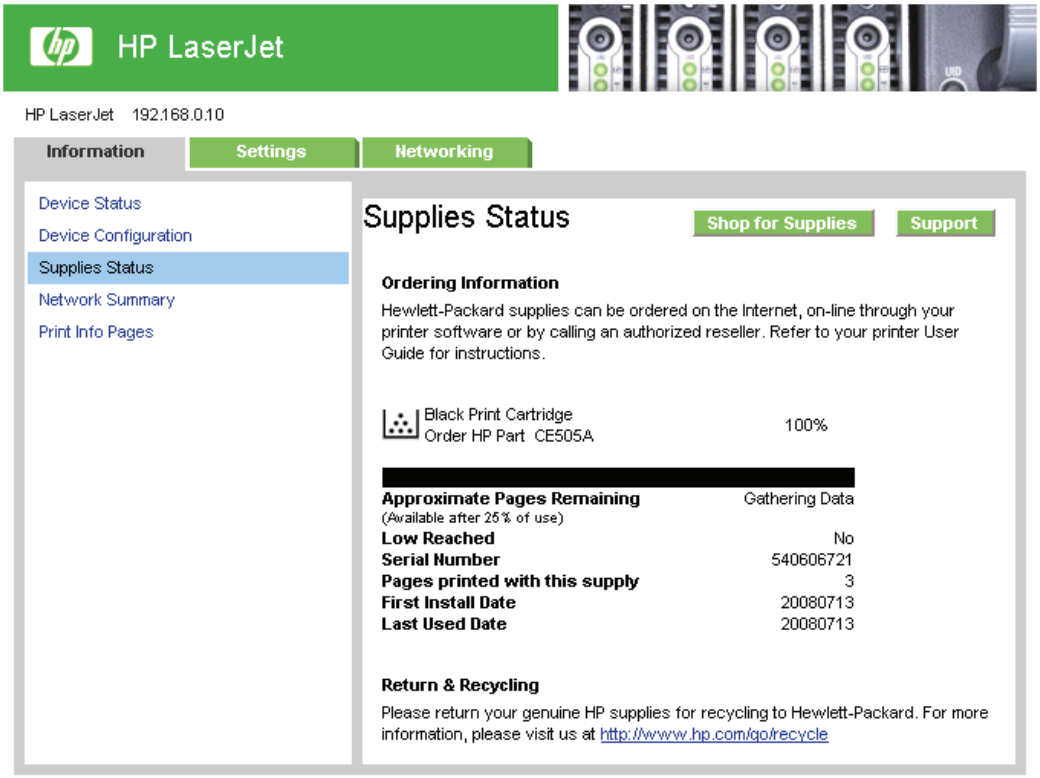
Figure 2-2 HP EWS–Device Status page



Supplies Status page

The **Supplies Status** page shows the status of all of the product supplies, including the print cartridges.

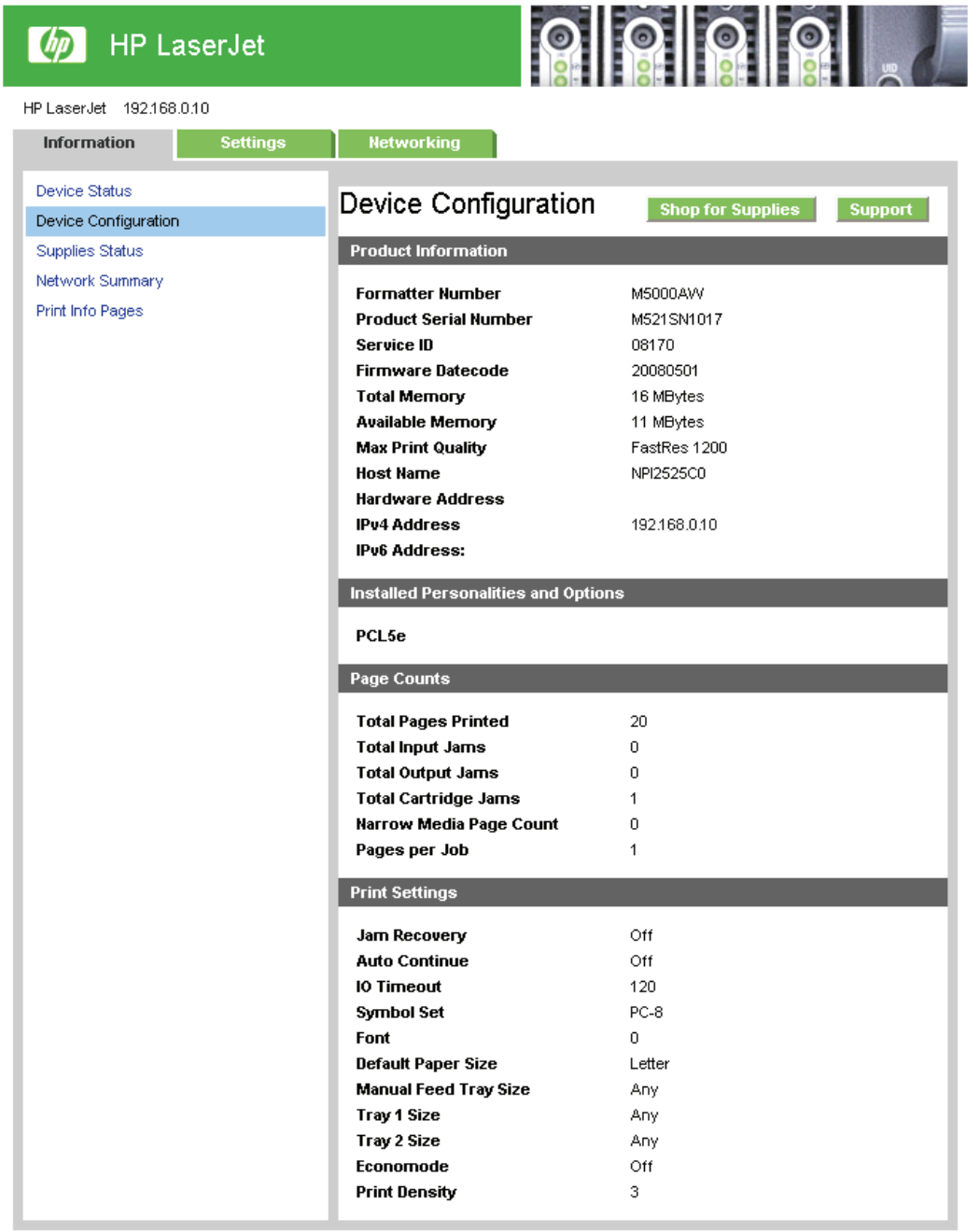
Figure 2-3 HP EWS–Supplies Status page



Device Configuration page

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

Figure 2-4 HP EWS–Device Configuration page



Network Summary link

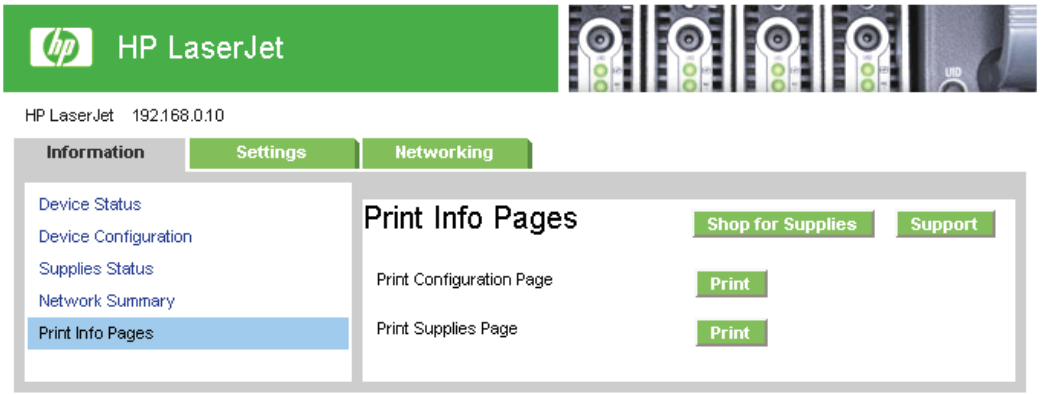
Click the **Network Summary** link on the navigational pane of the **Status** tab to open the **Network Summary** page on the **Networking** tab. For more information about this page, see Network Summary page on page 35.

Print Info Pages

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

- Configuration Page
- Supplies Page

Figure 2-5 HP EWS – Print Info Pages page



Settings tab

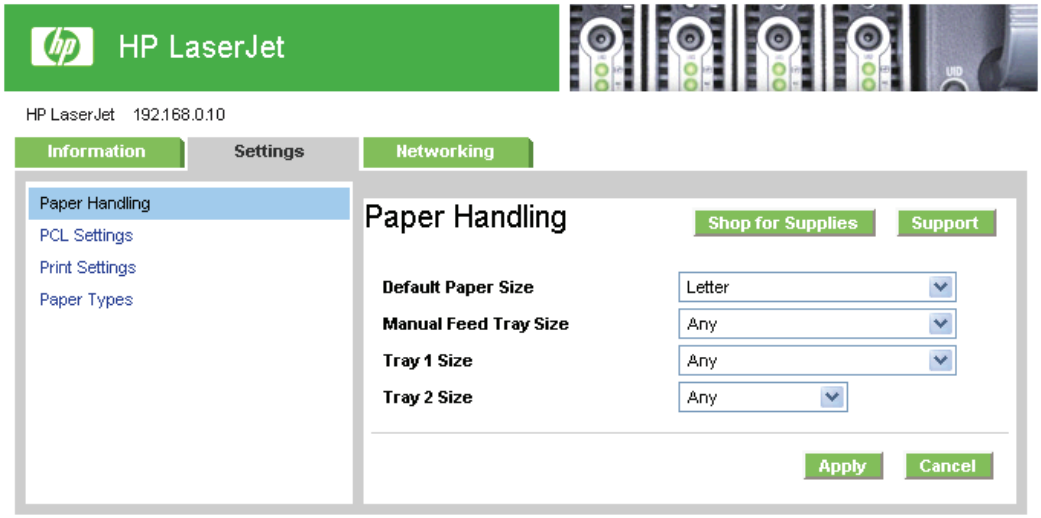
Use the **Settings** tab to view and change settings for the following features:

- Paper Handling page
- PCL Settings page
- Print Settings page
- Paper Types page

Paper Handling page

Use this page to configure the paper-handling settings for the product.

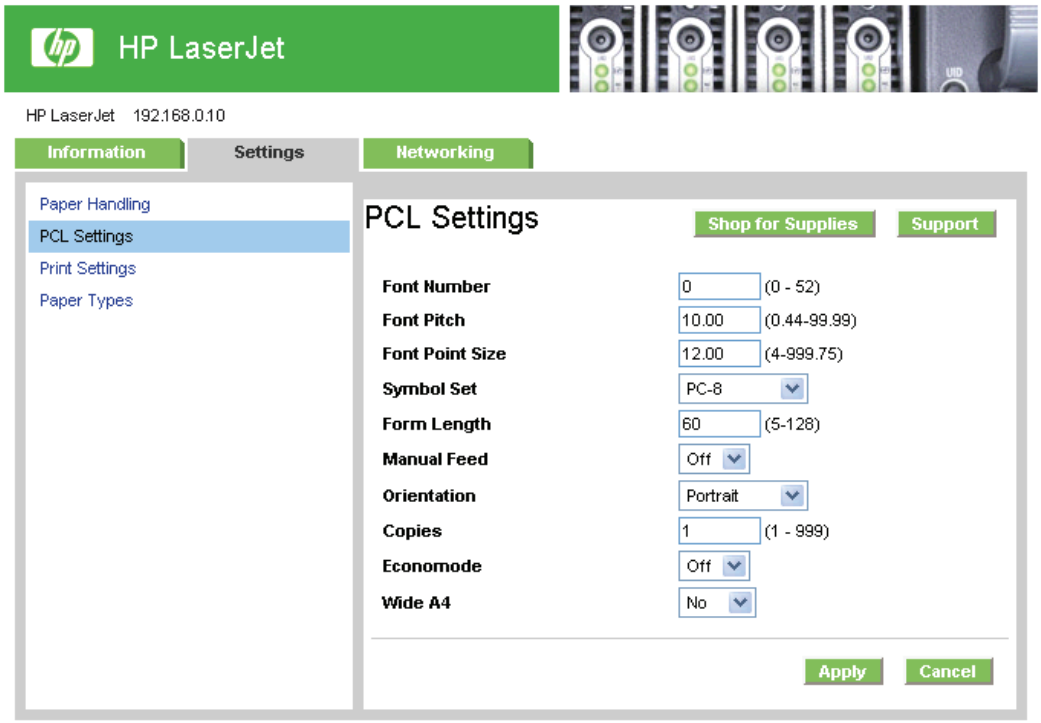
Figure 2-6 HP EWS – Paper Handling page



PCL Settings page

Use the **PCL Settings** page to view and change PCL settings such as form length and orientation.

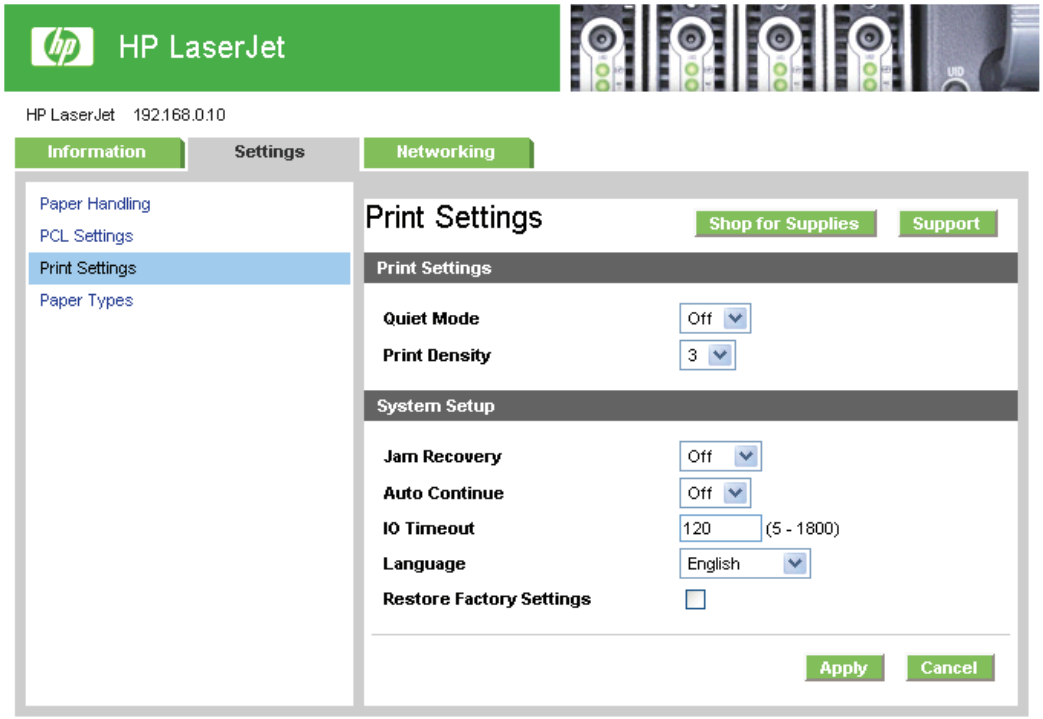
Figure 2-7 HP EWS – PCL Settings page



Print Settings page

Use this page to change the default print settings for the product.

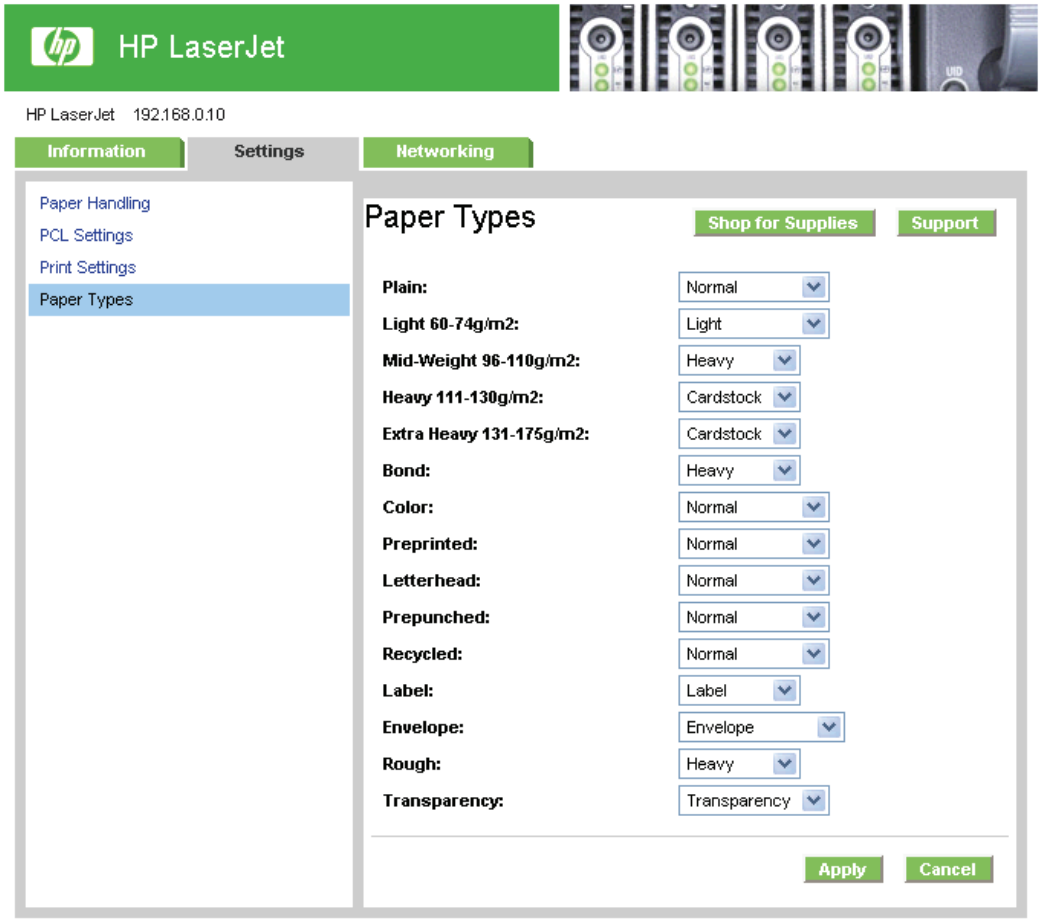
Figure 2-8 HP EWS – Print Settings page



Paper Types page

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

Figure 2-9 HP EWS – Paper Types page



Networking tab

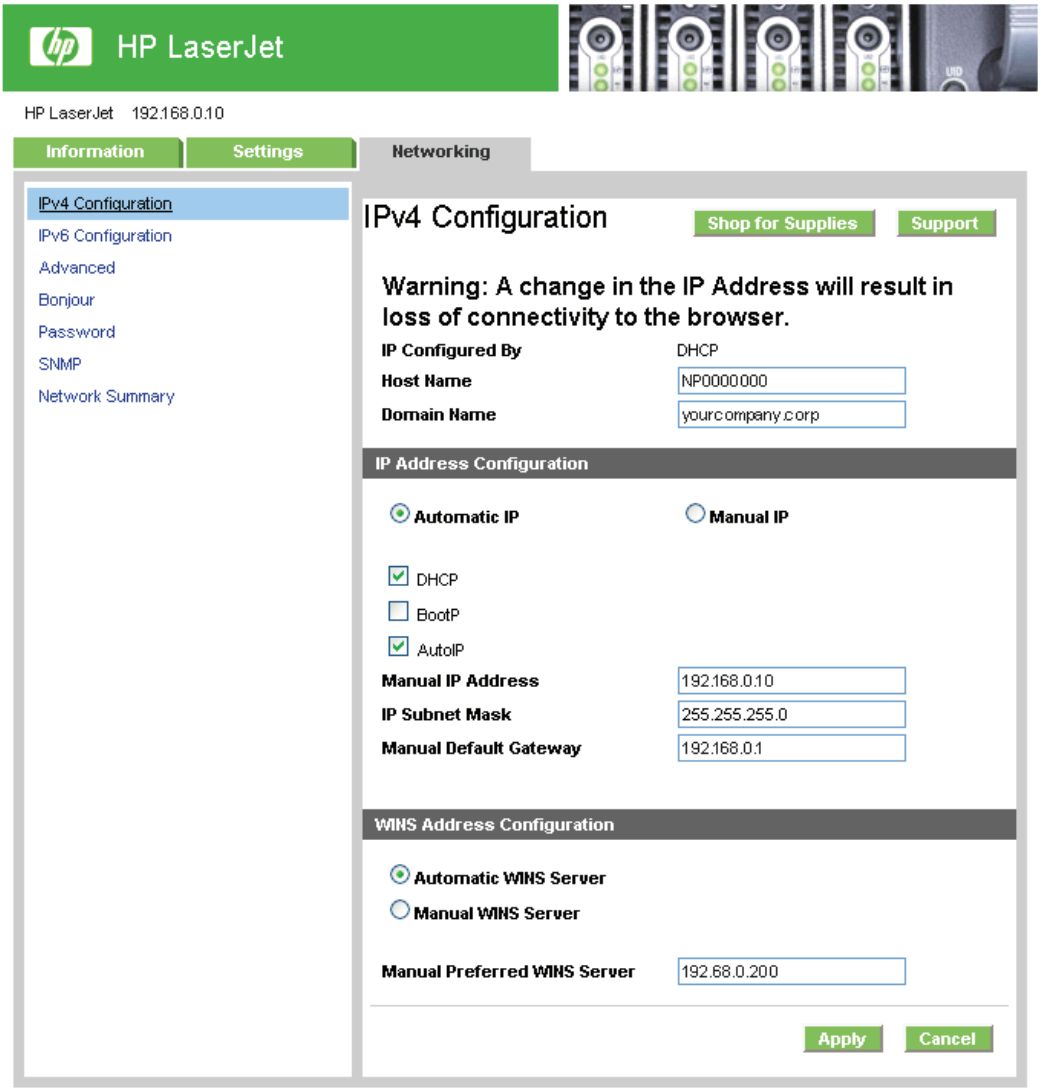
Use the **Networking** tab to view and change settings for the network connection and communication with the product. The following pages are available:

- IPv4 Configuration page
- IPv6 Configuration page
- Advanced page
- Bonjour page
- Password page
- SNMP page
- Network Summary page

IPv4 Configuration page

Use the **IP Configuration** page to configure the IP address and host and domain names for the product using the IPv4 protocol.

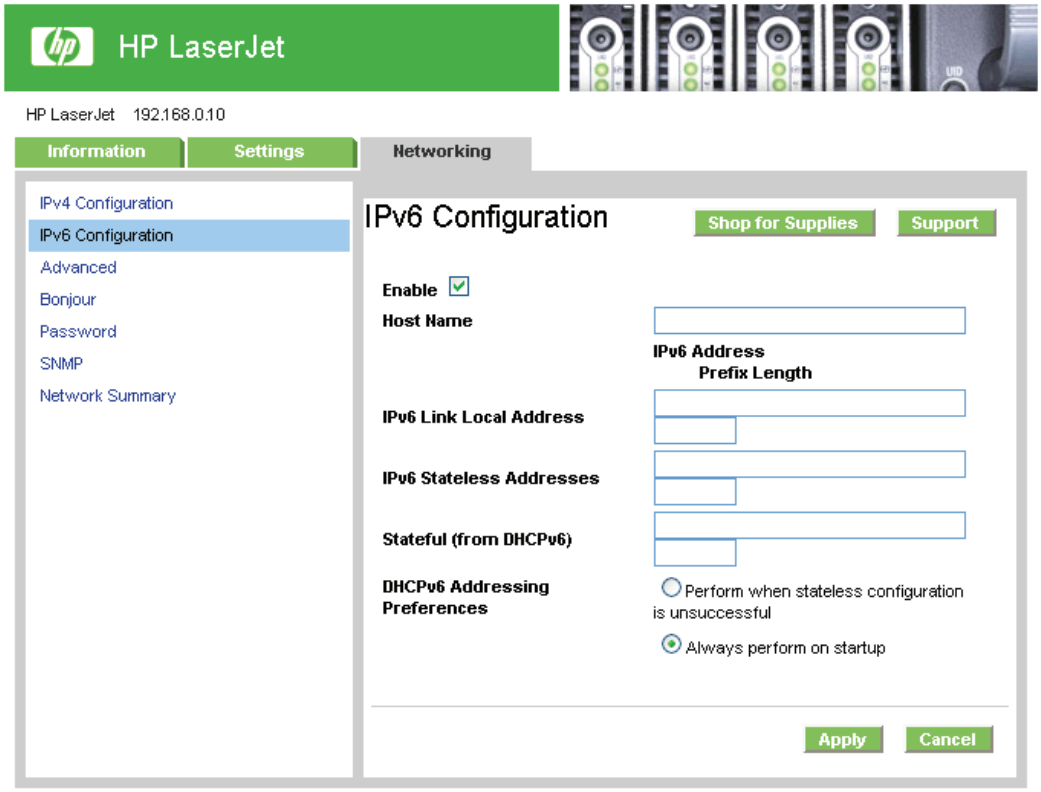
Figure 2-10 HP EWS – IPv4 Configuration page



IPv6 Configuration page

Use the **IP Configuration** page to configure the IP address and host and domain names for the product using the IPv6 protocol.

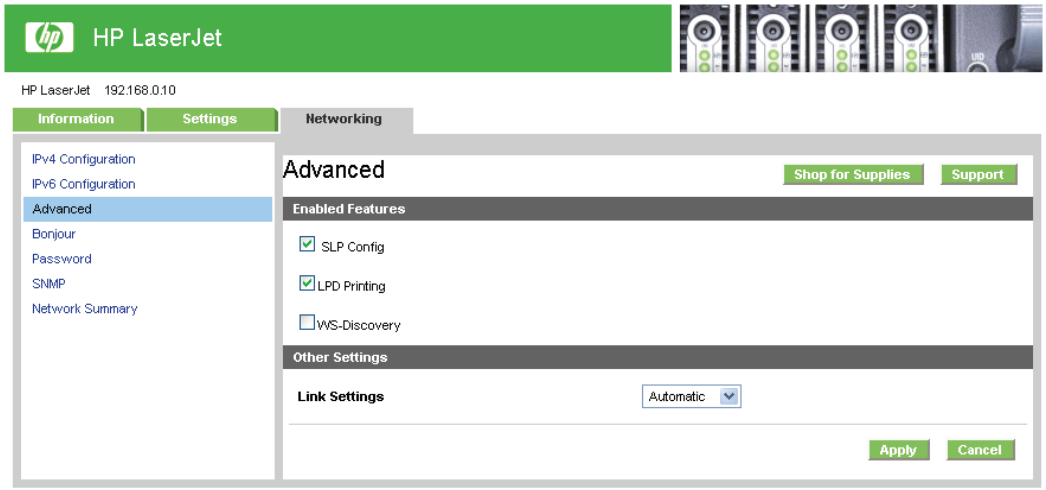
Figure 2-11 HP EWS – IPv6 Configuration page



Advanced page

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

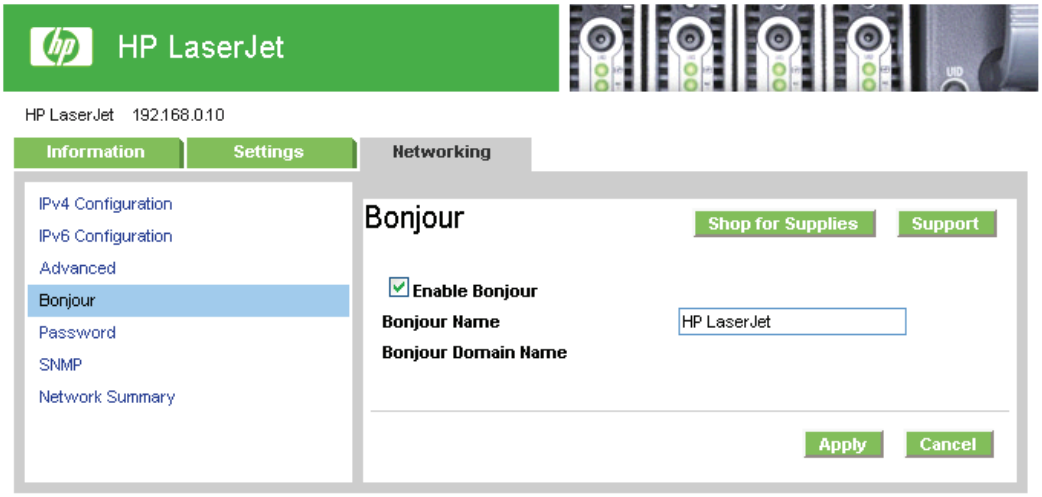
Figure 2-12 HP EWS – Advanced page



Bonjour page

Use the **Bonjour** page to enable or disable the Bonjour settings for the product.

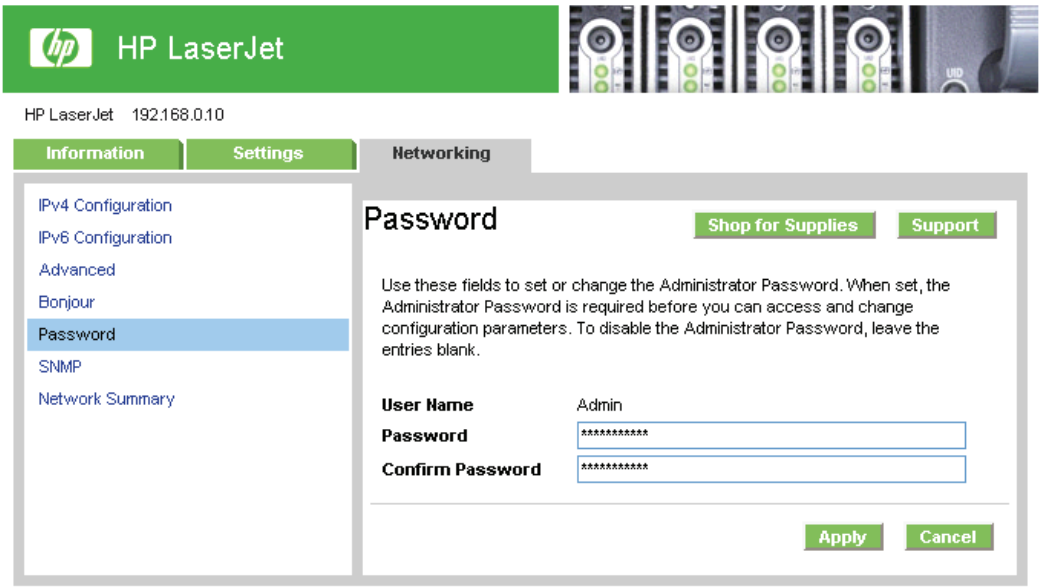
Figure 2-13 HP EWS – Bonjour page



Password page

Use this page to set or change the administrator password.

