Software Technical Reference







HP LaserJet P2050 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 printing-system software for the product.

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 Softwa	re technical re	eference o	overview
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Chapter	Content	
Chapter 1, Purpose and scope	This chapter contains basic information about the product and its software:	
	Overview of the product	
	Printing-system software overview, including the following topics:	
	System requirements	
	 Operating-system support 	
	Availability	
	LaserJet software documentation	
Chapter 2, Software description	This chapter provides an overview of the printing-system software installer and printer drivers.	

Table 1-1	Software technical reference overview	(continued))
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Chapter	Content		
	This chapter also contains general information about other software features, including the following topics:		
	Driver configuration for Microsoft® (MS) Windows®		
	HP Embedded Web Server (network models only)		
	HP ToolboxFX		
	HP Web Jetadmin		
Chapter 3, Install Windows printing-system components	This chapter provides instructions for installing the product in Windows operating systems by using various installation methods.		
Chapter 4, HP printer driver for Windows	This chapter provides detailed descriptions of the PCL 6 printer driver for Windows 2000, Windows XP, Windows Vista, and Windows Server 2003.		
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		
	Firmware updates		
	Readme file		

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

Topics:

- 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	Des	escription	
Performance	•	600 MHz processor	
User interface	•	Two-line display	
	•	HP ToolboxFX (a status-reporting and problem-solving software application)	

Feature	De	escription		
	•	Windows and Macintosh printer drivers		
	•	Embedded Web server (for network-connected models only)		
Printer drivers	•	HP PCL 5 Universal Print Driver for Windows (HP UPD PCL 5) (available for download from the Web)		
	•	HP PCL 6		
	•	HP postscript emulation Universal Print Driver for Windows (HP UPD PS) (available for download from the Web)		
	•	XPS (XML Paper Specification) 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		
	•	ProRes 1200—produces 1200-dpi printing for the best quality in line art and graphic images		
	•	600 dpi—provides the fastest printing		
Fonts	•	45 internal scalable fonts available for PCL and 35 for HP postscript emulation		
	•	80 device-matching screen fonts in TrueType format available with the software solution		
Accessories	•	HP 500-sheet input tray		
	•	HP Jetdirect external print server (base models only)		
Connectivity	•	Hi-Speed USB 2.0 connection		
	•	RJ.45 network connection		
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 Sure Supply Web site for easy replacement-cartridge reordering		
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		
	•	Citrix		
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 and covers can be opened by using one hand.		
	•	Paper can be loaded in Tray 1 by using one hand.		

Product comparison

HP LaserJet P2050 Series models



Documentation availability

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

Table 1-2 User documentation availability and localization

Document name	Languages	Part number	Location
User Guide	English	CE457-90902	The user guide is available in
	Arabic	CE457-90903	product software CD.
	Bulgarian	CE457-90904	-
	Catalan	CE457-90905	-
	Chinese (Simplified)	CE457-90937	-
	Chinese (Traditional)	CE457-90938	-
	Croatian	CE457-90915	-
	Czech	CE457-90906	-
	Danish	CE457-90907	-
	Dutch	CE457-90923	-
	Estonian	CE457-90911	-
	Finnish	CE457-90912	-
	French	CE457-90913	-
	German	CE457-90908	-
	Greek	CE457-90909	-
	Hebrew	CE457-90914	-
	Hungarian	CE457-90916	-
	Indonesian (Bahasa)	CE457-90917	-
	Italian	CE457-90918	-
	Kazakh	CE457-90919	-
	Korean	CE457-90920	-
	Latvian	CE457-90922	-
	Lithuanian	CE457-90921	-
	Norwegian	CE457-90924	-
	Polish	CE457-90925	-
	Portuguese (Brazilian)	CE457-90926	-
	Romanian	CE457-90927	-
	Russian	CE457-90928	-

Document name	Languages	Part number	Location
	Serbian	CE457-90931	
	Slovak	CE457-90929	-
	Slovenian	CE457-90930	-
	Spanish	CE457-90910	-
	Swedish	CE457-90932	-
	Thai	CE457-90933	-
	Turkish	CE457-90934	-
	Ukrainian	CE457-90935	-
	Vietnamese	CE457-90936	-

Table 1-2 User documentation availability and localization (continued)

Document name	Languages	Part number	Location
Getting Started Guide	Arabic	CE457-90976	The getting started guide is available in bard copy and
	Bulgarian		comes in the box with the
	Croatian		product.
	Czech		
	• Danish		
	• Dutch		
	English		
	• Estonian		
	• French		
	• German		
	• Greek		
	Italian		
	Latvian		
	Lithuanian		
	Polish		
	• Portuguese (Brazilian)		
	Romanian		
	Russian		
	Serbian		
	Slovenian		
	Spanish		
	Turkish		
	Ukrainian		
	• English	CE457-90977	_
	Hebrew		

Software availability

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

CD part number	Languages	
CE457-14001	English	
	Arabic	
	Catalan	
	Danish	
	• Dutch	
	• Estonian	
	Finnish	
	French	
	• German	
	• Italian	
	Latvian	
	Lithuanian	
	Norwegian	
	Portuguese (Brazilian)	
	Spanish	
	Swedish	
CE457-14002	English	
	Bulgarian	
	Croatian	
	• Czech	
	French	
	Greek	
	Hebrew	
	Hungarian	
	• Kazakh	
	Polish	
	Romanian	
	Russian	
	Serbian	
	Slovak	

Table 1-3 Available languages on the printing-system CD

Table 1-3	Available	languages on	the printing	-system CD	(continued)
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CD part number	Languages	
	• 5	Slovenian
	• 1	Turkish
	• l	Ukrainian
CE457-14004	• E	English
	• (Chinese (Simplified)
	• (Chinese (Traditional)
	• 1	Indonesian (Bahasa)
	• ł	Korean
	• 7	Thai
	• \	Vietnamese

The software installers are available in the following languages.

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

T

Italian

•

Table 1-4	Software	installer	available	languages	(continued)
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Wir	Windows installer Macintosh installer	
•	Kazakh	
•	Korean	
•	Latvian	
•	Lithuanian	
•	Norwegian	
•	Polish	
•	Portuguese (Brazilian)	
•	Romanian	
•	Russian	
•	Serbian	
•	Slovak	
•	Slovenian	
•	Spanish	
•	Swedish	
•	Thai	
•	Turkish	
•	Ukrainian	
•	Vietnamese	

The printer drivers are available for the following languages.

- 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
- Slovak
- Slovenian
- Spanish
- Swedish
- Thai
- Turkish
- Ukrainian
- Vietnamese

The following software programs are available in the following languages.

Table 1-5 Software languages

HP ToolboxFX		HP SureSupply	
•	English	•	English
•	Arabic	•	Arabic
•	Bulgarian	•	Bulgarian
•	Catalan	•	Catalan

Table 1-5 Software languages (continued)

HP	HP ToolboxFX HP SureSupply		SureSupply
•	Chinese (Simplified)	•	Chinese (Simplified)
•	Chinese (Traditional)	•	Chinese (Traditional)
•	Croatian	•	Croatian
•	Czech	•	Czech
•	Danish	•	Danish
•	Dutch	•	Dutch
•	Estonian	•	Estonian
•	Finnish	•	Finnish
•	French	•	French
•	German	•	German
•	Greek	•	Greek
•	Hebrew	•	Hebrew
•	Hungarian	•	Hungarian
•	Indonesian (Bahasa)	•	Indonesian (Bahasa)
•	Italian	•	Italian
•	Kazakh	•	Kazakh
•	Korean	•	Korean
•	Latvian	•	Latvian
•	Lithuanian	•	Lithuanian
•	Norwegian	•	Norwegian
•	Polish	•	Polish
•	Portuguese (Brazilian)	•	Portuguese (Brazilian)
•	Romanian	•	Romanian
•	Russian	•	Russian
•	Serbian	•	Serbian
•	Slovak	•	Slovak
•	Slovenian	•	Slovenian
•	Spanish	•	Spanish
•	Swedish	•	Swedish
•	Thai	•	Thai
•	Turkish	•	Turkish
•	Ukrainian	•	Ukrainian
•	Vietnamese	•	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	Optional Tray 3 (included with the HP LaserJet P2055x)
7	Tray 2
8	Print-cartridge door

Rear view



1	Jam-release door (pull the green handle to open)
2	Straight-through paper path (pull to open)
3	DIMM cover (provides access to the DIMM slot)
4	Interface ports
5	Rear duplex jam-release door
6	Power connection
7	Slot for a cable-type security lock

Document and product basics

Interface ports



2 RJ.45 network connection (network models only)

Model and serial-number label location

The label that contains the model and serial numbers is on the outside of the rear output (straight-through paper path).



2 Windows software description

Introduction

The product 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.

Topics:

- <u>Windows printing-system software</u>
- HP Easy Printer Care
- HP ToolboxFX
- HP Embedded Web Server
- HP Web Jetadmin
- HP Customer Participation Program
- Optional software

Windows printing-system software

Topics:

- Printing system and installer
- HP LaserJet print drivers

Printing system and installer

In Windows XP and Windows Vista systems, insert the printing-system software CD to open an interactive CD browser. Use the CD browser to install the print driver and related components, and to gain access to online user documentation, a customization utility, and Adobe Acrobat Reader software.

The following figure shows the main screen of the printing-system software CD.

Figure 2-1 Installation software CD browser



NOTE: The options on some products might differ from the illustration.

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 SETUP.EXE file to start the installer.
Install Printer Software. The installation wizard guides users through the printing-system software installation.

View User Guide. Use this option to view the user guide.

If Adobe Acrobat Reader 4.0 or later is not installed, clicking the user guide link opens it in a version of Adobe Acrobat Reader that runs from the printing-system software CD. The CD browser version of Acrobat Reader is in English only, but can be used to open localized versions of PDF documents. The Adobe Acrobat Reader software is *not* installed on the computer and can run only while the printing-system software CD is in the CD-ROM drive. Adobe Acrobat Reader is also available at the following Web site: www.adobe.com

HP LaserJet print drivers

The HP PCL 6 driver is supported in Microsoft XP and Vista 32-bit and 64-bit operating systems. For other operating systems, drivers can be downloaded from the following HP Web site: www.hp.com/go/ljp2050series_software. These drivers include the PCL 5 UPD and the HP postscript level 3 emulation (PS) UPD.

HP Easy Printer Care

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

This section provides information about the following topics:

- Overview of HP ToolboxFX
- HP ToolboxFX system requirements
- Key features
- The HP ToolboxFX folders
- Other screens

Overview of HP ToolboxFX

HP ToolboxFX allows end users to easily communicate with and manage their product. HP ToolboxFX provides the following capabilities:

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

Starting HP ToolboxFX

Start HP ToolboxFX by using any of the following methods.

- Double-click the **HP ToolboxFX** icon in the Windows system tray.
- Click Start, click Programs, click HP, click HP LaserJet P2050 Series, and then click HP ToolboxFX.
- Click Utilities or click Settings, and then click Status in the HP Solution Center.

Structure

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

- **Heading banner.** Each page that appears in HP ToolboxFX has a heading banner at the top that includes the HP logo.
- **Devices pane.** The Devices pane is always visible on the left-hand side of the HP ToolboxFX window. The Devices pane lists the HP products that are available to the host computer system and folders for the types of information available about each product.
- **Main content area.** Click any of the devices or folders listed in the Devices pane to see information about the product in the main content area.

- **Toolbar.** A toolbar appears at the top of the Main content area. The toolbar contains controls for printing, refreshing the page, ordering supplies, and getting help.
- **Other Links pane.** The Other Links pane is always visible in the lower-left corner of the HP ToolboxFX window. The **Other Links** pane contains links to the HP Instant Support, Product Support, and Product Registration pages on the HP Web site.

Opening screen

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

HP ToolboxFX system requirements

HP ToolboxFX is currently supported on the following operating systems:

- Windows XP (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)

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

Key features

This section provides information about the product alert features.

Receive alert messages for product events

Through HP ToolboxFX, the appropriate person can be alerted when certain events occur at the products. Receive pop-up dialogs (Status Alerts) or automatically generated e-mail messages (E-mail Alerts) for certain events. Alerts can also appear as a taskbar icon or as a desktop message. To see a list of the events that generate alerts in HP ToolboxFX, see the <u>Set up Status Alerts on page 29</u> section.

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

The following alert messages are available:

- <u>Pop-up alert messages</u>
- <u>System-tray icon alert</u>
- <u>E-mail alert</u>

Pop-up alert messages

Pop-up alert messages notify you immediately when an error or print-cartridge warning occurs in the product. An error, such as a jam, halts product operation and requires correction before the product continues operation. The alert condition can be corrected at any time. Alerts are sent only to the specific computer that prints to the product. This feature is provided through HP ToolboxFX and is turned *on* by default.

System-tray icon alert

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

E-mail alert

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

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

The HP ToolboxFX folders

- <u>Status folder</u>
- Alerts folder
- Help folder
- Device Settings folder
- Network Settings folder

Status folder

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

- Device Status
- Supplies Status
- Device Configuration
- Network Summary
- Print Info Pages
- Event Log

Device Status

The Device Status screen shows status messages from the product.

Figure 2-2 Device Status screen

🛸 HP ToolboxFX				
HP Toolbox	FX		TI	A manufacture of the second se
Devices	🖶 HP LaserJet			
🗉 🚞 Known Printers			Shop for S <u>u</u> ppl	ies ?
☐ IP LaserJet ☐ In Status ☐ Device Status	Device Status			
	HP LaserJet Status:			<u></u>
🗷 🚞 Help	Supplies Status			
æ 🚍 Device Settings ⊛ 🚍 Network Settings	100% 75%			1
Cther Links	50% 25%			
🗟 HP Instant Support	Supplies Information			
 Support and Troubleshooting Product Registration 	Supply Name Black Cartridge	Estimated Status* 0%	Pages Remaining [∞] 0	HP Part Number CE505A
	٢			>

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

Supplies Status

The **Supplies Status** screen provides detailed information about the print cartridge. This information is not available if a non-HP cartridge is installed in the product.

Figure 2-3 Supplies Status screen



Device Configuration

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



Figure 2-4 Device Configuration screen

Network Summary

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

	FX			
Devices	PP LaserJet Action Provide the second	Ready 192 168 0.10 255 255 255 0 192 168 0.1 Manually configured 0.0.0 00:00:00 (days:hours:minutes) 192 68 0.200 Ready FE80.0.0.0:21B:78FF:FE26:53B	Shop for Supplies	
 HP Instant Support Support and Troubleshooting Product Registration 	Network Identification Host name: Domain name (IPv4/IPv6): Domain name (IPv6 only): Bonjour Service name: Bonjour Domain name:	NPI260538 NPI260538 NPI260538 HP LaserJet NPI260538.local.		

Figure 2-5 Network Summary screen

Print Info Pages

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

Figure 2-6 Print Info Pages screen



The contents of these reports are generated by the product firmware, not by HP ToolboxFX.

Event Log

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

vices	膏 HP La	serJet			
🛅 Known Printers	8				Shop for S <u>u</u> pplies
HP LaserJet E Status	Event	Log			
💼 Device Status	Number	Code	Page count	Description	
E Supplies Status	10	13.0000	16	Paper Jam	
Device Configuration	9	13.0000	16	Paper Jam	
Network Summary	8	13.0000	16	Paper Jam	
Print Info Pages	7	13.0000	16	Paper Jam	
🖹 Event Log	6	13.0000	16	Paper Jam	
🗉 🚞 Alerts	5	13.0000	16	Paper Jam	
🗉 🛅 Help	4	13.0000	16	Paper Jam	
🗉 🚞 Device Settings	3	13.0000	16	Paper Jam	
🗉 🚞 Network Settings	2	13.0000	16	Paper Jam	
	1	13.0000	16	Paper Jam	
er Links					
HP Instant Support					
Support and Troubleshooting					

Figure 2-7 Event Log screen

Alerts folder

The Alerts folder contains the following sub-folders:

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

Set up Status Alerts

Use the **Set up Status Alerts** screen to set up status alerts for the product. Select the **Turn on alerts** option, and then click **Apply** to turn on alerts.

Figure 2-8 Set up Status Alerts screen

MP ToolboxFX		<u></u>
👘 HP Toolbox	FX	
Devices	👕 HP LaserJet	
🗉 🛅 Known Printers	E Ø	Shop for Supplies ?
■ ₩ HP LaserJet ■ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡	Set up Status Alerts	
E Alerts	Alerts are sent only when the device is pr	inting from this computer.
 Set up E-mail Alerts Help Device Settings Network Settings 	Alerts Switch: Turn on alerts Turn off alerts	
	Show an alert: When the device cannot grint (for exa When the HP print cartridge is low or	mple, the device is out of paper) a non-HP cartridge is installed
<	CShow the alert:	
Other Links	✓ As a pop-up message	
🖶 HP Instant Support	As a system tray icon	
Support and Troubleshooting		
Product Registration		
		Арріу

Select the options under **Show an alert** to receive alerts for product or print cartridge issues. Select one or more alert formats under **Show the alert**.

- Pop-up message
- System tray icon

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

Set up E-mail Alerts

Use the Set up E-mail Alerts screen to set up e-mail alerts for the product.

And
) for Supplies ?
~

Figure 2-9 Set up E-mail Alerts screen – 1 of 2

Figure 2-10 Set up E-mail Alerts screen – 2 of 2



E-mail messages can be sent when certain events occur at the product. Select the specific events for which you want notification.

To use this feature, use a valid e-mail address, select the events for which you want notification, configure the SNMP e-mail server that will be used to send the e-mail message, and then click **Apply** to save the settings.

Up to two e-mail addresses can be configured to receive separate e-mail messages for separate events.

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

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

Help folder

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

- <u>Troubleshooting</u>
- <u>User Guide</u>

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

Troubleshooting

Figure 2-11 Troubleshooting sub-folder

🇆 HP ToolboxFX		
HP Toolbox	FX	
Devices	🖶 HP LaserJet	
- E Known Printers		Shop for Supplies
B HP LaserJet		
	Troubleshooting	
Alerts	Troubleshoot a problem	
🖃 🔚 Help		
🔛 User Guide	Click the "Troubleshooting" button below fr	or assistance when you are experiencing problems.
■ E Device Settings		
🗉 🚞 Network Settings		
	<u>T</u> roubleshooting	
	Olaanin n Bana	
	Cleaning Page	
	Click the "Clean" button below to clean yo	ur product's paper path.
<		
	<u>C</u> lean	
Other Links		
HP Instant Support		
Support and Troubleshooting		
Product Registration		

Click **Troubleshooting** on the **Troubleshooting** screen to gain access to the "Solve problems" chapter of the user guide.