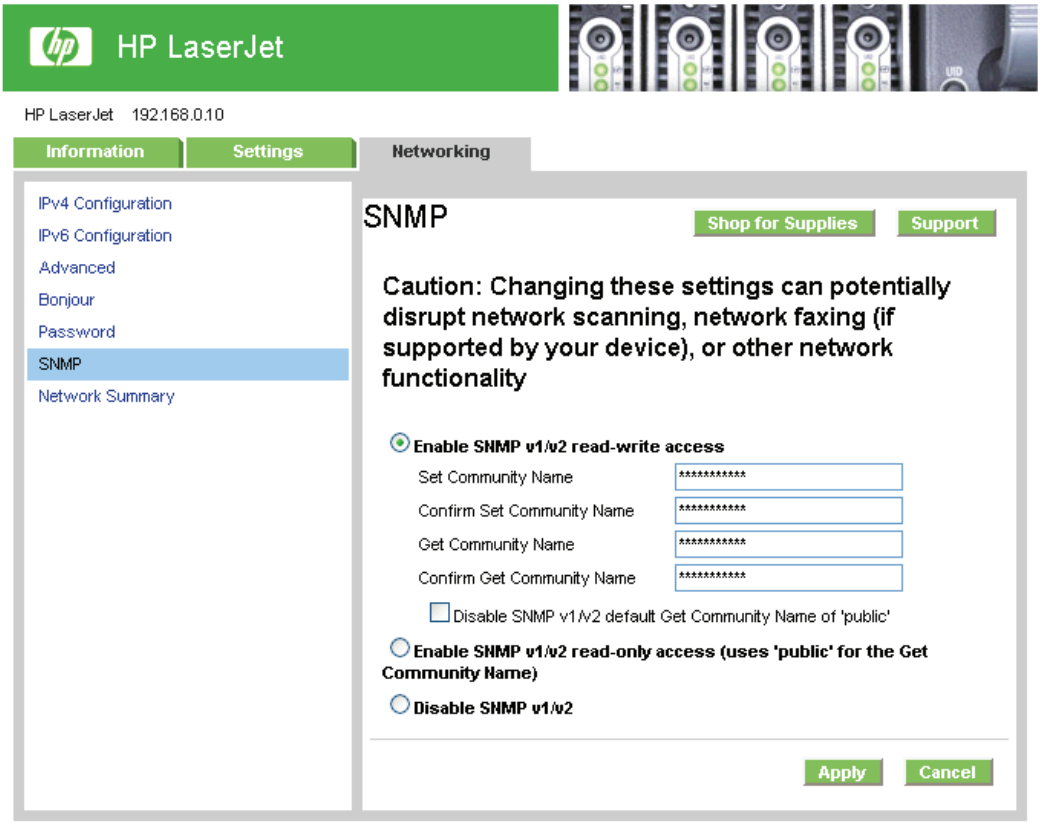
Figure 2-14 HP EWS – Password page



SNMP page

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

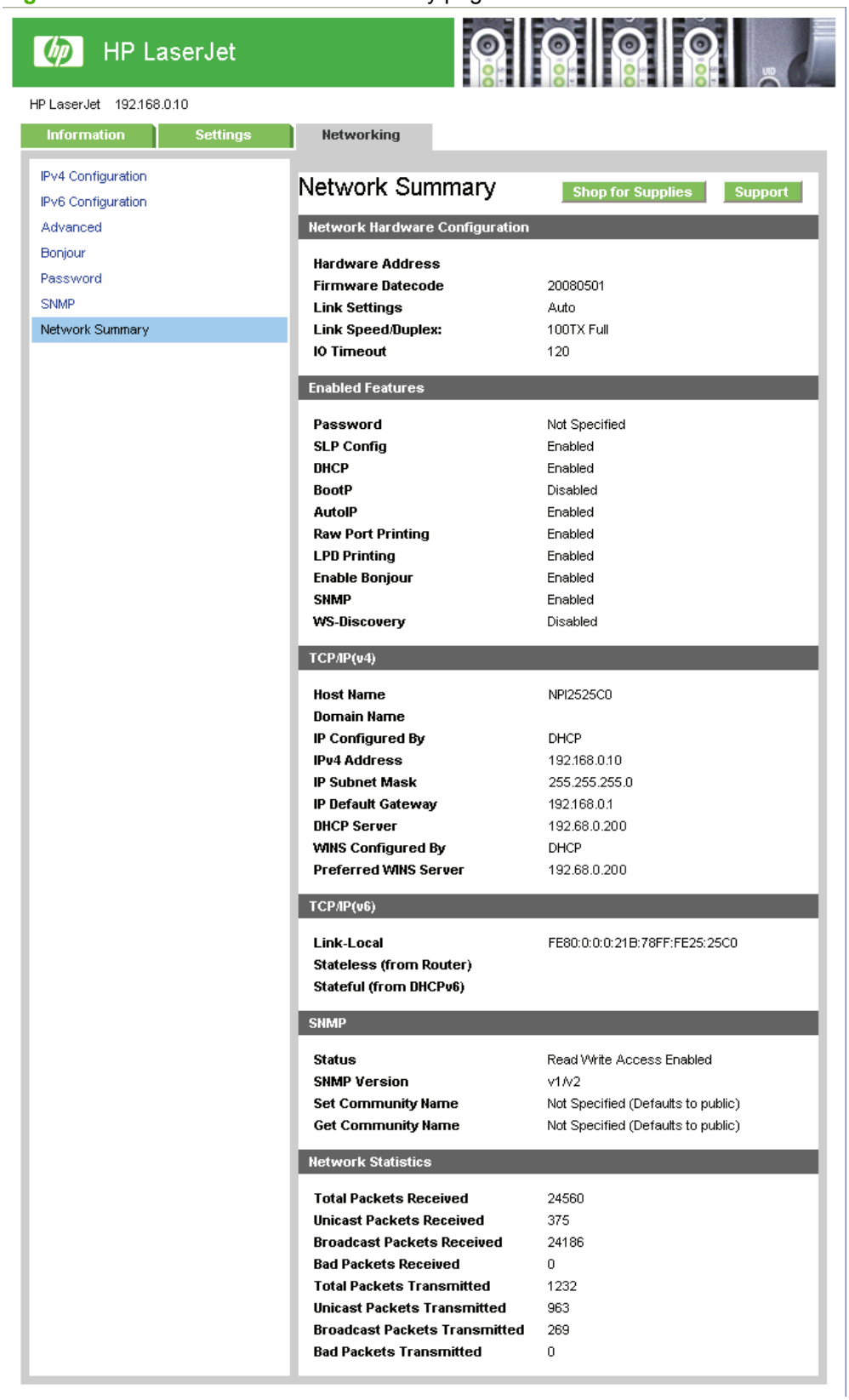
Figure 2-15 HP EWS – SNMP page



Network Summary page

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

Figure 2-16 HP EWS – Network Summary page



HP Web Jetadmin

Use the HP Web Jetadmin and a browser to manage network-connected products within an intranet. HP Web Jetadmin is a browser-based management tool that should be installed only on a single network-administration server.

For more information about HP Web Jetadmin or to download a current version for the latest list of host systems, go to the following Web site:

www.hp.com/go/webjetadmin

HP Customer Participation Program

When installing the printing-system software, you have the option of participating in HP's voluntary program for communication between your system and HP. This feature, available through software that is included on the printing-system software CD, helps HP monitor toner usage.

If you select the option to participate, you receive an invitation about two weeks later. It contains full disclosure of the information to be communicated. Participation is entirely voluntary, and the impact on processing and connecting speed is negligible. Personal information is never sent to HP without permission. Network addresses are used only to enable the connection and for security purposes.

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

Optional software

HP SureSupply

HP SureSupply is a tool found in most HP products that helps you keep up with your print supplies. When an HP product sends you a low-ink or low-toner alert, HP SureSupply lets you immediately order the correct supplies online—often with free shipping—either from a participating retailer or from HP.

HP SureSupply works with the product, genuine HP printing supplies, built-in software, and the Internet. Supplies use is monitored, and you are alerted when supplies are running low. Depending on the product model, the alert can be either a pop-up message on the desktop or a message sent to an e-mail address or pager.

3 Install Windows software and utilities

Introduction

The HP LaserJet P2030 Series comes with software and installers for Windows and Apple Computer, Inc., Macintosh systems. LINUX and UNIX systems support the product, and software is available on the Web. This chapter provides procedures for installing and removing the product software for MS Windows operating systems.

NOTE: If the computer is running a 64-bit Windows operating system, install the corresponding 64-bit print driver. For instructions, see Detailed Windows installation instructions on page 50.

- Supported operating systems for Windows
- Installation overview
- Windows software installation options
- Detailed Windows installation instructions
- Uninstall the software

Supported operating systems for Windows

NOTE: For information about the printing-system software for Macintosh operating systems, see Macintosh software and utilities on page 125.

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

For more information about the product, go to the following Web site:

www.hp.com/support/ljp2030series

- Full-solution software
- Print driver support in other operating systems
- Windows operating system requirements

Full-solution software

The following Windows operating systems fully support the product through the software installer, and drivers for these operating systems are available on the printing-system software CD that comes with the product.

- Windows 2000
- Windows XP (32-bit and 64-bit)
- Windows Server 2003 (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)

Print driver support in other operating systems

Linux

You can also print to the product from any operating system that complies with the PCL command language, such as OS2, 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 a model script to set up the UNIX environment for printing. The HP LaserJet III model script, or any generic HP LaserJet product Model Script, should work. These files are written and provided by the individual UNIX vendor. 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/unixmodelscripts

Click the **Support & Drivers** link.

Windows operating system requirements

The printing-system software has the following minimum system requirements.

- Windows 2000, Windows Server 2003, Windows XP, or Windows Vista operating system
- 512 MB RAM
- 350 MB of available hard drive space
- A 2x or faster CD-ROM drive (required for installation)
- A USB port

NOTE: If the USB port has another product attached to it, such as an external storage device, the device must be disconnected or an additional USB port must be added. You can add an additional USB port by using a hub, or by installing an additional USB card.

Installation overview

The software for the HP LaserJet P2030 Series printer comes on one CD. The CD includes print drivers and all of the necessary software for the product.

The product includes an installer that supports a software-first installation, which is the recommended installation method.

On computers running Windows 2000, Windows 2003 Server, Windows XP, or Windows Vista, the setup program installs the printing-system software from the CD onto the hard drive and updates Windows files.

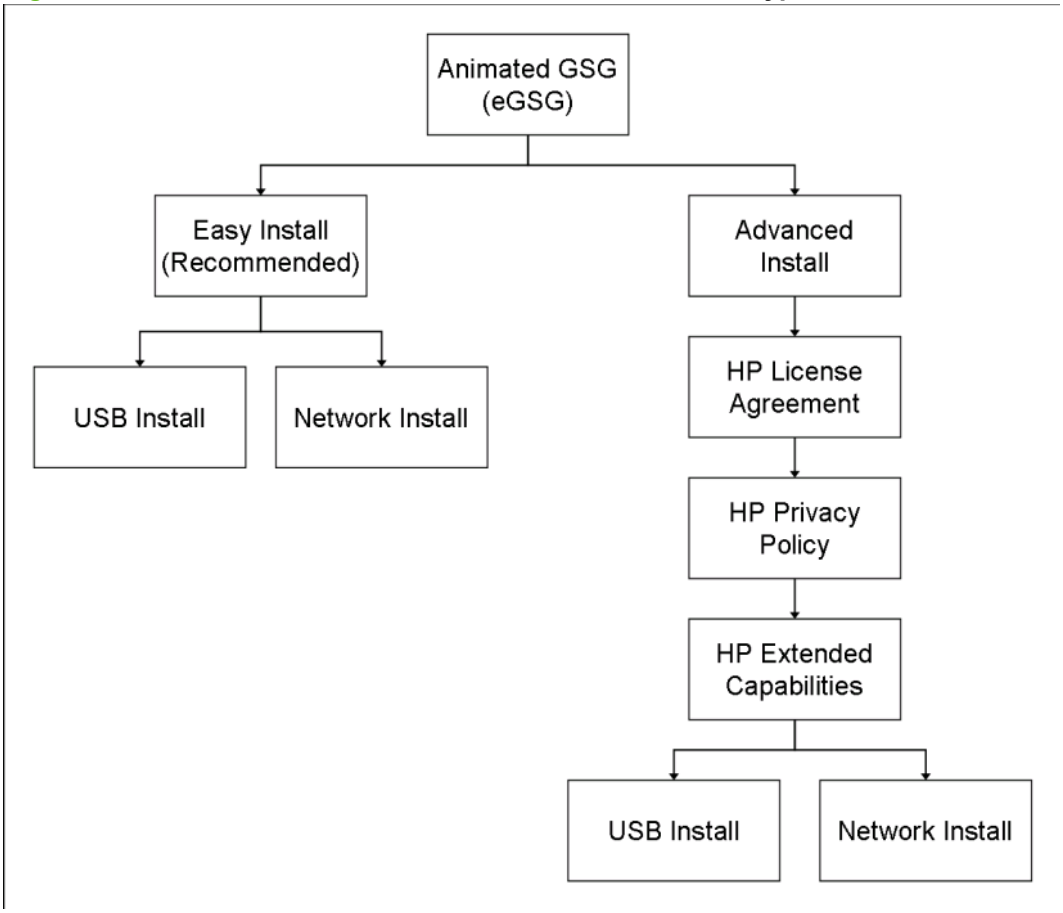
For all of the supported platforms, each installation option presents a series of query dialog boxes that move through the installation process. Different dialog boxes are presented for a directly-connected or networked product.

NOTE: The printing-system software uses Microsoft USB printing support (USB00X) rather than DOT4 printing support.

Software installation types for Windows

The following printing-system software installation types are available:

Figure 3-1 HP LaserJet P2030 Series Software Installation Types



- **Easy Install (recommended)**. Installs all the software components for the product. Selecting this installation type indicates the acceptance of the installation agreements and default settings.
  - **USB Install**
  - **Network Install**s
- **Advanced Install**. Installs all the software components for the product. Selecting this installation type allows you to review all of the installation agreements and default settings.
  - **USB Install**
  - **Network Install**

The following table indicates the components that are installed for each installation method.

Table 3-1 Printing-system software components installed for each installation method

Components installed	Easy Install (Recommended)	Advanced Install	Add Printer
HP LaserJet P2030 Series host-based print driver	X	X	

Table 3-1 Printing-system software components installed for each installation method (continued)

Components installed	Easy Install (Recommended)	Advanced Install	Add Printer
HP PCL 5e Universal Print Driver			X[1]
XML Paper Specification (XPS) Driver			X[1]
HP SureSupply (desktop shortcut)	X	X	X
HP Extended Capabilities	X	X	X

[1] This driver is available for download from the HP.com Web site. A link to the Web site is provided at the end of the installation sequence. An internet connection is required.

For all supported operating systems, each installation type presents a series of dialog boxes that guides the installation. You are prompted to provide information about the host computer environment. The installer guides the installation, whether you are configuring a directly-connected or a network-connected product.

The installer detects hardware and network connections, and helps guide the installation. For example, if the installer detects an HP LaserJet P2030 Series printer, it automatically configures most software features for the connection to that product. This saves several steps. If the installer detects a network, it also guides setting up those features.

Windows software installation options

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

- **Direct Connection.** Install the printing-system software on a computer that is directly connected to the product through a USB port and running Windows 2000, Windows Server 2003, Windows XP, or Windows Vista.

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

- **Network connection using on-board networking (HP LaserJet P2035n).** Install the printing-system software on a computer that is running Windows 2000, Windows XP, or Windows Vista and that has access to a local area network (LAN) to which the product is also connected . Network models have on-board networking that connects to a LAN through a 10/100Base-T (RJ-45) port.

  The following elements are required for a networked product:

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

Animated Getting Started Guide (eGSG)

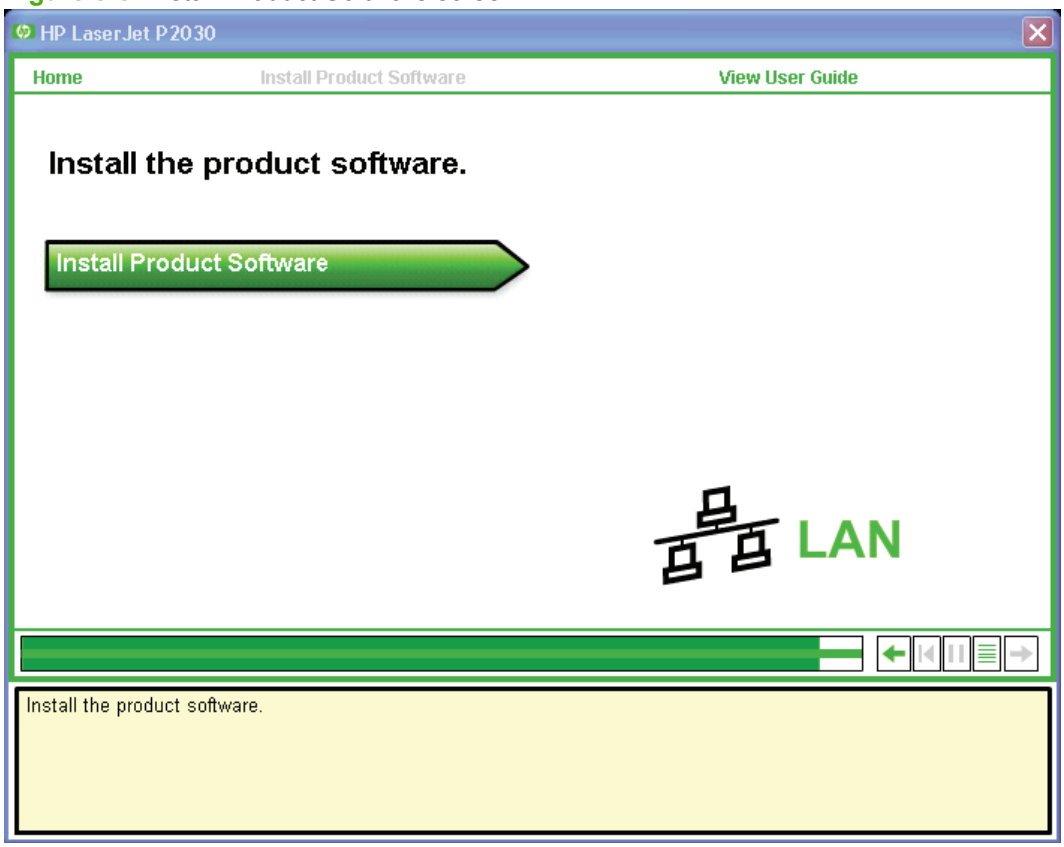
When you insert the printing-system software CD into the CD-ROM drive, the Animated Getting Started Guide starts automatically. The **Begin Setup** screen appears.

Figure 3-2 Animated Getting Started Guide – Welcome screen

Click **Begin Setup** to initiate a series of screens that show how to prepare the product for software installation. Click the arrows in the lower-right corner of the screen to view animated illustrations of each step.

When setup is complete, the **Install Product Software** screen appears.

Figure 3-3 Install Product Software screen



Click **Install Product Software** to install the print drivers and other software features.

Windows installation for direct connections

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

NOTE: Set up the product before installing the printing-system software. Do not turn on the product or connect the product to the computer until the software prompt appears.

NOTE: You must have administrator privileges to install the printing-system software on Windows systems.

1. Quit all open programs.
2. 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 AUTORUN.EXE file in the root directory of the CD.

3. The Animated Getting Started Guide opens. Follow the onscreen prompts to set up the product and install the software. When prompted to choose your printer connection, select **USB**.

4. When the installation is nearly complete, the **Finish** dialog box appears and you can register the product and print a test page. Click to select the **Register printer online** check box, and then click **Finish** to finish the installation. A test page prints automatically and the HP Registration Web site opens in your Web browser.

5. If prompted to restart the computer, click **Yes**.

Windows installation for computers on a network

Each networked computer that has the printing-system software installed has access to all of the product features over a network connection. This access is through on-board networking that comes standard on the network models.

To install the printing-system software on networked computers running Windows 2000, Windows Server 2003, Windows XP, or Windows Vista, follow these steps.

NOTE: You must have administrator privileges to install the software.

1. Quit all open programs.

2. 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 AUTORUN.EXE file in the root directory of the CD.

3. The Animated Getting Started Guide opens. Follow the onscreen prompts to set up the product and install the software. When prompted to choose your printer connection, select **Through the network**.

4. When the installation is nearly complete, the **Finish** dialog box appears and you can register the product and print a test page. Click to select the **Register printer online** check box, and then click **Finish** to finish the installation. A test page prints automatically and the HP Registration Web site opens in your Web browser.

5. If prompted to restart the computer, click **Yes**.

Install the print drivers using the Add-Printer Wizard or a Plug-and-Play Installation

Download the appropriate driver at the following HP support Web site: www.hp.com/support/ljp2030series

Use the Plug and Play Package for a direct USB connection. Use the Print Driver Only Package for a network connection. Follow the installation instructions provided on the Web site.

Detailed Windows installation instructions

The following section shows the dialog box options that appear during the printing-system software installation on Windows operating systems.

NOTE: HP recommends installing the software before connecting the product to the computer (software-first installation). These instructions are for a software-first installation.

Use these instructions the first time you install the printing-system software .

- Printing-system software installation for Windows
- Set a default printer

Printing-system software installation for Windows

The following sections describe the dialog-box options that appear during the product software installation on Windows operating systems. Installation begins through the Animated Getting Started Guide. The following sequence begins after clicking **Install Product Software** in the Animated Getting Started Guide. For more information, see Animated Getting Started Guide (eGSG) on page 47.

USB installation dialog-box options for Windows

NOTE: For USB installations, HP recommends installing the software before connecting the product to the computer (software-first installation). These instructions are for a software-first installation. Installation begins through the Animated Getting Started Guide. The following sequence begins after clicking **Install Product Software** in the Animated Getting Started Guide. For more information, see Animated Getting Started Guide (eGSG) on page 47.

Use these instructions the first time you install the product software.

In any dialog box where it is available, click the **Back** button, to return to the previous dialog box, or click the **Cancel** button to cancel the installation.

NOTE: The sequence of dialog boxes might differ from what is shown here, depending on the product and the selected options.

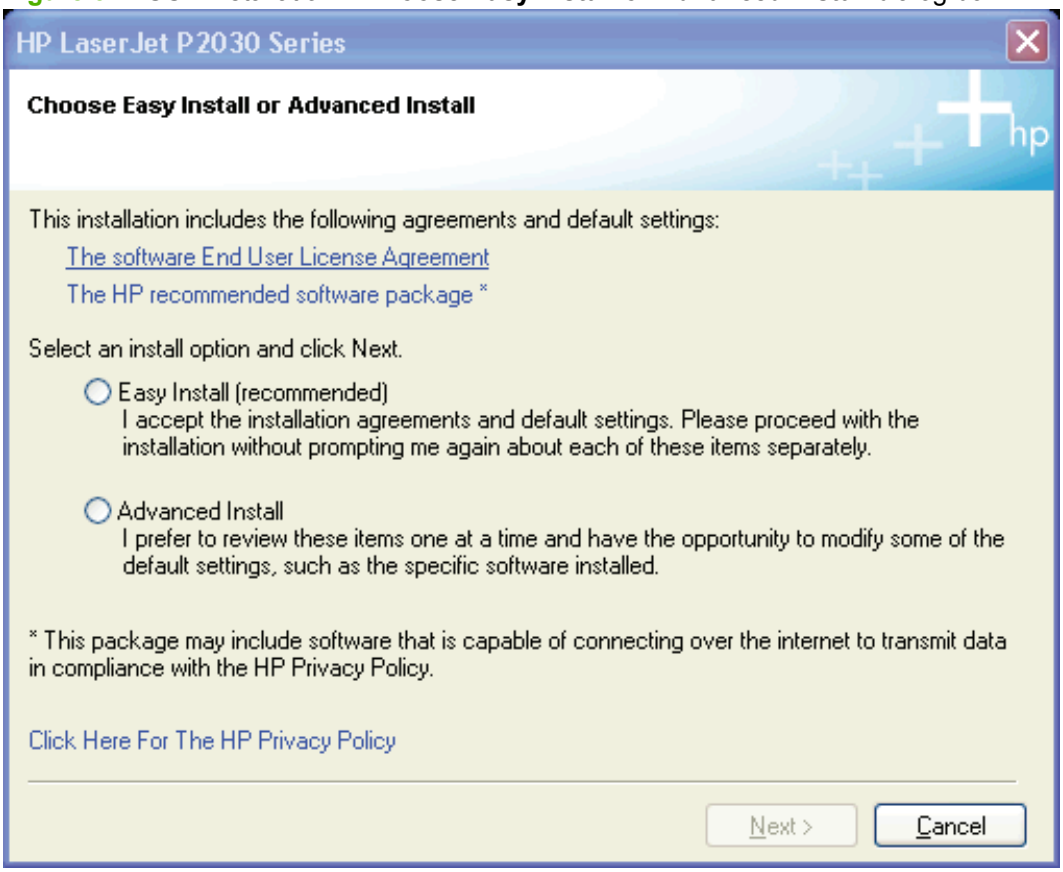
Click **Next** to continue. Between dialog boxes, a current-progress screen appears. This screen shows the progress of the installation and provides information about the number of subtasks that have been completed in each step. The current-progress screen appears throughout the installation, but is sometimes covered by a new dialog box that contains the next option in the installation sequence.

1. Once you have clicked **Install Product Software** in the Animated Getting Started Guide, the **Choose Easy Install or Advanced Install** dialog box appears. This dialog box includes links to the following information. This information is provided in separate dialog boxes during an Advanced

Install. Click any of these links to read the information from this screen without interrupting the installation process.

- **The software End User License Agreement**
- **The HP recommended software package** (HP Extended Capabilities)
- **Click Here for the HP Privacy Policy**

Figure 3-4 USB installation – **Choose Easy Install or Advanced Install** dialog box



- Click **Easy Install (Recommended)** to install the complete printing-system software and to accept all HP license agreements.

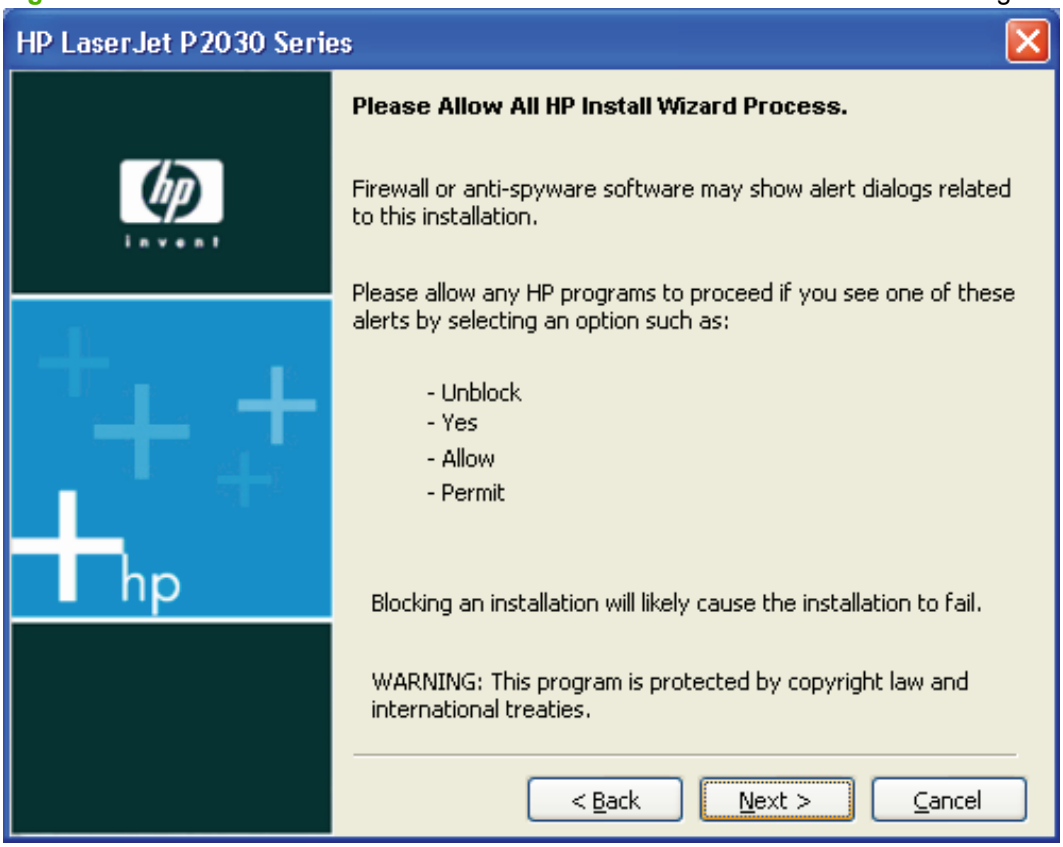
  Click **Next**. The **Please Allow All HP Install Wizard Processes** dialog box appears.

- Click **Advanced Install** to install the complete printing-system software and to see each HP license agreement during the installation process.

  If you click **Next**. The **Please Allow All HP Install Wizard Processes** dialog box appears.

2. The **Please Allow All HP Install Wizard Processes** instructs you to permit the installation process to continue if firewall or anti-spyware programs generate alert messages.

Figure 3-5 USB installation – **Please Allow All HP Install Wizard Processes** dialog box

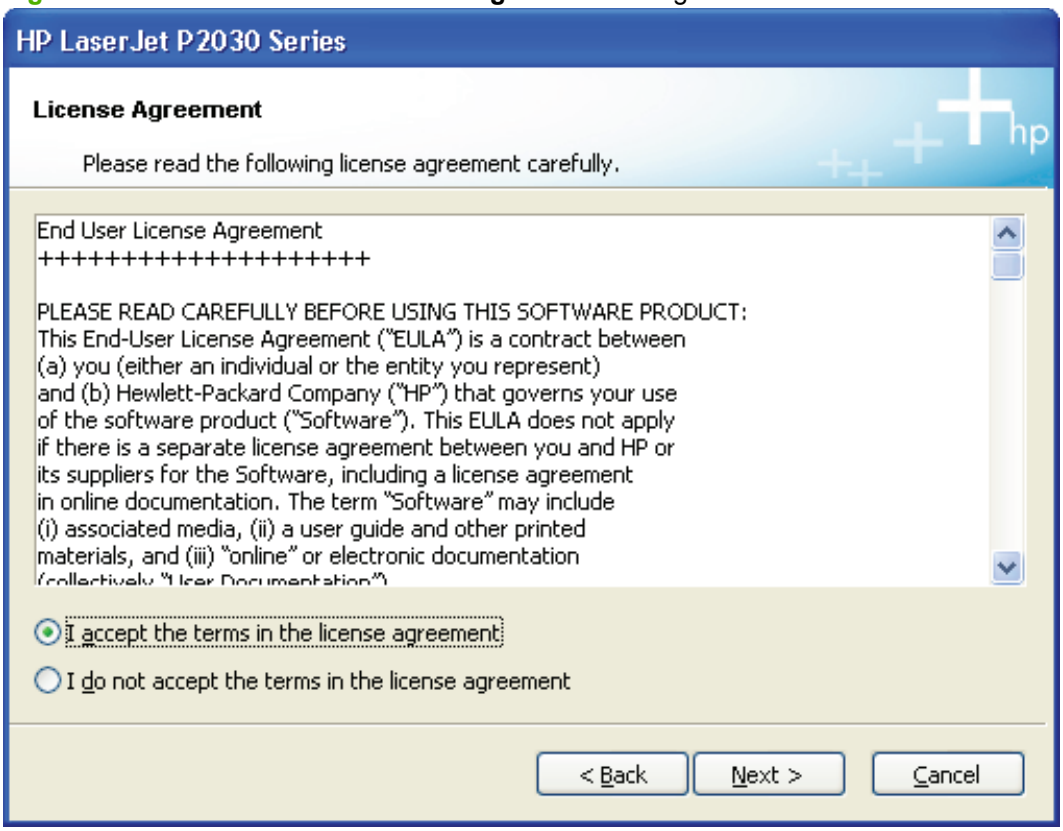


Click **Next** to continue. If you selected **Easy Install**, the **Select Printer** dialog box appears. If you selected an **Advanced Install**, the **License Agreement** dialog box appears.

3. If you selected an **Advanced Install**, the **License Agreement** dialog box appears.

NOTE: If you selected **Easy Install**, the **Select Printer** dialog box appears next.

Figure 3-6 USB installation – **License Agreement** dialog box

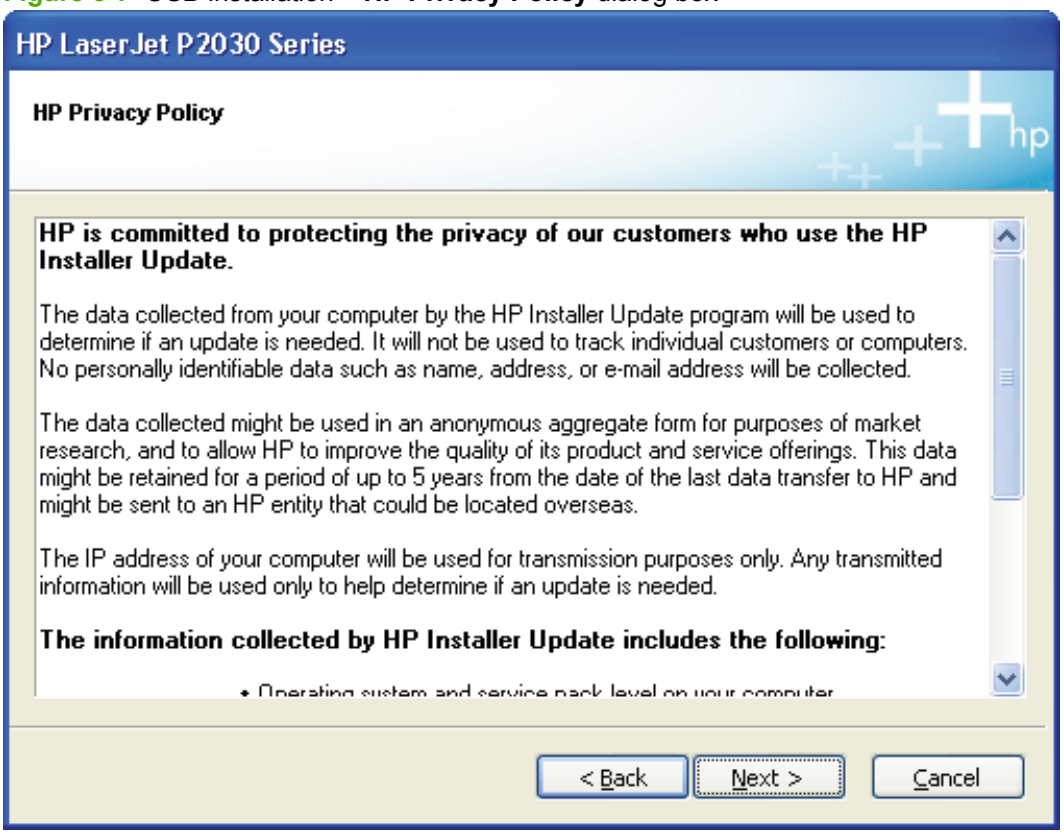


Click **I do not accept the terms in the license agreement** to cancel the installation.

Click **I accept the terms in the license agreement**, and then click **Next** to continue the installation.

4. The **HP Privacy Policy** dialog box appears.

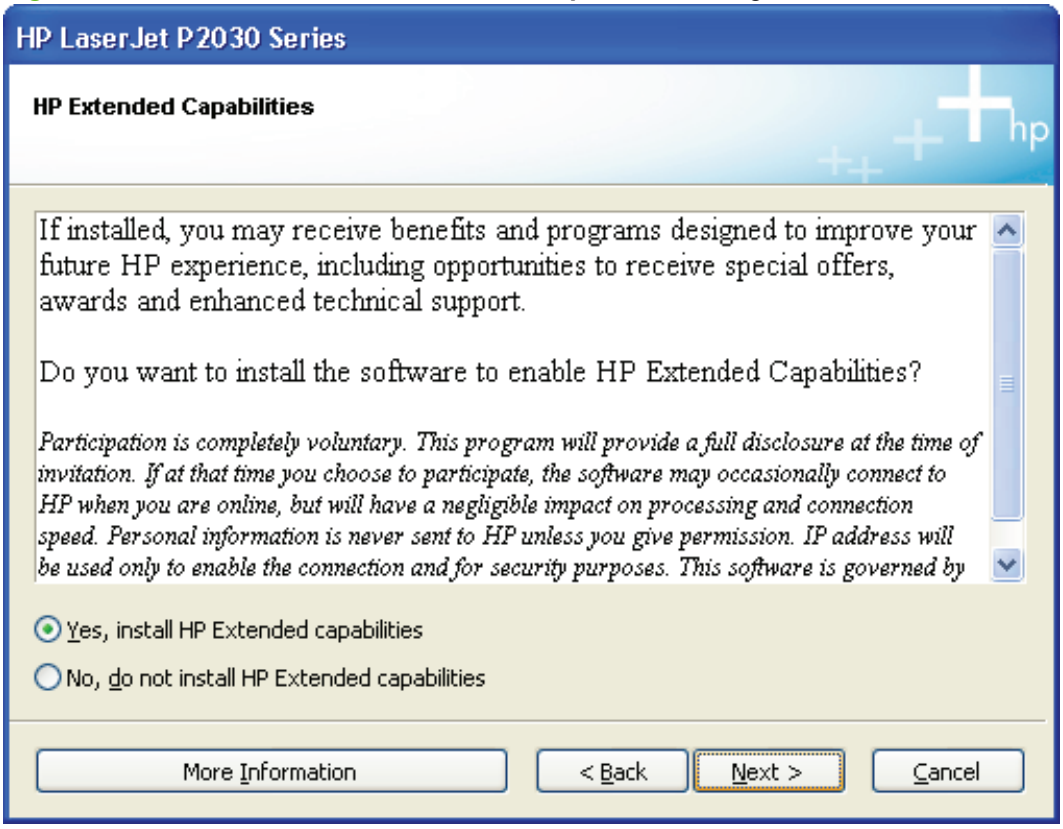
Figure 3-7 USB installation – **HP Privacy Policy** dialog box



Read the **HP Privacy Policy** and then click **Next** to continue.

5. The **HP Extended Capabilities** dialog box appears.

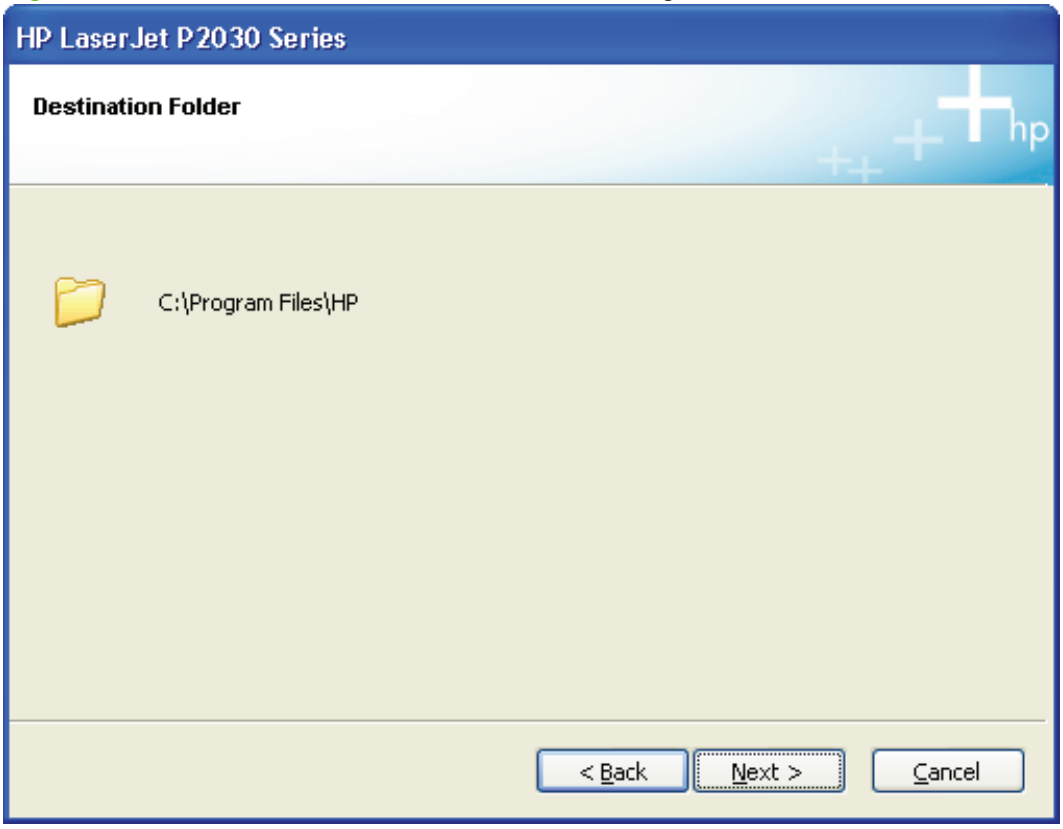
Figure 3-8 USB installation – **HP Extended Capabilities** dialog box



Read the **HP Extended Capabilities** dialog box and then click **Yes, install HP Extended Capabilities** or click **No, do not install HP Extended Capabilities**. Click **More Information** to learn more about this feature. Click **Next** to continue.

6. The **Destination Folder** dialog box appears showing the default directory for the installation files.

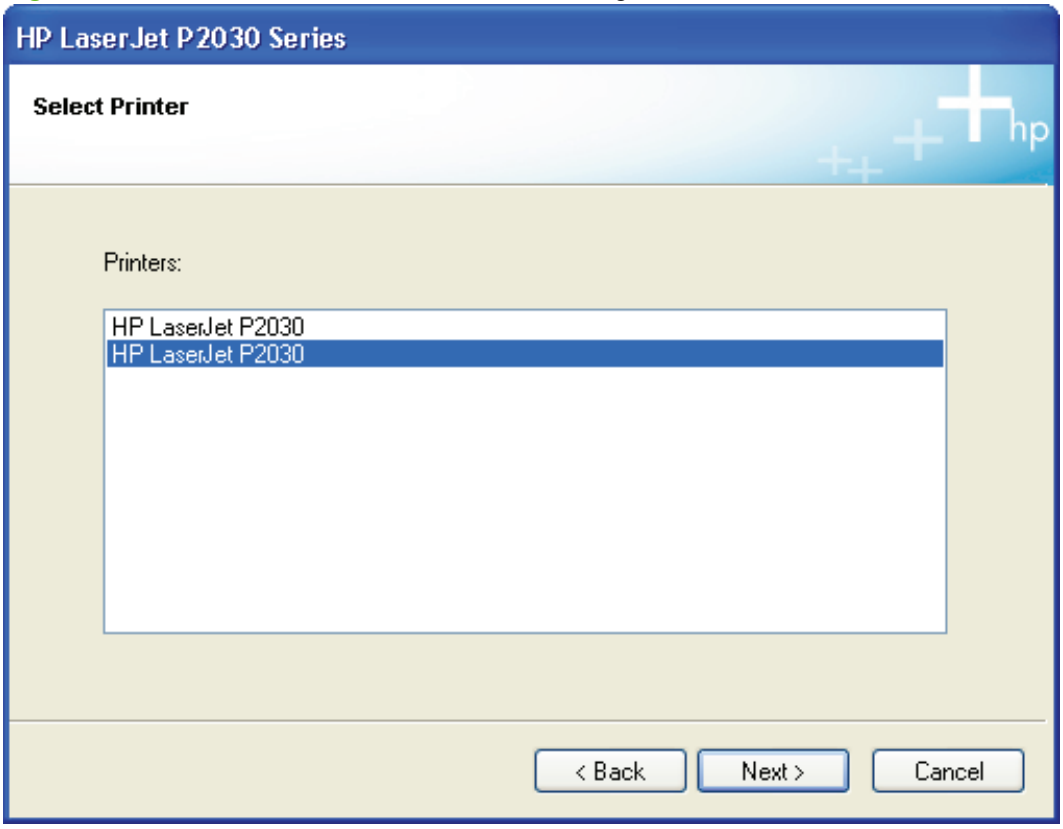
Figure 3-9 USB installation – **Destination Folder** dialog box



Click **Next** to continue.

7. The **Select Printer** dialog box appears.

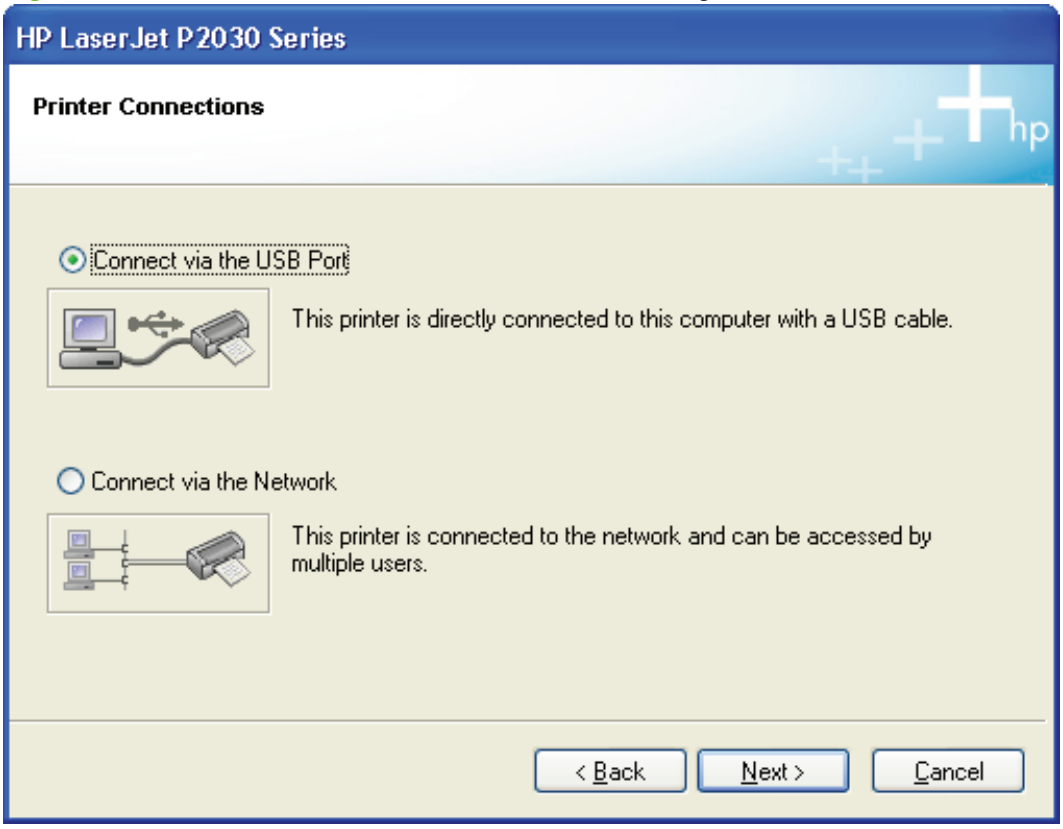
Figure 3-10 USB installation – **Select Printer** dialog box



Select your printer model and then click **Next** to continue.

8. The **Printer Connections** dialog box appears.

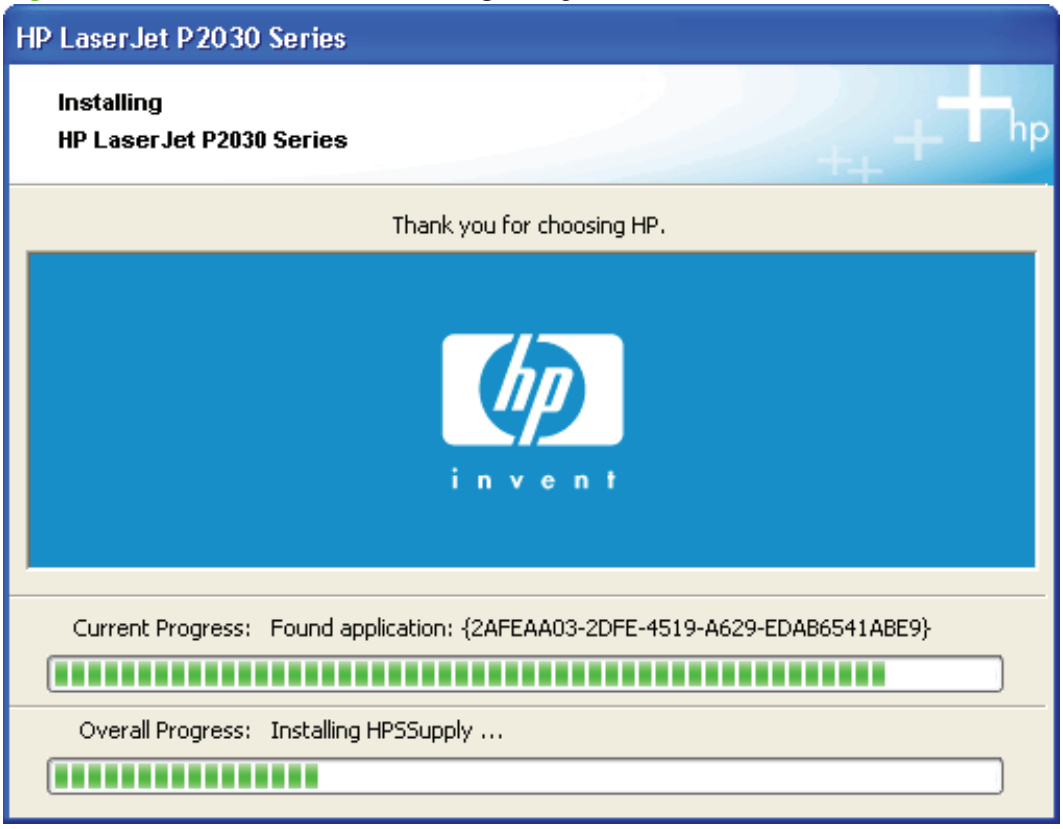
Figure 3-11 USB installation – **Printer Connections** dialog box



Click **Connect via the USB Port** and then click **Next** to continue.

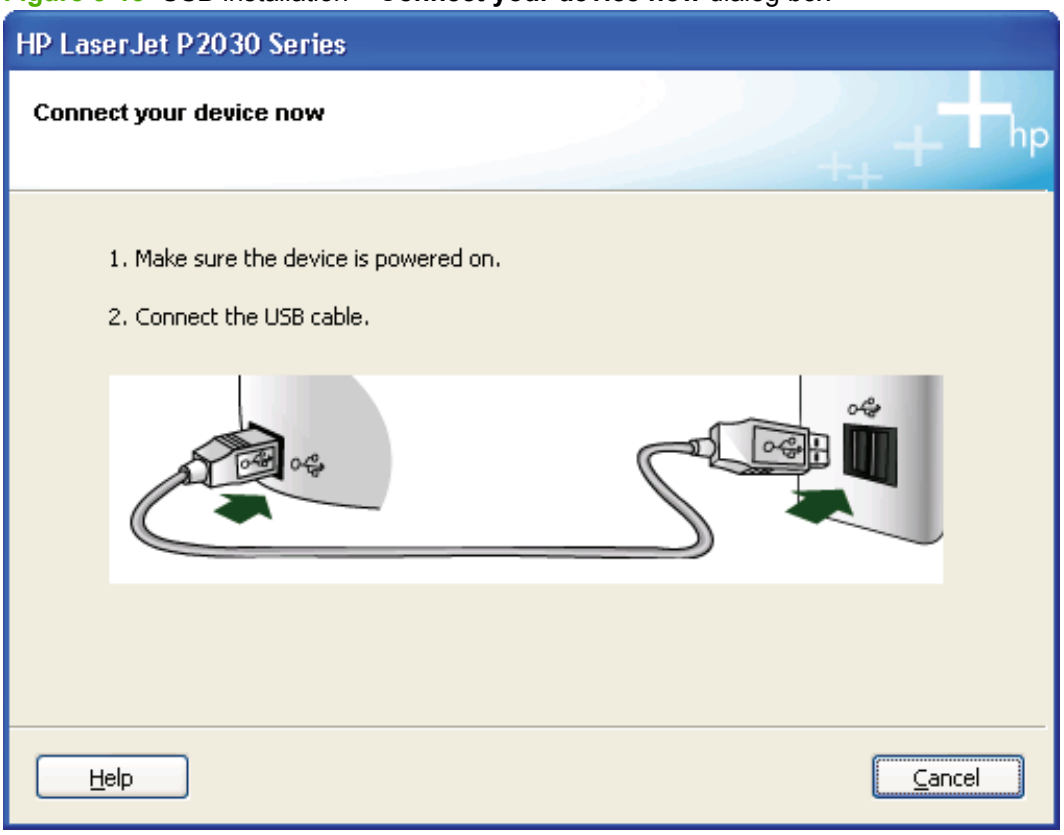
9. The **Installing** dialog box appears.

Figure 3-12 USB installation – **Installing** dialog box



10. The **Connect your device now** dialog box appears.

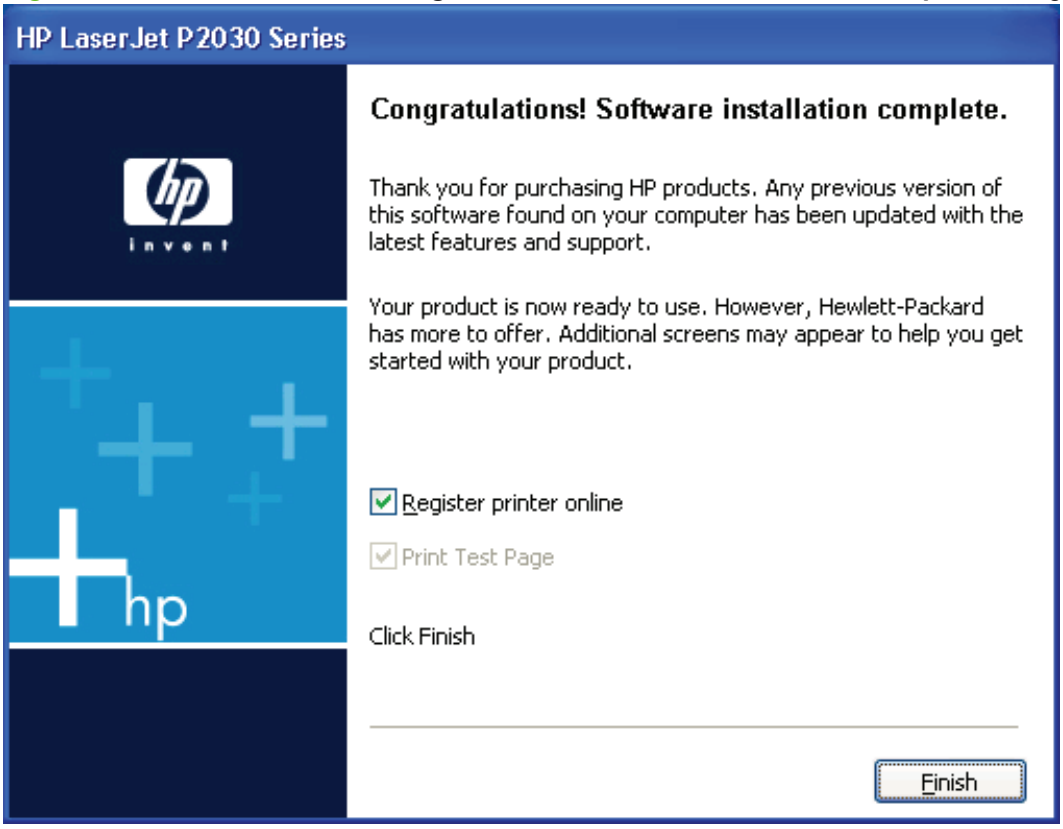
Figure 3-13 USB installation – **Connect your device now** dialog box



Make sure the printer is turned on, then connect the USB cable between the computer and the printer. The dialog box changes to show the connection.

11. The **Congratulations! Software Installation complete** dialog box appears.

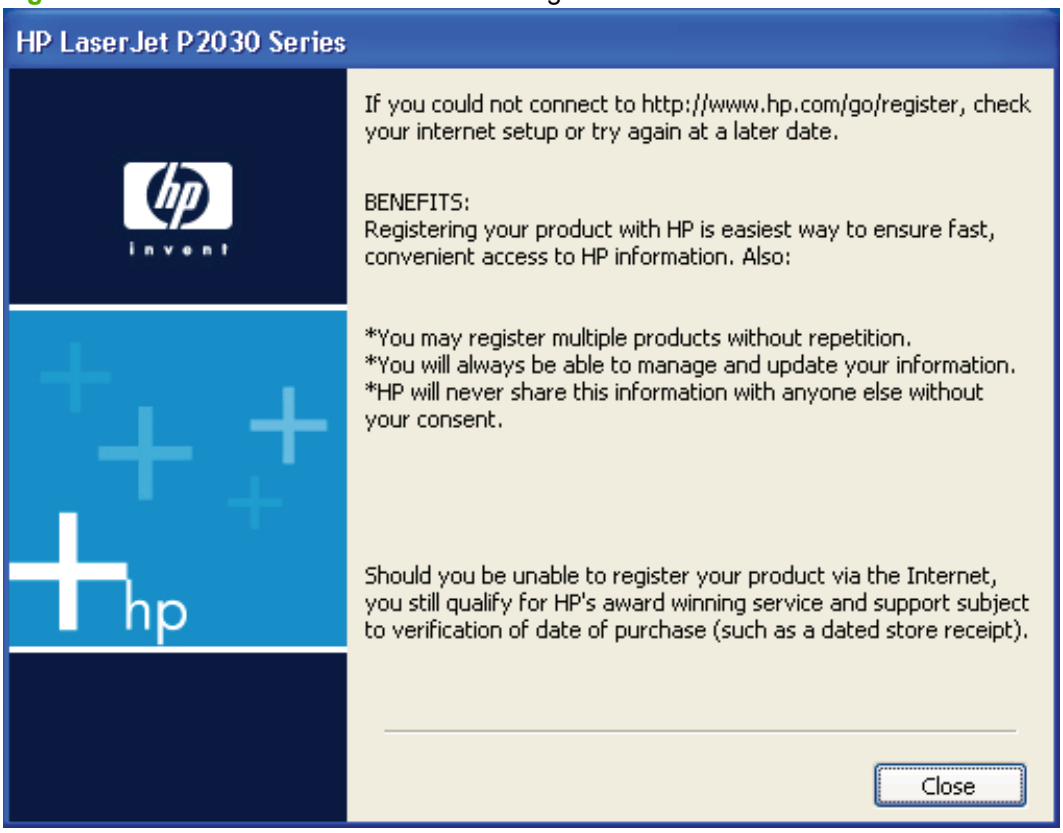
Figure 3-14 USB installation – **Congratulations! Software Installation complete** dialog box



- The **Register printer online** check box is selected by default. Leave this check box selected and then click **Finish** to complete the installation and to open your Web browser to the HP Registration web site.

- If you click to deselect the **Register printer online** check box and then click **Finish**, the **Benefits** dialog box appears.

Figure 3-15 USB installation – **Benefits** dialog box



Click **Close** to close the **Benefits** dialog box.

12. After you complete the registration process or close the **Benefits** dialog box, a test page will print and the **Congratulations! Software Installation complete** dialog box changes to present the following links to the HP Web site:

    - **Click here to download PCL 5e driver**
    - **Click here to download XPS driver**

    Figure 3-16 USB installation – **Congratulations! Software Installation complete – Other driver links** dialog box

    Click **Finish** to complete the installation.

Network installation dialog box options for Windows

This section shows the dialog boxes that appear when you install the product over a network connection.

In any dialog box where it is available, click the **Back** button to return to the previous dialog box, or click the **Cancel** button to cancel the installation.

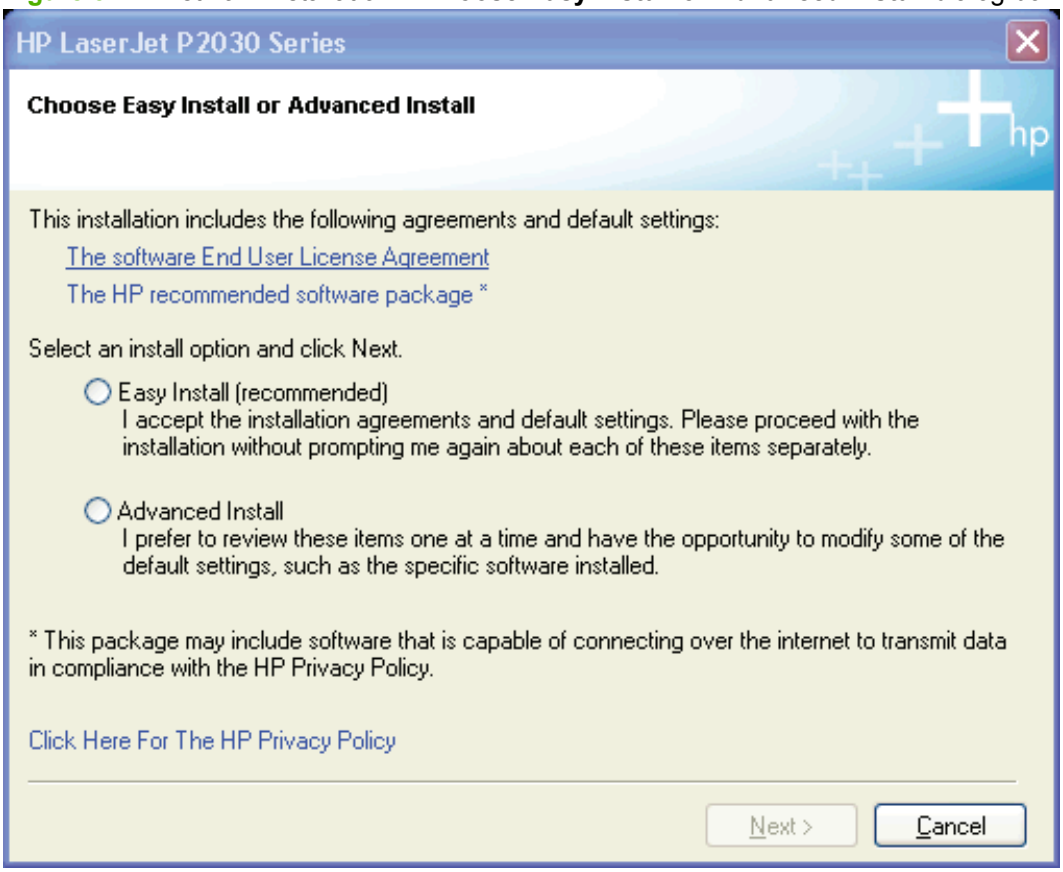
NOTE: The sequence of dialog boxes might differ from what is shown here, depending on the product, the network configuration, and the selected options.

1. Once you have clicked **Install Product Software** in the Animated Getting Started Guide, the **Choose Easy Install or Advanced Install** dialog box appears. This dialog box includes links to the following information. This information is provided in separate dialog boxes during an Advanced

Install. Click any of these links to read the information from this screen without interrupting the installation process.

- **The software End User License Agreement**
- **The HP recommended software package** (HP Extended Capabilities)
- **Click Here for the HP Privacy Policy**

Figure 3-17 Network installation – **Choose Easy Install or Advanced Install** dialog box



- Click **Easy Install (Recommended)** to install the complete printing-system software and to accept all HP license agreements.

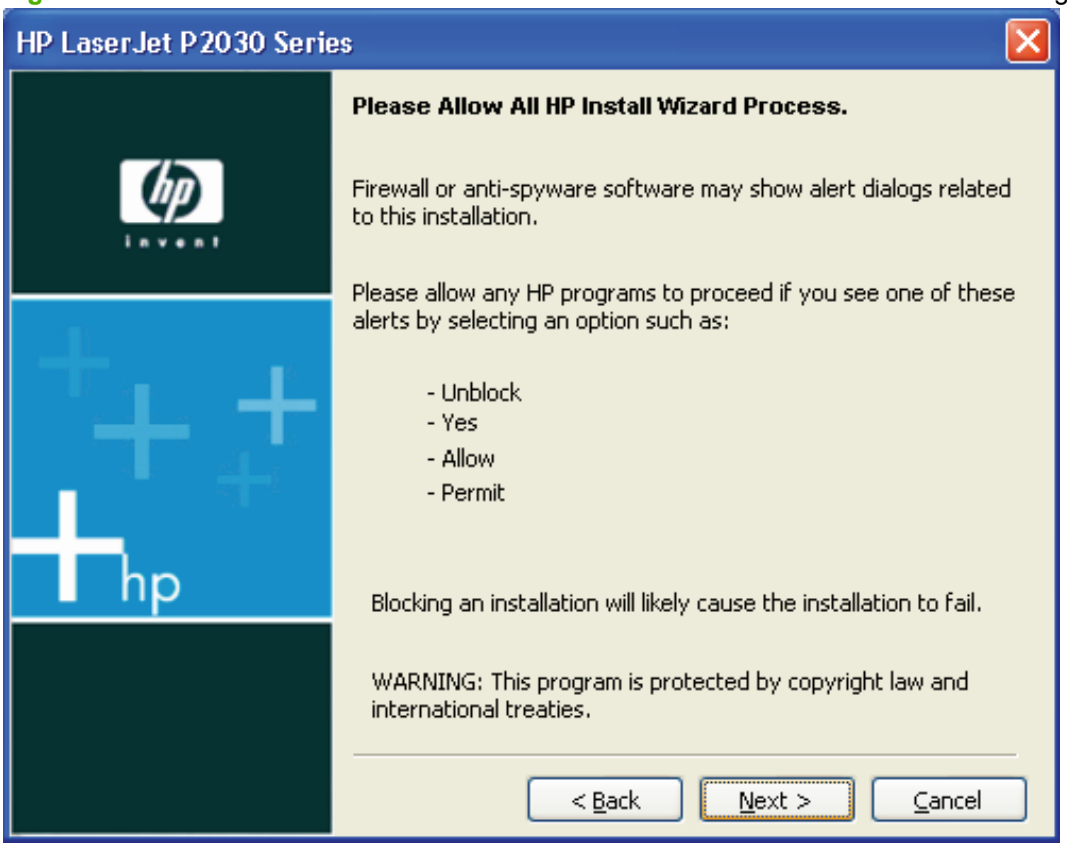
  Click **Next**. The **Please Allow All HP Install Wizard Processes** dialog box appears.

- Click **Advanced Install** to install the complete printing-system software and to see each HP license agreement during the installation process.

  If you click **Next**. The **Please Allow All HP Install Wizard Processes** dialog box appears.

2. The **Please Allow All HP Install Wizard Processes** instructs you to permit the installation process to continue if firewall or anti-spyware programs generate alert messages.

Figure 3-18 Network installation – **Please Allow All HP Install Wizard Processes** dialog box

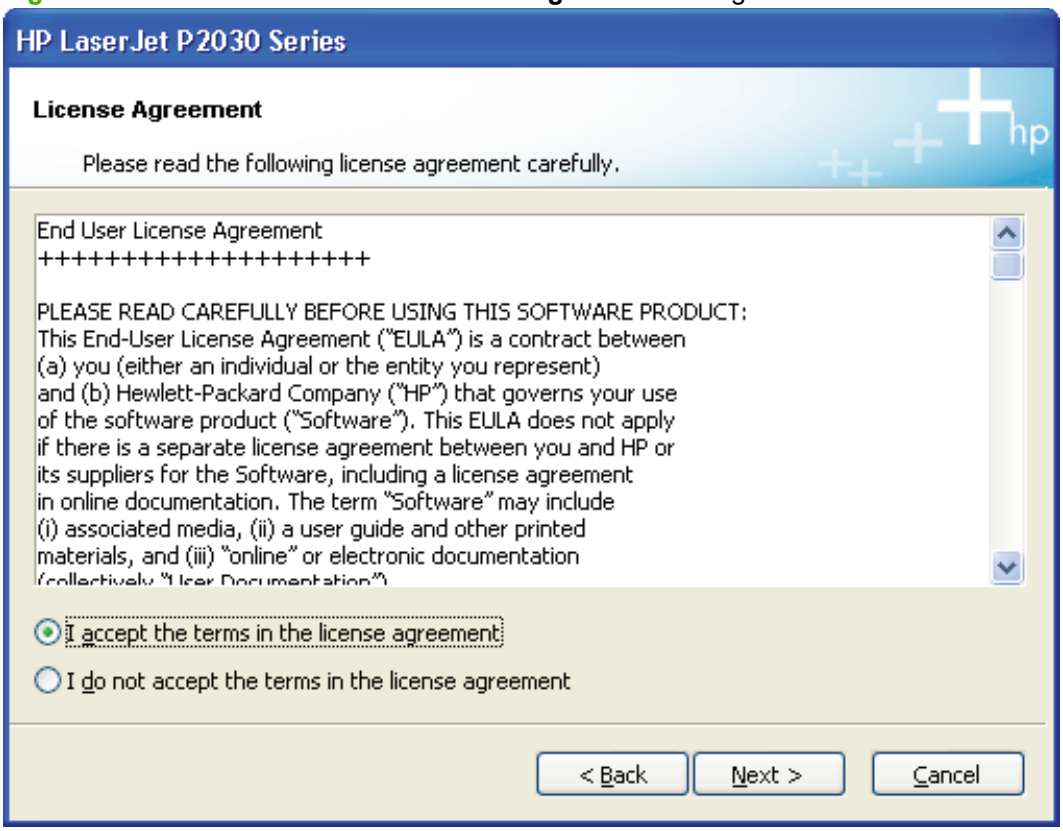


Click **Next** to continue. If you selected **Easy Install**, the **Select Printer** dialog box appears. If you selected an **Advanced Install**, the **License Agreement** dialog box appears.