User Guide

🗆 HP ToolboxFX **HP** ToolboxFX 🖶 HP LaserJet Device: 8 0 Shop for S<u>u</u>pplies E Known Printers 😑 😽 HP LaserJet User Guide 🗉 🚞 Status 🗉 🚞 Alerts 🖃 🚞 Help Interactive Version 🖹 Troubleshooting 📄 User Guide To view the user guide in a format that is similar to a Web-page format, click "Interactive User Guide". This version might also be a good choice for people who use screen-reader software. Click this button to open a dialog box. Follow the instructions in that dialog box to open the file. 🗉 🚞 Device Settings ■ ■ Network Settings From your Windows desktop, you may also view the user guide by clicking the windows 'Start' button, and selecting the 'User Guide' item from under your product's 'Program' group. Interactive User Guide Printer-Friendly Version < To view the user guide in a format that is best for printing, click the "Printer-Friendly User Guide". This is the best format for Macintosh users. This opens a new window that contains a guide in the PDF file format. Other Links Note: You might need to download the Adobe ® Acrobat ® reader to view the printable version of the user guide. HP Instant Support Support and Troubleshooting Click here for more details. Product Registration Printer-Friendly User Guide

Figure 2-12 User Guide sub-folder

Use the **User Guide** screen to open the product user guide in either a Web-based format or in the PDF file format.

Device Settings folder

The Device Settings folder contains the following sub-folders:

- Device Information
- Paper Handling
- <u>Printing</u>
- <u>PCL5</u>
- PostScript
- Print Quality
- Paper Types
- System Setup
- Password

Device Information

Use the **Device Information** screen to add or change information about the product.

Figure 2-13 Device Information screen

HP ToolboxFX		
HP Toolbox	FX	
Devices	冒 HP LaserJet	
∃ 🛅 Known Printers		Shop for Supplies ?
HP LaserJet Status	Device Information	
a	Device description: HP LaserJet Asset number:	
 PostScript Print Quality Paper Types System Setup Password Network Settings 		
Cther Links		
 HP Instant Support Support and Troubleshooting Product Registration 		
		Apply

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

Paper Handling

Use the **Paper Handling** screen to change the paper-handling defaults for the product.

	FX		
Devices	冒 HP LaserJet		
a 🔚 Known Printers	E 🞯		Shop for Supplies ?
■ ➡ HP LaserJet ■ ➡ ➡ ➡ Status	Paper Handling		
	Paper Handling:		
🗉 🚞 Device Settings	Default paper size:	Letter	×
Device Information Paper Handling	Default paper type:	Plain	~
Printing	Manual feed:	Off 👻	
PostScript	Print on both sides (duplex):	Off 👻	
Print Quality	Bind:	Long Edge 🚽	
System Setup	Tray 1 size:	Any	~
⊨ Password	Tray 1 type:	Any	~
	Tray 2 size:	Any	×
	Tray 2 type:	Any	~
<	Paper Out Handling		
Other Links	Wait for paper to be loaded	1	
	O Specify time and action		
🖶 HP Instant Support	Paper out time:	0 seconds (0 - 3600)	
Support and Troubleshooting	Paper out action:	Cancel	
Product Registration			
			Арріу

Figure 2-14 Paper Handling screen

Printing

Use the **Printing** screen to change the product printing defaults.

Figure 2-15 Printing screen

🛸 HP ToolboxFX				
	FX			And a second sec
Devices	📳 HP LaserJe	t		
a 🛅 Known Printers	E 🔗		Shop for S <u>u</u> pplies	?
😑 🕞 HP LaserJet	Dist			
🗉 🛅 Status	Printing			
Alerts Help	Copies:	1 (1 - 999)		
🗉 🛅 Device Settings	Wide A4:	No		
Device Information	Courier feet			
Printing	Courier tonic	Regular		
PCL5	Orientation:	Portrait 🖌		
B PostScript				
🔛 Print Quality				
System Setup				
Password				
🗉 🔚 Network Settings				
Other Links				
HPInstant Support				
Support and Troubleshooting				
Product Registration	1			
			i	<u>A</u> pply

PCL5

Use the PCL5 screen to change the PCL defaults for the product.



Figure 2-16 PCL5 screen

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

PostScript

Use the **PostScript** screen to change the PostScript defaults for the product.

Figure 2-17 PostScript screen

	=X			J
Devices ⇒ È Known Printers ⇒ HP LaserJet ⇒ Status ⇒ Alerts	HP LaserJet		Shop for Supplies	?
	Print PostScript errors:	Off		

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

Print Quality

Use the **Print Quality** screen to change the print-quality defaults for the product.

Figure 2-18 Print Quality screen

MP ToolboxFX				
hP Toolbox	FX			
Devices	膏 HP LaserJet			
a 🛅 Known Printers	E Ø		Shop for S <u>u</u> pplies	?
■ ➡ HP LaserJet ■ ➡ Status	Print Quality			
Help	Resolution:	FastRes 1200 🗸		
⊟ ➡ Device Settings	RET:	On 🖌		
🖻 Paper Handling	Print Density:	3 💌		
PCL5	Economode:	Off 🖌		
🖹 PostScript				
🖹 Paper Types				
🖹 System Setup 🖹 Password				
🗉 🚞 Network Settings				
×				
Other Links				
HP Instant Support				
Support and Troubleshooting				
Product Registration				
			<u>A</u> p	ply

Paper Types

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

	(FX		
Devices	🖶 HP LaserJet		
a 🔚 Known Printers			Shop for Supplies ?
HP LaserJet E Status	Paper Types		
E Alerts	i apoi i jpoc		
🗃 🛅 Help	Plain:	Normal Mode	×
Device Settings	Light:	Light Mode	~
Paper Handling	Mid-Weight 96-110g:	Heavy Mode	×
Printing	Heavy:	Cardstock Mode	*
 PostScript Print Quality Paper Types System Setup Pacsword 	Extra Heavy:	Cardstock Mode	*
	Bond:	Heavy Mode	*
	Color:	Normal Mode	*
🖬 🚞 Network Settings	Letterhead:	Normal Mode	*
	Preprinted:	Normal Mode	*
	Prepunched:	Normal Mode	*
	Recycled:	Normal Mode	*
< <u>></u>	Labels:	Label Mode	*
Other Links	Envelope:	Envelope Mode	*
E UR lastest Present	Rough:	Heavy Mode	*
Support and Troubleshooting	Transparency:	Transparency Mode	*
Product Registration	Restore modes		
			<u>A</u> pply

Figure 2-19 Paper Types screen

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

The following table shows the paper types that the product supports, and the default fuser mode for each type.

Table 2-1	Standard	print	modes
-----------	----------	-------	-------

Standard print modes	Extended print modes	Sensor correlation prefix	Default paper types
Normal Mode	None	PlainFull	Plain, Light, Bond, Color, Letterhead, Preprinted, Prepunched, Recycled
Heavy Mode	None	PlainHalf	Mid-Weight, Heavy, Extra Heavy, Bond, Color, Letterhead, Preprinted, Prepunched, Recycled, Labels, Envelope, Rough
Cardstock Mode	None	PlainHalf	Plain, Mid-Weight, Heavy, Extra Heavy, Bond, Color, Letterhead, Preprinted, Prepunched, Recycled, Labels, Rough
Light Mode	None	PlainFull	Plain, Light, Color, Letterhead, Preprinted, Prepunched, Recycled, Transparency

Table 2-1 Standard print modes (continued)

Standard print modes	Extended print modes	Sensor correlation prefix	Default paper types
Transparency Mode	None	Glossy	Plain, Light, Color, Letterhead, Preprinted, Prepunched, Recycled, Transparency
Label Mode	None	PlainHalf	Plain, Color, Letterhead, Preprinted, Prepunched, Recycled, Labels
Envelope Mode	None	PlainHalf	Plain, Color, Letterhead, Preprinted, Prepunched, Recycled, Envelope

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

System Setup

Use the System Setup screen to change the system defaults for the product.

Figure 2-20 System Setup screen

HP ToolboxFX						
HP Toolbo	κFX					
Devices	冒 HP LaserJet					
🗉 🔚 Known Printers		Shop for Supplies ?				
HP LaserJet E Status	System Setup					
e III Aleris	Note: All of the settings on this page your device.	Note: All of the settings on this page apply to all print jobs processed by your device.				
 Device Information Paper Handling Printing 	Jam recovery:	Auto				
PCL5	Auto continue: Connection time-out (I/O):	Off Seconds (5 - 7200)				
 Print Quality Paper Types System Setup Password 	Cartridge low threshold:	10 % (1 - 20)				
Network Settings						
Other Links						
HP Instant Support						
Support and Troubleshooting						
Product Registration						
		Дрріу				

The following Jam recovery settings are available:

- Auto (default)
- On
- Off

The following Auto continue settings are available:

- On
- Off (default)

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

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

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

Password

Use the **Password** screen to set a password for the product.

Figure 2-21 Password screen

HP ToolboxFX					. 6 🛛
HP Toolbox	FX				
Devices	📳 HP LaserJet				
a 🛅 Known Printers	2 8			Shop for S <u>u</u> pplies	?
■ IP LaserJet ■ I Status	Password				
 Alerts Alerts Device Settings Device Information Paper Handling Portug PCL5 PostScript Point Quality Paper Types System Setup Password Network Settings 	Use the fields below to can access and chang Password: Confirm password:	set or change the password for this e most settings. To disable the pass	device. When set, this passw sword, leave the entries blank,	ord will be required before you and click "Apply".	1
Other Links					
HP Instant Support					
 Support and Troubleshooting Product Registration 					
				Арр	ly

Network administrators can set user passwords to protect network settings. After a password is set, only users who know the password have access to the **Network Settings** folder. If a password has been set, users are prompted to type the password. If the typed-in password matches the password stored in the product, users can navigate through the **Network Settings** screens and make changes to the settings. Users who do not type the correct password within three attempts are not allowed access to the **Network Settings** screens.

If the password is lost or forgotten, the factory settings for the product must be restored and a new password assigned.

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

Network Settings folder

Network models contain onboard networking support. They do not require the use of an external Jetdirect box for network connectivity. Use the **Network Settings** options to configure the network settings for the product.

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

- Network Summary
- IPv4 Configuration
- IPv6 Configuration
- Network Identification
- Advanced
- <u>SNMP</u>

 \triangle **CAUTION:** Changing network settings can cause communication problems between HP ToolboxFX and the product.

Network Summary

The **Network Summary** screen shows the overall network settings, which can be adjusted on the **Network Settings** sub-folders.

Figure 2-22 Network Summary screen (1 of 3)





Figure 2-23 Network Summary screen (2 of 3)

Figure 2-24 Network Summary screen (3 of 3)



IPv4 Configuration

The **IPv4 Configuration** screen shows the settings for IPv4 network configuration. After changing these settings, click **Apply** to save the changes. The product is restarted after the settings are changed.

Figure 2-25 IPv4 Configuration screen

	κFX		
Devices	HP LaserJet		Shop for Supplies
■ HP LaserJet ■ Estatus	IPv4 Configurati	on	
■	IPv4 enabled IP configured by:	Manually configured	<u>^</u>
Network Settings Network Summary Network Summary	Host name:	NPI26053B	Manually configured
E IPv6 Configuration Network Identification Advanced SNMP	IP Address Configuration Warning: Changes to th device.	ese settings may result in l	loss of connectivity with the
	Automatic IP DHCP BOOTP AUTOIP	⊙ Manual IP	
Cother Links Cother Links HP Instant Support Support and Troubleshooting Product Registration	IP address; Subnet mask Default gateway; WINS server	192 168 0 255 255 255 192 168 0 192 68 0	10 1 1 200

The **IPv4 Configuration** screen shows the product host name and domain. By default, the product uses automatic IP configuration. Use this screen to configure the IP address manually.

The following IP Address Configuration options are available:

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

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

IPv6 Configuration

The IPv6 Configuration screen shows the settings for IPv6 network configuration.

Figure 2-26 IPv6 Configuration screen

HP Toolbo	xFX						YUL	
evices	📄 HP L	aserJet						
🗎 Known Printers		3					Shop for S <u>u</u> pplies	
■ ➡ HP LaserJet ■ ➡ Status	IPv6	Configuration						
Alerts		anabled						
Berp Device Settings	Host	t name:	NPI260	53B	Manually c	onfigured		
Network Settings Network Summary IPv4 Configuration	Dom	ain name:			Manually c	onfigured		
IPv6 Configuration	IPv6 Add	resses						
Network Identification	Config by	Address value	Prefix length	Preferred lifetime *	Valid lifetime *			
Advanced	Link-Local	FE80:0:0:0:21B:78FF:FE26:53B	64	00:00:00	00:00:00	1		
	* Lifetim	e format: Days:Hours:Minutes	2					
ther Links								
HP Instant Support								
Support and Troubleshooting								
Product Registration								

The **IPv6 Configuration** screen shows the product host name and domain. By default, the product uses automatic IP configuration.

Network Identification

The Network Identification screen shows the settings for IPv6 network configuration.

🕸 HP ToolboxFX					- 6
	FX				and a set of the set o
Devices	👕 HP LaserJet				
a 🗃 Known Printers	2 8			Shop for Supplies	2
HP LaserJet He LaserJet	Network Identific	cation			
Alerts	Current Settings		_		~
🗉 🗃 Help	Host name:	NPI26053B		Manually configured	
Elimon Settings	Domain name (IPv4/IPv6):	1		Manually configured	_
Network Summary	Domain name (IPv6 only):			Manually configured	
Pv6 Configuration	Bonjour Service name:	HP LaserJet			
Network Identification	Bonjour Domain name:	NPI26053B.local.			
SNMP	Host name Priority Options				
	Ouse BOOTP, manual, or	default supplied Host	name		
	○ Use DHCPv4 supplied Ho	ost name			
	○ Use DHCPv6 supplied Ho	ost name			
	Available Host names / Doma	in names (information or	ly)		
۲ ک	Default Host name:		NPI26053B		
Other Links	BOOTP/DHCPv4 supplie	d Host name:	Not set		
	BOOTP/DHCPv4 supplie	d Domain name:	NPI26053B		
🖶 HP Instant Support	DHCPv6 supplied Host na	ame:	Not set		
Support and Troubleshooting	DHCPv6 supplied Domain	n name:	Not set		_
Product Registration					
	Restore all Host name a	nd Domain name set	tings to their default	values	~

Figure 2-27 Network Identification screen

The Network Identification screen shows the product host and domain name settings.

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

Advanced

Use the **Advanced** screen to set advanced networking features for the product.

Figure 2-28 Advanced screen

	рхFX		
Devices	HP LaserJet	Shon for Supplies	2
Known Printers HP LaserJet Electronic Status El	Advanced	and or addition	
	Warning: Changes to the device.	se settings may result in loss of connectivity with the	
Network Summary	Enabled Features		
 IPv4 Configuration IPv6 Configuration Network Identification 	✓ LPD Printing		
Advanced		💟 Bonjour	
		V DHCPv6	
	Other Settings		
	Restore all network settings	s to their factory default values	
Other Links			
HP Instant Support			
Support and Troubleshooting			
Product Registration			
		Арри	

The following options and settings are available on the **Advanced** screen.

- HP SLP Discovery (enabled by default)
- LPD Printing (enabled by default)
- IPv4
- IPv6
- Bonjour
- DHCPv6

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

SNMP

Use the **SNMP** screen to set SNMP networking features for the product.

Figure 2-29 SNMP s	creen	
	=x	
Devices Known Printers Known	HP LaserJet Image: Simple Warning: Changing these settings can potentially disrupt network functionality. Image: Enable SNMP v1 read-write access Image: Enable SNMP v1 read-only access Image: Disable SNMP v1 Set Community name: Confirm Set Community name: Get Community name: Confirm Get Community name: Image: Disable SNMP v1 default Get Community name of "public"	Shop for Supplies
		Apply

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

- Enable SNMP v1 read-write access. Select this option to enable SNMP V1 agents on the product. Custom community names can be configured to control management access to the product.
 - **Set Community name:** Type the SNMP Set Community Name (password) to allow SNMP information to be configured (or written) on the product.
 - **Confirm Set Community name:** Retype the SNMP Set Community Name (password) to allow SNMP information to be configured (or written) on the product.
 - **Get Community name:** Type the SNMP Get Community Name (password) to allow SNMP information to be read from the product.
 - **Confirm Get Community name:** Retype the SNMP Get Community Name (password) to allow SNMP information to be read from the product.
 - **Disable SNMP v1 default Get Community name of "public"**. Select this option to disable the default Get community name "public". If you select this option, type the appropriate values into the **Get Community name** and **Confirm Get Community name** fields.
- Enable SNMP v1 read-only access. Select this option to enable the SNMP V1 agents on the product, but limit access to read-only. Write-access is disabled. The default **Get Community** name "public" is automatically enabled.
- Disable SNMP v1. Select this option to disable the SNMP V1 agents on the product, which is
 recommended for secure environments. If SNMP V1 is disabled, some port monitors or discovery
 utilities might not operate properly.

NOTE: Click Apply to make the changes take effect.

Other screens

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

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

About HP ToolboxFX dialog box

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

Figure 2-30 About HP ToolboxFX dialog box

About HP ToolboxFX	
HP ToolboxFX version: 004.014.00150	<u>^</u>
(c) 2004-2006 Copyright Hewlett-Packard Development Company, L.P.	
HP LaserJet - version 001.105.00098 Product serial number: M7000TM Firmware datecode: 20080222	
	~
	ок

HP Instant Support

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

Support and Troubleshooting

The **Support and Troubleshooting** link connects you to a Web page that contains links to online support for the product.

Product Registration

The Product Registration link connects you to a Web page where you can register the product.

Supplies Ordering

The **Supplies Ordering** link connects to a Web page that helps you order supplies online from a reseller of your choice. The product supplies are pre-selected. Change quantities or select additional items. The items are dropped into the shopping cart, ready for checkout, ensuring that the correct supplies are ordered through the selected reseller.

HP Embedded Web Server

The HP Embedded Web Server (HP EWS) is a Web-based 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 **Network Configuration** screen in HP ToolboxFX.

NOTE: If the product is connected to the computer through the USB port, you do not have access to the HP EWS interface. However, most of the information that appears in HP EWS can be viewed by using the HP ToolboxFX interface. For more information, see <u>HP ToolboxFX on page 20</u>.