3. If you selected an **Advanced Install**, the **License Agreement** dialog box appears.

NOTE: If you selected **Easy Install**, the **Destination Folder** dialog box appears next.

Figure 3-19 Network installation – **License Agreement** dialog box

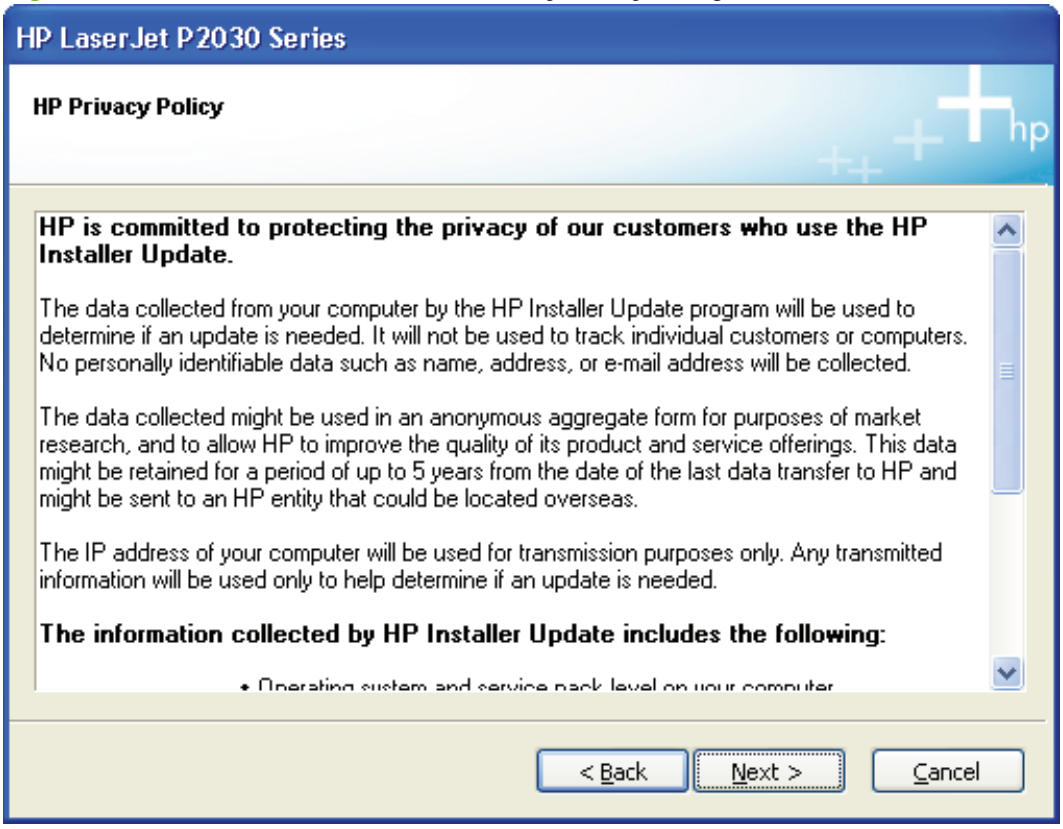


Click **I do not accept the terms in the license agreement** to cancel the installation.

Click **I accept the terms in the license agreement**, and then click **Next** to continue the installation.

4. The **HP Privacy Policy** dialog box appears.

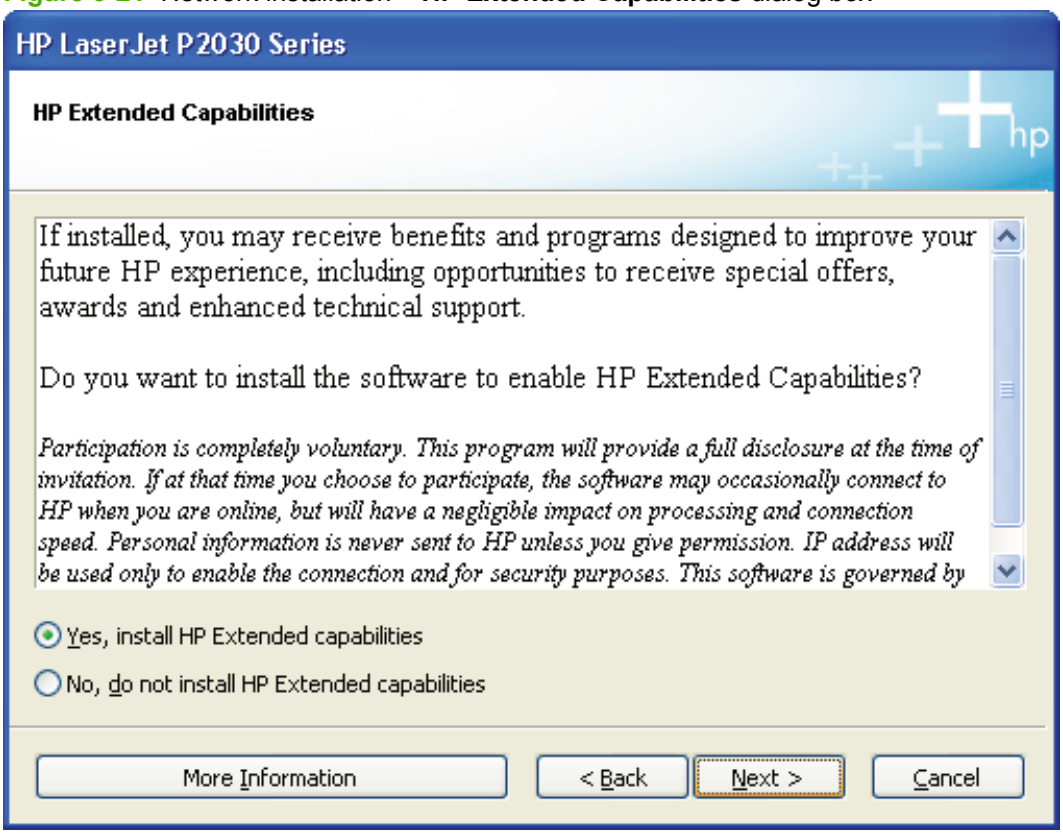
Figure 3-20 Network installation – **HP Privacy Policy** dialog box



Read the **HP Privacy Policy** and then click **Next** to continue.

5. The **HP Extended Capabilities** dialog box appears.

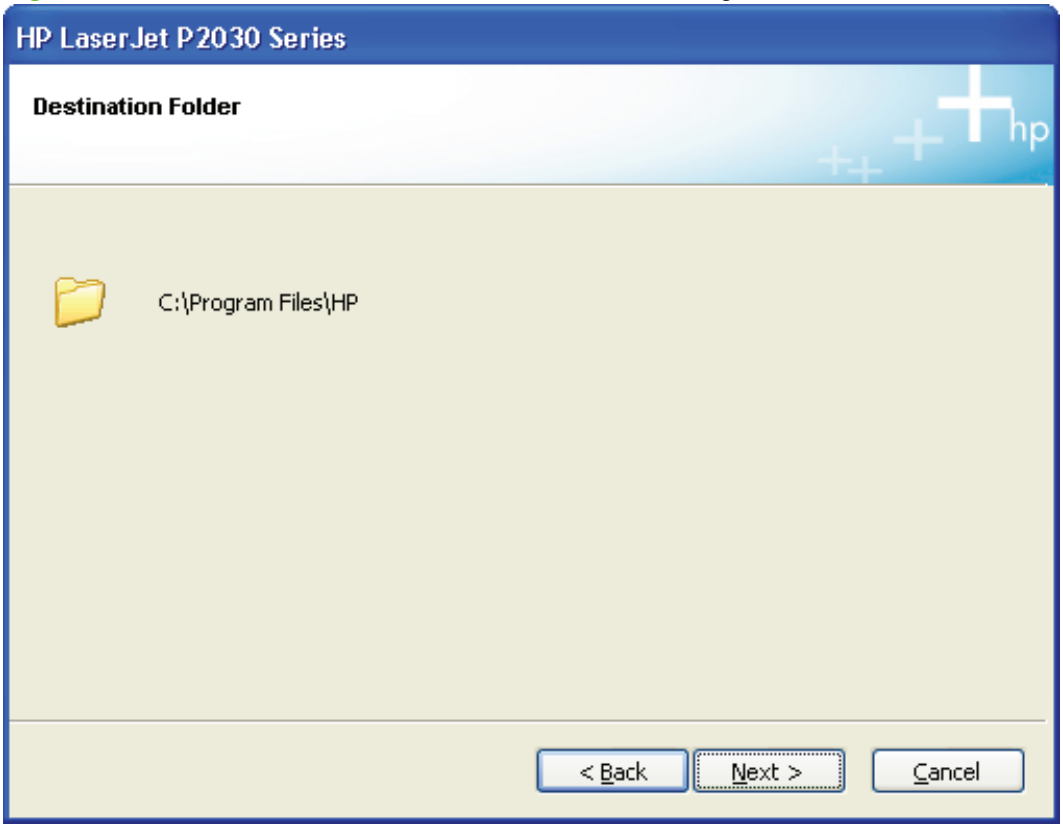
Figure 3-21 Network installation – **HP Extended Capabilities** dialog box



Read the **HP Extended Capabilities** dialog box and then click **Yes, install HP Extended Capabilities** or click **No, do not install HP Extended Capabilities**. Click **More Information** to learn more about this feature. Click **Next** to continue.

6. The **Destination Folder** dialog box appears showing the default directory for the installation files.

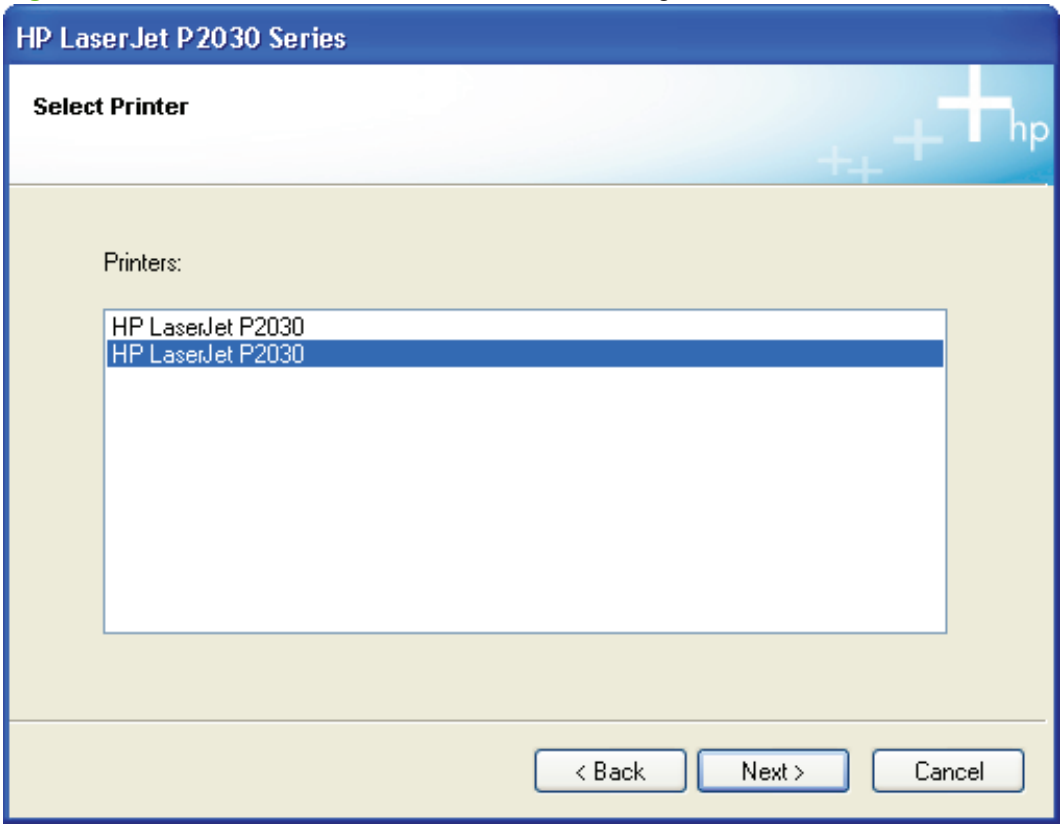
Figure 3-22 Network installation – **Destination Folder** dialog box



Click **Next** to continue.

7. The **Select Printer** dialog box appears.

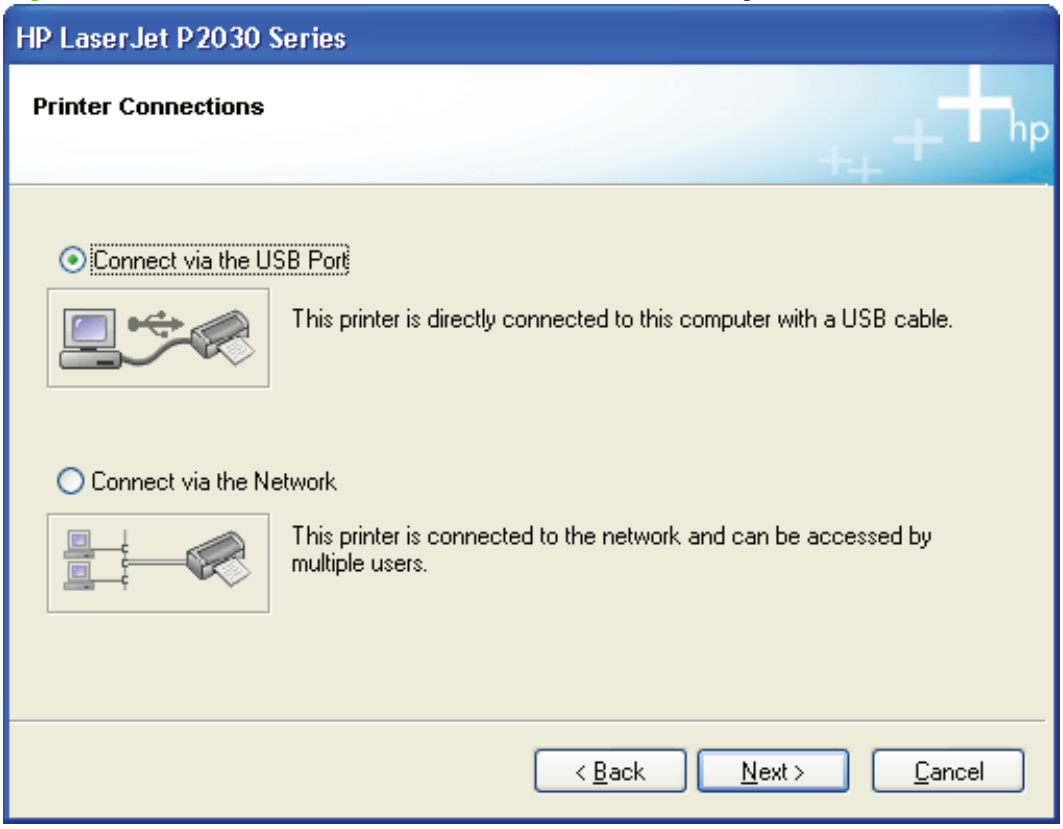
Figure 3-23 Network installation – **Select Printer** dialog box



Select your printer model and then click **Next** to continue.

8. The **Printer Connections** dialog box appears.

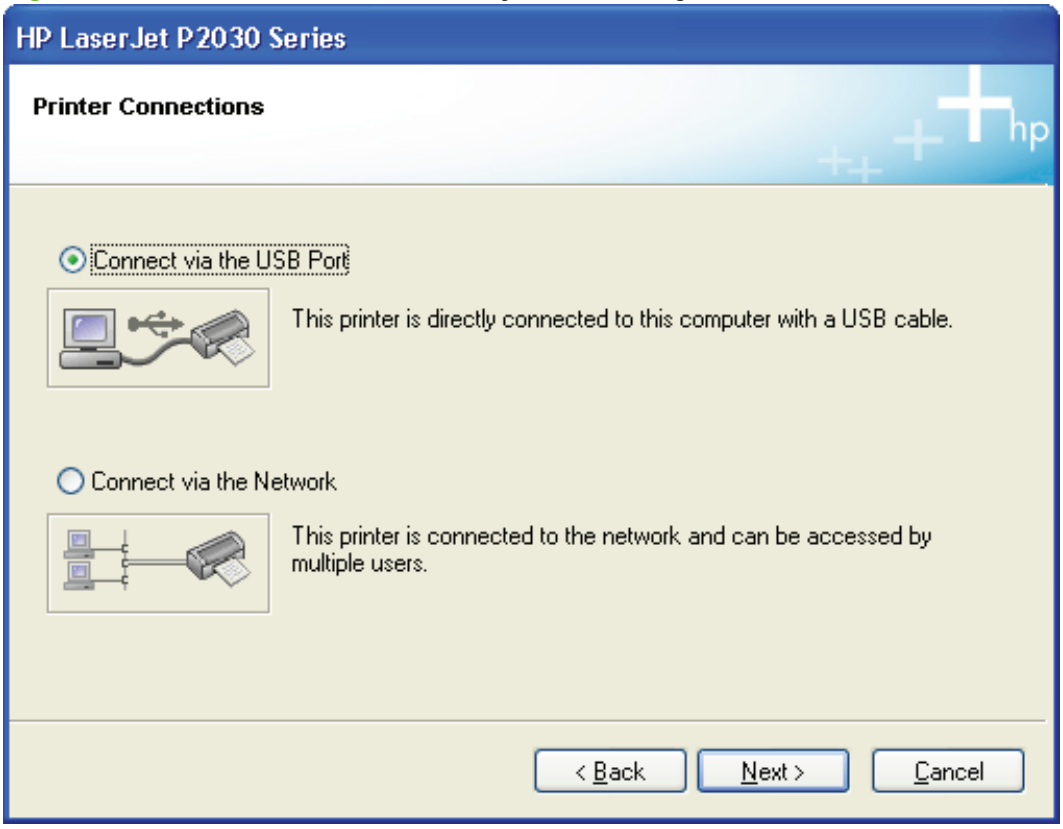
Figure 3-24 Network installation – **Printer Connections** dialog box



Click **Connect via the Network** and then click **Next** to continue.

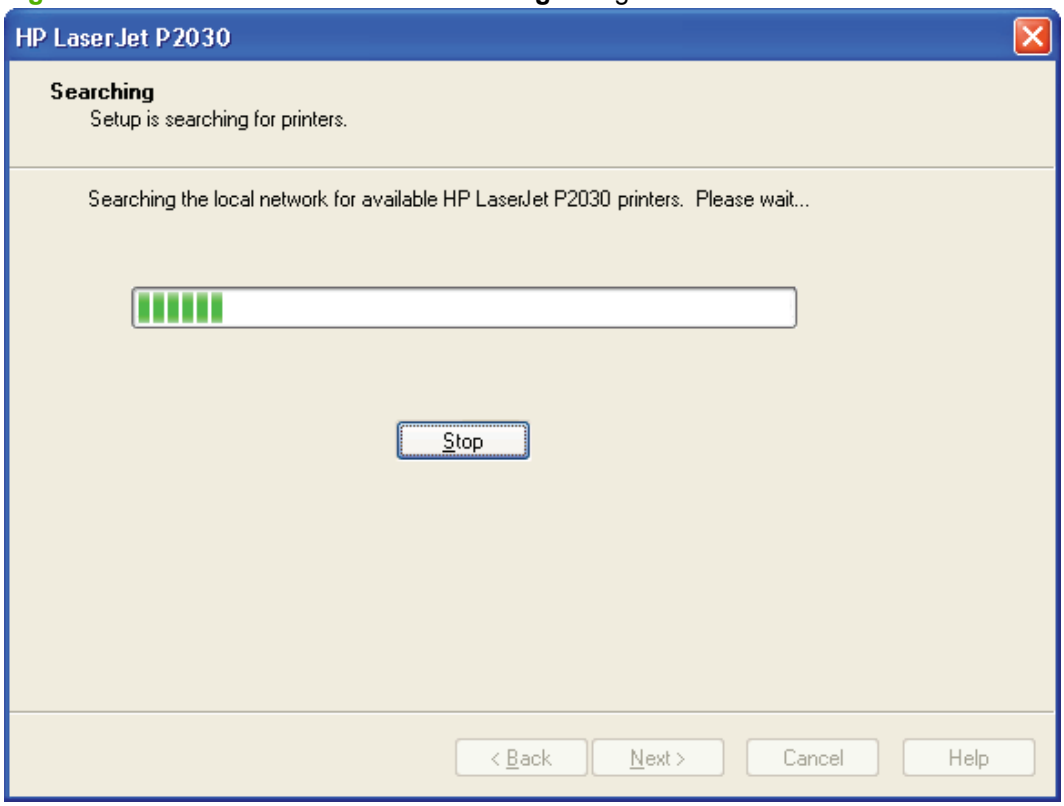
9. The **Identify Printer** dialog box appears.

Figure 3-25 Network installation – **Identify Printer** dialog box



- If you click **Select from a list of detected printers (Recommended)** and then click **Next**, the **Searching** dialog box appears.

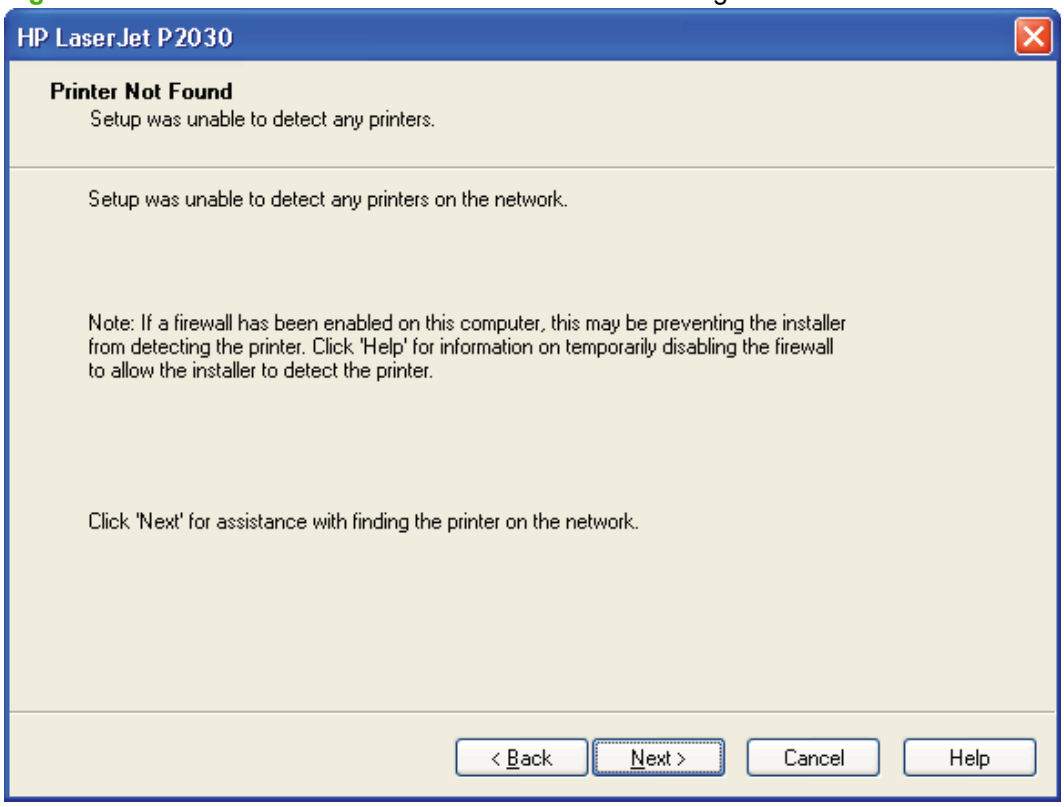
Figure 3-26 Network installation – **Searching** dialog box



If the product is found in the search, the **Printers Found** dialog box appears.

- If the product is not found in the search, the **Printer Not Found** dialog box appears.

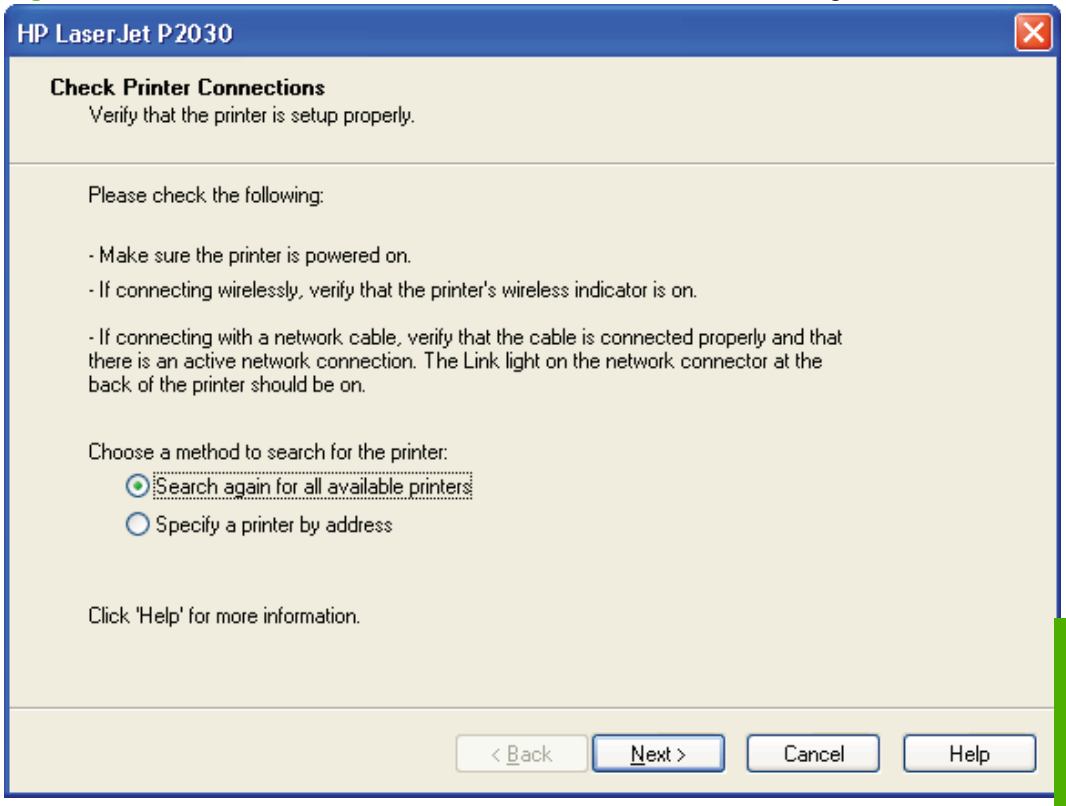
Figure 3-27 Network installation – **Printer Not Found** dialog box



Click **Next** to continue.

- The **Check Printer Connections** dialog box appears.

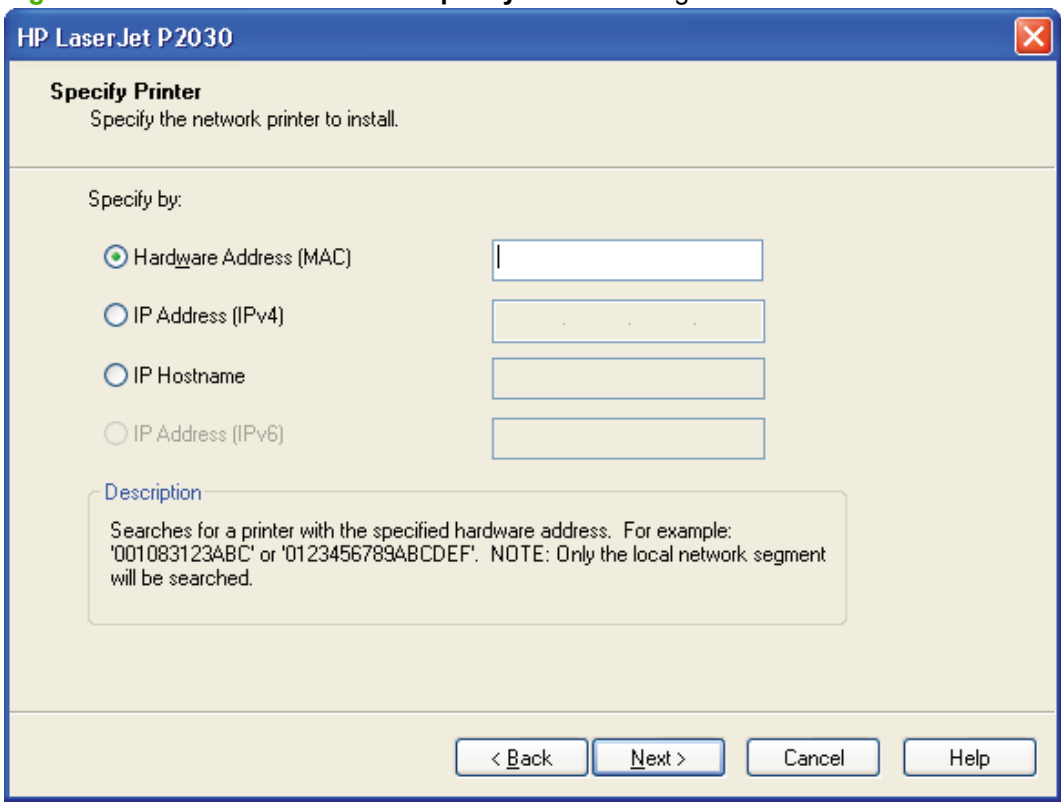
Figure 3-28 Network installation – **Check Printer Connections** dialog box



Click **Search again for all available printers** and then click **Next** to search again. Or click **Specify a printer by address** and then click **Next** to specify a printer by hardware address, IP address, or hostname.

- If you selected **Specify a printer by address**, the **Specify Printer** dialog box appears next.

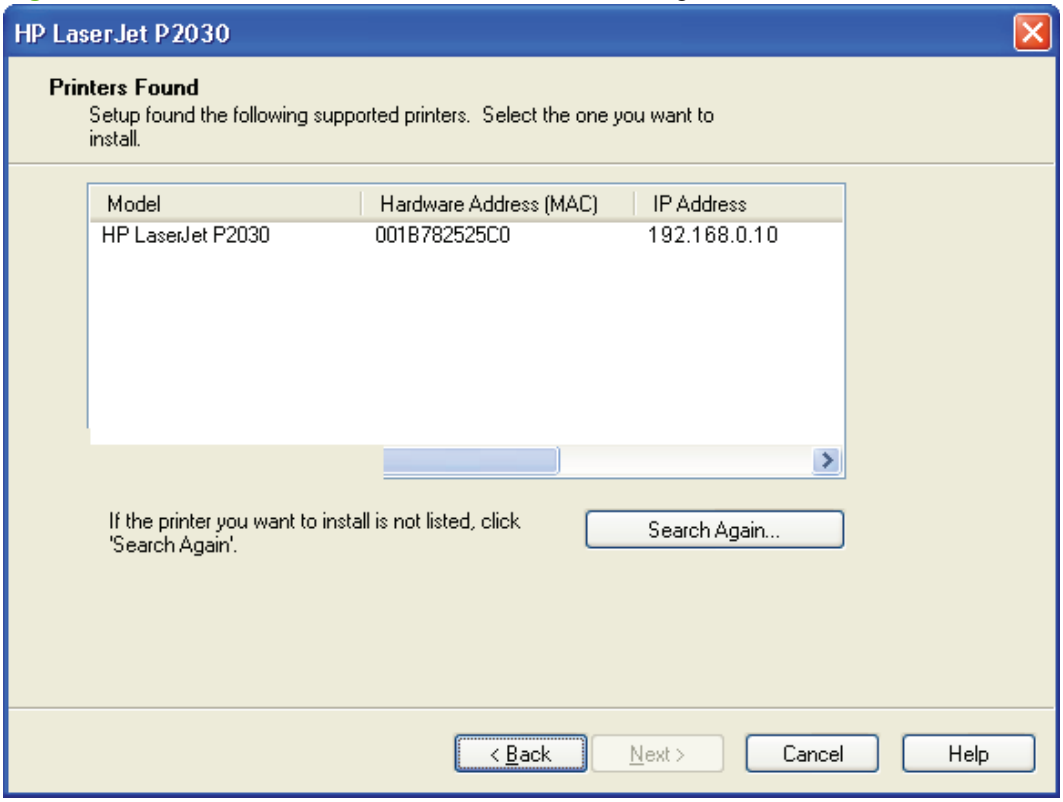
Figure 3-29 Network installation – **Specify Printer** dialog box



Type the hardware address, IP address, or hostname of the product you want to find, and then click **Next** to continue. When the printer is found, the **Printers Found** dialog box appears.