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 Configuration page
- Print Information Pages
- Event Log page

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 2-31 HP E	EWS-Device Status p	bage		
🧑 HP LaserJet				
HP LaserJet 192.168.0.10				
Status Settings	Networking			
Device Status Supplies Status Device Configuration	Device Status Device Status			Shop for Supplies Product Support
Network Summary Print Information Pages Event Log	Jam in Status: Cartridge area Open door and clear jam			
	Supplies Summary			
	Supply Black Certridge	Level 0%	Order HP Part: CE505A	Approximate Pages Remaining 0 Supplies Detail

Figure 2-31 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 2-32 HP EWS–Supplies Status page

MP LaserJet	
HP LaserJet 192.168.0.10 Status Settings	Networking
Device Status Supplies Status	Supplies Status Product Support
Device Configuration Network Summary Print Information Pages Event Log	Ordering Information Hewlett-Packard supples can be ordered on the internet, on-line through your printer software or by calling an authorized reseller. Refer to your printer User Guide for instructions. Image: Status Catringe Status Catringe Order HP Part: CESSA Unable for read outridge data. Any printer repair required as a result of using catringes with unreadable catringe data is not covered under warrany. Supply status and features depending on supply status with not be available. Return & Recycling Please return your genuine HP supples for recycling to Hewlett-Packard. For more information, please visit us at http://www.hp.com/go/recycle

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 2-33 HP I	EWS–Device Config	guration page (1	of 2)	
HP LaserJet				
HP LaserJet 192.168.0.10				
Status Settings	Networking			
Device Status Supplies Status	Device Configuration		Shop for Supplies	Product Support
Device Configuration	Product Information			
Network Summary Print Information Pages Event Log	Product Name: Formatter Number: Product Serial Number: Service ID Firmware Datecode: Max Print Quality Controller Number Device Description Language A set Number Company Name Contact Person Hardware Address IP Address Total Memory: Available Memory:	HP LaserJet M7000TM 18015 20080222 Profes 1200 26 HP LaserJet English 192.168.0.10 128.MBytes		
	Installed Personalities and Options PCLSe PostScript PCLXL DIMM Slot Paper size Total Pages Printed Duplex Pages Printed Pages Mispicked in Printer Pages Printed PS Pages Printed PS Pages Printed PCL Pages Printed	16 0 17 12 0 4		

F

Figure 2-34 HP EWS–Device Configuration page (2 of 2)

PCL6 Pages Printed	12	
PS Pages Printed	0	
PCL Pages Printed	4	
Paper Settings		
Paper size	Letter	
Default Paper Type	Plain	
Manual feed	Off	
Duplex	Off	
Bind	Long Edge	
Plain	Normal	
Light 60-74g	Light	
Heavy 111-130g	Card stock	
Mid-Weight 96-110g	Heavy	
Bond	Heavy	
Colored	Normal	
Preprinted	Normal	
Letterhead	Normal	
Prepunched	Normal	
Recycled	Normal	
Labels	Label	
Envelope	Envelope	
Rough	Heavy	
Transparency	Transparency	
Print Settings		
Auto Continue	Off	
Courier Font	Regular	
Monochrome RET	On	
Wide A4	No	
Print Density	3	
IO Timeout	120	
Jam Recovery	Auto	
Font Source	I (Internal)	
Form Length	60 Lines	
Append CR to LF	No	

Network Configuration page

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

HP Laser.let		
HP LaserJet 192.168.0.10	Hadavashina	
status setungs	wetworking	
Device Status Supplies Status	Network Configuration	Shop for Supplies Product Support
Device Configuration	Network Hardware Configuration	
Network Summary		
Print Information Pages	Status:	Ready
Event Log	Hardware Address:	
	Firmware Datecode:	20080222
	Link Speed and Duplex Negotiation:	Auto 100TX Full
	Duplex:	Full
	Automatic Crossover:	Enabled
	Connection Timeout (I/O):	120
	Enabled Features	
	Password	Not Specified
	DHCP	Disabled
	AUTOP	Disabled
	LPD Printing:	Enabled
	Bonjour:	Enabled
	HP SLP:	Enabled
	SNMP	Enabled
	ТСРЛР	
	Host Name:	
	Domain Name:	
	Bonjour printer name:	HP LaserJet 192 168 0 10
	IP Subnet Mask:	255.255.255.0
	IP Default Gateway:	192 168 D 1
Elevine 2.26 LID	TMC Notwork Config	(2 of 2)
Figure 2-36 HP	P EWS–Network Config Enabled Features	guration page (2 of 2)
Figure 2-36 HP	P EWS–Network Config Enabled Features Password	guration page (2 of 2)
Figure 2-36 HP	P EWS-Network Config Password DHCP	guration page (2 of 2) Not Specified Disabled
Figure 2-36 HP	P EWS-Network Config Fnabled Features Password DRCP BOOTP BOOTP	guration page (2 of 2) Not Specified Disabled Disabled Disabled
Figure 2-36 HP	P EWS-Network Config Enabled Features Password DiccP BOOTP AUTOIP LPD Printing:	guration page (2 of 2) Not Specified Disabled Disabled Disabled Enabled
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOIP LPD Printing: Bonjour:	guration page (2 of 2) Not Specified Disabled Disabled Enabled Enabled
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP:	guration page (2 of 2) Not Specified Disabled Disabled Enabled Enabled Enabled Enabled
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SMMP	guration page (2 of 2) Not Specified Disabled Disabled Enabled Enable
Figure 2-36 HP	P EWS-Network Config Fnabled Features Password DHCP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP	guration page (2 of 2) Not Specified Disabled Disabled Disabled Enabled Enabled Enabled Enabled
Figure 2-36 HP	P EWS-Network Config Password DRCP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name:	guration page (2 of 2) Not Specified Disabled Disabled Enabled Enabled Enabled Enabled Enabled NP200538
Figure 2-36 HP	P EWS-Network Config Fnabled Features Password DiccP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SIMP TCPIP Host Name: Domain Name:	guration page (2 of 2) Not Specified Disabled Disabled Disabled Enabled Enabled Enabled Enabled NPQ60538 NPQ60538
Figure 2-36 HP	P EWS-Network Config Fnabled Features Password DHCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SMMP TCP/IP Host Name: Bonjour printer name: Bonjour printer name: IPVA dridress	guration page (2 of 2) Not Specified Disabled Disabled Disabled Enabled Enabled Enabled NPQ260538 NPQ200538 HPLaserJet 1292180110
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SMMP TCPIP Host Name: Domain Name: Bonjour printer name: IP4 Address IP Subret Mask: IP Subret Mask:	guration page (2 of 2) Not Specified Disabled Disabled Disabled Enabled Enabl
Figure 2-36 HP	P EWS-Network Config Password DCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Subnet Mask: IP Default Gateway:	Not Specified Disabled Disabled Disabled Enabl
Figure 2-36 HP	P EWS-Network Config Password DRCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Subnet Mask: IP Default Gateway: IP Configured By: WIME Score P	Auruation page (2 of 2)
Figure 2-36 HP	P EWS-Network Config Password DRCP BOOTP AUTOP LED Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Bonjour printer name: IP4 Address IP Subnet Mask: IP Defut Gateway: IP Configured By: WIIIS Server:	Not Specified Disabled Disabled Disabled Enabled Enabled Enabled Enabled Second MP200538 NP200538 NP200538 NP200538 HP LaserJet 192:080.10 255.255.255.0 192:190.11 Manual 192:080.201
Figure 2-36 HP	P EWS-Network Config Fabled Features Password DHCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Bonjour printer name: IPV Address IP Subnet Mask: IP Default Gateway: IP Configured by: WINS Server: SIMP	Auration page (2 of 2)
Figure 2-36 HP	P EWS-Network Config Emailed Features Password DHCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCPAP Host Name: Domain Name: Bonjour printer name: HPV4 Address IP Subnet Mask: IP Default Gateway: IP Default Gateway: I	A provide the second se
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SMMP TCPIP Host Name: Domain Name: Bonjour printer name: IP-4 Address IP Subtet Mask: IP Default Gateway: IP Default Gateway: IP Configured By: WIMS Server: SMMP Status SMMP Version Set Computity Name	Average of the second of the second s
Figure 2-36 HP	P EWS-Network Config Password DCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMMP TCP/IP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Subret Mask: IP Default Gateway: IP Configured By: WIIIS Server: SIMP Status SIMP Version Set Community Name Get Community Name	Avi Specified (Defaults to public)
Figure 2-36 HP	P EWS-Network Config Password DCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Status IP Configured By: WINS Server: SIMP Satus SIMP Satus SIMP Satus SIMP Version Set Community Name Get Community Name	Not Specified Disabled Disabled Disabled Enabl
Figure 2-36 HP	P EWS-Network Config Password Password DrCP Borjour: HP SLP: SIMP TCPIP Host Name: Domain Name: Borjour: HP SLP: SIMP TCPIP Host Name: Borjour: HP Subret Mask: IP Default Gateway: IP Configured by: WIIIS Server: SIMP Status SIMP Status SIMP Status SIMP Version Set Community Name Get Community Name Get Community Name	Autor Access Enabled 192.188.0.201 Read Write Access Enabled 192.88.0.201 Read Write Access Enabled 192.188.0.10 192.188.0.188.0.10 192
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCPAP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Subnet Mask: IP Default Gateway: IP Configured By: WINS Server: SIMP Status SIMP Status SIMP Status SIMP Version Set Community Name Get Community Name Get Community Name	Average (2 of 2)
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOIP LPD Printing: Bonjour: HP SLP: SIMP TCPIP Host Name: Domain Name: Bonjour printer name: IP-4 Address IP Subret Mask: IP Default Gateway: IP Default Gateway: IP Configured By: VWIS Server: SIMMP Status SIMMP Status SIMMP Version Set Community Name Get Community Name Get Community Name Hetwork Statistics Total Packets Received: Uncast Packets Received: Bad Packets Received: Bad Packets Received:	Auration page (2 of 2)
Figure 2-36 HP	P EWS-Network Config Password Password DRCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SMMP TCPIP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Subnet Mask: IP Default Gateway: IP Configured By: WINS Server: SMMP Status SIMP Status SIMP Version Set Community Name Get Community Name Get Community Name Hetwork Statistics Total Packets Received: Bad Packets Received:	Average and the second
Figure 2-36 HP	P EWS-Network Config Password Password DCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Domain Name: Bonjour: HP SLP: SIMP TCP/IP Host Name: Domain Name: Domain Name: Bonjour: HP Status SIMP Status Status SIMP Status SIM	Auration page (2 of 2)
Figure 2-36 HP	P EWS-Network Config Password DHCP BOOTP AUTOP LPD Printing: Bonjour: HP SLP: SIMP TCPHP Host Name: Domain Name: Bonjour printer name: IPV4 Address IP Subnet Mask: IP Default Gateway: IP Configured By: Will S Server: SIMP Status SIMP Community Name Get Community Name Get Community Name Status	Average of the second s

Figure 2-35 HP EWS–Network Configuration page (1 of 2)
Print Information Pages

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

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

Figure 2-37 HP EWS–Print Information Pages page

HP LaserJet		
HP LaserJet 192.168.0.10 Status Settings	Networking	
Device Status Supplies Status	Print Information Pages	Shop for Supplies Product Support
Device Configuration Network Summary	Print PCL Font List Print	
Print Information Pages	Print PCL6 Font List Print	
Event Log	Print PS Font List Print	
	Print Supplies Page Print	

Event Log page

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

Figure 2-38	HP EWS–Event Log page	

(b) HP LaserJet				
HP LaserJet 192.168.0.10				
Status Settings	Networking			
Device Status Supplies Status	Event Log		Shop for Supplies Product Support	
Device Configuration	Number	Code	Page	
Network Summary Print Information Pages	10	13.0000	16	
Event Log	9	13.0000	16	
	8	13.0000	16	
	7	13.0000	16	
	6	13.0000	16	
	5	13.0000	16	
	4	13.0000	16	
	3	13.0000	16	
	2	13.0000	16	
	1	13.0000	16	

Settings tab

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

- <u>Device Configuration page</u>
- Paper Handling page
- Printing page
- PCL5e page
- PostScript page

- Print Quality page
- Paper Types page
- System Setup page
- <u>Service page</u>

Device Configuration page

The **Device Configuration** page contains identifying information about the product.

Figure 2-39 HP EWS–Device Configuration page

MP LaserJet		
HP LaserJet 192.168.0.10 Status Settings	Networking	
Device Configuration Paper Handling Printing PCLSe PostScript Print Quality Paper Types System Setup	Device Information Device Description Asset Number Company Name Contact Person	Shop for Supplies Product Support
Service		Apply Cancel

Paper Handling page

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

HP LaserJet		
HP LaserJet 192.168.0.10 Status Settings	Networking	
Device Configuration Paper Handling	Paper Handling	Shop for Supplies Product Support
ProtiSe PotiSe PotiScript Print Quality Paper Types System Setup Service	Default Paper Randolling Default Paper Size Manual feed Duplex Bind Tray 1 Size	Letter Plain Plain Off Off Conf Long Edge Any size
	Tray 1 Type Tray 2 Size Tray 2 Type Paper Out Handling	Any Type
	Wait For Paper To Be Loaded Specify Time and Action Paper Out Time Paper Out Action	15 Seconds (0 - 3600) Cancel v
		Apply Cancel

Figure 2-40 HP EWS–Paper Handling page

Printing page

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

Figure 2-41 HP EWS–Printing page

(b) HP LaserJet			
HP LaserJet 192.168.0.10 Status Settings	Networking		
Device Configuration Paper Handling	Print Settings		Shop for Supplies Product Support
Printing	Print Settings		
PCLSe PostScript Print Quality Paper Types System Setup Service	Copies Wide A4 Courier Font Orientation	1 (1 - 999) No V Regular V P (Portrat) V	
			Apply Cancel

PCL5e page

Use the PCL5e page to change font information and form length.

Figure 2-42 HP	EWS–PCL5e page		
HP LaserJet			
HP LaserJet 192.168.0.10 Status Settings	Networking		
Device Configuration Paper Handling	PCL5e		Shop for Supplies Product Support
Printing PCL5e PostS Pitts PCL5e menu item. Use this to view Print Qfont information.	Font Number Font Pitch w and change the PCLSe	23 (0 - 255) 10.0000 (0.44-99.99) 12.0000 (4-999.75)	
Paper Types System Setup Service	Symbol Set Append CR to LF Form Length	PC-8 V No V 60 (5 - 128)	
			Apply Cancel

PostScript page

Print Quality

Paper Types System Setup Service

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

Figure 2-4	3 HP	EWS–PostScri	pt page	
🧑 HP L	aserJet			
HP LaserJet 192.168	.0.10			
Status	Settings	Networking		
Device Configuration Paper Handling		PostScript		Shop for Sup
Printing PCL5e		Print PS Errors	Off 💙	
PostScript		l		

es Product Sup

Apply Cancel

Print Quality page

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

Figure 2-44 HP EWS–Print Quality page

() HP LaserJe		
HP LaserJet 192.168.0.10		
Status Settings	Networking	
Device Configuration Paper Handling	Print Quality	Shop for Supplies Product Supp
Printing PCL5e PostScript	Resolution: Monochrome RET	FasRes 1200 V On V
Paper Types Paper Types Print Quality menu item. Use t Systeprint quality settings.	Economode his to view and change the	Ott v
Service.		Apply Cane

Paper Types page

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

MP LaserJet			
HP LaserJet 192.168.0.10 Status Settings	Networking		
Paper Handling	Paper Types		Shop for Supplies Product Support
Paning PCLSe PostScript Print Quality Paper Types System Setup Service	Plain: Light 60-74g: Mid-Weight 96-110g: Heavy 111-130g: Extra Heavy 131-175g: Bond: Colored: Preprinted: Letterhead: Prepunched: Recycled: Labels: Envelope: Rough: Transparency: Restore Defaults	Normal V Lipht V Heavy V Card stock V Card stock V Mormal V Normal V Normal V Normal V Normal V Label V Envelope V Heavy V Transparency V	
			Apply Cancel

Figure 2-45 HP EWS–Paper Types page

System Setup page

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

Figure 2-46	HP EWS-System	Setup page
-------------	---------------	------------

() HP LaserJet		
HP LaserJet 192.168.0.10 Status Settings	Networking	
Device Configuration Paper Handling	System Setup	Shop for Supplies Product Support
Printing PCL5e PostScript Print Quality Paper Types	Jam Recovery Auto Continue Connection Timeout (I/O): Cartridge Low Threshold:	Auto Off 120 Seconds (5 - 7200) 10 % (1 - 20)
System Setup Service	Language	English V Apply Cancel

Service page

Use the **Service** page to initiate the cleaning mode on the product.

Figure 2-47 HP E	EWS-Service page
🧑 HP LaserJet	
HP LaserJet 192.168.0.10 Status Settings	Networking
Device Configuration Paper Handling Printing	Service Shop for Supplies Product Support
PCL5e PostScript Print Quality	Begin Cleaning Mode Start (Note: The cleaning mode could take anywhere from 1 to 3 minutes. The device will slowly move one page through the paper path. Please be patient.)
Paper Types System Setup Service	

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:

- <u>TCP/IP Settings page</u>
- Network Settings page
- Other Settings page
- Language page
- Settings page
- <u>Authorization page</u>
- Mgmt. Protocols page
- 802.1X Authentication page
- Firewall Policy page

- Network Statistics page
- Protocol Info page
- Jetdirect Configuration Page

TCP/IP Settings page

Use the TCP/IP Settings page to configure the IP address and host and domain names for the product.

Figure 2-48 HP EWS–TCP/IP Settings page

🌘 HP Las	erJet P20	55dn
NPI7CEA65 / 192.168.0.10		
Status	Settings	Networking
Configuration TCP/IP Settings Other Settings Select Language Security Settings Authorization Mgmt. Protocols 802.1X Authentication Firewall Diagnostics Network Statistics Protocol Info Configuration Page		Support ? Summary Network Identification TCP/IP(v4) TCP/IP(v6) Config Precedence Advanced Host Name : NPI7CEA65 TCP/IP(v4) Settings IPv4 Atdress: 10.10.48.177 Submit Mask: 255.255.25.0 Default Gateway: 10.10.48.1 Config By : Manual TCP/IP(v6) Settings IPv6 Address Prefix length Config By: Manual TCP/IP(v6) Settings IPv6 Address Prefix length Config By: Manual TCP/IP(v6) Settings IPv6 Address Prefix length Config By Valid Lifetime Preferred Lifetime Default Route Information: IPv6 Address IPv6 Address Expires In
		Refresh

Windows software description

Network Settings page

Use the **Network Settings** page to configure the SNMP settings, such as read-write access, for the product.

NPI7CEA65 / 192.168.0.10		
Status Settings	Networking	
Configuration TCP/IP Settings	Network Settings	Support
Network Settings	SNMP	
Other Settings Select Language	SIIMPv1/v2	
Security Settings Authorization Mgmt. Protocols 802.1X Authentication Firewall Diagnostics Network Statistics Protocol Info Configuration Page	Enable SNMPv1/v2 read-write access Set Community Name: Confirm Set Community Name: Get Community Name: Confirm Get Community Name: Disable SNMPv1/v2 default Get Community Name of "public" Enable SNMPv1/v2 read-only access Disable SNMPv1/v2	
	Enable SNMPV3	
	Authentication Key: (Algorithm: MD5)	
	Privacy Key: (Algorithm: DES)	
	Context Name: Jetdirect	
	To enable or change an SNMPv3 setting, values must be entered in all three fields.	

Figure 2-49 HP EWS–Network Settings page

Other Settings page

Use the **Other Settings** page to enable or disable the other settings for the product.

(b) HP LaserJet	P2055dn
INPI7CEA65 / 192.168.0.10 Status Setting Configuration TCP/IP Settings Network Settings Other Settings Comparements Compa	S Networking Other Settings Misc. Settings LPD Queues Support Info Refresh Rate Enabled Features
Security Settings Authorization Mgmt. Protocols 802.1X Authentication Firewall Diagnostics Network Statistics Protocol Info Configuration Page	Image: SLP Config Image: Bonjour Image: Multicast IPv4 Image: State
	Bonjour Settings Bonjour Highest Priority Service: LPD Printing (BINPS)

Figure 2-50 HP EWS–Other Settings page

Language page

Use this page to set the EWS language.