10. The **Printers Found** dialog box appears next.

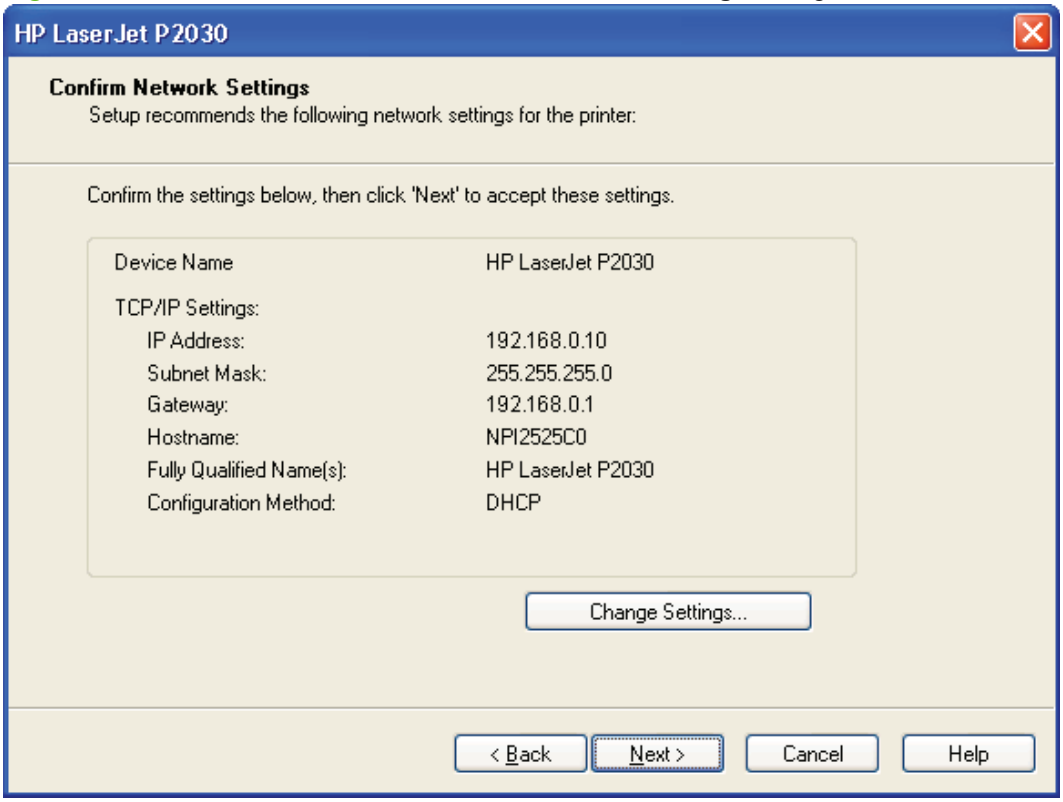
Figure 3-30 Network installation – **Printers Found** dialog box



Click to select the name of your product, and then click **Next** to continue.

11. The **Confirm Network Settings** dialog box appears.

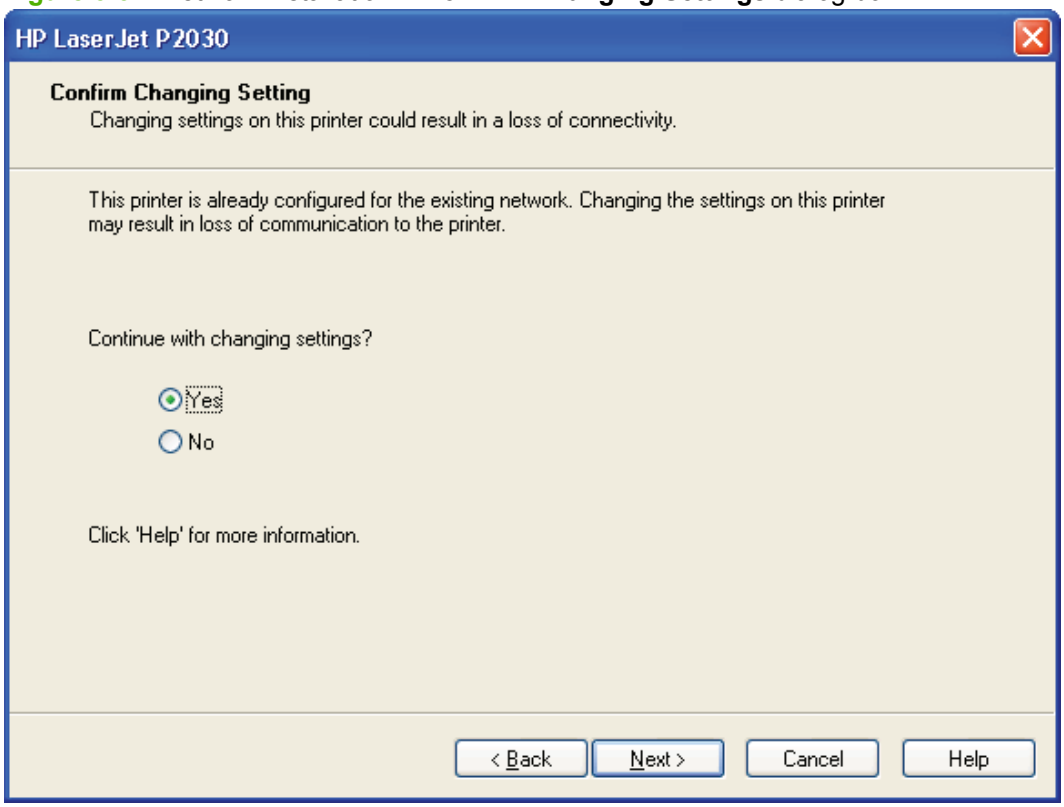
Figure 3-31 Network installation – **Confirm Network Settings** dialog box



If the network settings are correct, click **Next** to continue to the **Installing** dialog box.

- If you want to change the network settings, click **Change Settings**. The **Confirm Changing Settings** dialog box appears.

Figure 3-32 Network installation – **Confirm Changing Settings** dialog box

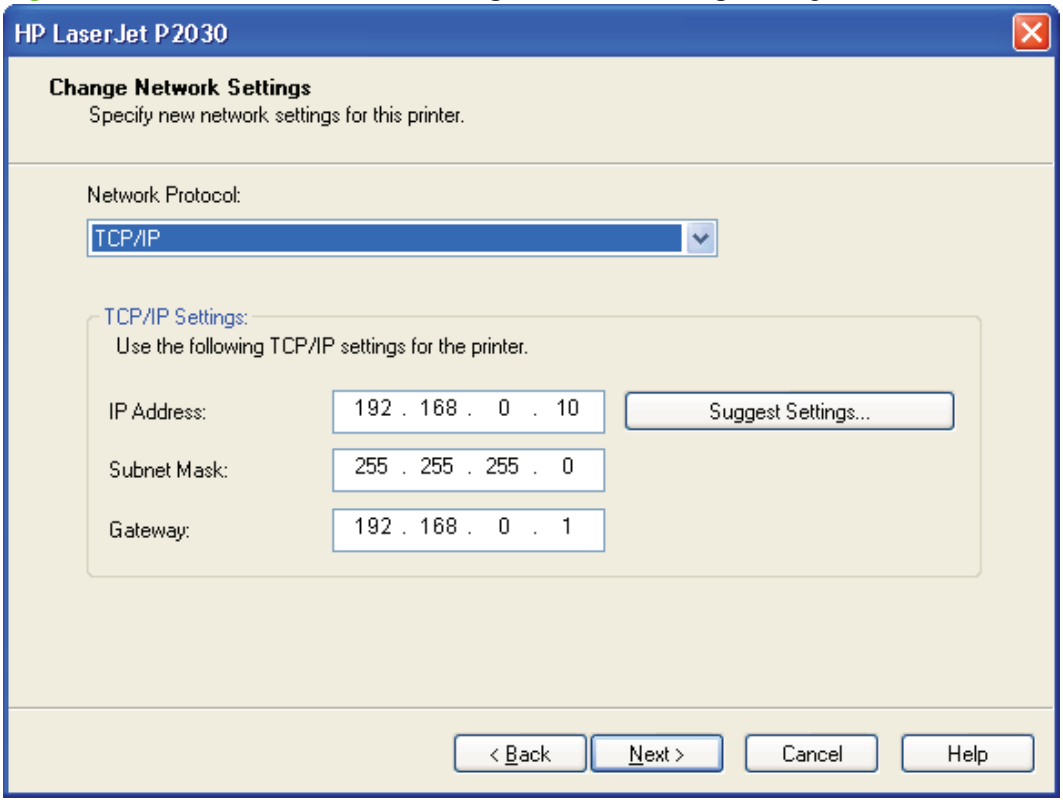


Click **No**, and then click **Next** to return to the **Confirm Network Settings** dialog box.

Click **Yes**, and then click **Next** to change the network settings.

- The **Change Network Settings** dialog box appears.

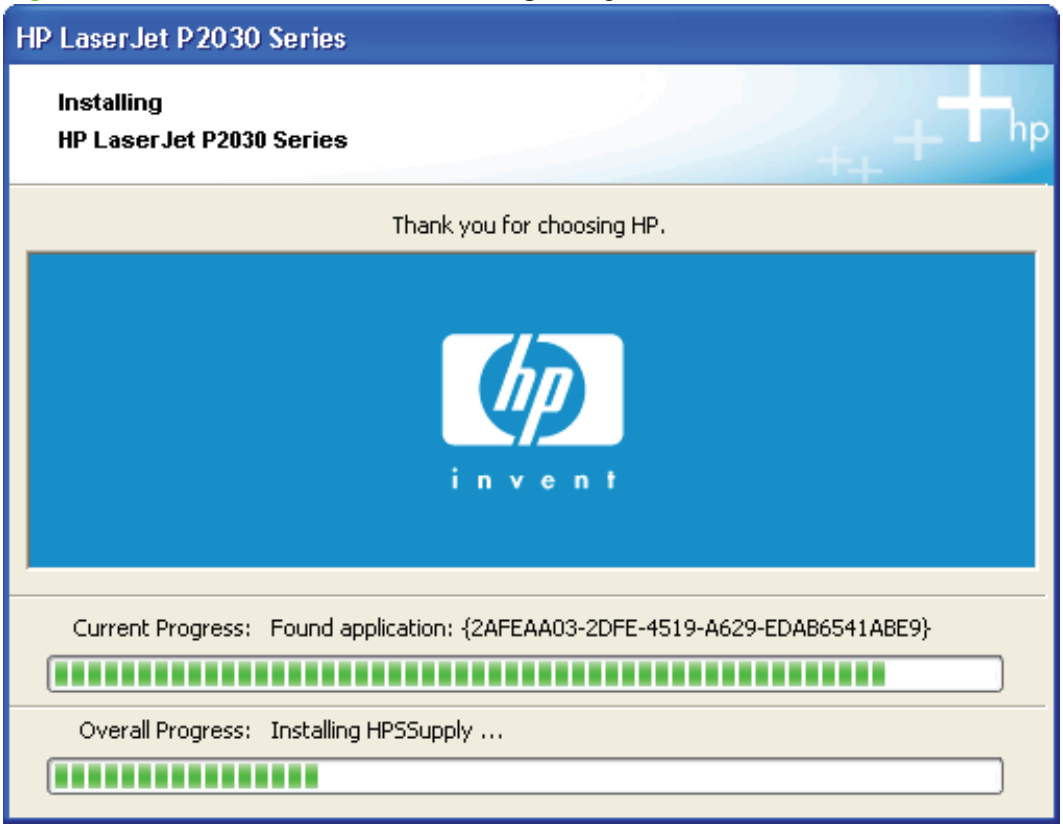
Figure 3-33 Network installation – **Change Network Settings** dialog box



Type in the new network settings or click **Suggest Settings** to get suggested network settings, and then click **Next** to return to the **Confirm Network Settings** dialog box.

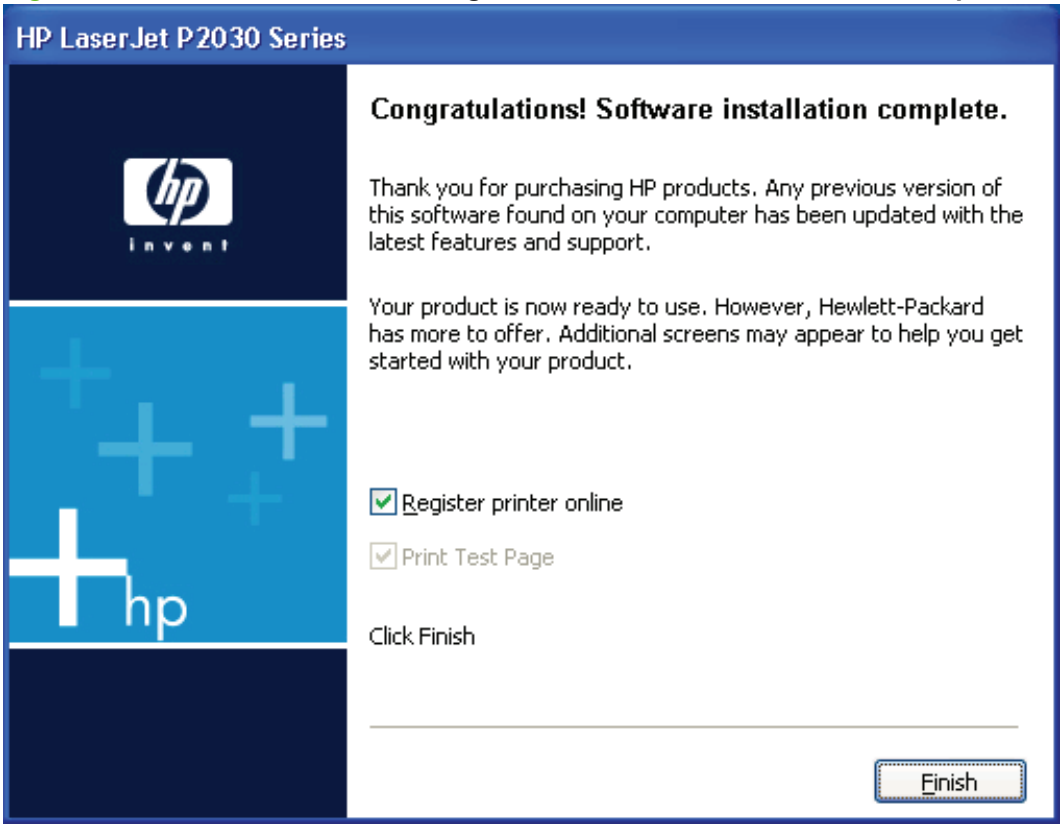
12. The **Installing** dialog box appears.

Figure 3-34 Network installation – **Installing** dialog box



13. The **Congratulations! Software Installation complete** dialog box appears.

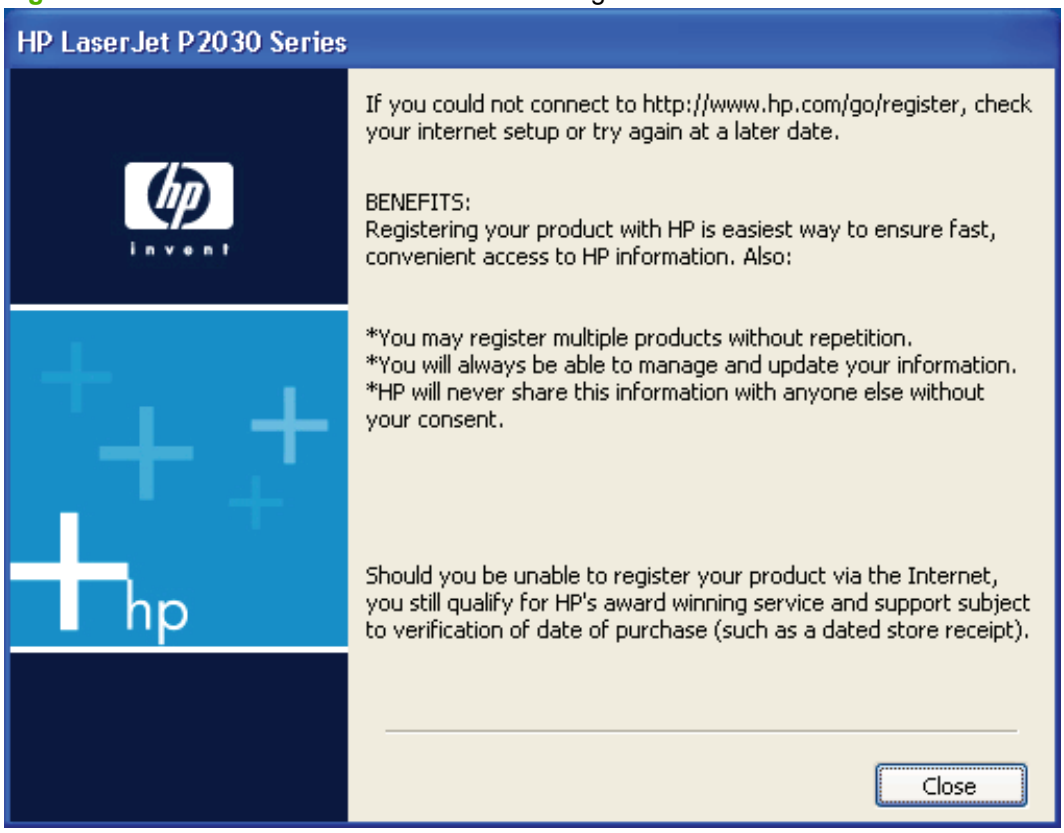
Figure 3-35 Network installation – **Congratulations! Software Installation complete** dialog box



- The **Register printer online** check box is selected by default. Leave this check box selected and then click **Finish** to complete the installation and to open your Web browser to the HP Registration web site.

- If you click to deselect the **Register printer online** check box and then click **Finish**, the **Benefits** dialog box appears.

Figure 3-36 Network installation – **Benefits** dialog box

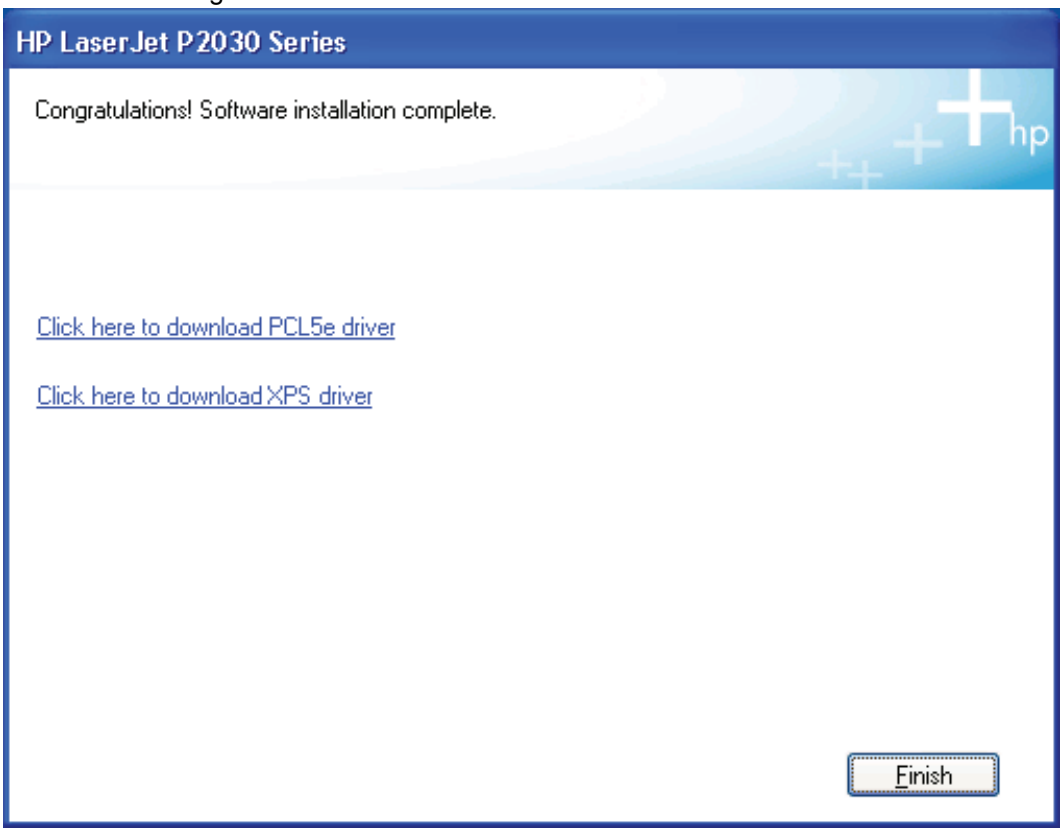


Click **Close** to close the **Benefits** dialog box.

14. After you complete the registration process or close the **Benefits** dialog box, a test page prints and the **Congratulations! Software Installation complete** dialog box changes to present the following links to the HP Web site:

    - **Click here to download PCL 5e driver**
    - **Click here to download XPS driver**

    Figure 3-37 Network installation – **Congratulations! Software Installation complete – Other driver links** dialog box



    Click **Finish** to complete the installation.

Set a default printer

Use the following steps to set up a product as your default printer.

1. In Windows Vista, click the **Start** button, click **Control Panel**, and then click **Hardware and Sound**. Under the **Printers** section, click **Change default printer**.

    In Windows XP and Windows Server 2003, click **Start**, click **Control Panel**, and then click **Printers and Faxes** (Windows XP Professional) or **Printers and other hardware devices** (Windows XP Home).

    In Windows 2000 operating systems, click **Start**, click **Settings**, and then click **Printers**.

2. Right-click the product that you want to set as the default printer.
3. Click **Set As Default Printer**. A check mark appears next to the product.

Uninstall the software

- Uninstall component list
- Uninstall methods

Uninstall component list

The uninstaller removes the following components from the computer:

- Drivers
- User guides

The uninstaller does *not* remove the following components from the computer:

- HP Shop for Supplies
- HP Extended Capabilities
- HP Update

You must remove these components using Windows Add or Remove Programs feature. A warning screen appears if any other HP products are still using the components you want to remove.

Uninstall methods

The following methods exist for uninstalling the printing-system software from the computer:

- **Program group**. Click **Uninstall** from the product program group from the **Programs** menu on the computer. This is the preferred method.
- **Add or Remove programs**. Click **Add or Remove Programs** from the Windows Control Panel, and then click the software components that you want to remove.
- **HP LaserJet P2030 Series printing-system CD**. Reinsert the printing-system CD into the CD-ROM drive on the computer, and then run SETUP.EXE. When prompted, select the **Uninstall** option.

Programs group uninstall tool

This is the recommended method for end users.

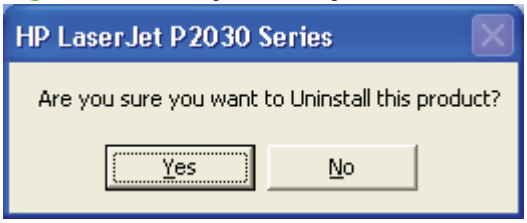
1. Close all open programs.
2. In Windows 2000, click **Programs**, click HP, click the program group, and then click **Uninstall**.

   In Windows XP and Windows Server 2003, click **Start**, click **All Programs**, click **HP**, click the program group, and then click **Uninstall**.

   In Windows Vista, click **Start**, click **All Programs**, click the program group, and then click **Uninstall**.

3. The **Are you sure you want to Uninstall the product?** dialog box appears.

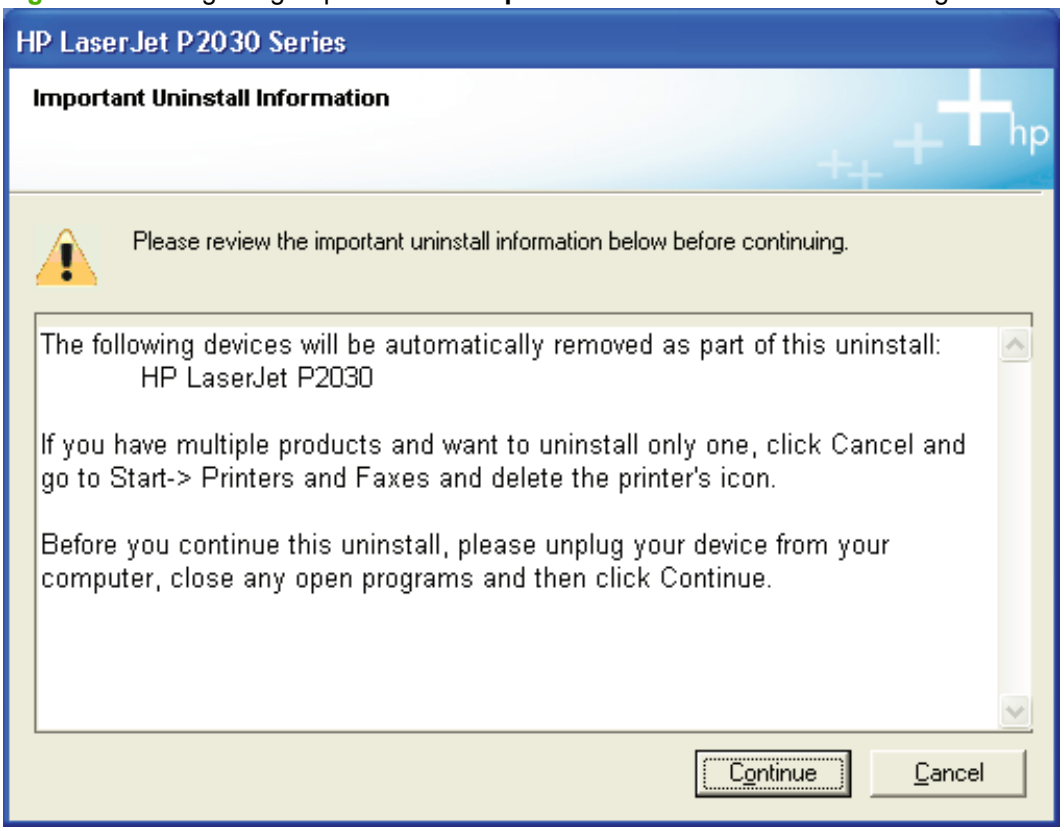
Figure 3-38 Are you sure you want to Uninstall the product?



Click **Yes** to continue the uninstall or click **No** to cancel.

4. The **Important Uninstall Information** dialog box appears.

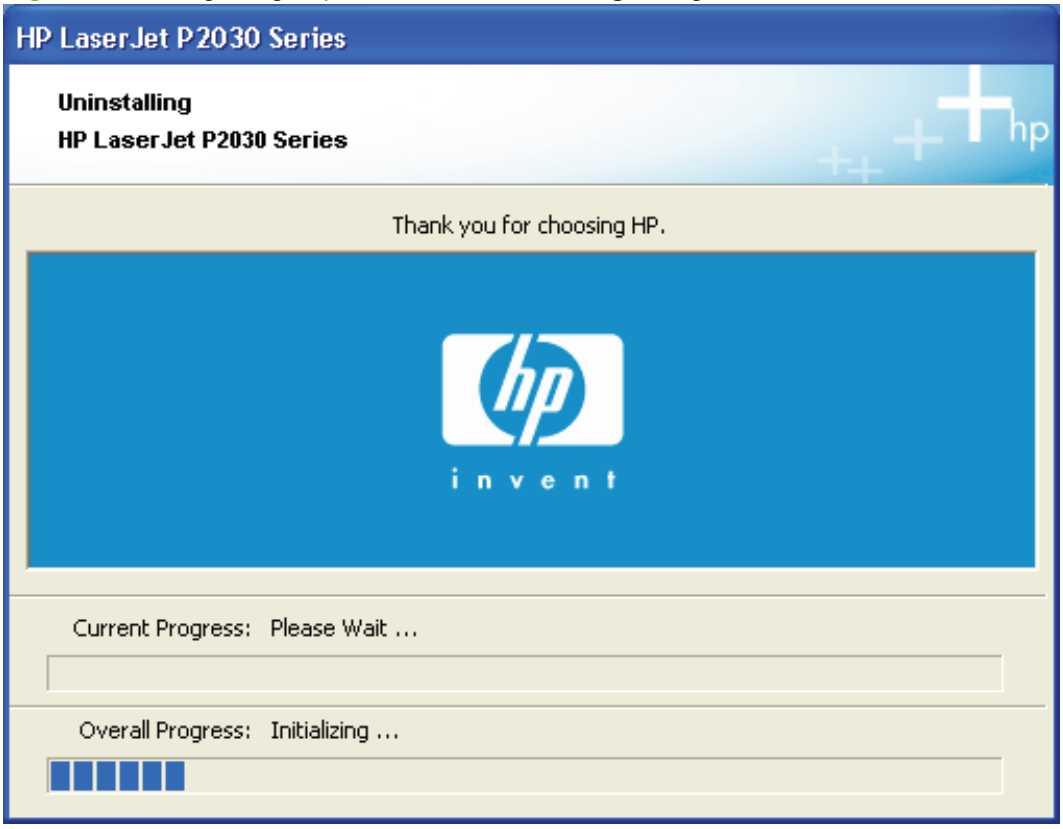
Figure 3-39 Program group uninstall – **Important Uninstall Information** dialog box



Read the uninstall information and then click **Continue**.

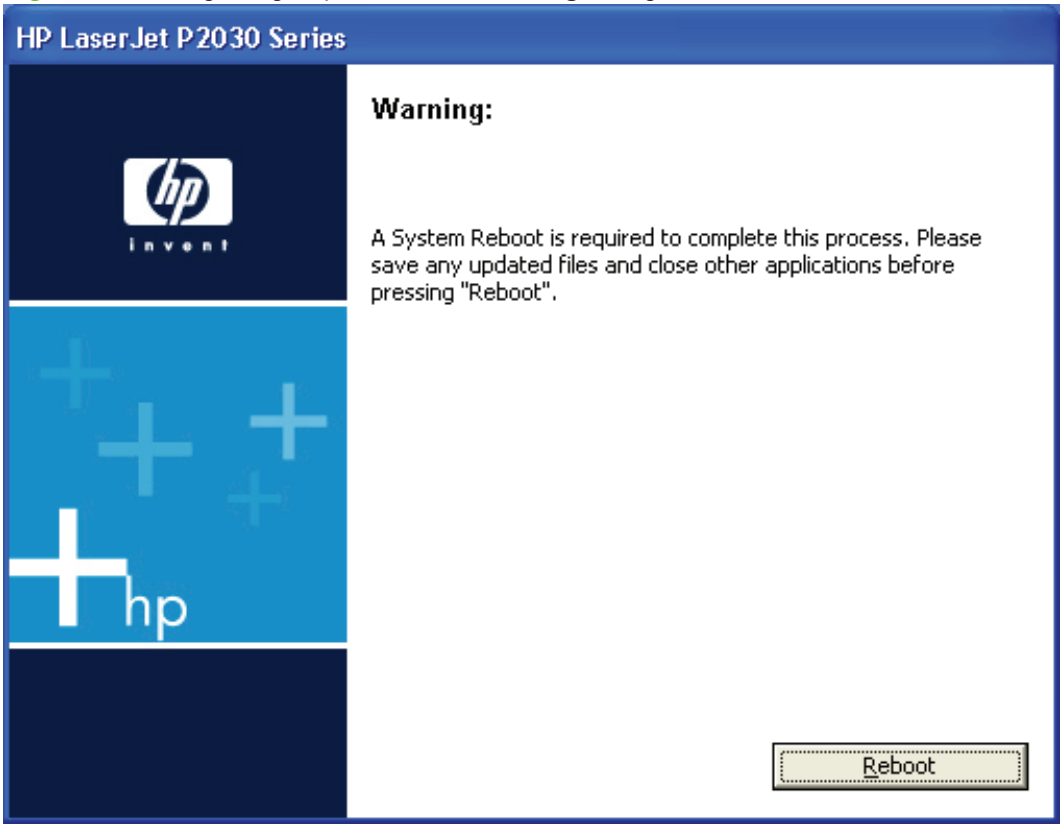
5. The **Uninstalling** dialog box appears.

Figure 3-40 Program group uninstall – **Uninstalling** dialog box



6. At the end of the uninstall process, the **Warning** dialog box appears.

Figure 3-41 Program group uninstall – **Warning** dialog box



The computer must be rebooted to complete the uninstallation. Click **Reboot** to finish the uninstall process.

Add or Remove Programs function on the Windows Control Panel

Use the Windows Add or Remove Programs feature on the Windows Control Panel to remove the printing-system software.

1. In Windows Vista, click **Start** , click **Control Panel**, and then under **Programs** click **Uninstall a program**.

   In Windows XP and Windows Server 2003, click **Start**, click **Settings**, click **Control Panel**, and then open **Add or Remove Programs**.

2. In Windows Vista, right-click the product software program, and then click **Uninstall**.

   In Windows XP and Windows Server 2003, select the product software program, and then click the **Remove** button.

3. Repeat step 2 for HP Update and HP Shop for Supplies if necessary.

4 HP LaserJet P2030 Series host-based driver and PCL 5e Universal Print Driver for Windows

Introduction

This document describes the features of the HP LaserJet P2030 Series host-based driver for Windows 2000, Windows XP (32-bit and 64-bit), Windows Server 2003 (32-bit and 64-bit), and Windows Vista (32-bit and 64-bit). The HP LaserJet P2030 Series host-based driver is installed by default through the installer on the product software CD.

The HP LaserJet P2030 Series printer also supports the PCL 5 Universal Print Driver and the HP XML Paper Specification (XPS) driver, both of which can be downloaded from the following Web site:www.hp.com/go/ljp2030series_software.

A link to this Web site is also included at the end of the product installation sequence.

NOTE: More information about XPS is available on the Microsoft Web site.

NOTE: The HP LaserJet P2030 Series printing-system CD contains a Windows NT driver (PCL_NT_Driver), which is located on the root of the CD. However, this driver is not supported by HP.