Figure 2-51	ΗP	EWS-Lar	Iguage	page
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MP LaserJet P20	55dn	
NPI7CEA65 / 192.168.0.10		
Status Settings	Networking	
Configuration TCP/IP Settings	Language	Support ?
Network Settings Other Settings	Select a Language English	to be accepted by your browser for language selection
Select Language		to be decepted by your or then any days decement.
Security		
Settings		Apply Cancel
Authorization		
Mgmt. Protocols		
802.1X Authentication		
Firewall		
Diagnostics		
Network Statistics		
Protocol Info		
Configuration Page		

. .

Settings page

Use this page to view, configure, or reset the security settings for the product.

NPI7CEA65 / 192 168.0.10 Status Settings Configuration TCP/IP Settings Network Settings Other Settings Select Language Security	Networking Settings Status Wizard Authorization Administrator Password: Jetdirect Certificate:	Support ? Restore Defaults Not Set
Status Settings Configuration TCP/IP Settings Network Settings Other Settings Select Language Security	Networking Settings Status Wizard Authorization Administrator Password: Jetdirect Certificate:	Restore Defaults
Configuration TCP/IP Settings Network Settings Other Settings Select Language Security	Settings Status Wizard Authorization Administrator Password: Jetdirect Certificate:	Restore Defaults
Network Settings Other Settings Select Language Security	Status Wizard Authorization Administrator Pass word: Jetdirect Certificate:	Restore Defaults
Other Settings Select Language Security	Authorization Administrator Password: Jetdirect Certificate:	Not Set
Select Language Security	Authorization Administrator Password: Jetdirect Certificate:	Not Set
Security	Administrator Password: Jetdirect Certificate:	Not Set
Security	Jetoirect Certificate:	In stallard
	Access Control:	Disabled
Settings		
Authorization	Web Interface	
Mgmt. Protocols	Encrypt All Web Communication:	Disabled
802.1X Authentication	Encryption Strength:	Low (DES-56-bit, RC4-128-bit or 3DES-168-bit)
Firewall	SNMPv1/v2	
Diagnostics	Status:	Enabled
Network Statistics	Get Community Name:	Not Set (Defaults to "public")
Protocol Info	Set Community Name:	Not Set (Defaults to "public")
Protocorinio	SNMPv3	
Configuration Page	Statue:	Disabled
	Status.	
	802.1X Authentication	
	Authentication Type:	Open System (Disabled)
	EAP User Name:	NPI7CEA65
	EAP Password: Server ID:	Not Set
	Corror D.	
	Other Protocols	
	9100 Printing:	Enabled
	LPD Printing: Web Services Print:	Enabled
	SI P Config:	Enabled
	Bonjour:	Enabled
	Multicast IPv4:	Enabled
	WS-Discovery:	Enabled
	Telnet:	Enabled
	LIMNR	Enabled

Figure 2-52 HP EWS–Settings page

Authorization page

Use the **Authorization** page to set the administrator account password, manage certificates, and set access control settings.

6 HP LaserJet	P2055dn
NPI7CEA65 / 192.168.0.10	Networking
Configuration TCP/IP Settings	Authorization Support ?
Network Settings Other Settings Select Language Security Settings	Admin. Account Certificates Access Control Use the fields below to set or change the Administrator Password. When set, the Administrator Password will be required before you can access and change configuration parameters. To disable the Administrator Password, leave the entries blank. Note: You may choose to automatically set the SNIMPv1/v2 Set Community Name to the Administrator Password. If you use HP Web Jetadmin, you will need to provide the Administrator Password as the SNIMP Set Community Name.
Authorization Mgmt. Protocols	User Name: Admin
802.1X Authentication Firewall	Password: Confirm Password:
Diagnostics Network Statistics Protocol Info	Use the Administrator Password as the Set Community Name
Configuration Page	Apply Cancel

Figure 2-53 HP EWS–Authorization page

Mgmt. Protocols page

Use the **Mgmt. Protocols** page to manage Web protocols, SNMP protocols, and other network protocols and services.

(b) HP LaserJet P2	055dn
NPI7CEA65 / 192.168.0.10	
Status Settings	Networking
Configuration TCP/IP Settings	Mgmt. Protocols
Network Settings	Web Mgmt. SNMP Other
Other Settings Select Language Security	You can securely manage the network device using a Web browser and the HTTPS protocol. To authenticate the HP Jetdirect Web Server when HTTPS is used you may configure a certificate. Or you may use the pre-installed, self-signed X.509 Certificate. The encryption strength specifies what ciphers the Web server will use for secure communications.
Authorization	by enabling encryption, the web Server encrypts all web communication, forcing all connections to use in 195. Or, it can be configured to allow both HTTP (unencrypted) or HTTPS connections. In secure environments, you should choose to encrypt all Web communications. Otherwise, sensitive management data (Administrator Password, SIMM Community Names, and
Mgmt. Protocols	secret keys) may be compromised.
802.1X Authentication Firewall	Configure a new certificate: Configure
Diagnostics	Encryption Strength: Low (DES-56-bit, RC4-128-bit or 3DES-168-bit)
Network Statistics	Encrypt All Web Communication
Protocol Info	
Configuration Page	Apply Cancel

Figure 2-54 HP EWS–Mgmt. Protocols page

802.1X Authentication page

Use the 802.1X Authentication page to set the network 802.1X authentication settings.

Figure 2-55	HP EWS-	-802.1X	Authentication	page
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MP Lase	rJet P20	55dn	
NPI7CEA65 / 192.168.0.10			
Status	Settings	Networking	
Configuration TCP/IP Settings		802.1X Authe	ntication support ?
Network Settings Other Settings		WARNING: Use cautio	on when changing the print server's authentication settings; you may lose your connection.
Select Language		Authentication	
Security Settings Authorization Mgmt. Protocols 802.11X Authentication Firewall Diagnostics Network Statistics Protocol Info Configuration Page		Enable Protocols: User Name: Password: Confirm Password: Server ID: Encryption Strength: Jetdirect Certificate: CA Certificate: Authentication Behavio	□ PEAP EAP-TLS NPI7CEA85
			Apply Cancel Restore Defaults

Firewall Policy page

Use the Firewall Policy page to set the network firewall rules.

Figure 2-5	6 HP	EWS-Firewall	Policy	page
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MP LaserJet P20	055dn
NPI7CEA65 / 192.168.0.10	
Status Settings	Networking
Configuration TCP/IP Settings Network Settings	Firewall Policy Support ?
Other Settings Select Language	Enable Firewall
Security Settings Authorization Mgmt. Protocols	Match Criteria Action on Match Rule Enable Address Template Services Template Action 1
802.1X Authentication	
Diagnostics Network Statistics Protocol Info Configuration Page	
	Default Rule All P Addresses All Services Drop V Add Rules Delete Rules Advanced Warning: Changing Firewall settings may result in temporary loss of connection. Apply Cancel

Network Statistics page

Use the **Network Statistics** page to view diagnostic information for the network.

(b) HP LaserJet P	2055dn		
NPI7CEA65 / 192.168.0.10			
Status Settings	Networking		
Configuration TCP/IP Settings	Network Statistics		Support ?
Network Settings Other Settings	General		
Select Language	Hardware Address: HP Jetdirect:	00215A7CEA65 J8017E	
Security	Firmware Version:	V.37.07	
Authorization	Data Rate:	100 Mb/s	
Mgmt. Protocols	Web Browser Refresh Rate:	60 Seconds	
802.1X Authentication	Packets Received		
Firewall	Total Packets Received:	250313	
Diagnostics	Unicast Packets Received:	24758	
Network Statistics	Broadcast Packets Received:	225555	
Proto col Info	Bad Packets Received:	0	
Configuration Page	Packets Transmitted		
	Total Packets Transmitted:	2759	
	Unicast Packets Transmitted:	2458	
	Broadcast Packets Transmitted:	301	
	Transmission Errors:	0	
			Refresh

Figure 2-57 HP EWS–Network Statistics page

Protocol Info page

Use the Protocol Info page to view network protocol information.

Figure 2-58	HP EWS-Protocol	Info page
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MP LaserJet P	2055dn		
NPI7CEA65 / 192.168.0.10 Status Settings Configuration TCP/IP Settings	Networking Protocol Info		Support ?
Network Settings Other Settings Select Language Security Settings Authorization Mgmt. Protocols 802.1X Authentication	TCP/IP SNMP Sysiog Facility: Sysiog Server: Idle Timeout: Number of new connections refused: Number of accesses denied: System Contact: System Location:	LPR Not Specified 90 Seconds	
Firewall Diagnostics Network Statistics Protocol Info Configuration Page			Refresh

Windows software description

Jetdirect Configuration Page

Use the Jetdirect Configuration Page to view the network settings.

7CEA65 / 192.168.0.10				
Status Settings	Networking			
configuration CP/IP Settings	Jetdirect Configuration	Page		Support
letwork Settings	General Inform	ation	TCB/ID	
Other Settings	Statue:	I/O Card Ready	T Dur4 -	Enabled
elect Language	Status.	170 Calu Keauy	TPv6.	Disabled
	Model Number:	J8017E	Host Name:	NPI7CEA65
scurity	Hardware Address:	00215A7CEA65	IPv4 Domain Name:	sakson.corp
ettings	Firmware Version:	V.37.07.SD	IPv6 Domain Name:	Not Specified
uthorization	Port Config:	100TX FULL	Primary DNS Server:	10.10.48.15
amt Protocols	Auto Negotiation:	On	Secondary DNS Server:	10.10.46.34
	Manufacturing ID:	*******01****	DNS(IPv6):	
02.1X Authentication	Date Manufactured:	XX/XXXX	Not Specified	
irewall				
iagnostics	Security Sett	ings	WINS Server:	10.10.48.15
atwork Statistics	802.1X:	Not Specified	Idle Timeout:	90 sec
istwork Statistics	Firewall:	Disabled		
rotocol Info	Admin Password:	Not Specified	IPv4 -	
onfiguration Page	Secure Web:	HTTPS Optional	Status:	Ready
	Cert Expires: 2007	-01-01 00:00 UTC		
	SNMP Versions:	1;2		
	SNMP Set Cmty Name:	Not Specified	IF Address:	10.10.48.177
	SNMP Get Cmty Name:	Not Specified	Subnet Mask:	255.255.255.0
	ACCESS LIST:	Not specified	Derault Gateway:	10.10.48.1
	Notwork Stati		CONTRODUCE Server:	Mot Specified
	Total Dackets Deceived:	249006	TETD Server:	Not Specified
	Unicast Dackate Deceived:	215000	Bonjour Service Name.	Not specified
	Bad Packets Received	01012	HD Lager Tet D2055dp (705	73.651
	Framing Errors Received:	0	in Eastroet F2000an [/or	
	Total Packets Transmitte	d: 2484	TPv6 -	
	Unsendable Packets:	0	Status:	Disabled
	Transmit Collisions:	ő		22042204
	Transmit Late Colligions			

Figure 2-59 HP EWS–Jetdirect Configuration 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.

To download a current version of HP Web Jetadmin, and for the latest list of host systems that support HP Web Jetadmin, 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.

Yahoo! toolbar

During the software installation, you can elect to install the Yahoo! toolbar. The Yahoo! toolbar provides easy access to HP support, product supplies and accessories, special offers, and a Web search function powered by the Yahoo! search engine.

3 Install Windows software and utilities

Introduction

The product 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 printer driver. For instructions, see <u>Detailed Windows installation instructions on page 77</u>.

Topics:

- Supported operating systems for Windows
- Installation overview
- <u>Windows software installation options</u>
- Detailed Windows installation instructions
- Uninstall the software

Supported operating systems for Windows

NOTE: For information about the product-system software for Macintosh operating systems, see <u>Macintosh software and utilities on page 145</u>.

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/ljp2050series

Topics:

- Full-solution software
- Printer driver support in other operating systems
- 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 XP (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)

Printer driver support in other operating systems

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

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

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

www.hp.com/support/ljp2050series

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

www.hp.com/go/linuxprinting

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

www.hp.com/go/unixmodelscripts

Operating system requirements

Windows

The product-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 disk space
- A 2x or faster CD-ROM drive (required for installation)
- A USB port
- **NOTE:** If the USB port has another device attached to it, such as an external storage device, the device must be disconnected or an additional USB port must be added. You can add an additional USB port by using a hub, or by installing an additional USB card.

Installation overview

The software for the product comes on one CD. The CD includes printer 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. A minimum installation option is available, which consists of only the printer drivers.

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

The setup program is *not* supported for Windows Server 2003 or Windows 2000. A plug-and-play or add-printer-wizard installation must be used for this operating system.

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.

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 onboard networking. Install the printing-system software on a computer that is running Windows 2000, Windows Server 20003, 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 onboard networking that connects to a LAN through a 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 installation guide starts automatically. The **Begin Setup** screen appears.

Figure 3-1 Animated installation 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.



Click Install Product Software to install the printer 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 XP or Windows Vista.

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

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

1. Quit all open programs.

Install the product software

- 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 SETUP.EXE file in the root directory of the CD.
- 3. Follow the onscreen prompts to install the software.

- 4. When the installation is nearly complete, the **Finish** dialog box appears and you can print a test page. Click the **Print a test page** check box, and then click **Finish** to finish the installation and print a test page.
- 5. If prompted to restart the computer, click **Yes**.

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 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 SETUP.EXE file in the root directory of the CD.
- **3.** Follow the onscreen prompts to install the software.
- 4. When the Installer software prompts you to select how the product will be connected, select **Through the network**, and then click **Next**. Follow the onscreen instructions.
- 5. When the installation is completed, a setup dialog box appears that asks whether or not you want to print a test page. Click **Yes**.
- 6. If prompted to restart the computer, click Yes.

Install the printer drivers by using the add-printer wizard

The printing-system software installer does *not* support Windows 2000 or Windows Server 2003. To install the printer drivers on computers running one of these operating systems, use a plug-and-play installation for direct USB product connections, or an add-printer-wizard installation for network-connected products.

Download the appropriate driver from <u>www.hp.com/support/ljp2050series</u>. 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 on the Web.

Modify an existing installation

If an HP LaserJet P2050 Series printer has been installed, the initial CD browser screen on the printing system installation CD changes to the **Welcome Back!** screen. A pre-existing installation also changes the sequence of installation screens.

Figure 3-3	Welcome Back! screen
------------	----------------------

MP LaserJet	
Welcome Back! Select a button below to begin doing more with) HP.
Optimizing Print Quality (video)	Watch a short video that shows the simple steps to getting the
Locate the User <u>G</u> uide	cardstock, heavy paper, or transparencies.
Install More <u>S</u> oftware	
Connect another P2050 Series Device	No. 19
More Information	
<u>U</u> ninstall	
Marketing <u>R</u> esource software	
E <u>x</u> it	

The Welcome Back! screen contains the following buttons.

- **Optimizing Print Quality (video)**: Click this button to open online videos that demonstrate how to create high-quality documents.
- Locate the User Guide: Click this button to open the user guide on the CD. To access the user guide in the future, re-insert the CD. Product manuals are also available on the HP product support Web site.
- Install More Software: Click this button to install HP Easy Printer Care software.
- **Connect another P2050 Series Device**: Click this button to quickly install another HP product using software that is already loaded on the computer.
- **More Information**: Click this button to access product support on the Web, or other product help and useful tips.
- **Uninstall**: Click this button to uninstall the printing-system software.
- **Marketing Resources software**: Click this button to open the Web site for the HP Marketing Resources software.
- **Exit**: Click this button to close the CD browser.

Detailed Windows installation instructions

The following section shows the dialog box options that appear during the printing-system software installation on Windows Vista and Windows XP 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 .

Topics:

- 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.

Figure 3-4 CD Browser screen



The first dialog box contains the following links:

Install Printer Software. This link takes you to the initial command for installing the software. Click this link to close the CD Browser and the initial installation wizard and open the **Welcome to the Install Wizard** screen. For information about installing the printing-system software over a USB connection, see <u>USB installation dialog-box options for Windows on page 78</u>. For information about installing the

printing-system software over a network connection, see <u>Network installation dialog box options for</u> <u>Windows on page 86</u>

View User Guide. Click this option to go to the user guide.

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.

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 welcome screen, the **Select Install to begin installing your new HP device** dialog box appears.

Figure 3-5 USB installation—Select Install to begin installing your new HP device dialog box

MP LaserJ	et 🛛 🔀
Select Install to begin instal	lling your new HP device.
Recommended Install	Install all the software for the product, including the user guide.
<u>E</u> xpress Install	
More Information	
View User <u>G</u> uide	
HP Software <u>L</u> icense Terms	
E <u>x</u> it	

• Click **Recommended Install** to install the complete printing-system software.

If you click **Recommended Install**, a progress dialog box appears and then closes, and then the **Please Allow All HP Install Wizard Processes** dialog box appears.

Click Express Install to install only limited software.

If you click Express Install, the Express Install dialog box appears.

Figure 3-6 USB installation—Express Install dialog box

MP LaserJe	et 🛛 🛛
Express Install Install the minimum software for the produce	t.
Express USB Install	Install the minimum software for a product that uses a direct USB connection. Clicking this button indicates your acceptance of HP's Software License terms.
HP Software License Terms	
Back	

- Click USB Install. After a progress screen appears and then closes, the Connect Your Device Now dialog box opens. Go to step 5.
- Click **More Information**, and then click **Read Me First** to open the installation notes Web page for information about the installations and to find out if your system meets the recommended installation requirements. Close the notes, and then click **Back** to return to the installation choices.
- NOTE: 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.

HP - LaserJet	
Installing LaserJet	
Thank you for choosing HP.	
Current Progress - Initializing	
Overall Progress - Checking System (Step 1/4)	0%

Figure 3-7 USB installation—Sample screen showing current progress

nstall Windows software and utilities

 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. In the Please Allow All HP Install Wizard Processes dialog box, click Next.



Figure 3-8 USB installation—Please Allow All HP Install Wizard Processes dialog box

3. The Choose Easy Install or Advanced Install dialog box appears.

Figure 3-9 USB ins	stallation—Choose Easy	Install or Advanced	Install dialog bo	ЭΧ
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🐻 HP LaserJet 🛛 🔀
Choose Easy Install or Advanced Install
This installation includes the following agreements and default settings:
The Software End User License Agreement
Automatic Software Updates
The Recommended Software Package *
Select an install option and click next.
C Easy Install (recommended) I accept the installation agreements and default settings.
Advanced Install I prefer to review all of the installation agreements and default settings, including the opportunity to choose what software gets installed.
* This package may include software that is capable of connecting over the Internet to transmit data in compliance with the HP Privacy Policy.
<u>Click Here For The HP Privacy Policy</u> <u>Click Here For Details On The Internet Connection Capabilities</u>
Next > Cancel

Select an installation type, and then click **Next** to open the **Connection Type** dialog box.

• If you select **Advanced Install** and then click **Next**, several dialog boxes appear. These screens allow you to customize your installation process.

Install Windows software and utilities

4. The program begins installing the software, and then the **Connection Type** dialog box appears. Select **Directly to this computer using a USB cable**, and then click **Next**.

🐻 HP LaserJet		×
Connection Type Choose how you will connect your device to this computer.		
⊙ Directly to this computer using a USB cable.		
Through the network.		
Click Next to continue.		
	< Back Next > Cancel	

Figure 3-10 USB installation—Connection Type dialog box

5. The **Connect Your Device Now** dialog box appears. Turn on the product, connect the USB cable to your computer and the product, and then click **Next** if the installer does not start the process automatically. It might take an extended period of time for the installation to finish on Windows XP.