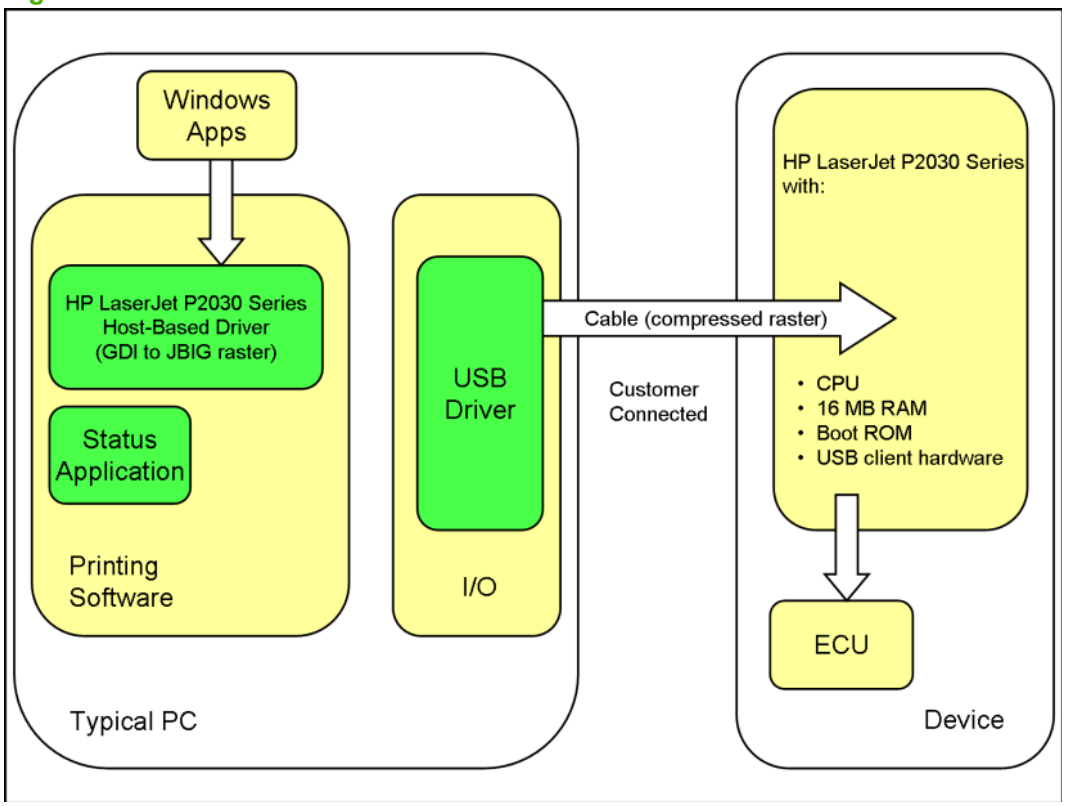
The following sections describe the options that are available on each tab of the HP LaserJet P2030 Series host-based driver.

- Introduction to host-based printing
- Change the Windows print driver settings
- Help system
- Advanced tab features
- Paper/Quality tab features
- Effects tab features
- Finishing tab features
- Services tab features
- Device Settings tab
- About tab features

Introduction to host-based printing

The HP LaserJet P2030 Series printer is a host-based product. Host-based printing differs from PCL printing by computing the print job on the host computer rather than computing it in the product formatter. The following illustration shows how the HP LaserJet P2030 Series printing-system software works.

Figure 4-1 HP LaserJet P2030 Series host-based driver overview



As a host-based printing system, the HP LaserJet P2030 Series print driver uses MS Windows to convert the graphics device interface (GDI) or device driver interface (DDI) calls from software programs into JBIG (standard-compression) compressed pages. These pages are sent in “chunks” through the driver to the product formatter.

The HP LaserJet P2030 Series print driver also receives status messages from the formatter firmware. These messages are passed to the Status Application, which displays them.

The HP LaserJet P2030 Series formatter has 4 MB of read-only memory (ROM) and 16 MB of random access memory (RAM). Both the firmware and the compressed page must fit into the 16 MB of RAM.

Change the Windows print driver settings

You can use software to control print jobs from several places:

- Software-program print-dialog box
- Print-driver user interface

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

Software-program print-dialog box

To gain access to the print-driver settings from within most software programs, follow these steps:

1. Click **File**.
2. Click **Print**.
3. Click **Properties**.

The appearance and names of the driver tabs can vary, depending on the operating system. These driver settings apply only while that software program is open.

Print-driver user interface

Control the drivers directly from the **Printers** folder for access to two sets of driver tabs: the **Printing Preferences** tabs and the **Properties** tabs. The settings on the **Printing Preferences** driver tabs control the default driver settings for each user's profile. The settings on the **Properties** driver tabs control installable options configurations.

Printing Preferences driver tabs

The **Printing Preferences** driver tabs change the default settings that are used across all software programs. To gain access to these tabs, follow these steps:

1. For Windows 2000, click **Start**, click **Settings**, and then click **Printers**.

   For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, and then click **Printers and Faxes**.

   For Windows Vista, click **Start**, click **Control Panel**, and then under **Hardware and Sound** click **Printer**.
2. Right-click the product name.
3. Click **Printing Preferences**.

The following **Printing Preferences** print-driver tabs are available:

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

- **Finishing**
- **Services**

All of these tabs are product-specific.

Properties driver tabs

This set of tabs controls the driver behavior and driver connections. To gain access to the **Properties** tabs, follow these steps:

1. For Windows 2000, click **Start**, click **Settings**, and then click **Printers**.

   For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, and then click **Printers and Faxes**.

   For Windows Vista, click **Start**, click **Control Panel**, and then under **Hardware and Sound** click **Printer**.

2. Right-click the product name.
3. Click **Properties**.

The following **Properties** print-driver tabs are available:

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

Only product-specific driver tabs are described in this document; the other driver tabs are part of the operating system. The following **Properties** driver tabs are described in this document:

- **Device Settings**
- **About**

Help system

The HP LaserJet P2030 Series host-based driver includes a full-featured Help system to provide assistance with printing and configuration options. The following Help options are available.

- What's this? Help
- Constraint messages

What's this? Help

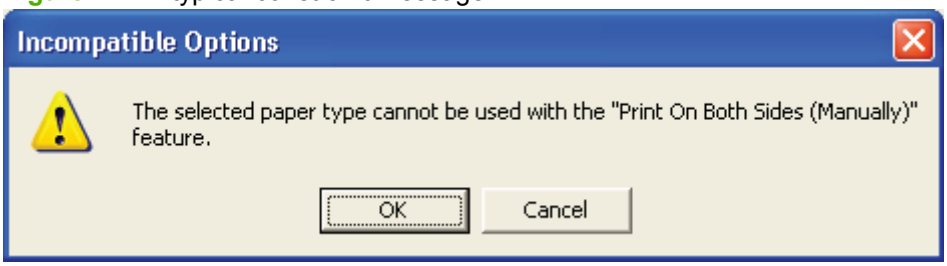
"What's this?" Help is supported in Windows 2000, Windows XP, and Windows Vista. Gain access to "What's this?" Help messages in any of the following ways:

- Right-click a control and click **What's this?**, and a pop-up Help window appears.
- Click the **?** button at the upper-right corner of the 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.

Constraint messages

Constraint messages are unsolicited messages that appear in response to specific actions. These messages appear in response to selections that are illogical or impossible given the capabilities of the product 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 asking you to resolve this conflict.

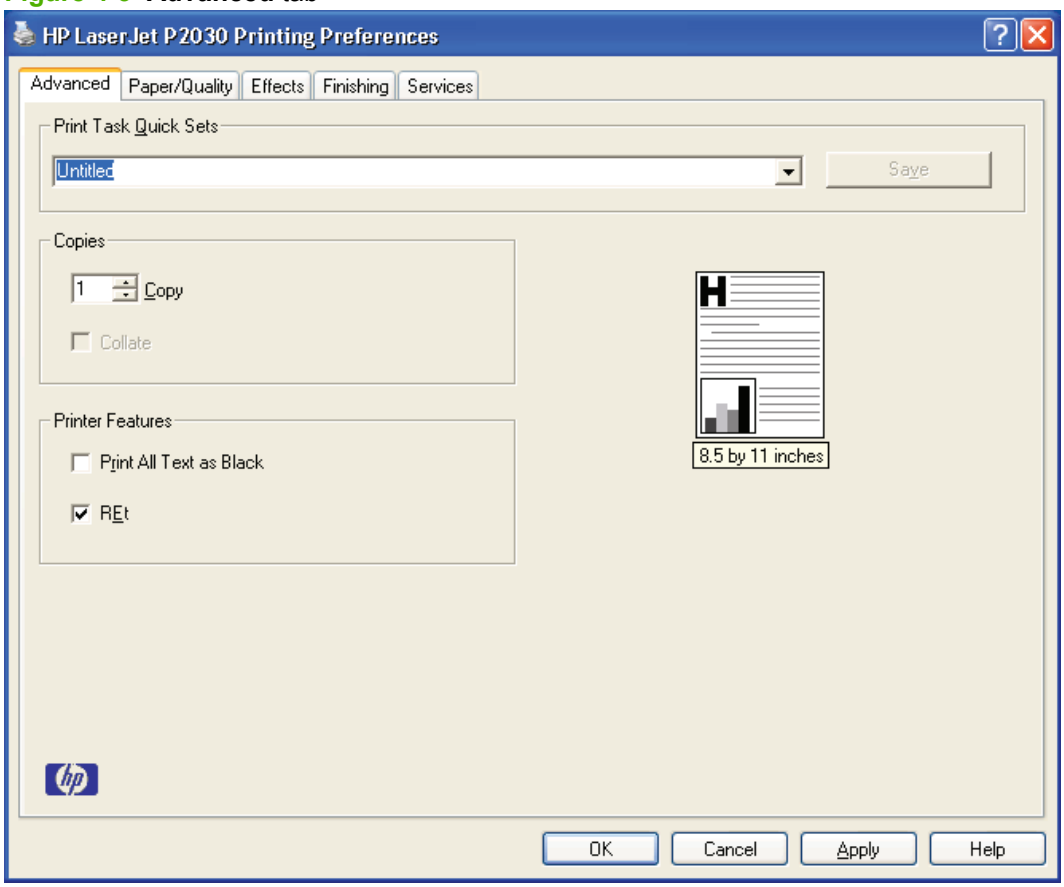
Figure 4-2 A typical constraint message



Advanced tab features

Use the **Advanced** tab to set the number of copies, collation, and printer feature options. The following figure shows the **Advanced** tab.

Figure 4-3 Advanced tab



Print Task Quick Sets

The first group box in the upper portion of the **Advanced** tab is **Print Tasks Quick Sets**. Because they are all the same control, any change to the **Print Task Quick Sets** group box that is made on the **Advanced** tab affects the **Print Task Quick Sets** group boxes on the other driver tabs. The following tabs contain **Print Task Quick Sets** group boxes:

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

Use the **Print Task Quick Sets** setting to store the current combination of driver settings that appears on all of the other print driver tabs. Print Task Quick Sets are user-defined printing specifications (such as media size, pages per sheet, and so on). The **Print Task Quick Sets** control does *not* appear on the driver **Properties** tabs.

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

- Defaults
- Untitled

Defaults

When you select **Defaults**, 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 or custom paper sizes have been changed or deleted, the original settings are *not* restored.

Defaults 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 user on the computer last closed the printing **Properties** dialog box by clicking **OK**.

Untitled

By default, the **Print Task Quick Sets** menu is set to **Defaults**. When you change any of the default settings on any of the **Printing Preferences** driver tabs, **Untitled** appears in the **Print Task Quick Sets** menu and the **Save** button becomes active. Highlight the words **Untitled**, 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 then click **Delete**.

Store a maximum of 25 **Print Task Quick Sets** on any system. If you attempt to save too many, a message box appears that states: **There are too many Quick Sets defined. Please delete some before adding new ones**.

Copies

The following settings are in the **Copies** group box:

- Copy
- Collate

Copy

This 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. **Copy** specifies the number of copies to print.

The requested number of copies appears in the **Copy** option. Select the number by typing in the box or by using the up and down arrows to the right of the text box. For the HP LaserJet P2030 Series 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 the maximum allowed) change to the last valid value that appeared in the box. The default number of copies is 1.

Because the number of copies can be set from some software programs, conflicts can arise between the software program and the driver. 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 programs, this communication does not happen, and the copies values are treated independently. For example, setting 10 copies in the program and then setting 10 copies in the driver

will result in 100 copies (10 x 10) being printed. Set the number of copies in the program, wherever possible.

Collate

The **Collate** option becomes active if the **Copy** setting is greater than 1. Select **Collate** to collate multiple copy print jobs.

Printer Features

The following settings are in the **Printer Features** group box:

- Print all Text as Black
- REt

Print all Text as Black

Print all Text as Black is off by default. When selected, the driver prints all text as black regardless of the original document text color. However, white text remains white as a fail-safe method of printing reverse typeface against a dark background. This setting does not affect graphic images on the page. **Print all Text as Black** remains selected only for the current print job.

REt

Resolution Enhancement technology (REt) refines the print quality of characters by smoothing out jagged edges that can occur on the angles and curves of a printed image. It is **On** by default. Select **Off** if graphics, particularly scanned images, are not printing clearly.

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 following figure shows the document preview image.

Figure 4-4 Document Preview Image

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

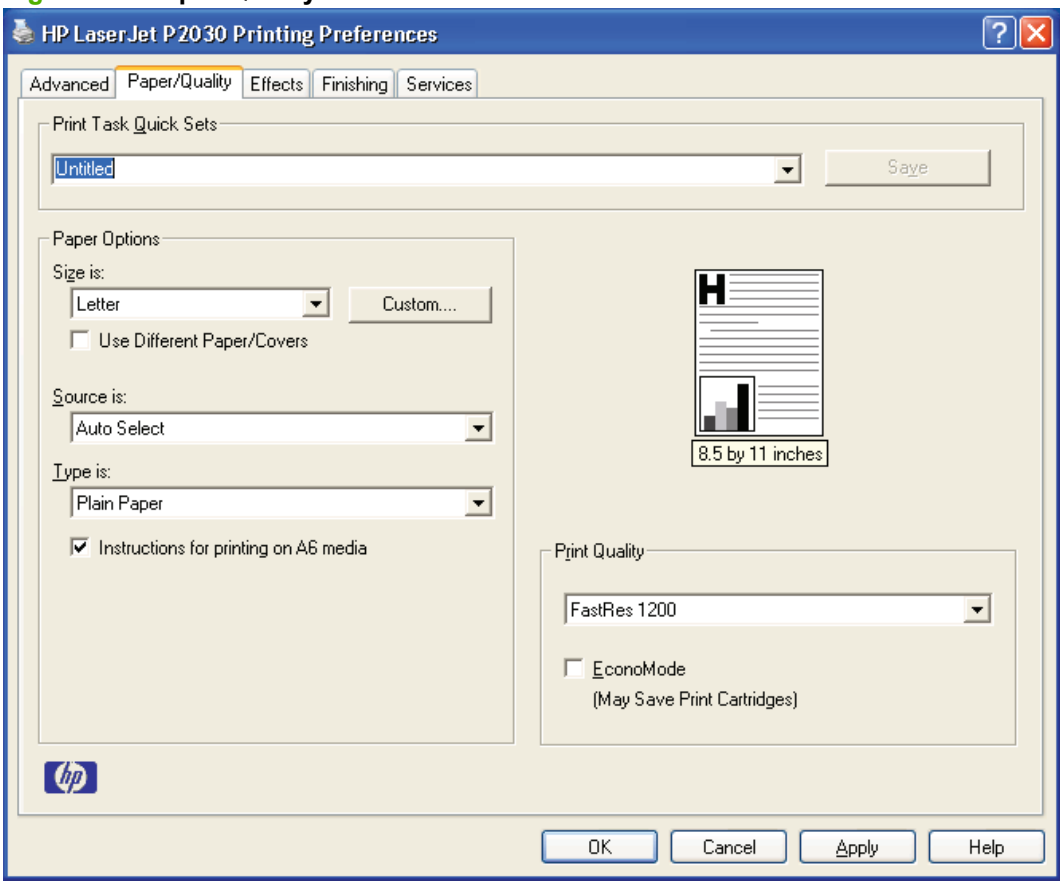
- **Advanced**
- **Paper/Quality**
- **Effects**
- **Finishing**

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.

Paper/Quality tab features

Use the **Paper/Quality** tab to specify the size, type, and source of the media for the HP LaserJet P2030 Series printer. You can also use this tab to indicate different paper-selection choices for the first page, other pages, and back cover of the document. The following figure shows the **Paper/Quality** tab.

Figure 4-5 Paper/Quality tab



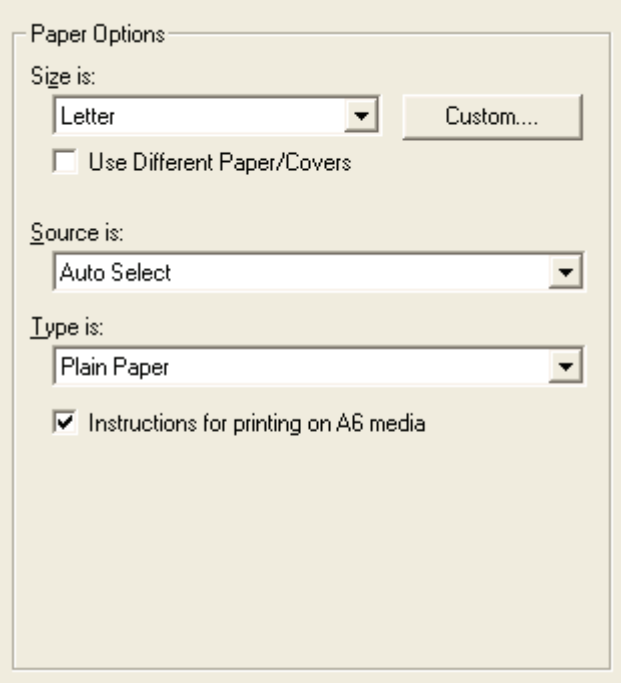
Print Task Quick Sets

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 on page 94.

Paper Options

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

Figure 4-6 Paper Options group box



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

- Size is:
- Source is:
- Type is:
- Instructions for printing on A6 media

Size is:

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

Specify the size for all the settings in the **Paper Options** group box. You must use the same size of media for the entire print job. That is, if the print job uses letter-size media, any option that you select from the available **Use Different Paper/Covers** 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, 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/or media type, and you choose to keep the conflicting settings, the settings are processed in the following order: media size, media type, and then media source.

Because driver settings are overridden by media-size settings in most software programs, use the driver to set media size only for software programs that don't 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 that has a media-size setting, specify different media sizes within a single document by using the **Use Different Paper/Covers** options. For more information, see Use Different Paper/Covers check box on page 100.

For more information about media sizes, see Media attributes on page 142.

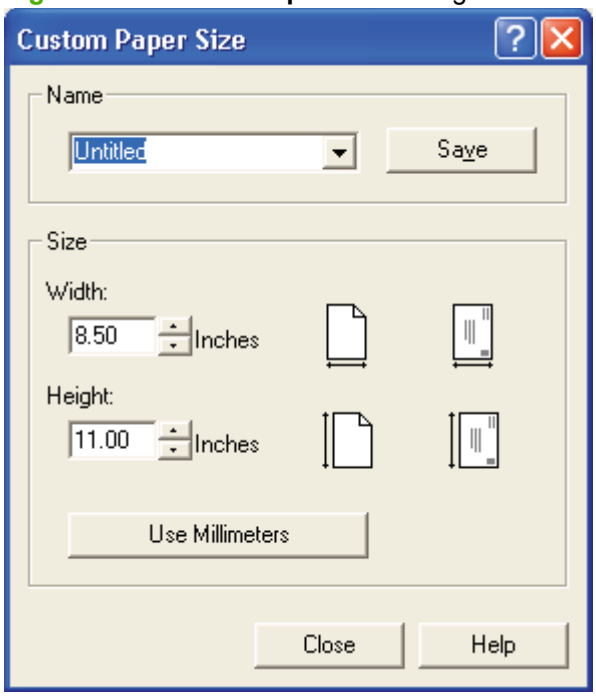
Use Different Paper/Covers check box

When the **Use Different Paper/Covers** check box is selected, the **Front Cover**, **First page**, **Other pages**, **Last page**, and **Back Cover** options become available. Click any of these options and then select **Size is:**, **Source is:**, and **Type is:** for each option.

Custom Paper Size

Click the **Custom** button to open the **Custom Paper Size** dialog box.

Figure 4-7 Custom Paper Size dialog box



Use the **Custom Paper Size** dialog box to create or modify custom-paper-size information. The **Custom Paper Size** dialog box contains the following options:

- **Name** field. Click the text box to type a name for the custom paper size or click the drop-down menu to select a custom paper size that is already defined.
- **Paper Size** group box. If you type in a size that is too large or too small, the driver automatically adjusts the size.
  - **Width:** spin box. Use the spin controls to select the width for the custom paper size, or click in the text box to type the width.
  - **Height:** spin box. Use the spin controls to select the height for the custom paper size, or click in the text box to type the height.
- **Units** group box. Select inches or millimeters to define the custom paper size.

Click **Save** to save the custom size or click **Close** to return to the **Paper/Quality** tab.

Source is:

The **Source is:** setting specifies the source tray to use for printing a document.

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

- **Auto Select**
- **Manual Feed in Tray 1**
- **Tray 1**
- **Tray 2**

The default setting is **Auto Select**. When this is selected, the product uses the source tray that supports the selected media size. If you select a source tray other than **Auto Select**, make sure that the correct media size is loaded in the source tray.

For more information about media sources, see Media attributes on page 142.

Type is:

The **Type is:** drop-down menu shows all the paper types that the HP LaserJet P2030 Series printer supports. When you use the default setting, **Letter**, the product uses the default media type, which is usually **Plain Paper**.

The following standard paper types appear in the list.

Table 4-1 Standard paper types and engine speed

Paper type	Engine speed
Plain Paper	Full – 1:1
HP Multipurpose Paper	Full – 1:1
HP Office Paper	Full – 1:1
HP All-in-One Printing Paper	Full – 1:1
HP LaserJet Paper	Full – 1:1

Table 4-1 Standard paper types and engine speed (continued)

Paper type	Engine speed
HP Premium Choice LaserJet Paper	Full – 1:1
Light (60 - 74 g/m^2)	Full – 1:1
Midweight (96 - 110 g/m^2)	Half – 1:2
Heavy (111 - 130 g/m^2)	Half – 1:2[1]
Extra Heavy (131 - 175 g/m^2)	Half – 1:2
Transparency	Half – 1:2
Labels	Half – 1:2
Letterhead	Full – 1:1
Envelope	Half – 1:2[1]
Preprinted	Full – 1:1
Prepunched	Full – 1:1
Color	Full – 1:1
Bond	Half – 1:2[1]
Recycled	Full – 1:1
Rough	Half – 1:2[1]

[1] Throughput for continuous printing might be less than 4 pages per minute as a result of fuser heating limitations.

The default setting is **Plain Paper**. If you select a different setting, make sure that the correct media type is loaded in the tray selected in the **Source is:** setting.

For more information about media types, see Media attributes on page 142.

Instructions for printing on A6 media

A special tray configuration is needed to print on A6 paper. Clicking the **Instructions for printing on A6 media** check box and selecting **A6** from the **Size Is:** drop-down menu automatically launches a flash animation that demonstrates how to load A6 paper into the product.

Use Different Paper/Covers options

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

Select the **Use Different Paper/Covers** check box to make the following settings appear in the group box, along with associated options:

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

To use **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.

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 by 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 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 options selected from the available **Use Different Paper/Covers** options use the 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 software program.

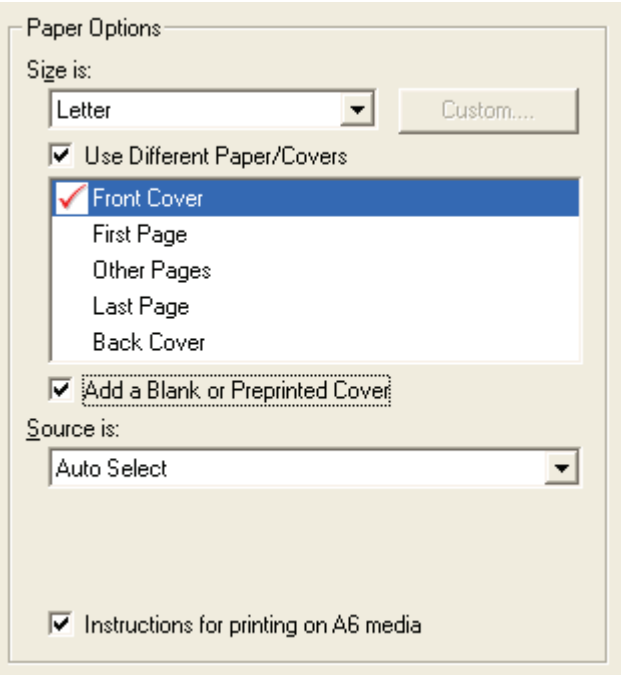
Each option for the **Use Different Paper/Covers** setting is described in the following sections.

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 illustration shows the **Front Cover** setting and options. These options are the same for the **Back Cover** setting.

Figure 4-8 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 you select **Front Cover** or **Back Cover**, also select the **Add a Blank or Preprinted Cover** check box to enable the setting. When this check box is selected, 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, include 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.

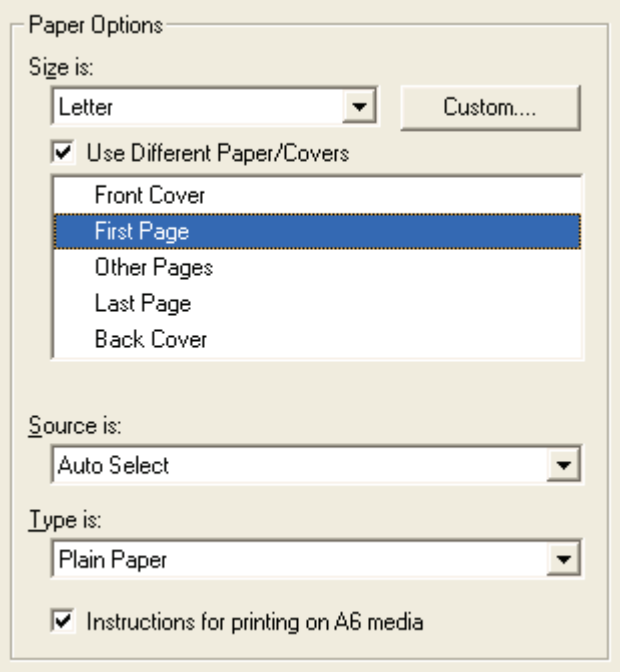
The **Source is:** setting specifies the source tray to use for adding a back cover to the document. The list of source trays depends on the installed accessories. Any optional media trays that are installed through the **Configure** tab also appear here. For more information about the **Source is:** setting, see Source is: on page 101.

The **Type is:** drop-down menu shows all of the media types that the printer supports. For more information about the **Type is:** settings, see Type is: on page 101.

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 illustration shows the appearance of the **Paper Options** group box when the **Use Different Paper/Covers** check box is selected.

Figure 4-9 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

The **Size is:** driver setting for the first page applies to the entire print job. When this is set, the setting becomes unavailable for all the other **Use Different Paper/Covers** options.

Document preview image

For information about this feature, see Document Preview Image on page 96.

Print Quality

The **Print Quality** group box contains the **Print Quality** drop-down box and the **EconoMode** check box.

The default setting for **Print Quality** is **FastRes 1200**.

This setting controls resolution, which refers to the number of dots per inch (dpi) used to print the page. As resolution is increased, the quality (clarity and visual appeal) of print on the page is improved.

However, higher resolution might also result in longer printing times. The following **Print Quality** options are available in the drop-down box:

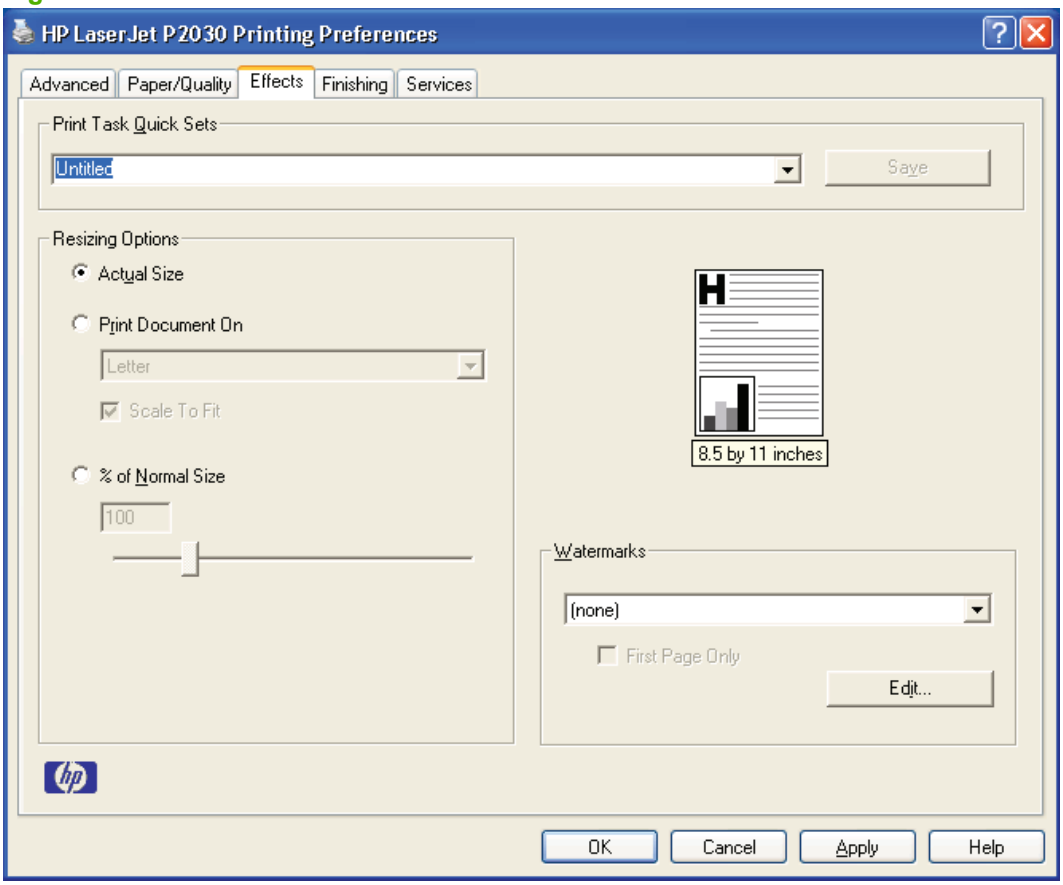
- **FastRes 1200**
- **600 dpi**

Select the **EconoMode** check box in conjunction with any of the print quality settings. When using EconoMode, the product uses less toner on each page. Using this option might extend the life of the print cartridge and can lower the cost per page, but also reduces print quality. Using the EconoMode feature with non-HP print cartridges can result in toner spillage or product damage.

Effects tab features

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

Figure 4-10 Effects tab



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

- Print Task Quick Sets
- Resizing Options
- Document preview image
- Watermarks

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 on page 94.

Resizing Options

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

- Actual Size
- Print Document On
- Scale to Fit
- % of Normal Size

Actual Size

Select this default option to print the page at normal size.

Print Document On

Select this option to format the document for one paper size and then print the document on a different paper size, with or without scaling the image to fit the new paper size.

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

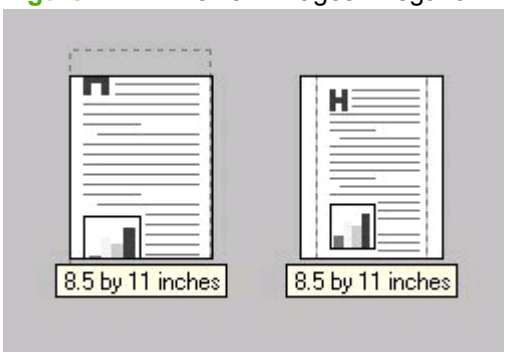
- The **% of Normal Size** value is not 100.
- The **Pages per Sheet** value (on the **Finishing** tab) is not 1.

When **Print Document On** is selected, **Scale to Fit** is automatically selected, and the drop-down menu shows the available media sizes. 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.

Scale to Fit

Scale to Fit specifies whether each formatted document page 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, each document page is centered at full size on the target paper. If the document size is larger than the target paper size, the document image is clipped. If it is smaller, 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 4-11 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

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 product.

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

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

The slider bar controls the scale directly. The value in the edit box changes as the 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%.

You cannot achieve an exact value by dragging the scroll bar indicator at the default Microsoft Windows resolution; use the scroll bar indicator to approximate the 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

See Document Preview Image on page 96 for information about this feature.

Watermarks

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.