Figure 3-11 USB installation—Connect Your Device Now dialog box

🐞 HP Laser Jet	
Connect Your Device Now	
1. Make sure the device is powered on.	
2. Connect the USB cable.	
<u>H</u> elp	Back Next > Cancel

6. The Sign up now screen appears.

Sign up now	
Sign up now Select your location: United States	
Welcome!	
By taking just a few moments to sign up, you can enjoy:	
 Quicker service and more efficient support to fit your busy lifestyle 	
 Timely driver and software update notification 	
 The latest product support alerts to maximize your productivity 	
 Customized e-newsletters loaded with tips and tricks 	
HP respects your privacy. With HP your personal information remains private and is not shared transmit HP product and PC configuration information to HP. To view HP's full privacy statement	with anyone outside of HP. By clicking Next, you will t, visit www.hp.com.
Please connect to the Internet before clicking Next.	
	Next Cancel

Figure 3-12 USB installation—Sign up now screen

- If you have Web access, you can sign up to receive information from HP. On the **Sign up now** screen, click **Next** to open the **HP Registration** Web page. Follow the onscreen instructions to register.
- If you do not want to register at this time, click **Cancel**.

7. The **Congratulations! Software Installation is complete** dialog box appears. Click **Exit** to finish the installation.

Figure 3-13 USB installation–Congratulations! Software Installation is complete dialog box



The product will print a test page to confirm 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.

Figure 3-14 Network installation—Install Product Software dialog box



Click **Install Product Software** 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.

HP - LaserJet	
Installing Laser Jet	
Thank you for choosing HP.	
Current Progress - Initializing	
Overall Progress - Checking System (Step 1/4)	0%

Figure 3-15 Network installation—Sample screen showing current progress

Once you have clicked **Install Product Software** in the welcome screen, the **Select Install to begin installing your new HP device** dialog box appears.

Figure 3-16 Network installation—Installation options dialog box



Click Recommended Install to install the complete printing-system software.

Click Express Install to install only limited software.

Click **More Information**, and then click **Read Me First** to open the installation notes Web page for information about the installations and to find out if your system meets the recommended installation requirements. Close the notes, and then click **Back** to return to the installation choices.

Between dialog boxes, a 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. This screen disappears, and the **Please Allow All HP Install Wizard Processes** dialog box appears.

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.

HP - LaserJet	
	Please Allow All HP Install Wizard Processes
	Firewall or anti-spyware software may show alert dialogs related to this installation.
	Please allow any HP programs to proceed if you see one of these alerts by selecting an option such as:
	- Yes
	- Allow
	- Permit
	Blocking an installation will likely cause the installation to fail.
	In addition, if you are running any anti-virus software, you may want to temporarily disable it because anti-virus software can significantly increase the time it takes to complete installation and has been known to cause installations to fail.
-	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

Figure 3-17 Network installation—Please Allow All HP Install Wizard Processes dialog box

Click Next to open the Choose Easy Install or Advanced Install dialog box.
Figure 3-18 Network installation—Choose Easy Install or Advanced Install dialog box

📅 HP LaserJet 🛛 🔀
Choose Easy Install or Advanced Install
This installation includes the following agreements and default settings:
The Software End User License Agreement
Automatic Software Updates
The Recommended Software Package *
Select an install option and click next.
Casy Install (recommended) I accept the installation agreements and default settings.
Advanced Install I prefer to review all of the installation agreements and default settings, including the opportunity to choose what software gets installed.
* This package may include software that is capable of connecting over the Internet to transmit data in compliance with the HP Privacy Policy.
<u>Click Here For The HP Privacy Policy</u> <u>Click Here For Details On The Internet Connection Capabilities</u>
Next > Cancel

Select an installation type, and then click Next to open the Connection Type dialog box.

• If you select **Advanced Install** and then click **Next**, several dialog boxes appear. These screens allow you to customize your installation process.

Figure 3-19	Network installation-	-Connection	Type dialog box
-------------	-----------------------	-------------	-----------------

🐞 HP - LaserJet			
Connection Type Choose how you will connect your device to this computer.			$\langle p \rangle$
◯ Directly to this computer using a USB cable.			
 Through the network. 			
Click Next to continue.			
	< Back	Next >	Cancel

Select the **Through the network** option and then click **Next** to continue the installation. The **Identify Printer** dialog box appears.

Figure 3-20 Network installation—Identify Printer dialog box

HP - LaserJet			
Identify Printer			
Setup can search for printers on your network or you can spe printer builts address	ecify a particular		
printer by the dedicate.			
Choose a method to search for the printer:			
 Select from a list of detected printers (Recon 	nmended)		
Specify a printer by address			
O IP Address (IPv4) or Hostname			
		_	
Hardware Address (MAL)			
Help		< Back Next >	Cancel

If you select **Select from a list of detected printers (Recommended)**, the **Firewall Notice** dialog box appears. Click **Next** to continue the process.

Figure 3-21 Network installation—Firewall Notice dialog box



The Searching dialog box appears as the software searches the network for the product.

Figure 3-22 Network installation—Searching dialog box

HP LaserJet	
Searching	
Setup is searching for printers.	
Searching the local network for available LaserJet printers. Please wait	
Help	< <u>B</u> ack <u>N</u> ext > Cancel

If you select the **Specify a printer by address** option on the **Identify Printer** dialog box, the **IP Address** (**IPv4**) or **Hostname** and **Hardware Address** (**MAC**) boxes are activated.

Specify the product by hardware address (MAC), TCP/IP address, or IP Hostname. After typing one of these options in the appropriate field, click **Next** to continue.

The **Printers Found** dialog box appears either after the software completes its search for the product, or after you specify the product.

let		
ters Found		
et up found the following ne	twork printers. Select a setup option below	
ctup round the rollowing he	work printers. Select disctup option below.	· · · · · · · · · · · · · · · · · · ·
		·
Install a discov	ered network printer.	
101 (Saida		
Model	Hardware Address IP Address	Hostname
HP LaserJet	192.168.0.10	NPI26053B
	ſ	Search Again
	C	Search Again
O Help me find m	y network printer.	Search Again
O Help me find m	y network printer.	Search Again
O Help me find m	y network printer.	Search Again
◯ Help me find m	y network printer.	Search Again
🔿 Help me find m	y network printer.	Search Again
◯ Help me find m	y network printer.	Search Again
◯ Help me find m	y network printer.	Search Again
() Help me find my	y network printer.	Search Again
() Help me find my	y network printer.	Search Again
O Help me find m	y network printer.	Search Again

Figure 3-23 Network installation—Printers Found dialog box

The Install a discovered network printer option is selected by default.

- To install a different product, select a different printer in the list, click **Search Again**, or select **Help me find my network printer**, and then click **Next**.
- To continue installing the product, leave **Install a discovered network printer** selected, and then click **Next**. It might take as long as 35 minutes for this step to finish the installation process.

The Sign up now screen appears.

🥵 Sign up now	
Sign up now Select your location: United States	
Welcome!	
By taking just a few moments to sign up, you can enjoy:	
 Quicker service and more efficient support to fit your busy lifestyle 	
 Timely driver and software update notification 	
 The latest product support alerts to maximize your productivity 	
 Customized e-newsletters loaded with tips and tricks 	
HP respects your privacy. With HP your personal information remains private and is not shared transmit HP product and PC configuration information to HP. To view HP's full privacy statement	d with anyone outside of HP. By clicking Next, you will t, visit www.hp.com.
Please connect to the Internet before clicking Next.	
	Next Cancel

Figure 3-24 Network installation—Sign up now screen

- If you have Web access, you can sign up to receive information from HP. On the Sign up now screen, click Next to open the HP Registration Web page. Follow the onscreen instructions to register.
- If you do not want to register at this time, click **Cancel**.

When the process is completed, the **Congratulations! Software Installation is complete** dialog box appears. Click **Exit** to finish the installation.

Figure 3-25 Network installation—Congratulations! Software Installation is complete dialog box



The product will print a test page to confirm 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

This section provides information about the following topics:

- Uninstall component list
- Uninstall methods

Uninstall component list

The uninstaller removes the following components from the computer:

- Drivers
- HP ToolboxFX
- User guides

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

- HP Update
- HP Shop for Supplies

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 removing 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.

Program group uninstall tool

This is the recommended method for end users.

- 1. Close all open programs.
- 2. In Windows Vista, click Start, click All Programs, click HP LaserJet P2050 Series, and then click Uninstall.

In Windows XP and Windows Server 2003, click **Start**, click **Programs**, click **HP**, click **HP LaserJet P2050 Series**, and then click **Uninstall**.

3. The **Remove programs installed with your HP device** dialog box appears.

Figure 3-26 Remove programs installed with your HP device dialog box

🐞 HP Lasei	Jet 🛛 🗵
Uninstall Remove p	orograms installed with your HP device.
₹	This process can remove some or all of the software that came with your HP device. This can also remove the device drivers that allow your HP device to operate.
	If you have multiple HP devices, choosing to "Uninstall all HP products associated with this device" may affect some of your other printing or imaging devices.
	● Uninstall all HP products associated with this device.
	Choose which HP products to uninstall.
	Next > Cancel

• Select Uninstall all HP products associated with this device to perform a complete removal. Selecting this option and clicking Next opens the Review uninstall instructions and information dialog box.

• Select **Choose which HP products to uninstall** to select what programs to remove. Selecting this option and clicking **Next** opens a list of currently installed programs.

🐻 HP LaserJet		
Uninstall Remove programs installed with your HP device.		
Currently Installed Programs HP Customer Participation Program 10.0 HP LaserJet	Estimated Size 5 MB 200 MB	
Select All	< Back Continu	ue Cancel

Figure 3-27 Review uninstall instructions and information dialog box

Select the programs to remove, and then click **Continue** to open the **Review uninstall instructions and information** dialog box.

4. In the **Review uninstall instructions and information** dialog box, review the information, and then click **Continue** to proceed.

Figure 3-28 Review uninstall instructions and information dialog box

HP LaserJet	
ninstall Review uninstall instructions and information.	
Please review the important uninstall information below before continuing. To proceed, unplug your d close any open programs, and click Continue.	levice,
Review: What will be removed What will be affected How to remove a single device	
 What will be removed The following devices will automatically be removed as part of this uninstall or upgrade: HP LaserJet 	
Back to top	
What will be affected Removal of these programs is NOT recommended if you are going to continue to use any of the following devices computer:	with this
HP LaserJet	v
Uninstall Details Continue	Cancel

5. The **Cleanup progress** dialog box appears. Progress bars show the status of the removal process.

Figure 3-29 Cleanup progress dialog box

HP - Customer Participation Program 10.0		
Cleanup progress Removing unnecessary components		
Current Progress		
Overall Progress - Step 2/4 - 50 %		
	< Back OK	Cancel

6. When the removal process is complete, the **Cleanup complete** dialog box appears. Click **OK**.

Figure 3-30 Cleanup complete dialog box

HP LaserJet
Cleanup complete
Current Progress - Cleanup complete
Overall Progress - Step 13/13 - 100 %
< Back OK Cancel

7. The You must restart your computer to finish the uninstall dialog box appears. Select Click here to Restart later if you want to restart the computer at a later time, and then click Finish. Or, click Finish to restart the computer and finish the uninstall process.



Figure 3-31 You must restart your computer to finish the uninstall dialog box

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 printer driver for Windows

Introduction

This document describes the features of the PCL 6 printer driver for Windows 2000, Windows XP (32bit and 64-bit), Windows Server 2003 (32-bit and 64-bit), and Windows Vista (32-bit and 64-bit).

When installing the print-system software from the software CD in Windows Vista or Windows XP, the PCL 6 printer driver is installed by default. The PCL 5 Universal Print Driver (UPD) and the PS UPD can be downloaded from the Web: www.hp.com/go/ljp2050series_software.

The following sections describe the options that are available on each tab of the PCL 6 printer driver

Topics:

- <u>Change the Windows printer driver settings</u>
- Help system
- Advanced tab features
- Printing Shortcuts tab features
- <u>Paper/Quality tab features</u>
- Effects tab features
- Finishing tab features
- Services tab features
- Device Settings tab features
- About tab features

Change the Windows printer driver settings

Depending on the operating system on which the printer drivers are installed, access to the printer drivers and different print-driver interfaces is available in several ways:

- <u>Software-program print-dialog box</u>
- Print-driver user interface

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 XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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
- Printing Shortcuts
- 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 XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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
- 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 PCL 6 printer 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
- <u>Context-sensitive Help</u>
- <u>Constraint messages</u>

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.

Context-sensitive Help

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

Constraint messages

Constraint messages are unsolicited messages that appear in response to specific actions. 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 4-1 A typical constraint message

Incompa	tible Print Settings	×
<u>.</u>	There are one or more conflicting settings. One of the conflicting settings is:	
	Print On Both Sides : Yes, flip over Media Type : Monochrome Laser Transparency	
	Restore my previous settings.	
	Keep this setting, and I will change it later.	
	ОК	

HP printer driver for Windows

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

Paper/Output setting

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

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

Advanced tab features

To gain access to the **Advanced** tab, follow these steps:

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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.
- 4. Click the **Advanced** tab.

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

Figure 4-2 The default appearance of the Advanced tab

Printing Preferences	? 🛛
Ivanced Printing Shortcuts Paper/Quality Effects Finishing Services	
HP LaserJet P2050 Series PCL 6 Advanced Document Settings Graphic TrueType Font: Substitute with Device Font Advanced Printing Features: Print All Text as Black: Disabled Send True Type as Bitmap: Disabled Raster Compression: Automatic Alternative Letterhead Mode: Off Print Data Optimization: Auto Layout Options Page Order: Front to Back	

- Graphic setting
- Document Options setting

Paper/Output setting

The Paper/Output setting contains the Copy Count control.

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

The requested number of copies appears in the **Copy Count** option. Select the number by typing in the box or by using the up and down arrows to the right of the text box. Valid entries are numbers from 1 to 9999. The copies value will not advance from the maximum number (9999) to 1 when the up arrow is used, or change from 1 to the maximum number (9999) when the down arrow is used.

When you click another group box or leave the **Advanced** tab, invalid entries into the edit box (such as non-numerical input, numbers less than 1, or numbers greater than the maximum allowed) are changed to the last valid value that appeared in the box. The default number of copies is 1.

Because the number of copies can be set in some software programs, conflicts between the software program and the driver can arise. In most cases, the software program and the driver communicate so that the number of copies set in one location (such as the software program) appears in the other (such as the driver). For some software programs, this communication does not take place, and the copies values are treated independently. For example, setting 10 copies in the program and then setting 10 copies in the driver will result in 100 copies (10 x 10) being printed. Set the number of copies in the software program, wherever possible.

Graphic setting

The Graphic setting contains the TrueType Font control.

The **TrueType Font** option can be set either to **Substitute with Device Font** or **Download as Softfont**.

- Click **Substitute with Device Font** to use equivalent printer fonts for printing documents that contain TrueType fonts.
- Click **Download as Softfont** to download TrueType fonts for use instead of using the product fonts.

Document Options setting

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

- Advanced Printing Features
- Printer Features
- Layout Options

Advanced Printing Features

When the **Advanced Printing Features** setting is **Enabled**, metafile spooling is turned on and **Finishing** tab options such as **Page order**, **Booklet Layout**, and **Pages per Sheet** are available, depending on the product. For normal printing, leave the **Advanced Printing Features** setting at the default (**Enabled**). If compatibility problems occur, disable the feature. However, some advanced

printing features might still be available in the printer driver, even if they have been disabled. Selecting an advanced printing feature in the printer driver that has been disabled on the **Advanced** tab automatically makes the feature available.

Printer Features

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

• Print All Text as Black

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

• Send True Type as Bitmap

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

Raster Compression

Use this feature to select the graphics compression method.

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

Alternative Letterhead Mode

Use this feature to load letterhead or preprinted paper into the tray the same way for all jobs, whether printing on one side or both sides of the sheet. When this option is enabled, load the paper the same as for printing on both sides. See the user documentation that came with the product for instructions about loading letterhead for printing on both sides.

When this option is selected, the product speed slows to the speed required for printing on both sides.

• Print Data Optimization

Use this feature to achieve optimal print results for either raster images or text and vector images.

Layout Options

The Layout Options setting contains the Page order setting.

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

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

Printing Shortcuts tab features

- Use defined printing shortcuts
- Create a custom printing shortcut

To open the **Printing Shortcuts** tab, follow these steps:

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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.

4. Click the **Printing Shortcuts** tab.

Figure 4-3 Printing Shortcuts tab

HP LaserJet Printing Preferences		
Advanced Printing Shortcuts Paper/Quality Effects Finishin	g Services	
A printing shortcut is a collection of saved print settings that you c with a single click.	an select	
Printing shortcuts:		
General Everyday Printing		
Two-sided (Duplex) Printing	Paper type: Unspecified	
Envelopes	Paper sjzes: 8.5 × 11 inches Letter	
Booklet Printing	Paper source: Automatically Select	
Factory Defaults	Portrait Print on both sides: No	
	Pages per sheet: 9 pages per sheet	
Save As Dejete Reset		
	A <u>b</u> out <u>H</u> elp	
	OK Cancel Apply	

Use the **Printing Shortcuts** tab to print jobs with specific printer-driver settings. The available settings depend on the product configuration. Select one of the defined shortcuts or create custom printing shortcuts.

Select one of the defined shortcuts or custom printing shortcuts, and then click **OK** to print the job with the specific printer-driver settings.

The driver can store a maximum of 25 custom printing shortcuts on a particular system.

Select any defined shortcut or custom printing shortcut and then click **Delete** to delete it.

Click **Reset** to set the default options for all features of the selected shortcut.

Use defined printing shortcuts

The following defined printing shortcuts are available:

- **General Everyday Printing**: Select this option to print using typical settings.
- **Two-sided (Duplex) Printing**: Select this option to print using typical settings for duplex printing.
- **Envelopes**: Select this option to print using typical settings for printing on envelopes.
- **Booklet Printing**: Select this option to print using typical settings for booklet printing.
- Factory Defaults: Select this option to print with the default printer-driver settings.
- NOTE: If you change any of the settings for a defined printing shortcut, the **Save As** and **Reset** buttons become active. Click **Save As** to save the new settings as a custom printing shortcut. Click **Reset** to set the default options for all features of the selected shortcut.

Create a custom printing shortcut

- 1. Select one of the defined shortcuts as a base.
- 2. Select the appropriate print settings on the **Printing Shortcuts** tab, or by using the settings on any of the **Printing Preferences** tabs.
- 3. On the **Printing Shortcuts** tab, click **Save As**. The **Printing Shortcuts** box appears.
- 4. Type a name for the custom printing shortcut, and then click **OK**. The custom printing shortcut appears in the **Printing shortcuts** list.

Paper/Quality tab features

To gain access to the Paper/Quality tab, follow these steps:

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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.
- 4. Click the Paper/Quality tab.

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

Figure 4-4 Paper/Quality tab

HP LaserJet Printing Preferences	? 🛛
Advanced Printing Shortcuts Paper/Quality Effects Finis	hing Services
Paper Options Paper sizes: 8.5 × 11 inches Letter Custom Paper source: Automatically Select Paper type: Unspecified Special pages: Covers Print pages on different paper Settings	Print Quality FastRes 1200 EconoMode (May Save Print Cartridges)
	About Help
	OK Cancel Apply

The Paper/Quality tab contains the following control sets:

• Paper Options

- Special pages
- <u>Document preview image</u>
- Print Quality

Paper Options

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

Figure 4-5	Paper	Options	group	box
------------	-------	---------	-------	-----

Paper sizes:	8.5>	<11 inches
Letter		*
	Custo	om
Paper source:		
Automatically Select		*
^D aper type:		
Unspecified		~
Special pages:		
Special pages: Covers Print pages on different p	aper	
Special pages: Covers Print pages on different p	aper	
Special pages: Covers Print pages on different p	aper Settin	gs
Special pages: Covers Print pages on different p	aper Settin	gs
Special pages: Covers Print pages on different p	aper Settin	gs

Paper sizes

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

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

Because media-size settings in most software programs override driver settings, it is generally best to use the driver to set media size only when printing from software programs that do not include a media-size setting, such as Notepad, or when producing a book or a booklet that does not require different media sizes.

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

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

For information about media sizes, see Media attributes on page 188.

Custom Paper Size

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



Custom Paper S	Size	? 🔀
The custom pap until you have e	er size you have just defined will n xited and re-entered the Printing P	ot become available for selection Preferences/Properties.
Name		
Custom		Save
-Paper Size		Units
Width:	8.50	 Inches
	(3.00 - 8.50)	
Lenath:	11.00	Q + 111
	(5.00 - 14.00)	O Millimeters
	(0.00 1.100)	
		OK Cancel

Name

Use the **Name** text box to type a new name for a custom media size.

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

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

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

Paper size

Change the width and height values by typing numeric strings into the edit boxes in the **Paper Size** group box.

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

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

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

Units

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

Custom width and height control limits

The minimum media size for the product is 76.2×127 mm (3 x 5 in) and the maximum is 215.9×355.6 mm (8.5 x 14 in). The following table summarizes media size limits for each media-handling device.

Table 4-1 PCL 6 custom media sizes

Tray	Dimensions	Minimum	Maximum
Tray 1 (100-sheet	Width	76 mm (3.0 in)	312 mm (12.28 in)
multipurpose)	Height	127 mm (5.0 in)	470 mm (18.5 in)
Tray 2 (250-sheet)	Width	148.0 mm (5.83 in)	297 mm (11.7 in)
	Height	210 mm (8.26 in)	432 mm (17 in)
Tray 3 (250-sheet, optional)	Width	148.0 mm (5.83 in)	297 mm (11.7 in)
	Height	210 mm (8.26 in)	432 mm (17 in)
Duplexing unit	Width	148.0 mm (5.83 in)	297 mm (11.7 in)
	Height	210.0 mm (8.26 in)	432 mm (17 in)

Paper source

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

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

- Automatically select
- Printer auto select

- Manual Feed in Tray 1
- **Tray 1** (50-sheet multipurpose tray)
- **Tray 2** (250-sheet tray)
- **Tray 3** (optional 500-sheet tray)

The default setting is **Automatically select**. When this setting is selected, the product uses the source tray that supports the selected media size. If you select a source tray other than **Automatically select**, make sure that the correct media size is loaded in the source tray. For information about media sources, see <u>Media attributes on page 188</u>.

Paper type

The **Paper type** drop-down menu shows all of the media types that the product supports. When you use the default setting, **Unspecified**, the product uses the default media type, which is usually **Plain**.

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

The following standard types appear in the list:

- Unspecified
- Plain
- Light 60-75 g/m2
- Mid-Weight 96-110g
- Heavy 111-130g
- Extra-Heavy 131-175g
- Cardstock 176-220g
- Monochrome Laser Transparency
- Labels
- Letterhead
- Envelope
- Heavy Envelope
- Preprinted
- Prepunched
- Colored
- Bond

- Recycled
- Rough

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

If the print-driver setting is changed to a media type that is not currently loaded in the product, a controlpanel message appears that prompts you to load the media type or select another tray.

Special pages

Print books that include different media types by using the **Special pages** options.

Use the **Special pages** list box to select different trays loaded with different types of paper for different parts of the print job. For example, you can have covers printed on different paper, or you can insert preprinted pages at designated places to print books.

Select an option in the **Special pages** list box, and then click **Settings**. Use the **Special pages** dialog box to control the settings for the covers or special pages of the print job.

Figure 4-7 Special Pages dialog box

Special Pages					? 🔀
Special Pages Covers Print pages on different paper			Add a blank or p Front Back Both	reprinted cover:	
NOTE: All pages not listed in this table are set to: Paper source: Automatically Select Paper type: Unspecified Print on both sides: Off			Paper source: Automatically Paper type: Unspecified	Select Add Upda	× ate
Special pages defined for this print job: Page Type Pages Paper Source		Paper Source	Paper Type	Additional Attributes	
Delete Delete	All			OK Ca	ncel

NOTE: Options available in the **Special Pages** dialog box change depending on the selection made in the **Special Pages** list box.

Document preview image

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

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

- Printing Shortcuts
- Paper/Quality
- Effects
- Finishing

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.

Print Quality

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

- Print Quality drop-down menu
- <u>EconoMode</u>

Print Quality drop-down menu

The **Print Quality** drop-down menu contains the following controls in the PCL 6 printer driver:

- ProRes 1200 (156 lpi)
- ProRes 1200 (180 lpi)
- FastRes 1200
- 600 dpi
- ProRes 1200
- NOTE: When a **ProRes1200** setting is selected, documents are printed using a resolution of 1200 x 1200 dpi. This is the best print quality, but printing speed is slower than for documents printed on the FastRes 1200, which uses a resolution of 1200 x 600 dpi.

EconoMode

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.

HP does not recommend the full-time use of EconoMode. If EconoMode is used full-time when the average toner coverage is significantly less than 5%, it is possible that the toner supply will outlast the mechanical parts in the print cartridge. If print quality begins to degrade under these circumstances, install a new print cartridge, even if toner remains in the cartridge.

NOTE: The EconoMode setting might work only if a genuine print cartridge is installed. Print cartridges can measure the life of the mechanical parts as well as the quantity of toner. If the EconoMode setting is used frequently, the mechanical parts can wear out before the supply of toner is depleted, increasing the risk of toner leaking. Use genuine parts to avoid this problem.

The **EconoMode** option can be activated from the product control panel, from the **Print Quality** tab in the software application properties, or from the **Print Quality** area on the **Paper/Quality** tab in the driver. If the **EconoMode** option is selected from the control panel, and if the product has a genuine HP cartridge, the ON setting overrides any setting made in the application or driver, as shown in the following table.

Driver EconoMode setting for print job	HP Cartridge	Product control panel reports	EconoMode setting takes effect
Selected	Yes	On	Yes
Selected	No	Off	No
Not selected	Yes	On	Yes
Not selected	No	Off	No
Selected	Yes	Off	Yes
Selected	No	Off	No
Not selected	Yes	Off	No
Not selected	No	Off	No

Effects tab features

To gain access to the Effects tab, follow these steps:

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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.
- 4. Click the Effects tab.

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

Figure 4-8 Effects tab	
🞍 HP LaserJet Printing Preferences	? 🛛
Advanced Printing Shortcuts Paper/Quality Effects Finis	hing Services
Resizing Options • Actual size • Print document on: Letter • Scale to fit % of actual size: 100	
	Watermarks [none] ▶ First page only Edit
	A <u>b</u> out <u>H</u> elp
	OK Cancel Apply

The Effects tab contains the following controls:

- Resizing Options
- <u>Document preview image</u>

Watermarks

Resizing Options

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

- Actual Size (default)
- Print document on setting
- Scale to Fit option
- % of actual size setting

Actual Size

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

Print document on

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

The **Print document on** control is disabled by either of the following conditions:

- The % of actual size value is not 100.
- The Pages per sheet value on the Finishing tab is not 1.

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

Scale to fit

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

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 actual size

The **% of actual 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 printer driver or what the printer driver receives from the software program, if the software program does not negotiate the paper size with the printer driver. The printer 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 upperleft corner of the preview.

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

Dragging the slider-bar indicator does not yield an exact value. Instead, either use the slider-bar indicator to approximate the value and then use the arrows to refine the value, or type the value into the entry box.

The following settings disable % of actual size:

- Print document on on the Effects tab is selected
- Pages per sheet on the Finishing tab is not 1

Document preview image

See Document preview image on page 122.

Watermarks

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

- (none)
- Confidential
- Draft
- SAMPLE

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

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

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

Click Edit, and the Watermark Details dialog box appears.

Figure 4-9 Watermark Details dialog box

Watermark Details	? 🛛
Current Watermarks [none] Confidential Draft SAMPLE	
New Delete	Font Attributes
Watermark Message	Arial
Message Angle O Diagonal Horizontal Angle 52 💠	Shading: Very light v Size: Style: 80 Regular v
	OK Cancel

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

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

Current watermarks

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

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

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

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

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

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

Watermark Message

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

Message Angle

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

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

Font Attributes

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

The Font Attributes group box contains the following controls:

• Name

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

Color

The Color drop-down menu contains only one option: 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. Select **Light** to produce a lightly saturated gray watermark. Select **Lightest** to produce the lightest shade of watermark. Select **Darkest** to produce a black watermark.

Size

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

• Style

The following settings are available:

- Regular
- Bold
- Italic
- Bold Italic

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

Default watermark settings

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

Table I ont Attribute Settings for new and preset watermarks	Table 4-2	Font Attribute s	settings for r	new and pres	et watermarks
--	-----------	------------------	----------------	--------------	---------------

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

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

Finishing tab features

To gain access to the Finishing tab, follow these steps:

For Windows XP and Windows Server 2003 (using the default Start menu view), click Start, click 1. Settings (Windows XP), 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.

Click the Finishing tab. 4.

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

Figure 4-10 Finishing tab	
🜲 HP LaserJet Printing Preferences	? 🛛
Advanced Printing Shortcuts Paper/Quality Effects Finish Document Options Correct Order for Straight Paper Path Print on both sides Flip pages up Booklet layout: Off Pages per sheet: Advanced Printing Shortcuts Paper Path	hing Services
1 page per sheet Print page borders Page order: Right, then Down	 Orientation Portrajt Landscape Rotate by 180 degrees
	About Help

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

- **Document Options**
- Document preview image

Orientation

Document Options

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

- Correct Order for Straight Paper Path
- Print on both sides
- Flip pages up
- Booklet layout
- Pages per sheet
- Print page borders
- Page order

Correct Order for Straight Paper Path

The product has a door in the back that can be opened to make the paper go straight out the back of the product. Use this bin or slot to minimize curl and avoid jams with heavier paper, such as cardstock. You may also need to feed the paper from the multipurpose tray for best results. The paper is delivered printed side up. Use this feature to order the pages correctly for this bin or slot. If you click this check box and also click **Print on both sides**, the product prints the first side of each page, pauses for you to reload the paper, and then prints the second side of each page. Other documents cannot be printed while the product is paused. Follow the onscreen instructions.

Print on both sides

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

- **Paper type** on the **Paper/Quality** tab is set to any media type *except for* the following types:
 - Labels
 - Transparency
 - Envelope
 - Cardstock
 - Rough
- Paper size on the Paper/Quality tab is set to any media size except for the following sizes:
 - Envelope #10
 - Envelope DL
 - Envelope C5
 - Envelope B5
 - Envelope Monarch

NOTE: As a rule, extra memory need not be installed on the product in order to print on both sides. However, very complex double-sided print jobs might require additional memory.

Topics:

• Automatically print on both sides

Automatically print on both sides

The duplexing unit in the product prints on two sides of a sheet of paper when the **Print on both sides** option is specified in the print job.

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

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

- Prepunched
- Preprinted
- Letterhead

NOTE: When the media type is set to **Unspecified**, the smart duplexing feature is disabled.

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

Flip pages up

Use the **Flip pages up** check box is used to specify the duplex-binding option. By default, the **Flip pages up** check box is available only when **Print on both sides** is selected.

The following table demonstrates the results of selecting this check box, depending on the media orientation selected on the **Finishing** tab.

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

Table 4-3 Page orientation

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

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

Booklet layout

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

- Left binding
- Right binding

When you select **Left binding** or **Right binding**, the document preview image changes to show the location of the binding. If the **Pages per sheet** setting is on the default setting of 1, it automatically changes to **2 pages per sheet**. If you change the **Pages per sheet** setting manually to 4, 6, 9, or 16 pages per sheet, the booklet setting is disabled.

Topics:

- Book and Booklet Printing
- Print a booklet from a software program

Book and Booklet Printing

The product supports book and booklet printing.

A book is a print job that consists of at least two pages. It can have a different paper type for the front cover, first page, other pages, last page, or back cover. Use the **Special pages** settings on the **Paper/Quality** tab to specify settings for blank or preprinted pages to be inserted in the print job.

- Front
- Back
- Both
- First
- Last

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

Print a booklet from a software program

Complete the following steps to print a booklet in most software programs.

- 1. Click File.
- 2. Click Print.
- 3. Click Properties.
- 4. Click the **Finishing** tab.
- 5. Select the **Print on both sides** check box.
- 6. In the **Booklet layout** drop-down menu, select the type of booklet printing that you want (for example, **Right binding**).

- 7. Click **OK** in the printer driver.
- 8. Click **OK** in the print dialog box to print.

Pages per sheet

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

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

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

NOTE: 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 four selections:

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

The preview document image changes to reflect alterations in these settings.

H 2] 2 3 4			
11 by 8.5 inches		11 by 8.5 inches	프 프 프	15 14 15 15
	8.5 by 11 inches	States and states and a	8.5 by 11 inches	8.5 by 11 inches

Figure 4-11 Page-order preview images

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

Document preview image

See Document preview image on page 122.

Orientation

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

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

The Orientation group box contains three options:

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

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

Services tab features

To open the Services tab, follow these steps:

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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.
- 4. Click the Services tab.

Figure 4-12 Services tab

💩 HP LaserJet Pri	nting Preferences
Advanced Printing S	Shortcuts Paper/Quality Effects Finishing Services
Internet Services-	
753	Select a destination Go!
	Includes troubleshooting, manuals, etc.
Ø	About Help
	OK Cancel Apply

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

- **Online diagnostic tools**: Open the Instant Support Web site, where you can find interactive tools and contacts for troubleshooting.
- Support and troubleshooting: Open the product page for the HP Business Center.

- **Product manuals**: Open a Web page from which you can view or download product manuals.
- **Check for driver updates**: Automatically check the printer drivers to see whether the correct and most up-to-date printer drivers are installed.
- Shop for supplies: Open the HP SureSupply Web page and shop online for product supplies.
- Show me how: Open the Show Me How Help pages for the product.

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

Device Settings tab features

The **Device Settings** tab is in the Properties window for the printer driver. To open the tab, follow these steps:

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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.
- 4. Click the Device Settings tab.

The **Device Settings** tab contains controls for media-handling devices and controls for managing the product.

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

Figure 4-13 Device Settings tab

👹 HP LaserJet Properties 🛛 💽 🔀
General Sharing Ports Advanced Security Device Settings About
IP LaserJet Device Settings
🚊 🗐 Form To Tray Assignment
Printer auto select: Letter
Manual Feed in Tray 1: Letter
Tray 1: Letter
Tray 2: Letter
Tray 3: Not Available
🖶 📓 Font Substitution Table
External Fonts
installable Options
Tray 3: <u>Not Installed</u>
Duplex Unit (for 2-Sided Printing): <u>Installed</u>
Allow Manual Duplexing: <u>Enabled</u>
Printer Memory: <u>64 MB</u>
OK Cancel Apply

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

• Form to Tray Assignment

- Font Substitution Table
- External Fonts
- Installable Options

Form to Tray Assignment

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

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

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

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

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

Configuring the trays

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

Font Substitution Table

Use the **Font Substitution Table** settings to install and remove external fonts for the product. External fonts can be soft fonts or DIMM fonts.

Click the **Font Substitution Table** option to open a list of fonts. Use the settings to change the TrueTypeto-printer font mappings.

External Fonts

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

Click the **External Fonts** option to make the **Properties** button available. Click **Properties** to open the **HP Font Installer** dialog box.

Figure 4-14	HP Font Installe	r dialog box
-------------	------------------	--------------

HP Font Installer	×
Printer Font File Location:	
	Browse
Font(s) to be Added:	Installed Font(s):
	Add >> << Remove

Topics:

- Installing external fonts
- Removing external fonts

Installing external fonts

Follow these steps to install external fonts.

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

Removing external fonts

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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 name of the product.
- 3. Click Properties.
- 4. Click the **Device Settings** tab.
- 5. Click the External Fonts option. The Properties button appears.
- 6. Click **Properties**. The **HP Font Installer** dialog box appears. The external fonts that are installed appear in the **Installed Font(s)** window.
- 7. Select the fonts that you want to remove, and then click **Remove**. The fonts are removed.
- 8. Click OK to close the HP Font Installer dialog box.

Installable Options

Topics:

- <u>Tray 3</u>
- Duplex Unit (for 2-Sided Printing)
- Allow Manual Duplexing
- Printer Memory

Tray 3

This control specifies whether you have Tray 3, an optional 500-sheet tray, installed on the product. The default setting is **Not Installed**.

Duplex Unit (for 2-Sided Printing)

The product comes with a duplex unit installed. This setting is enabled (Installed) by default.

NOTE: The product supports smart duplexing. The product uses the smart duplexing feature to detect information on both sides of the print job pages and runs the pages through the duplexing unit only if there is printable information on the second side of the page.

Allow Manual Duplexing

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

This setting is enabled by default.

Printer Memory

This option matches the setting to the amount of memory that is installed in the product. The driver generates ranges of memory that can be selected, up to the maximum that the product can accept. The driver can use this information to manage how the printer driver uses the product memory.

About tab features

The About tab is in the Properties for the printer driver.

1. For Windows XP and Windows Server 2003 (using the default **Start** menu view), click **Start**, click **Settings** (Windows XP), 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**.
- 4. Click the **About** tab.

The **About** tab provides detailed information about the driver. It contains an overall build number (in parentheses after the model name) together with specific information about each of the components. The information varies according to the product model number, driver, date, and versions.

Figure	4-15	About	tab
--------	------	-------	-----

👹 HP LaserJet Properties	? 🛛
General Sharing Ports Advanced Security Device Settings About	
HP LaserJet (c) Copyright 1996-2008 Hewlett-Packard Development Company, L.P.	
Driver Files:	
HPC20556.GPD 3.10.2008 UNIDRV.DLL 0.3.6000.16386 HPMDP081.DLL 0.3.1537.83 UNIDRV.HLP 8.28.2007	
Configuration Status:	
Auto-Configured 07/09/2008 Last configured 07/09/2008 Auto-Configured	
OK Cancel App	oly

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

5 Macintosh software and utilities

Introduction

The product comes with printing software and installers for Apple Computer, Inc., Macintosh operating systems.