- Current Watermarks
- Watermark Message
- Message Angle
- Font Attributes

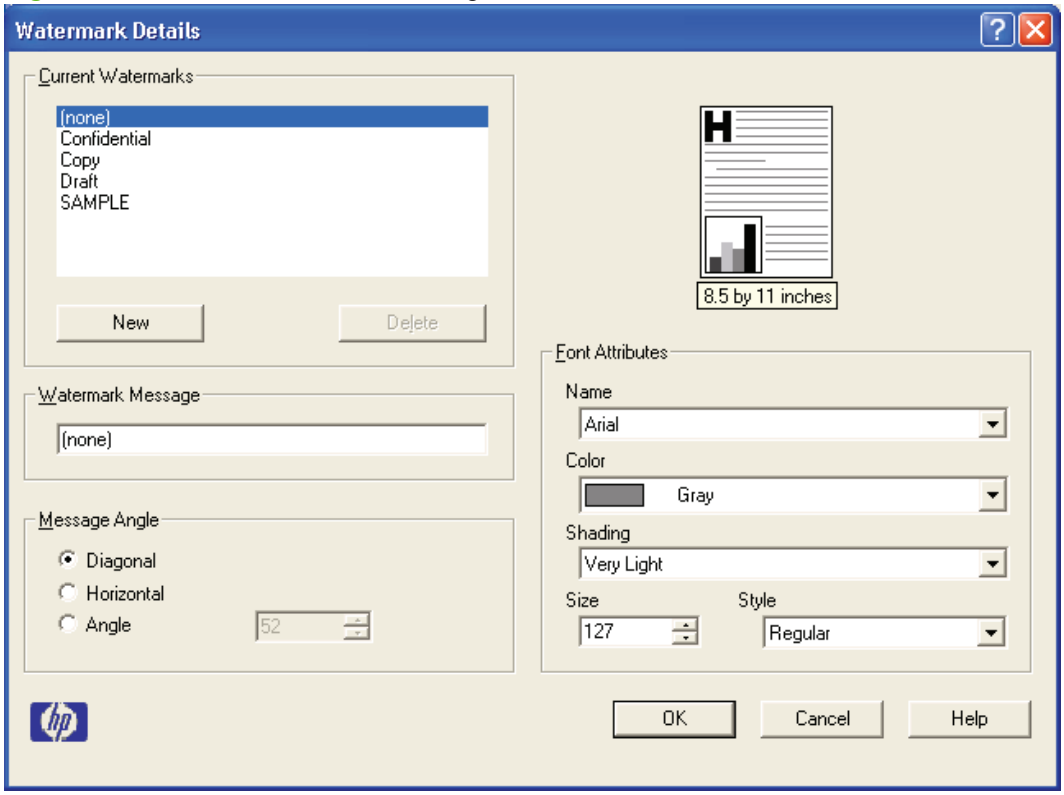
The drop-down menu shows alphabetically sorted watermarks that are currently available on the system plus the string "(none)", which indicates that no watermark is selected. This is the default setting. Any watermark selected from this list appears in the preview image.

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 page (one on each logical page).

Click **Edit**, to open the **Watermark Details** dialog box.

Figure 4-12 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. 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 made available in the driver and any new watermarks that have been created.

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

To name the new watermark, type the selected watermark text in the **Watermark Message** edit box. To delete a watermark, select the watermark in the **Current Watermarks** list and click **Delete**. A warning appears asking whether you are sure you want to delete the selected item. Click **Cancel** if you want to keep the watermark. Click **OK** to delete the selected watermark.

NOTE: No more that 30 watermarks can be saved in the **Current Watermarks** list at one time. When the limit of 30 watermarks is reached, the **New** button is disabled.

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

Watermark Message

The **Watermark Message** is also the name that identifies the watermark in the **Current Watermarks** list, except when more than one watermark has the same message. For example, 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 in relation to the text on the page. The settings are **Diagonal**, **Horizontal**, or **Angle** (custom). The default is **Diagonal**. All three settings automatically center the watermark string within the page; the selection of a particular setting affects only the angle of the string placement. **Diagonal** places the text along a line that spans the lower-left to upper-right corners of the page. **Horizontal** places the text along a line that spans the mid-left and mid-right edges of the page. **Angle** places the text at the specified angle across the page.

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

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

Color

The **Color** option is a fixed, unalterable set of color choices for the watermark: **Gray**.

Shading

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

- **Lightest**
- **Very Light** (default)
- **Light**

- **Medium Light**
- **Medium**
- **Medium Dark**
- **Dark**
- **Very Dark**
- **Darkest**

These values represent the intensity of the gray that is used. 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

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.

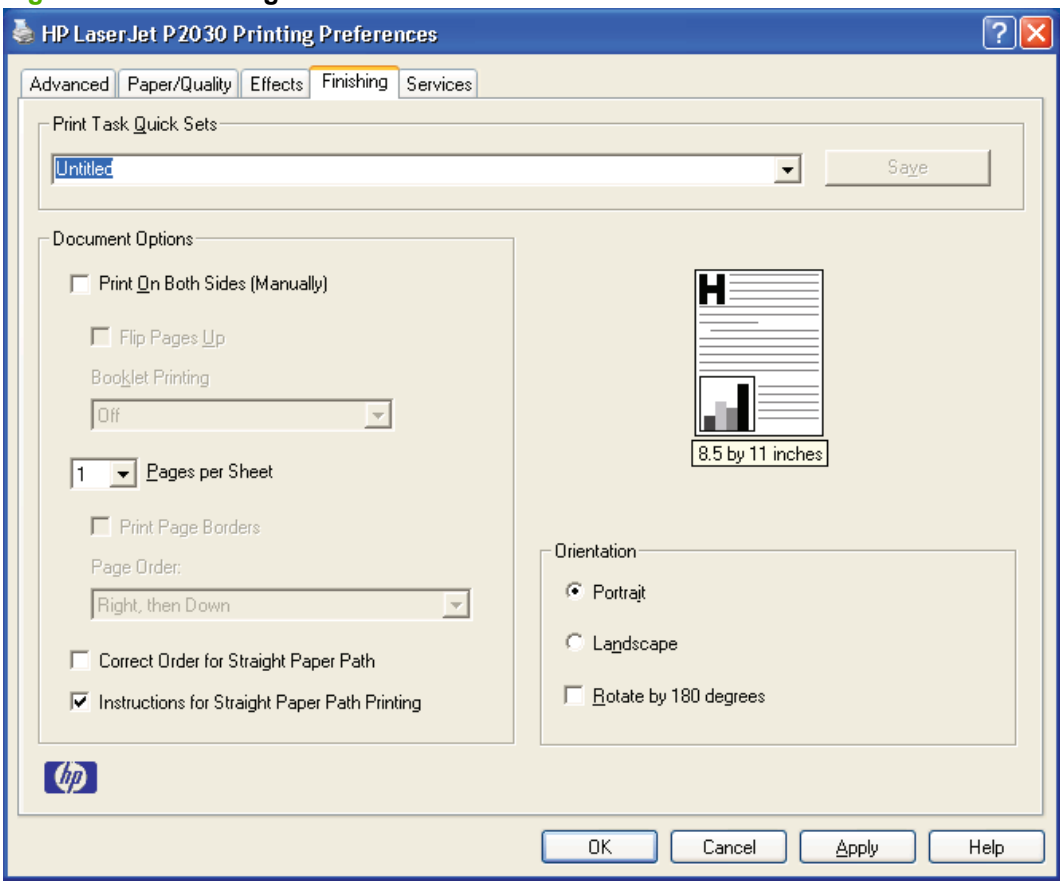
Style

The choice of **Regular**, **Bold**, **Italic**, and **Bold Italic** is available from the **Style** drop-down menu. The default **Style** setting for new and preset watermarks is **Regular**.

Finishing tab features

Use the **Finishing** tab to print booklets and control the media output. The following illustration shows the **Finishing** tab.

Figure 4-13 Finishing tab



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

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

Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that appear on all of the 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 on page 94.

Document Options

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

- Print on Both Sides (Manually)
- Flip Pages Up
- Booklet Printing
- Pages per Sheet
- Print Page Borders
- Page Order
- Correct Order for Straight Paper Path
- Instructions for Straight Paper Path Printing

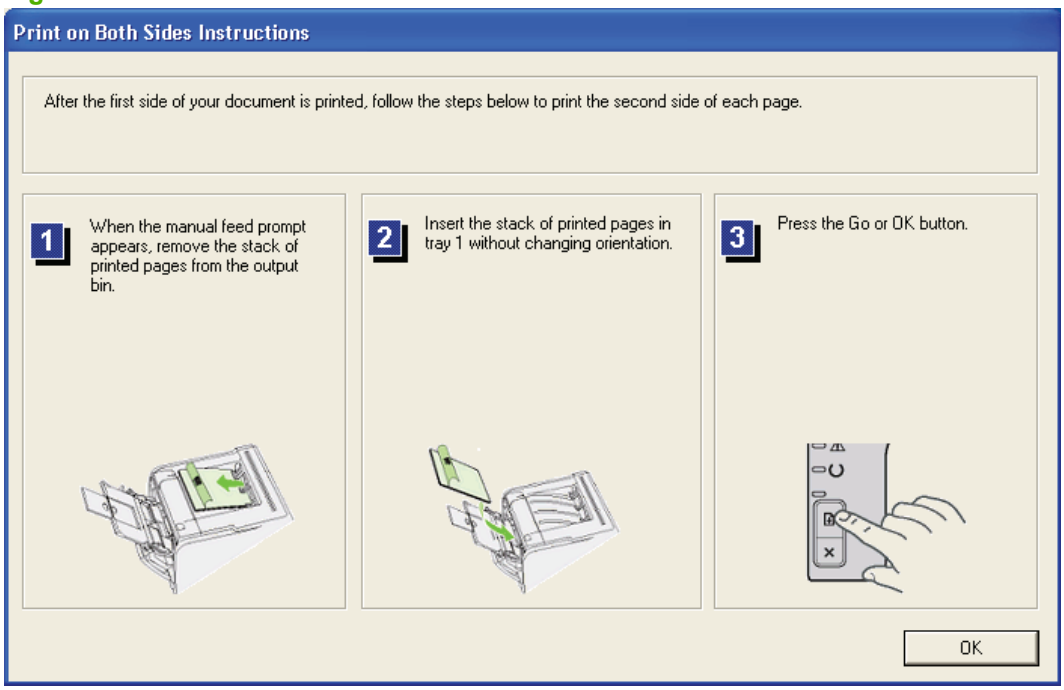
Print on Both Sides (Manually)

NOTE: The **Print on Both Sides (Manually)** check box is unavailable if the **Allow Manual Duplexing** option is disabled on the **Device Settings** tab in the **Properties** tab set.

The default setting for the **Print on Both Sides (Manually)** option is on (selected). Selecting **Print on Both Sides (Manually)** makes the **Flip Pages Up** and **Booklet Printing** options available.

When a print job is sent to the product with the **Print on Both Sides (Manually)** option selected, the even pages print, and then the following dialog box appears with instructions to complete the manual duplex process.

Figure 4-14 Print on Both Sides Instructions



Flip Pages Up

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

Table 4-2 Page orientation

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

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

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

Booklet Printing

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

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

Selecting **Left Edge Binding** or **Right Edge Binding** changes the document preview image 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**. Changing the **Pages per Sheet** setting manually to 4, 6, 9, or 16 pages per sheet disables the booklet setting. For more information, see the Print a booklet on page 115 section of this chapter.

The **Booklet Printing** 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 LaserJet P2030 Series printer supports 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 first page, other pages, or back cover. Use the **First Page**, **Other Pages**, and **Back Cover** settings on the **Paper/Quality** tab (available when you select 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 Printing** drop-down menu on the **Finishing** tab to control booklet settings.

Print a booklet

Complete the following steps to print a booklet.

1. Click **File**, click **Print**, and then click **Properties**.
2. Click the **Device Settings** tab and select the **Allow Manual Duplexing** check box.
3. In the **Booklet Printing** drop-down menu on the **Finishing** tab, select the type of booklet printing that you want. For example, **Right Edge Binding**.

4. Click **OK** in the print driver.

5. Click **OK** in the **Print** dialog box to print.

Print a book

You can print a book in which the first page, other pages, and back cover have different media types. For more information, see Paper/Quality tab features on page 98.

Pages per Sheet

Use the **Pages per Sheet** option to select the number of pages to print on a single sheet of media.

If you print more than one page per sheet, the pages appear smaller and are arranged on the sheet in the order that they would otherwise be printed. The **Pages per Sheet** drop-down menu provides the following settings:

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

NOTE: Selecting an option other than **2 pages per sheet** makes booklet printing unavailable.

Print Page Borders

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.

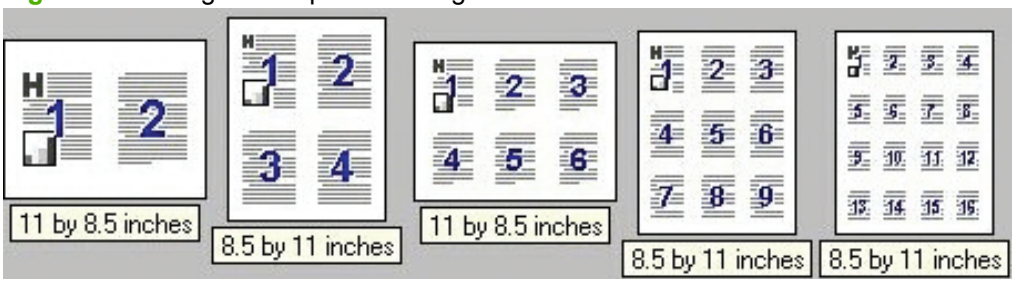
Page Order

The **Page Order** drop-down menu contains the following selections:

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

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

Figure 4-15 Page-order preview images



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

Correct Order for Straight Paper Path

The HP LaserJet P2030 Series printer has a door in the back of the printer that can be opened to make the paper go straight out the back of the printer. Use this bin to minimize curl and avoid jams when printing with heavier paper, such as cardstock. The paper is delivered to this bin printed-side up. Use the **Correct Order for Straight Paper Path** feature to order your pages correctly for this bin.

Clicking to select the **Correct Order for Straight Paper Path** check box and also selecting **Print on Both Sides (Manually)** causes the printer to print the even-numbered pages, then pause for you to reload the paper, and then prints the odd numbered pages.

Instructions for Straight Paper Path Printing

Clicking to select the **Instructions for Straight Paper Path Printing** check box and also checking the **Correct Order for Straight Paper Path** check box launches a dialog box with instructions about how to open the straight-through paper path.

Document preview image

See Document Preview Image on page 96 for information about this feature.

Orientation

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

- **Portrait**
- **Landscape** option button
- **Rotate by 180 degrees** check box

Portrait

Select this option to print the document in **Portrait** orientation. This is the default setting.

Landscape

Select this option to print the document in **Landscape** orientation.

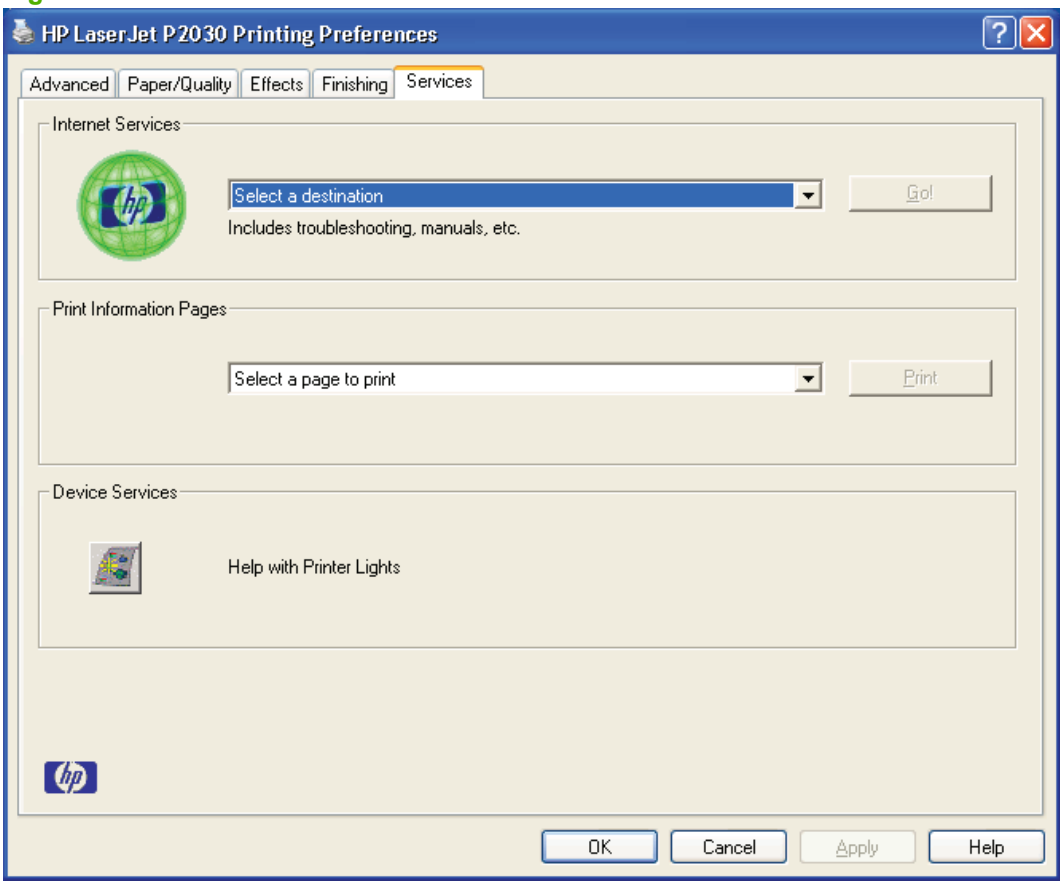
Rotate by 180 degrees

Select this option to rotate the document image on the paper 180°. For example, if the return address on an envelope is smudged, try using this setting and feeding the envelope so that the return address area is fed into the product first.

Services tab features

Use the **Services** tab to gain access to Internet services for the product, to print information pages for the product, and to gain access to help with the printer lights. The following illustration shows the **Services** tab.

Figure 4-16 Services tab



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

- Internet Services
- Print Information Pages
- Device Services

Internet Services

The **Internet Services** control contains the **Select a destination** drop-down menu with the following options:

- **Support and Troubleshooting**
- **Product Manuals**
- **Check for Driver Updates**
- **Shop for Supplies**

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

Print Information Pages

The **Print Information Pages** control contains the **Select a page to print** drop-down menu with the following options:

- **Demo Page**
- **Config Page**
- **Supply Status Page**

Select any of these options and then click **Print** to print the corresponding information page.

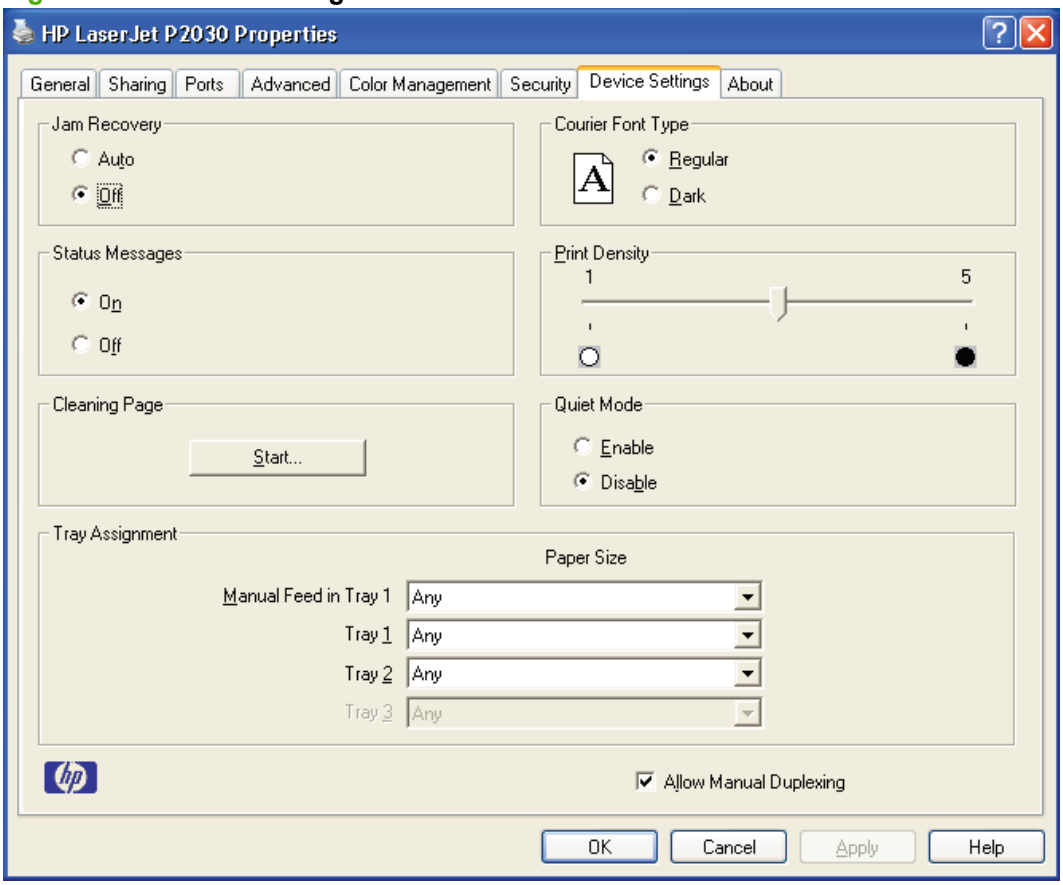
Device Services

The **Device Services** control contains the **Help with Printer Lights** icon. Click on the icon to open a Web page that contains information about the product lights.

Device Settings tab

Use the **Device Settings** tab to control driver behavior and driver connections. The following illustration shows the **Device Settings** tab.

Figure 4-17 Device Settings tab



Jam Recovery

Select **Auto** to reprint a page if a paper jam occurs. Select **Off** to not reprint a page if a paper jam occurs. **Off** is the default setting.

NOTE: Jobs print faster when **Auto** is selected.

Status Messages

Select **On** to allow error messages to display on the computer screen during error conditions. Select **Off** to not allow error messages to display on the computer screen during error conditions. **On** is the default setting.

NOTE: The paper-out message still appears when **Off** is selected.

Cleaning Page

Click **Start...** to print a cleaning page.

Courier Font Type

Select **Regular** to print any text by using TrueType Courier or Courier New with normal weight. Select **Dark** to print any text by using TrueType Courier or Courier New with a dark weight but without changing the font attributes in a program. **Regular** is the default setting.

Print Density

Use this control to specify how much toner is put on the page. **3** is the default setting.

Quiet Mode

With **Quiet Mode** on, printing produces less noise, but printing speed is reduced. With **Quiet Mode** off, normal printing resumes.

Tray Assignment

Use these controls to specify the media type for each tray on the product.

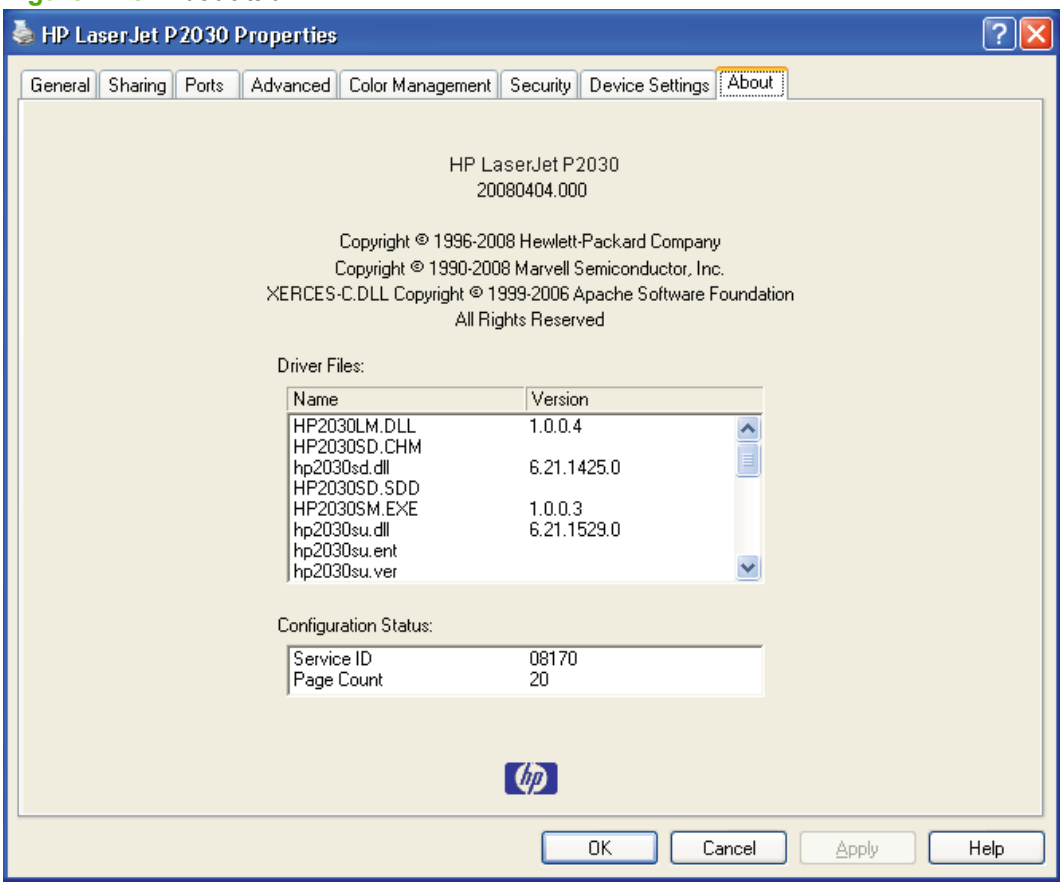
Allow Manual Duplexing

Use this setting to allow printing on both sides of a page using manual two-sided printing. This option is selected by default.

About tab features

The **About** tab provides detailed information about the driver. It contains an overall build number after the model name, and specific information about each of the components. The information varies according to the HP LaserJet P2030 Series printer model, driver, date, and version numbers. The following illustration shows the **About** tab.

Figure 4-18 About tab



Driver Files

The **Driver Files:** box lists driver installation file names and their version numbers.

Configuration Status

The **Configuration Status:** box lists the Service ID number and the page count.

5 Macintosh software and utilities

Introduction

The HP LaserJet P2030 Series printer comes with printing software and installers for Apple Computer, Inc., Macintosh operating systems.

- Supported operating systems for Macintosh
- Printing-system software
- Macintosh installation instructions
- Remove software for Macintosh
- Supported utilities for Macintosh

Supported operating systems for Macintosh

Mac OS X v10.3, v10.4, and v10.5 are supported.

NOTE: Mac OS 9 and Mac OS X classic are *not* supported.

Hardware requirements

The HP LaserJet P2030 Series printing-system software has the following minimum system requirements:

- Macintosh OS X (version 10.3, 10.4, and 10.5)
- Macintosh computer (Power PC processor), such as an iMac, Power Macintosh G3 and higher (Power Macintosh G4 233 MHz recommended)
- Minimum 256 MB system memory
- 150 MB or more of available hard-disk space
- A USB port, or an ethernet connection using on-board networking (HP LaserJet P2035n only)
- CD-ROM drive or internet connection

Change print-driver settings for Macintosh

Follow these steps to change the print-driver settings for Macintosh.

Table 5-1 Change print-driver settings for Macintosh

Change the settings for all print jobs until the software program is closed	Change the default settings for all print jobs	Change the product configuration settings
1. On the **File** menu, click **Print**. 2. Change the settings that you want on the various menus.	1. On the **File** menu, click **Print**. 2. Change the settings that you want on the various menus. 3. On the **Presets** menu, click **Save As** and type a name for the preset. These settings are saved in the **Presets** menu. To use the new settings, you must select the saved preset option every time you open a program and print.	**Mac OS X V10.3 and V10.4** 1. From the Apple menu, click **System Preferences**, and then click**Print & Fax**. 2. Click **Printer Setup**. 3. Click the **Installable Options** menu. **Mac OS X V10.5** 1. From the Apple menu, click **System Preferences**, and then click**Print & Fax**. 2. Click **Options & Supplies**. 3. Click the **Driver** menu. 4. Select the driver from the list, and configure the installed options.

Printing-system software

The printing-system software for the HP LaserJet P2030 Series printer comes in-box on a single CD. On Macintosh OS v10.3, 10.4, and 10.5 systems, the HP LaserJet Installer for Macintosh installs the HP LaserJet P2030 Series printing-system software from the CD onto the hard disk. The HP LaserJet Installer for Macintosh installs only the HP LaserJet P2030 Series printing-system software on the current system startup drive that contains the active System folder. By default, the HP LaserJet P2030 Series printing-system software is installed in the Library folder. 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
- The HP LaserJet P2030 Series User Guide (.PDF format)

Macintosh component descriptions

The following major components are installed by the HP LaserJet Installer for Mac:

- Macintosh drivers
- HP USB EWS Gateway
- HP Device Configuration Utility
- HP Uninstaller for the HP Device Configuration Utility and HP USB EWS Gateway

Availability

This STR provides information about the availability of the HP LaserJet P2030 Series printing-system software and related software and firmware. Printing-system software on a CD is available from HP fulfillment centers.

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

Printing-system software on the Web

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

NOTE: Print drivers for Windows 98 SE and Windows NT 4.0 (parallel-port connection only) are *not* 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 STR describes drivers that are shipped on the printing-system software CD that comes with the product. This STR does *not* describe drivers that will become available on the Web.

- Printing-system software
- Software component availability

Printing-system software

The HP LaserJet P2030 Series printing-system software is available for download at the following Web site:

www.hp.com/go/ljp2030series_software

Software component availability

The following HP LaserJet software components are installed:

- Macintosh drivers
- 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 LaserJet P2030 Series printer contains the files for installing the printing-system software on the computer.

- Macintosh partition
- CD version

Macintosh partition

The HP LaserJet P2030 Series 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 version

The software CD for the HP LaserJet P2030 Series printer contains the files for installing the printing-system software on the computer.

The HP LaserJet P2030 Series printing-system software CD for Macintosh is available comes on one CD which contains printing-system documentation in the following languages:

- Chinese (Simplified)
- Chinese (Traditional)
- Danish
- Dutch
- English
- Finnish

- French
- German
- Italian
- Korean
- Norwegian
- Portuguese (Brazilian)
- Spanish
- Swedish

Macintosh installation instructions

On a Macintosh computer, the installation procedures are basically the same for a network administrator, a network client, and a single user. Install the software on any computer that has access rights to the printer. The computer user must also have administrative rights on the computer in order to install the software.

- Installation options
- General installation for Macintosh operating systems
- Detailed Mac OS X installation instructions
- Printer setup

Installation options

The HP LaserJet P2030 Series printing-system software can be used in the following configurations:

- The computer is directly connected to the product through a USB or parallel port, and the HP LaserJet P2030 Series printing-system software is loaded on the computer.
- The product is networked by using on-board networking through Bonjour (HP LaserJet P2035n only).

General installation for Macintosh operating systems

- Installation instructions for direct connections
- Installation instructions for networked computers (HP LaserJet P2035n only)

Installation instructions for direct connections

If you are connecting the product to a computer using the USB cable or the parallel cable, install the software *before* connecting the cable.

1. Insert the Macintosh printing-system software CD into the CD-ROM drive.
2. Run the installer CD.
3. Open the **Printer Setup Utility** by clicking **HD**, clicking **Applications**, clicking **Utilities**, and then clicking **Printer Setup Utility**.
4. Verify that the product has been set up automatically. If the HP LaserJet P2030 Series printer appears in the list of printers, go to step 9. If the HP LaserJet P2030 Series printer does *not* appear in the list of printers, go to step 5.
5. In the **Printer Setup Utility**, click **Add**.
6. In the **Printer List** box, click **USB**.
7. In the **Printer Model** box, click **HP LaserJet P2030 Series printer**, and then click **Add**.
8. In the **Printer Setup Utility**, click **HP LaserJet P2030 Series printer**, and then click **Make Default**.
9. Print a page from any program to make sure that the software is correctly installed.

Installation instructions for networked computers (HP LaserJet P2035n only)

If you are connecting the product to a network, connect the network cable to the printer network port (HP LaserJet P2035n only).

1. The HP LaserJet P2030 Series printer has on-board networking available for network connection. For a 10/100 Base-T network, connect a twisted-pair network cable between the product and an active network port.
2. Print a Configuration Report page.
3. For the OS X Bonjour feature, locate the mDNS Name under the Network Setting heading on the Configuration Report page.

   NOTE: 'Bonjour' is found in Mac OS v 10.4 and v10.5. Mac OS 10.3 referred to the same technology as 'Rendezvous'.

4. Insert the Macintosh printing-system software CD into the CD-ROM drive.
5. Run the installer CD.
6. Open the **Printer Setup Utility** by clicking the icon at the bottom of the screen, or by clicking **HD**, clicking **Applications**, clicking **Utilities**, and then clicking **Printer Setup Utility**.
7. Click **Add**, and choose Bonjour from the drop-down list. Then find and click the mDNS name for the product, and then click **Add**.
8. Print a page from any program to make sure that the software is correctly installed

NOTE: If the installation fails, reinstall the software. If the reinstallation fails, see the *HP LaserJet P2030 Series Install Notes* on the HP LaserJet P2030 Series printing-system software CD, see the flyer that came in the box with the product, or go to the following Web site for help or more information:

www.hp.com/support/ljp2030series

Detailed Mac OS X installation instructions

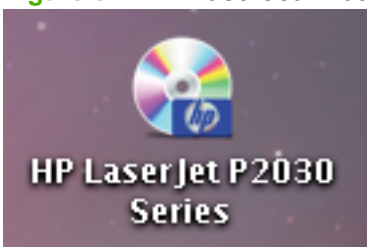
This section provides information about the Macintosh installation dialog-box sequence.

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 or parallel connection, install the software *before* connecting the USB cable or the parallel cable.

Insert the HP LaserJet P2030 Series printing-system software CD in the CD-ROM drive.