Topics:

- Supported operating systems for Macintosh
- Macintosh printing-system software
- Install the Macintosh printing system
- Uninstall the Macintosh printing system
- Supported utilities for Macintosh

Supported operating systems for Macintosh

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

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

www.hp.com/support/ljp2050series

Topics:

- Macintosh operating system requirements
- Change printer-driver settings for Macintosh

Macintosh operating system requirements

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

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

Change printer-driver settings for Macintosh

To change the settings for all print jobs until the software program is closed		To change the default settings for all print jobs		To change the product configuration settings	
1.	On the File menu, click Print.	1.	On the File menu, click Print.	Мас	c OS X v10.3 or Mac OS X v10.4
2.	Change the settings that you want on the various pop-up menus.	2.	Change the settings that you want on the various pop-up menus.	1.	In the Finder, on the Go menu, click Applications .
		3.	On the Presets pop-up menu, click Save as and type a name for the preset	2.	Open Utilities, and then open Printer Setup Utility.
				3.	Click on the print queue.
		These settings are saved in the Presets menu. To use the new settings, you must select the saved preset option	4.	On the Printers menu, click Show Info.	
		eve	ry time you open a program and print.	5.	Click the Installable Options menu.
				NO [.] not	TE: Configuration settings might be available in Classic mode.
				Мас	c OS X v10.5
				1.	From the Apple menu, click System Preferences .
				2.	Under Hardware , click Print & Fax.

To change the settings for all print jobs until the software program is closed	To change the default settings for all print jobs	To change the product configuration settings	
		3.	Select the product, and then click Options & Supplies .
		4.	Click the Driver menu.
		5.	Select the driver from the list, and then configure the installed options.

Macintosh printing-system software

The printing system for Macintosh is composed of an HP-created postscript printer definition file (PPD) and a printer dialog extension (PDE) file that work together with the Macintosh OS print system. These files are used by the Macintosh OS print system to determine default print settings and also allows the user to select between the various print options and settings and are installed by the provided HP LaserJet Installer. Additionally, an HP-supplied Macintosh device configuration utility is provided, which allows the user to access the product embedded Web server (EWS) to allow for additional configuration and product status monitoring. The following are provided on the installation CD:

- The HP LaserJet Installer for Macintosh
- Install notes (Readme file)

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

- HP LaserJet P2050 PPD
- HP LaserJet P2050 PDE
- HP USB EWS Gateway
- HP Device Configuration Utility
- HP Uninstaller for the HP Device Configuration Utility and HP USB EWS Gateway

Topics:

- Supported printer drivers for Macintosh
- Supported software components for Macintosh
- Software component availability for Macintosh
- Macintosh software component descriptions
- Order software for Macintosh

Supported printer drivers for Macintosh

The HP installer provides PostScript[®] Printer Description (PPD) files, Printer Dialog Extensions (PDEs), and the HP Printer Utility for use with Macintosh computers.

The PPDs, in combination with the Apple PostScript printer drivers, provide access to device features. Use the Apple PostScript printer driver that comes with the computer.

Supported software components for Macintosh

Table 5-1 Software components for Macintosh

Component	Description	
Installer software	Installs all of the printing-system software.	
Driver software	Allows printing with the computer and the product. This software includes the following components:	
	 The PostScript Printer Description (PPD) file for printing through HP postscript level 3 emulation 	

Table 5-1 Software components for Macintosh (continued)

Component	Description
HP embedded Web server	Provides a user interface to configure the product.
Online Help	Provides help for using the product software.
	The user documentation for these products is included on the installation CD in Adobe Acrobat .PDF format. You must have Adobe Acrobat Reader installed on your computer to read the .PDF files.

Software component availability for Macintosh

Component	Macintosh
Drivers	
Mac PostScript Printer Description PPD	X
Installers	
Macintosh Installer for OS X	x
Bidirectional communication	
Network Bidirectional Communications	x
Direct Connect Bidirectional Communications	x
Online Documentation	
HP LaserJet P2050 Series Printer User Guide	x
Help systems	x
Other	
HP Printer Utility	x
HP Embedded Web Server	x

Table 5-2 Software component availability for Macintosh

Macintosh software component descriptions

The product includes the following software for Macintosh computers:

- HP LaserJet P2050 Series PPD
- HP LaserJet P2050 Series PDE
- HP Embedded Web Server
- HP Printer Utility
- HP Uninstaller

HP LaserJet PPDs

The PPDs are installed in Library/Printers/PPDs/Contents/Resources:<lang>.lproj, where <lang> is the appropriate localized folder.

The PPDs, in combination with the printer driver, provide access to the product configuration settings and installable options. These settings are usually configured during the installation process by using Apple Mac OS X tools such as Print Center, Printer Setup Utility, and Print & Fax.

PDEs

Printer Dialog Extensions (PDEs) are code plug-ins that provide access to product features, such as number of copies, duplexing, and quality settings.

Install notes (Readme file)

This text file contains information about basic product installation and OS support.

Online help

The help system can be viewed through a browser or in the Macintosh OS Help Center.

Order software for Macintosh

To order the software if the CD is damaged or missing, contact HP Support at the following Web site:

www.hp.com/go/ljp2050series_software

To request the printing-system software CD by phone, see the following Web site for the correct contact number for your country/region:

welcome.hp.com/country/us/en/wwcontact.html

NOTE: If you need a replacement printing-system CD or newer version of the software than what came with the product, go to the product Web site and click CD-ROM Order Page to order the CD, or click Download drivers and software to download the software update.

Install the Macintosh printing system

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

Topics:

- <u>General installation for Macintosh operating systems</u>
- Detailed Mac OS X installation
- Product setup

General installation for Macintosh operating systems

- 1. If you are connecting the product to a network, connect the network cable to the product network port (network models only). If you are connecting the product to a computer using the USB cable, install the software *before* connecting the USB cable.
- 2. Insert the Macintosh printing-system software CD into the CD-ROM drive.
- NOTE: If the CD screen does not open automatically, double-click the CD-ROM icon on the desktop to open the CD-ROM window.
- 3. Double-click the hplj P2055 v8.3.0mpkg icon.
- The Introduction dialog appears. Click Continue, and then follow the onscreen instructions to complete the software installation.
 - NOTE: The installer might prompt the user for a password. Enter the password, and then click **OK**.

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

- 5. When software installation is complete, click **Close**.
- 6. Continue with the steps for setting up a product.

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

Table 5-3 Adding a product in Macintosh operating systems

Operating System	Printer Setup Utility	Print & Fax
Mac OS X v10.3 and v10.4	х	x
Mac OS X v10.5		x

Detailed Mac OS X installation

Topics:

• <u>Main installation sequence</u>

Main installation sequence

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

- NOTE: If you are installing the product using a network connection, you can connect the product to the network before installing the software, but if you are installing the product using a USB connection, install the software *before* connecting the USB cable.
 - 1. Insert the 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, doubleclick the CD-ROM icon on the desktop to open the installer.

2. The opening screen appears.



Double-click the hplj P2055 v8.3.0mpkg icon to begin the installation process.

3. The Introduction screen appears. Click Continue.

Figure 5-2 Introduction screen

Welcome to the HP LaserJet Installer		
Introduction		
Read Me	You will be guided through the steps necessary to	
License	install this software.	
Destination Select		
Installation Type		
Installation		
Summary		
	T	
	177	
	Co Pack Continu	

4. The **Read Me** screen appears. Read the installation information, and then click **Continue**.

	Important Information
lntroduction	To set up a printer queue for your HP LaserJet printer:
O Dood Mo	Mac OS X:
o Read Me	1. Open Print Center / Printer Setup Utility.
License	2. Choose "Add Printer" from the Printers Menu.
Destination Select	4. Select the printer from the printer list.
	5. Verify that correct HP Printer Model is selected.
Installation Type	 Click Add to create Printer queue.
Installation	IMPORTANT if your printer has installable entions (a.a.
Summary	duplex, extra paper trays, internal hard drive) you must follow
	these steps in order to enable these options from the print driver.
	1. Select your printer queue in Print Center / Printer Setup
	Utility.
	 Click on Show Into. Click on the non-up many and select Installable Options.
	4. Select the control setting that correspond to the options in
	your printer.
	After checking and closing this window, these options will
	now be available from the print dialogs.

- Click Print to open the Page Setup dialog for the default printer and print a copy of the • installation notes.
- Click **Save** to open the system **Save** dialog and save the installation notes to disk. ٠

5. The License screen appears. Click Continue.

Figure 5-4 License screen

	Software License Agreement	
Introduction	English 🗘	
Read Me License	Note: The limited warranty for this product and accompanying software is located in the product documentation that you received with this product. Please review it at this time.	
Installation Summary	SOFTWARE LICENSE TERMS SET FORTH BELOW. USING THE SOFTWARE INDICATES YOUR ACCEPTANCE OF THESE LICENSE TERMS. IF YOU DO NOT ACCEPT THESE LICENSE TERMS, YOU MUST RETURN THE SOFTWARE FOR A FULL REFUND. IF THE SOFTWARE IS SUPPLIED WITH ANOTHER PRODUCT, YOU MAY RETURN THE ENTIRE UNUSED PRODUCT FOR A FULL REFUND.	
	HP SOFTWARE LICENSE TERMS The following License Terms govern your use of the accompanying Software unless you have a separate written agreement with HP. License Grant HP grants you a license to Use one copy of the Software "Use"	

- To read the screen in another language, click the drop-down box at the top of the screen, and then select a language.
- 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.
- 6. Click **Agree** in the license pop-up to continue the installation process.

Figure 5-5 License pop-up

To continue installing the software you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation and quit the Installer.

Read License	Disagree	Agree

7. On the **Installation Type** screen, if the default installation location is acceptable, click **Install**.

Figure 5-6 Installation Type screen

000		🞲 Install HP LaserJet		
		Standard Install on "HardDrive"		
Θ	Introduction			
0	Read Me	This will take 636 KB of space on your computer.		
0	License	Click Install to perform a standard installation of		
Θ	Destination Select	this software on the volume "HardDrive".		
Θ	Installation Type			
	Installation			
	Summary			
. (
		Change Install Location		
		Go Back Install		

- To change the installation location, click **Change Install Location**, and then navigate to the correct location.
- The installer might prompt you for a password. Enter the password, and then click **OK**.

8. On the **Installation** screen, a progress bar appears as the installer loads the software.



Figure 5-7 Installation screen progress bar

9. When the installation is complete, the **Summary** screen shows that the installation was successful, and the installation notes open in the default computer Web browser. Click **Close** in the **Summary** screen to end the process.

000	🗊 Install HP LaserJet
	Installation completed successfully
 Introduction Read Me License Destination Select Installation Type Installation Summary 	Co Back

Figure 5-8 Summary screen

NOTE: The Macintosh install notes also are available in this software technical reference guide. See <u>Macintosh install notes on page 198</u>.

Product setup

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

Topics:

- Set up a product with Mac OS X v10.5
- Set up a product with Mac OS X v10.4
- Set up a product with Mac OS X v10.3
- <u>Troubleshooting the product setup</u>

Set up a product with Mac OS X v10.5

Carry out these steps *after* the software installation is complete.

- 1. If you are installing the product using a USB connection, connect the USB cable between the product and the computer. Turn on the product. If you are installing using a network connection, verify that the network cable is connected to the product and the product is on.
- 2. From the Apple menu, click System Preferences.

- 3. In the Hardware area, click Print & Fax.
- 4. If you are installing the product using a USB connection, verify that the product appears on the **Printers** list.

If the product does not appear, or if the correct information does not appear in the **Kind** column, see <u>Troubleshooting the product setup on page 162</u>.

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

- 5. Click the + button to open a printer browser screen that lists detected network products.
- 6. Use either Bonjour or IP Printing for the network connection.
 - Bonjour
 - a. If it is not already active, click the **Default** tab.
 - b. Select the product from the list. The software verifies that the product is connected to the network and the **Print Using** field is automatically populated with the correct PPD for the product.
 - c. If the name does not appear in the list, verify that the product is on and connected to the network, then try turning the product off and then on again. If the product PPD does not appear in the **Print Using** pull-down list, turn the computer off and then on again, then restart the setup process. For more troubleshooting information, see <u>Troubleshooting</u> the product setup on page 162.
 - IP Printing
 - a. Click the IP tab.
 - **b.** Select **HP Jet Direct Socket** from the **Protocol** pull-down menu. This is the recommended setting for HP products.
 - **c.** Print the product configuration page from the product control panel, and then find the product IP address.
 - d. Type the IP address into the Address field.
 - e. he Name, Location, and Print Using information will automatically be filled in. If the product PPD does not appear in the Print Using field, turn the computer off and then on again and restart the setup process.
- 7. Click Add. The product is added to the Printers list.
- 8. Select the product in the list, and then click **Options & Supplies**.
- 9. Click **Drivers**, and then change any installable options as necessary.
 - If the product has the optional Tray 3, select **Tray 3**.
 - Select the **Duplex Unit** check box.
- **10.** Click **OK** to save the changes.

Set up a product with Mac OS X v10.4

Carry out these steps *after* the software installation is complete.

- 1. If you are installing the product using a USB connection, connect the USB cable between the product and the computer. Turn on the product. If you are installing using a network connection, verify that the network cable is connected to the product and the product is on.
- 2. In the Applications folder, open the Utilities folder, and then run the Printer Setup Utility. The Printer List appears.

NOTE: You can also configure the product using the **Print & Fax** pane of **System Preferences** (see <u>Set up a product with Mac OS X v10.5 on page 158</u>).

 If you are installing the product using a USB connection, verify that the product appears on the Printer List. The Kind column in the printer list should display Device Series. If this is the case, the setup is complete.

If the product does not appear, or if the correct information does not appear in the **Kind** column, see <u>Troubleshooting the product setup on page 162</u>.

If you are installing the product 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. You can use either Bonjour or IP Printing for the network connection.

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

- a. Click the Default Browser tab.
- **b.** Select the product from the list. The software verifies that the product is connected to the network and the **Print Using** field is automatically populated with the correct PPD for the product.
- NOTE: If the name does not appear in the list, verify that the product is on and connected to the network, then try turning the product off and then on again. If the Device Series PPD does not appear in the Print Using pull-down list, turn the computer off and then on again, then restart the setup process. For more troubleshooting information, see <u>Troubleshooting</u> the product setup on page 162.

If you want to use the IP Printing method, carry out the following steps:

- a. Click the IP Printer tab.
- **b.** Select **HP Jet Direct Socket** from the **Protocol** pull-down menu. This is the recommended setting for HP products.
- **c.** Print the product configuration page from the product control panel, and then find the product IP address.
- d. Type the IP address into the Address field.
- e. The Name, Location, and Print Using information will automatically be filled in. If the product PPD does not appear in the Print Using field, turn the computer off and then on again and restart the setup process.
- 6. Click Add. The Installable Options screen appears.
- 7. If the product has the optional Tray 3, select **Tray 3**.

- 8. Select the **Duplex Unit** check box.
- **9.** After selecting the installable options, click **Continue**. The product name appears in the **Printer List** and the setup is complete.

Set up a product with Mac OS X v10.3

- 1. If you are installing the product using a USB connection, connect the USB cable between the product and the computer. Turn on the product. If you are installing using a network connection, verify that the network cable is connected to the product and the product is on.
- 2. In the Applications folder, open the Utilities folder, and then run the Printer Setup Utility.

You can also configure the product using the **Print & Fax** pane of **System Preferences** (see <u>Set</u> <u>up a product with Mac OS X v10.5 on page 158</u>).

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

If the product does not appear, or if the correct information does not appear in the **Kind** column, see <u>Troubleshooting the product setup on page 162</u>.

If you are installing the product 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 network connection protocol in the top pull-down menu. The two supported protocols are **Rendezvous** and **IP Printing**.

If you are using Rendezvous, carry out the following step:

Select the product in the **Name** list. The **Printer Model** and **Model Name** are selected automatically.

NOTE: If the product does not appear in the list, verify that the product is powered on and connected to the network. If it still does not appear, try turning the product off and then on again. Finally, turn the computer off and then on again, then restart the setup process. For more troubleshooting information, see <u>Troubleshooting the product setup on page 162</u>.

NOTE: If the automatic selection fails, or if you want to manually select a .PPD file, click the **Printer Model** pull-down menu, select **HP**, and then select the .PPD file that you want to add. If the product PPD does not appear in the **Model Name** list, turn the computer off and then on again and restart the setup process.

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

- a. Select **Socket/HP Jet Direct** from the **Printer Type** pull-down menu. This is the recommended setting for HP products.
- **b.** Print the product configuration page, and then find the IP address on the page.
- c. Type the IP address into the Printer Address field.
- d. Select the **Printer Model** and select the product in the **Model Name** list. If the product PPD does not appear in the **Model Name** list, turn the computer off and then on again and restart the setup process.

- 6. Click Add. The product appears in the Printer List.
- 7. To configure installable options such as a duplexing unit or optional paper tray, click **Show Info?** on the printer list and select **Installable Options** in the pull-down menu.
- 8. If the product has the optional Tray 3, select **Tray 3**.
- 9. Select the **Duplex Unit** check box.
- 10. Click Apply Changes, and then close the Printer List dialog.

Troubleshooting the product setup

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

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

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

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

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

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

Follow these instructions to uninstall the Macintosh printing system.

- 1. Browse to the folder containing the PPDs—Library/Printers/PPDs/Contents/ Resources:<lang>.lproj—where <lang> is the appropriate language.
- 2. Select the product .gz file and drag it to **Trash**.
- 3. Empty the Trash.
- 4. To remove the HP Device Configuration application and supporting files, go to Applications/HP EWS Device Configuration and run the HP Uninstaller application.

Supported utilities for Macintosh

HP Embedded Web Server (EWS)

Mac OS X supports the HP Embedded Web Server (HP EWS). Use the HP EWS to perform the following tasks:

- View the product status and change product 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 <u>HP Embedded Web Server on page 51</u>.

HP Printer Utility

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

Topics:

- Open the HP Printer Utility
- Supplies Status
- Device Information
- File Upload
- Update Firmware
- Upload Fonts
- HP Support
- Duplex mode

- <u>Economode</u>
- Resolution
- <u>Trays Configuration</u>
- Lock Resources
- <u>Stored Jobs</u>
- E-mail Alerts
- <u>Network Settings</u>
- Bonjour Settings
- Additional Settings

Open the HP Printer Utility

In Mac OS X v10.3, follow these steps to open the HP Printer Utility:

- 1. Open the Finder.
- 2. Find and double-click **Printers**. The **Select Printer** screen appears.

In Mac OS X v10.4, follow these steps to open the HP Printer Utility:

- 1. Click Go.
- 2. Click Utilities.
- 3. Double-click HP Printer Selector. The Select Printer screen appears.

Figure 5-9 Select Printer screen (OS X v10.4)



In Mac OS X v10.5, follow these steps to open the HP Printer Utility:

- 1. Open the Finder.
- 2. Click Applications.
- 3. Click Utilities.
- 4. Double-click HP Printer Utility. The Printer Selector screen appears.

If the product does not appear, click **More Printers...**. The **Connection Type** screen appears, as shown in the following figure.

Figure 5-1	0 Conn	ection T	ype screen
------------	--------	----------	------------

Model Name	Serial Number	

Choose the connection type (**USB**, or **TCP/IP**). The product name appears under **Model Name**, as shown in the preceding figure.