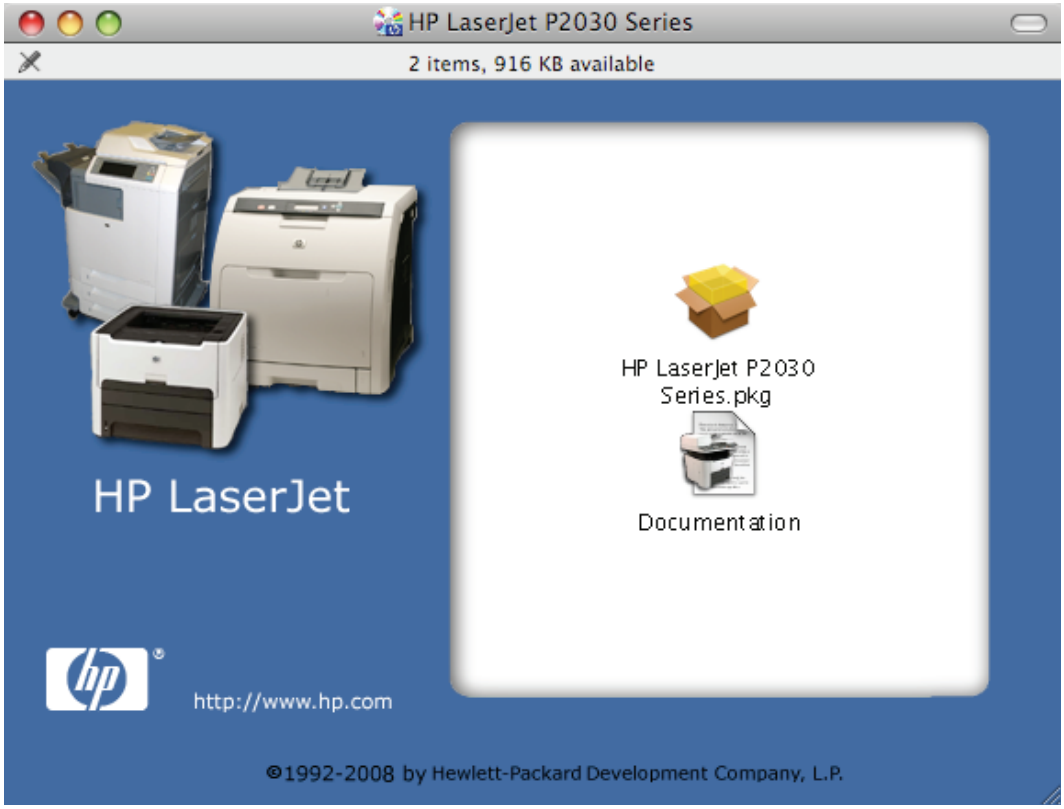
If the CD screen does not open automatically when the CD is put into the CD-ROM drive, double-click the **HP LaserJet P2030 Series** CD-ROM icon on the desktop to open the installer folder.

Figure 5-1 HP LaserJet P2030 Series CD-ROM icon



The **HP LaserJet Software** dialog opens.

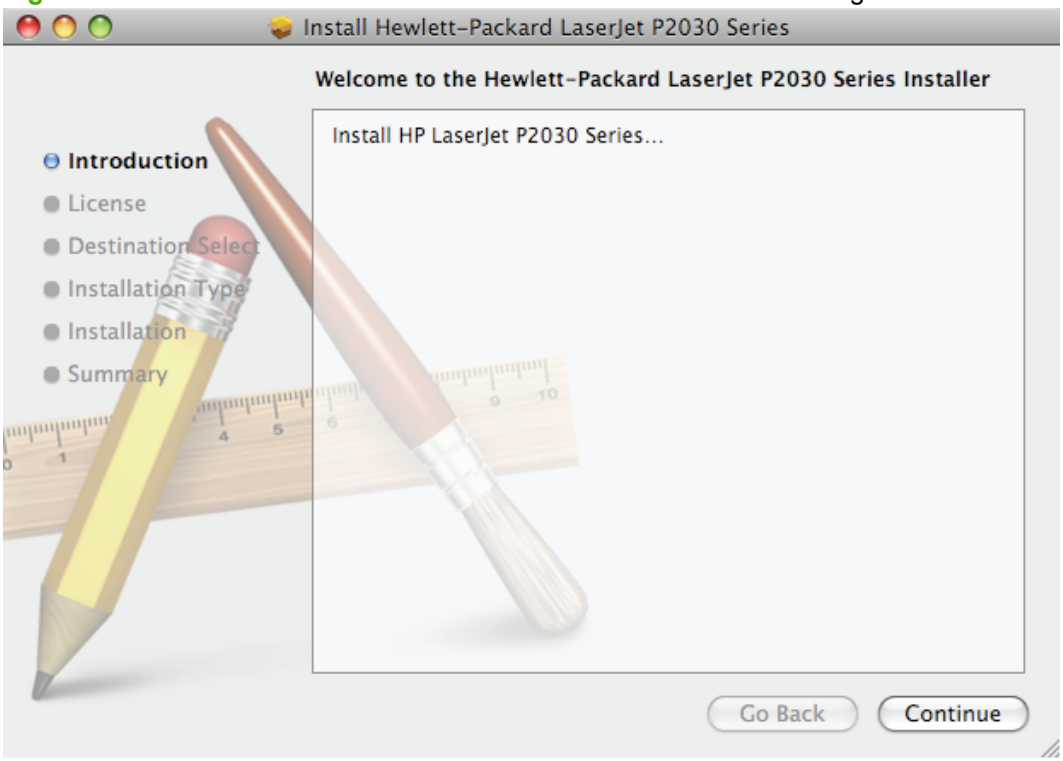
Figure 5-2 HP LaserJet Software screen



Double-click the **HP LaserJet P2030 Series.pkg** icon. This begins the install process.

The **Welcome to the HP LaserJet P2030 Series Installer** dialog appears.

Figure 5-3 Welcome to the HP LaserJet P2030 Series Installer dialog



Click **Continue**. The **License** dialog appears.

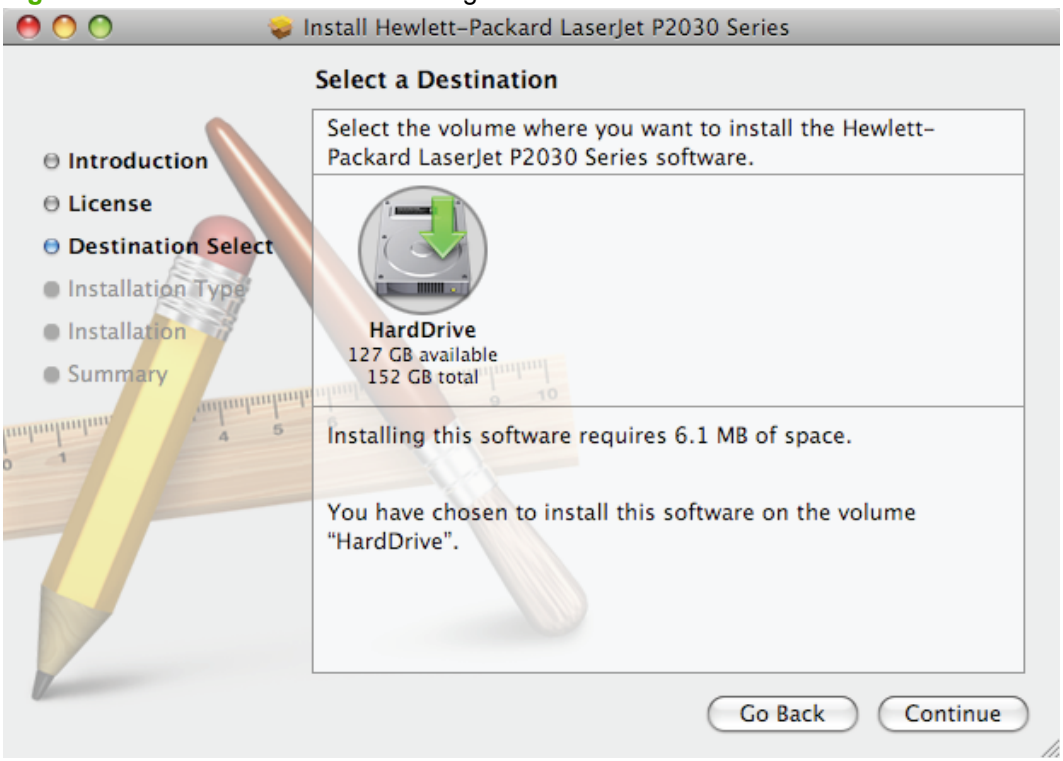
Figure 5-4 License dialog

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.

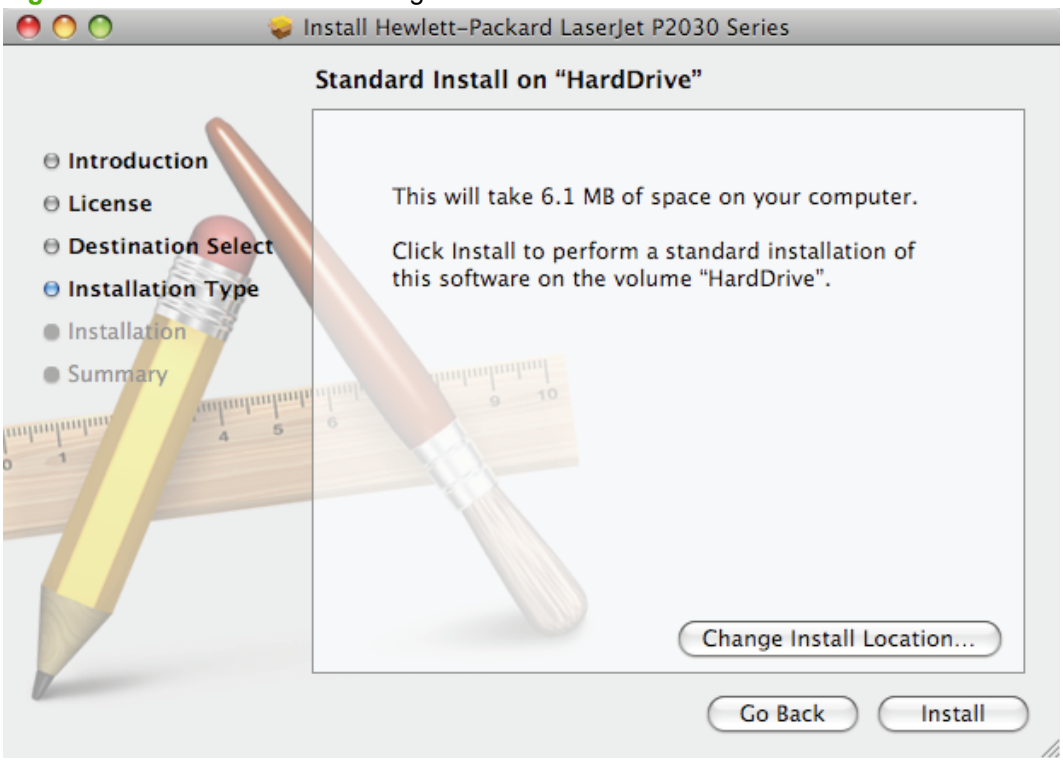
Read the software-license agreement and then click **Continue** to continue the installation. A dialog appears, asking you to accept the license agreement. Click **Agree** to accept the agreement. The **Select a Destination** dialog appears. Click **Decline** to end the installation process and close the installer.

Figure 5-5 Select a Destination dialog



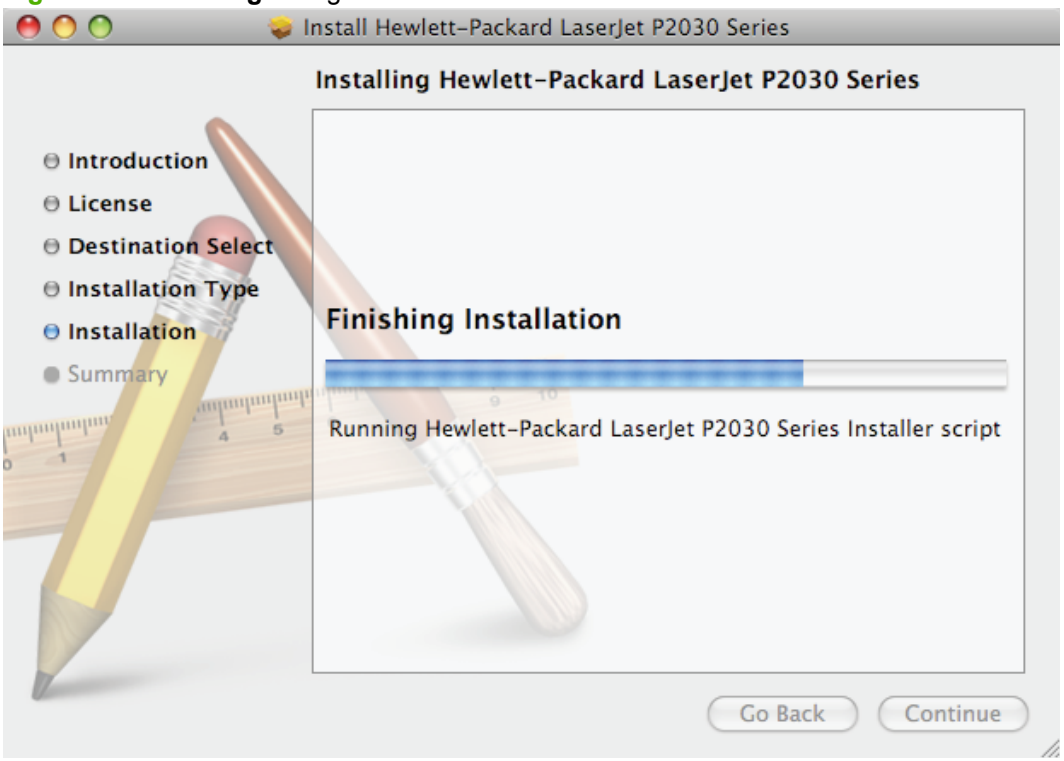
Click **Continue**. The **Standard Install** dialog appears.

Figure 5-6 Standard Install dialog



Click **Install** to start the installation on the selected disk. The printing system files are installed in the main Library folder on the Macintosh hard drive. If installed, the HP Device Configuration Utility is installed under the Application directory in a directory labeled **HP EWS Device Configuration**. An uninstaller utility for the Device Configuration utility is also installed in this directory.

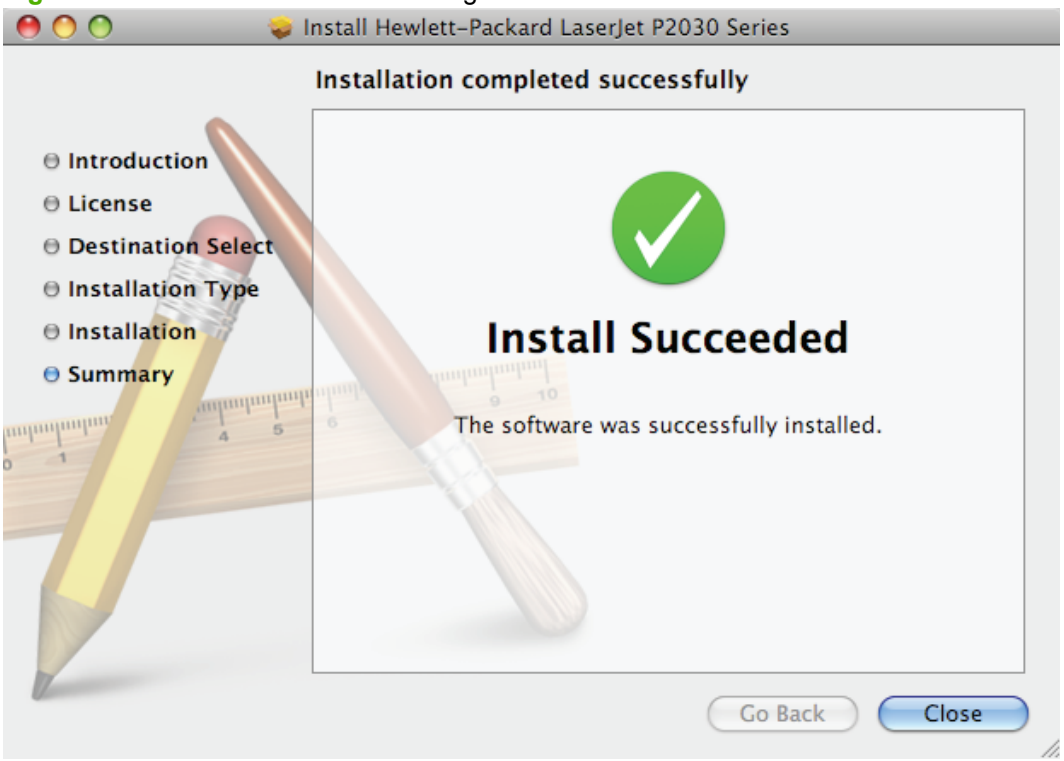
Figure 5-7 **Installing** dialog



The **Installing** dialog shows installation progress. No action is required.

A dialog stating that the installation was successful appears.

Figure 5-8 Installation success message



Click **Close** to exit the installer.

Printer setup

After installing the printing-system software in Macintosh operating systems, the printer must be set up.

- Set up a printer with Mac OS X V10.4
- Set up a printer with Mac OS X V10.3
- Troubleshooting the printer setup

Set up a printer with 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 or parallel connection, connect the USB cable or the parallel cable between the HP LaserJet P2030 Series 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. In the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility**. The **Printer List** appears.

   You can also configure the printer using the **Print & Fax** pane of **System Preferences** (from the Apple menu, choose **System Preferences...**, then choose **Print & Fax**).
3. If you are installing the printer using a USB or parallel connection, verify that the printer appears on the printer list. The **Kind** column in the printer list should display **HP LaserJet P2030 Series**. If this is the case, the setup is complete.

   If the printer does not appear, or if the correct information does not appear in the **Kind** column, see Troubleshooting the printer setup on page 138.

   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. Use Bonjour for the network connection. Carry out the following steps:

   a. Click the **Default Browser** tab.

   b. Select the HP LaserJet P2030 Series 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 driver for the printer.

   NOTE: If the HP LaserJet P2030 Series printer 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 LaserJet P2030 Series** driver 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 on page 138.
6. Click **Add**. The product name appears in the **Printer List** and the setup is complete.

Set up a printer with Mac OS X V10.3

1. If you are installing the printer using a USB or parallel connection, connect the USB cable or parallel cable between the HP LaserJet P2030 Series 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. In the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility**.

   You can also configure the printer using the **Print & Fax** pane of **System Preferences** (from the Apple menu, choose **System Preferences...**, then choose **Print & Fax**).
3. If you are installing the printer using a USB or parallel connection, verify that the printer appears on the printer list. (In the Print & Fax screen, click the **Set Up Printers...** button to see the printer list.) The **Kind** column in the printer list should display **HP LaserJet P2030 Series**. If this is the case, the setup is complete.

   If the printer does not appear, or if the correct information does not appear in the **Kind** column, see Troubleshooting the printer setup on page 138.

   If you are installing the printer using a network connection, continue with the following steps.
4. Click **Add** (or the **Set Up Printers...** button in the Print & Fax screen, and then **Add**) to open the add printer screen.
5. Select the **Rendezvous** network connection protocol in the top pull-down menu.
6. Select the HP LaserJet P2030 Series printer in the **Name** list. The **Printer Model** and **Model Name** are selected automatically.

   NOTE: If the HP LaserJet P2030 Series printer does not appear in the list, verify that the printer is powered on and connected to the network. If it still does not appear, try turning the printer off and then on again. Finally, turn the computer off and then on again, then restart the setup process. For more troubleshooting information, see Troubleshooting the printer setup on page 138.
7. Click **Add**. The HP LaserJet P2030 Series printer appears in the **Printer List**.

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, parallel, 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.
- Turn the computer off and then back on again.
- If you are using a USB hub on the computer, disconnect the other USB products from the hub.

Remove software for Macintosh

Follow these instructions to uninstall the Macintosh Printing System.

1. Browse to **Library/Printers/HP/LASERJET/HP2030** folder.
2. Delete the following files:
   - HP LaserJet Utility
   - HP 2030PDE.Plugin
   - HP 2030PM.Plugin
3. Empty the **Trash**.

Supported utilities for Macintosh

HP Embedded Web Server (HP LaserJet P2035n only)

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 product.
- Print information pages for the product.
- View the product 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 access to the product if the product is connected using a USB cable. The HP EWS can also by opened by choosing the **Utility** button in the Printer Setup Utility or through the HP Device Configuration utility.

For more information about this feature, see HP Embedded Web Server on page 24.

6 Engineering details

Introduction

- Media attributes
- Troubleshooting checklist
- HP LaserJet P2030 Series Install Notes

Media attributes

These tables provide information about media features, media attributes, and paper-handling constraints for the HP LaserJet P2030 Series printer.

- Media sizes
- Supported paper types
- Tray and bin capacity

Media sizes

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 6-1 Supported paper and print media sizes

Size and dimensions	Tray 1	Tray 2
Letter 216 x 279 mm (8.5 x 11 inches)	X	X
Legal 216 x 356 mm (8.5 x 14 inches)	X	X
A4 210 x 297 mm (8.27 x 11.69 inches)	X	X
A5 148 x 210 mm (5.83 x 8.27 inches)	X	X
A6 105 x 148 mm (4.1 x 5.8 inches)	X	X
B5 (JIS) 182 x 257 mm (7.17 x 10.12 inches)	X	X
Executive 184 x 267 mm (7.24 x 10.51 inches)	X	X
Postcard (JIS) 100 x 148 mm (3.9 x 5.8 inches)	X	
Double Postcard (JIS) 148 x 200 mm (5.8 x 7.9 inches)	X	
16K 184 x 260 mm (7.2 x 10.2 inches)	X	
16K 195 x 270 mm (7.7 x 10.6 inches)	X	

Table 6-1 Supported paper and print media sizes (continued)

Size and dimensions	Tray 1	Tray 2
16K 197 x 273 mm (7.8 x 10.8 inches)	X	
8.5 x 13 216 x 330 mm (8.5 x 13 inches)	X	X
Envelope Commercial #10 105 x 241 mm (4.13 x 9.49 inches)	X	
Envelope B5 ISO 176 x 250 mm (6.7 x 9.8 inches)	X	
Envelope C5 ISO 162 x 229 mm (6.93 x 9.84 inches)	X	
Envelope DL ISO 110 x 220 mm (4.33 x 8.66 inches)	X	
Envelope Monarch 98 x 191 mm (3.9 x 7.5 inches)	X	
Custom 76 x 127 mm to 216 x 356 mm (3.0 x 5.0 inches to 8.5 x 14 inches)	X	

Supported paper types

Paper type (printer driver)	Tray 1	Tray 2
Plain Paper	X	X
Light 60–74 g/m^2	X	X
Midweight (96–110 g/m^2)	X	X
Heavy (111–130 g/m^2)	X	X
Extra Heavy (131–175 g/m^2)	X	
Transparency	X	X
Labels	X	
Letterhead	X	X
Preprinted	X	X
Prepunched	X	X
Color	X	X
Rough	X	X
Bond	X	X
Recycled	X	X
Envelope	X	
HP Multipurpose Paper	X	X
HP Office Paper	X	X
HP LaserJet Paper	X	X
HP Premium Choice Paper	X	X

Tray and bin capacity

Tray or bin	Paper type	Specifications	Quantity
Tray 1	Paper	Range: 60 g/m^2 (16 lb) bond to 200 g/m^2 (54 lb) bond	Maximum stack height: 5 mm (0.3 inch) Equivalent to 50 sheets of 75 g/m^2 (20 lb) bond
	Envelopes	Less than 60 g/m^2 (16 lb) bond to 90 g/m^2 (24 lb) bond	Up to 10 envelopes
	Labels	Maximum 0.23 mm (0.009 inch) thick	Maximum stack height: 5 mm (0.3 inch)
	Transparencies	Minimum 0.13 mm (0.005 inch) thick	Maximum stack height: 5 mm (0.3 inch)

Tray or bin	Paper type	Specifications	Quantity
Tray 2	Paper	Range: 60 g/m^2 (16 lb) bond to 135 g/m^2 (36 lb) bond	Equivalent to 250 sheets of 75 g/m^2 (20 lb) bond Maximum stack height for A6 paper: 15 mm (0.59 inch)
	Transparencies	Minimum 0.13 mm (0.005 inch) thick	Maximum stack height: 26 mm (1.0 inch)
Standard top bin	Paper		Up to 125 sheets of 75 g/m^2 (20 lb) bond

Troubleshooting checklist

Use the following steps when trying to solve a problem with the product.

Table 6-2 Troubleshooting checklist

Step number	Verification step	Possible problems	Solutions
1	**Is the power on?** When the product is connected to a grounded power source, amber lights on the top of the printer will show that it is warming up. When the product is ready to print, only the green light will be on.	No power due to failed power source, cable, switch, or fuse.	1. Verify that the product 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 product directly into the wall or into a different outlet. 4. Test the outlet or connect another product to the outlet to verify that the outlet is functioning.
2	**Does the product print from the computer?** Use a word-processing application to send a print job to the product.	Software is not installed correctly or an error occurred during software installation.	Uninstall and then reinstall the product software. Verify that you are using the correct installation procedure and the correct port setting.
		The cable is not connected correctly.	Reconnect the cable.
		An incorrect driver is selected.	Select the proper driver.
		Other products are connected to the USB port.	Disconnect the other products and try again to print.
		There is a port driver problem in Microsoft Windows.	Uninstall and then reinstall the product software. Verify that you are using the correct installation procedure and the correct port setting.
	If the error persists, contact HP Customer Contact Center.		

HP LaserJet P2030 Series Install Notes

Edition 1, 12/2007

- 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. The HP LaserJet P2030 Series software works with the following operating systems:

- Windows NT 4.0 (PCL 5e ONLY)
- Windows 2000
- Windows XP (32-bit and 64-bit))
- Windows Server 2003 (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit

NOTE: HP LaserJet P2030 Series software does not support Windows 95, Windows 98, Windows ME and Windows Server 2000.

For instructions to install Macintosh OS components, or other systems, see the associated installation notes, readme files, or other product information for that particular system.

This file provides specific installation, compatibility, and troubleshooting information. For additional information about device features and driver features, see the device 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 LaserJet P2030 Series printers.

OVERVIEW OF THE PRINTING SYSTEM COMPONENTS

The 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 for Minimal Install on USB installations only

Drivers

A driver is software that provides software applications access to the device features. Typically, you should install drivers for each device. The printing-system software CD-ROM that came with your device includes the following Windows drivers:

- HP LaserJet P2030 Series Host-based print driver

Some drivers for this device are available for download from the Internet. These drivers are:

- HP LaserJet P2030 Series PCL5 UPD print driver
- HP LaserJet P2030 Series XPS print driver

Software Applications

None.

End-user software components for Typical Install

Drivers

A driver is software that provides software applications access to the device features. Typically, you should install drivers for each device. The printing-system software CD-ROM that came with your device includes the following Windows drivers:

- HP LaserJet P2030 Series Host-based print driver

Some drivers for this device are available for download from the Internet. These drivers are:

- HP LaserJet P2030 Series PCL5 UPD print driver
- HP LaserJet P2030 Series XPS print driver

Software Applications

- User Guide (Windows Help format)
- HP Extended Capabilities

Additional drivers might be available from your HP distributor or from online sources. See the "Technical Assistance" section of this document or the device user guide for more information about obtaining drivers and other HP software.

Adobe Acrobat Reader

The latest version of Acrobat Reader is available on the Adobe website at http://www.adobe.com/.

Device documentation

The following documents are available on the printing system software CD-ROM:

HP LaserJet P2030 Series

- Document: HP LaserJet P2030 Series User Guide

  File name: 2030UserGuide.pdf

  File name: 2030UserGuide.chm

  Path: <CD-ROM Drive:>:\<Language>\Manuals\2030UserGuide.pdf

  Path: <CD-ROM Drive:>:\<Language>\Manuals\2030UserGuide.chm

- Document: HP LaserJet P2030 Series Install Notes

  File name: 2030SeriesInstallnotes.htm

  Path: <CD-ROM Drive:>:\<Language>\Manuals\2030SeriesInstallNotes.htm

Uninstall

The uninstall utility allows you to remove the Windows HP printing system components. See the "Uninstaller" section for more instructions.

II. LATE-BREAKING INFORMATION

KNOWN ISSUES AND WORKAROUNDS

For an updated listing of known issues for the HP LaserJet printing system software, see the HP LaserJet P2030 Series device support pages at the following URLs: www.hp.com/support/LJP2030series

General

- 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 might 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/LJP2030series
- 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: o 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.
- On a Thai system, some components may show English text.

Upgrading Windows

- HP recommends that you uninstall HP devices before upgrading to a newer supported version of Windows. For example, when upgrading from Windows 2000 to Windows XP, uninstall your HP device using Add/Remove Programs and then upgrade to the new operating system. After the operating system upgrade is complete, re-install your HP device using the latest software from the following URL: www.hp.com/support/LJP2030series

Other Applications

- Microsoft Wordpad does not display compressed JPEG files contained in an RTF file. To display these files, use a different application such as Microsoft Word.

ISSUES FIXED

For an updated listing of issues fixed for the HP LaserJet printing system software, see the HP LaserJet P2030 Series device support pages at the following URLs: www.hp.com/support/LJP2030series

Use the link for the "Release Notes" or "Readme File" found on the driver download page for the operating system and driver version to be used.

III. INSTALLATION INSTRUCTIONS

When operating in a Windows environment, the CD-ROM setup or installation software detects the version and language of the operating system that you are running.

INSTALLING SOFTWARE ON WINDOWS 2000, XP, AND SERVER 2003

NOTE: Administrator privileges are required to install the printing system on a Windows 2000, Windows XP or Windows Vista operating system.

Printing-system installation from a CD-ROM

1. Do not plug the USB/parallel cable into the computer system.
2. Close all programs.
3. Insert the CD-ROM.
4. If the HP printing system installer program has not started after 30 seconds, complete steps 5 through 7.
5. Select Run from the Start menu on your taskbar.
6. Browse to the root directory on the CD-ROM drive.
7. Select the P2030EGSG.EXE file, click Open, and then click OK.
8. Follow the prompts.

INSTALLING VIA ADD PRINTER

The HP LaserJet P2030 Series printer may also be installed via Microsoft's Add Printer feature in the Printers folder. This is also known as Add Printer Wizard or APW. APW instructions will change slightly with different versions of Windows.

WinXP APW Install

1. Ensure the HP LaserJet P2030 Series printer has not been plugged in and is not connected to the computer.
2. From the Start menu, point to Control Panel, and click Printers and Faxes.
3. Click Add Printer, then click Next on the “Welcome to Add Printer Wizard” screen.
4. Follow the directions on screen.
5. When asked if the product is a local or network printer, select Local Printer (This is the default selection). Un-check the Automatically detect and install my Plug and Play printer checkbox. Press Next.
6. If you are installing via USB and have not previously installed the HP LaserJet P2030 Series, there will not be a USB port installed yet. This is normal. Select LPT1: and click Next.

   -or-

   If you are installing via USB and have previously installed and connected the HP LaserJet P2030 Series, there will be a USB port installed. Select this USB port and click Next.

   Note: Ensure that you connect the HP LaserJet P2030 Series to the same physical USB port you previously had it connected to.
7. Select "Have Disk" and then specify the location of the HP LaserJet P2030 Series driver to be installed.
8. If multiple selections are presented, select your printer model and click Next.
9. Follow the directions on screen.
10. When asked to connect the printer, plug in and connect the HP LaserJet P2030 Series printer to your computer.

    Note: If you are not asked to connect the HP LaserJet P2030 Series printer at this time, you should plug it in and connect it to your computer when installation completes.
11. Follow the directions on the screen until installation is completed.

When installation is completed you may have two copies of the printer driver created. If this is the case, you should delete the first one created. Typically it will have the same name as your printer model. To check how many drivers were created, and to delete the first one, follow the steps below

1. From the Start menu, point to Settings, and click Printers.
2. If you have both "HP LaserJet P2030 Series " and "HP LaserJet P2030 Series (Copy 2)", do not delete the one with "Copy 2" in the name. Instead delete the first driver created called "HP LaserJet P2030 Series"

At this point you are ready to print using the "HP LaserJet P2030 Series (Copy 2)" driver.

PRINTING WITH PCL5E

The PCL5e driver is located on the web at the following URL: www.hp.com/support/LJP2030series

Use Add Printer Wizard to install the PCL5e driver.

PRINTING WITH XPS

The XPS driver is located on the software CD that shipped with your printer and on the web at the following URL: www.hp.com/support/LJP2030series

Use Add Printer Wizard to install the XPS driver.

UNINSTALLER

After a printing system installation, use the uninstall icon in the HP LaserJet P2030 Series program group to remove all of the HP printing system components.

Starting the Uninstaller

1. From the Start menu, in the HP LaserJet P2030 Series program group, click the HP LaserJet P2030 Series uninstall icon.
2. The printing system guides you through the removal of all of the printing system components.

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 device user guide or the in-box support flyer, or call your local authorized HP dealer.

CUSTOMER SUPPORT

See your device user guide or the in-box support flyer, or call your local authorized HP dealer.

WEB

Browse to one of the following URLs for online technical support: www.hp.com/support/LJP2030series

HP SOFTWARE AND SUPPORT SERVICES - ADDITIONAL INFORMATION

See your device 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

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