On the **Connection Type** screen, click **Add**. The **Select Printer** screen appears, showing product information.

To open the HP Printer Utility directly, select the product, and then click Launch Utility.



Figure 5-11 Select Printer screen – printer selected

On the Select Printer screen, click Settings to open the Device Status screen in the HP Printer Utility.

To open the HP Printer Utility, select the product and click Launch Utility.

If the HP Printer Utility software detects a condition that might need attention, the **Printer Status** screen appears.

The following er	ror conditions have been detected on you	ır printer
Paper level is lo	w	
		_
Please select the er	ror name in the list above to get the explanation,	/advice.
Please add some	paper to the input tray.	
		_

Address the condition and click **OK** to close the screen. The HP Printer Utility opens.

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

Supplies Status

The HP Printer Utility opens to the Current Supplies Levels screen.

000	HP Printer Utility
Configuration Settings Information And Support	Supplies Media Current Supplies Levels
Supplies Status	The current supplies levels for the selected printer is shown below.
Bevice Information	Black Cartridge 100%
🚔 File Upload	
📸 Update Firmware	
A Upload Fonts	
HP Support	
Printer Settings	Detailed Supplies Information
Duplex Mode	
Conomode &	Shop for Supplies
Printer Name: NPI937F3D	Printer Status: Idle Apply Nov

Click Detailed Supplies Information... to open the Supplies Information screen.

Figure 5-14 Supplies Information screen $\Theta \Theta \Theta$ Supplies Information Hewlett-Packard supplies can be ordered on the internet, on-line through your printer software or by calling an authorized reseller. Refer to your printer User Guide for instructions. Black Cartridge - Genuine HP 100% Order HP Part: Q7551A Approximate Pages Remaining: 6310 (Pages remaining will vary depending on types of documents printed.) Low Reached: NO Serial Number: 5317262 First Install Date: 20050331 Last Used Date: 20060314 Please return your used genuine HP supplies to Hewlett-Packard. For more information see: http://www.hp.com/go/recycle

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

If you have Internet access and click **Shop for Supplies** (see <u>Figure 5-13 Current Supplies Levels screen</u> <u>on page 167</u>), a screen appears that explains the ordering process and describes the kind of information that can be sent about your product to facilitate the ordering of supplies.



After either option is selected (Send or Don't Send), the Welcome to HP SureSupply Web page opens.



Figure 5-16 Welcome to HP SureSupply Web page

On the **Transfer printer information to HP SureSUpply?** page, click the **Shared Information** link to open a screen that shows the HP privacy statement.

Figure	5-17	ΗP	privacy	statement
--------	------	----	---------	-----------

			United States-English
» HP Home » Produ	cts & Services » Support & Drivers	» Solutions	» How to Buy
» Contact HP		Search:	
	Online privacy staten	nent	
» Online privacy statement	HP Respects your privacy		
 » Privacy statements for other countries/regions » HP Global master privacy policy » Cookies & Web Beacons » P3P technology » Back to previous page 	HP and its subsidiaries respect your priva Privacy Statement to inform you of our Pri- about the way your information is collecte our websites so that, in general, you can v any personal information. We make this n of every HP Web page. Some HP Web pa over your personal information.	cy and are committed to prote vacy Policy and practices and d online and how that informs isist HP on the Web without id otice readily available on our ges are <u>P3P-enabled</u> , which	ecting it. HP provides this I of the choices you can make titon is used. We've structured entifying yourself or revealing home page and at the bottom allows you additional control
	HP is a founding sponsor of the Council o "gold standard" for privacy certification. He Program and we are proud to display the	f Better Business Bureau's <u>BE</u> P privacy practices meet the r BBBOnLine Privacy Seal.	<u>BOnLine</u> Privacy Program, the equirements of the Privacy
	HP has also self-certified its privacy practi Notice, Choice, Onward Transfer, Access information about the U.S. Department of http://www.export.gov/safeharbor/.	ces as consistent with U.SE and Accuracy, Security, and (Commerce Safe Harbor Prog	.U. Safe Harbor principles: Oversight/Enforcement. More ram can be found at
	 Sites covered by this privacy state Types of information we collect Children's privacy How we use your information Who we share your information wi Your choices Your privacy preferences and opti 	<u>ment</u> I <u>h</u> ng out	

You can continue ordering supplies without sending product information by clicking the **Don't Send** link.

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

Figure 5-18 Paper Status screen

Configuration Settings	Supplies Media
Information And Support	Paper Status
Supplies Status	The current paper status for the selected printer is shown below.
	Tray 1: Empty
Device Information	Tray 2: Not Empty
File Upload	
🚯 Update Firmware	
A Upload Fonts	
1 HP Support	
Printer Settings	
Duplex Mode	
A Economode &	Shop for Supplies
Doner Density	

You can also order supplies from this screen by clicking Shop for Supplies.

Device Information

Click **Device Information** in the menu on the left to find the product service ID (if assigned), the firmware version, and the serial number.

00	HP Printer Utility	
Configuration Settings Information And Support Supplies Status Configuration Price Information File Upload Upload Fonts Upload Fonts HP Support Printer Settings Duplex Mode Configuration	Device Information Service ID: 00000 FW Version: 02.028.0 Serial Number: XXXXXXXXX View information about the currently selected printer by clicking the View Configuration Page button below.	11
Printer Name: NPI937F3D	Printer Status: Idle	Vov

The product configuration page shows other settings; click View Configuration Page to see it.

Click the product icon in the lower-left corner to see information about another installed devices. This action relaunches the HP Printer Utility so that you can select another device.

File Upload

On the Configuration Settings menu, click File Upload to open the File Upload screen.

00	HP Printer Utility	
Configuration Settings		
Information And Support	File Upload	
Supplies Status	Select a file and transfer it to your printer. The depends on the content of the file you transfer	result of this operation
Device Information	File Name: <not selected=""></not>	Choose)
🚔 File Upload	Display response from	n the device
Wpdate Firmware	Contral and	
A Upload Fonts		
MP Support		
Printer Settings		
Duplex Mode	Upload)
Economode &	Opioas	
Printer Name: NPI937F3D	Printer Status: Idle	C Apply Nov

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

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

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

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

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

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

Update Firmware

Choose **Update Firmware** to locate a firmware upgrade file and install it on the product. The **Update Firmware** screen is shown in the following figure.

Figure 5-21 Update Firmware screen

00	HP Printer Utility	
Configuration Settings		
Information And Support	Update Firmware	
Supplies Status	Select a file containing a firmware update and trans to update it.	sfer that file to the printer
Device Information	File Name: <not selected=""></not>	Choose
🚔 File Upload		
🗳 Update Firmware		
A Upload Fonts		
MP Support		
Printer Settings		
Duplex Mode	(lindate)	
Economode &	Opuare	
Printer Name: NPI937F3D Model Name: HP LaserJet P3005	Printer Status: Idle Supplies: Genuine HP	Apply Now

Click **Choose** to open a navigation screen. Browse to the firmware file and click **Open**. The **Update Firmware** screen shows the file name. Click **Update**.

Upload Fonts

In the **Information and Support** menu, click **Upload Fonts** to gain access to fonts that you can upload to the product.

Figure 5-22 Upload Fonts screen

Configuration Settings		
Information And Support	Upload Fonts	
Supplies Status	Select a file containing printer fonts and transfer that file to your prin fonts you transfer will then be available for use in print jobs.	ter. The
Device Information	Fonts in printer's: Memory	\$
🚔 File Upload	Albertus-ExtraBold	0
Wpdate Firmware	Albertus-Medium AntiqueOlive	ſ
A Upload Fonts	AntiqueOlive-Bold	
MP Support	Arial	
Printer Settings	Arial-Boldtalic	4
Duplex Mode	Arial-Italic	•
Economode &	(Remove) (Add	i

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

• Memory. Fonts that are available in the product memory are listed.

To remove a font, choose it, and then click **Remove**.

To add a font, click Add... . The Upload Fonts screen appears, as shown in the following figure.

Figure 5-23 Upload Fonts dialog

opioau	Font Name
	(Add System Font) (Add Font File)

To add a system font, click **Add System Font...** . The Add System Fonts screen appears, as shown in the following figure.

Figure 5-24 Add System Fonts screen

Bayan Bayan-Bold	0
3avan-Bold	
nericanTypewriter	
nericanTypewriter-Bold	
nericanTypewriter-Condensed	
nericanTypewriter-CondensedBold	
nericanTypewriter-CondensedLight	
nericanTypewriter-Light	
daleMono	
ple-Chancery	
pleGothic	
pleMyungjo	
pleSymbols	4
al-Black	v

To add a font, click Add to List. To close the screen, click Cancel.

To add a font file, click **Add Font File** in the **Upload Fonts** screen. A navigation screen opens. Navigate to the font file and click **Open**. To close the screen, click **Cancel**.

HP Support

Click HP Support to open the HP Online Support screen.

00	HP Printer Utility
Configuration Settings Information And Support Supplies Status Device Information File Upload Update Firmware Upload Fonts Upload Fonts HP Support Printer Settings Duplex Mode Conormode & Toner Density	HP Online Support page on the HP Web site provides technical assistance and support for your printer. Instant Support The Order Supplies button connects you to a web page that will facilitate online ordering of supplies for your printer by ensuring that the correct supplies are ordered through HP or a reseller of your choice. Shop for Supplies The HP Registration page on the HP Web site allows you to register your printer online. Online Registration
Printer Name: NPI937F3D Model Name: HP Laserlet P30	Printer Status: Idle Apply No

If you have Internet access, you can connect to HP support pages over the Web from this screen.

Click the Instant Support link to open the HP Instant Support Web page.

Figure 5-26 HP Instant Support link

Wire Supply : Simpler, smarter online supplies ordering	The hp instant support link connects you to a set of dynamic web pages that will help you solve specific problems, and determine what additional services are available for your device. To deliver this experience, detailed information, including serial number, error conditions, and status will be transferred to Hewlett-Packard. HP will treat this information in the manner set out in the <u>Hewlett-Packard Online Privacy Statement</u> . If you do not wish to send information to Hewlett-Packard, but would like to receive generic product support for your product type, please click here: <u>Product</u> <u>Support</u> . To have the best support experience, please click the Continue button. (Continue) Cancel
<u>Learn more about</u> <u>HP SureSupply</u>	
Privacy Statement	Using this site means you accept its terms
	© 2005 Hewlett-Packard Development Company, L.P.

Click the **Hewlett-Packard Online Privacy Statement** link to open a screen that shows the HP privacy statement.

Click the **Product Support** link if you do not want to send information to HP but would like to receive generic product support.

Click **Continue** to open a page where you can select the product and find further information about product support.

Click Cancel to return to the HP Online Support screen in the HP Printer Utility.

Click **Shop for Supplies** to open the Order Supplies Web page (see <u>Figure 5-16 Welcome to</u> <u>HP SureSupply Web page on page 168</u>).

Click Online Registration to open the HP Registration Web page and register the product.

Figure 5-27 HP Registration Web page

» HP Home			
» Contact HP		Search:	
	HP Registration		
 » HP Registration » Your user profile » Product registration » Subscriber's Choice » Frequently asked questions 		Register today with HP to Access support and services HP products Manage your profile and regi Sign up for free support alert personalized newsletters HP registration	s, and get the most out of your ister your products is, driver notices, and
		I am a new visitor Please select your Country or Region. Country / Region UNITED STATES Register »	Lam a returning visitor Welcome back. Please sign in. User ID Password Password sForgot your User ID? » Forgot your password? Sign-in »

Duplex mode

If a duplex unit is installed, the **Configuration Settings** menu includes a **Duplex Mode** setting. Click this setting to open the **Duplex Mode** screen, as shown in the following figure.

Figure 5-28 Duplex Mode screen

00	HP Printer Utility	
Configuration Settings		-
Information And Support	Duplex Mode	
	Using the Duplex Printing mode allows printing on both sides of each page.	•
Supplies Status	Enable Duplex Mode	
Bevice Information		
🚔 File Upload		
🖏 Update Firmware		
A Upload Fonts		
MP Support		
Printer Settings		
🗊 Duplex Mode		
Economode &		
Toner Density		
Printer Name: NPI937F3D	Printer Status: Idle Apply N	low

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

Economode

Under **Printer Settings**, choose the **Economode and Toner Density** menu item to open the Economode screen, as shown in the following figure.

Figure 5-29 Economode & Toner Density screen



Selecting this option extends the life of the toner supply and reduces cost per page. However, it also reduces print quality. The printed image is lighter, but it is adequate for printing drafts or proofs.

HP does not recommend the full-time use of Economode. If Economode is used full-time when the average toner coverage is significantly less than 5%, it is possible that the toner supply will outlast the mechanical parts in the print cartridge. If print quality begins to degrade under these circumstances, you must install a new print cartridge, even if toner remains in the cartridge.

NOTE: The Turn Economode On setting might work only if a genuine HP print cartridge is installed. HP print cartridges can measure the life of the mechanical parts as well as the quantity of toner. If the Turn Economode On setting is used frequently, the mechanical parts can wear out before the supply of toner is depleted, increasing the risk of toner leaking. Use genuine HP parts to avoid this problem.

Change the settings in the **Toner Density** drop-down menu to save on toner use. The following settings are available:

- 1
- 2
- 3
- 4
- 5

Lower settings result in slightly reduced printing quality, but save on toner usage.

Resolution

Under **Printer Settings**, choose **Resolution** to open the **Default Resolution** screen, as shown in the following figure.

Figure 5-30	Default Resolution	screen
-------------	--------------------	--------

Configuration Settings	Default Resolution
MP Support	Set the resolution setting to be used as the default for the selected printer.
Printer Settings	Resolution: FASTRES 1200
Duplex Mode Economode & Toner Density	Resolution Enhancement Technology (REt) Set the REt level to be used as the default for the selected printer.
Resolution	REt Level: MEDIUM
🚔 Lock Resources	
Stored Jobs	
– E-mail Alerts	
Printer Name: NPI937F3D	Printer Status: Idle

The following dots-per-inch (dpi) settings are available in the **Default Resolution** drop-down menu:

- 300
- 600
- FASTRES 1200
- PRORES 1200

When the **PRORES 1200** setting is selected, documents are printed using a resolution of 1200 x 1200 dpi. This is the best print quality, but printing speed is slower than for documents printed on the **FASTRES 1200** setting, which uses a resolution of 1200 x 600 dpi

The following settings are available in the **Resolution Enhancement Technology (REt)** drop-down menu:

- OFF
- LIGHT
- MEDIUM
- DARK

NOTE: When a **PRORES1200** setting is selected, documents are printed using a resolution of 1200 x 1200 dpi. This is the best print quality, but printing speed is slower than for documents printed on the **FASTRES 1200** setting, which uses a resolution of 1200 x 600 dpi.

Trays Configuration

Under **Printer Settings**, choose **Trays Configuration** to open the **Trays Configuration** screen, as shown in the following figure.



Configuration Settings		inter otinity	
Por Upload Fonts	Trays Config	uration	
MP Support	You can configu	, ure the default media type and size for each tray.	
Printer Settings	Trays	Selected tray: Tray 1	
Duplex Mode	Tray 1 Tray 2		
Conomode & Toner Density		Any	•
Sesolution		Default Media Size:	
Trays Configuration		Any Size	•
Lock Resources			
Stored Jobs			
E-mail Alerts			
Printer Name: NPI937F3D	F	Printer Status: Idle	upply Now

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

Lock Resources

Select **Lock Resources** to lock certain features of the product. The **Lock Resources** screen is shown in the following figure.



Configuration Settings	
1 opioud ronts	Lock Resources
MP Support	Manage resources by changing control panel and storage units access.
Printer Settings	Control Panel Access Level: No Locking
Duplex Mode	Click the checkbox to lock or unlock a mass-storage unit.
En anna da A	Lock Mass-storage Units
Toner Density	Hewlett-Packard Dynamic RAM Disk
🧶 Resolution	
Trays Configuration	
Example 2 Lock Resources	
Stored Jobs	
E-mail Alerts	Initialize selected mass-storage unit
0	

In Control Panel Access Level, choose one of the following settings:

- No Locking provides full control of the product.
- Minimal Locking provides control over paper-handling features.
- Moderate Locking blocks changes in the product configuration.
- **Maximal Locking** prevents users from changing product control-panel settings.

In the lower pane, select the Lock check box for the mass-storage unit that you want to lock.

▲ WARNING! Click Initialize selected mass-storage unit *only* if you want to erase all data that is currently stored on the hard drive. You cannot undo this action.

Stored Jobs

Choose **Stored Jobs** to change the **Enable Job Storing** setting. This setting is selected by default. Click to clear the check box to disable the job-storing feature.

Figure 5-33 Enable Job Storing screen

Configuration Settings	Enable Job Storing
MP Support	
Printer Settings	Select a stored job to print or delete it. You may print multiple copies by entering the number of copies required.
Duplex Mode	User Name Job Name
Conomode & Toner Density	
🧶 Resolution	
Trays Configuration	
Lock Resources	
Stored Jobs	Enter Secure Job PIN:
E-mail Alerts	Copies to Print: 1 Delete Print

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

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

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

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

Job-storage print jobs can also be released or deleted at the product control panel.

Topics:

- Releasing a job-storage print job
- Deleting a job-storage print job

Releasing a job-storage print job

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

- 1. Press the<u>Menu</u> button to open the menus.
- 2. Use the arrow buttons to select **RETRIEVE JOB**, and then press OK.
- 3. Use the arrow buttons to select your user name, and then press OK.
- 4. Use the arrow buttons to select the job name, and then press OK.
- 5. Use the arrow buttons to select **PRINT**, and then press OK.
- 6. Press OK.

7. If a PIN number is assigned to the job, use the arrow buttons to select the first digit of the PIN, and then press OK. The number in the product control-panel display changes to an asterisk. Repeat this step for each of the remaining three digits of the PIN number.

If no PIN number is assigned to the job, continue with the next step.

- 8. Use the arrow buttons to select the number of copies to print.
- 9. Press OK to print the job.

Deleting a job-storage print job

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

- 1. Press the<u>Menu</u> button to open the menus.
- 2. Use the arrow buttons to select **RETRIEVE JOB**, and then press OK.
- 3. Use the arrow buttons to select your user name, and then press OK.
- 4. Use the arrow buttons to select the job name, and then press OK.
- 5. Use the arrow buttons to select **DELETE**, and then press OK.
- 6. Press OK.
- 7. If a PIN number is assigned to the job, use the arrow buttons to select the first digit of the PIN, and then press OK. The number in the product control-panel display changes to an asterisk. Repeat this step for each of the remaining three digits of the PIN number.

If no PIN number is assigned to the job, continue with the next step.

8. Press OK to delete the job.

E-mail Alerts

The **E-mail Alerts** screen is available if the product is installed over a network connection. It is not available when the product is installed over a USB connection.

Choose E-mail Alerts to configure the product to send e-mail notifications to users.

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

Figure 5-34 E-mail Alerts screen

00	HP Printer Utility
Configuration Settings	
Duplex Mode	E-mail Alerts
60 Economode & Toner Density	The selected printer can be configured to notify you about errors and other events via e-mail messages. You can view or change these settings by clicking the button below
🥌 Resolution	cicking the batton below.
Trays Configuration	Open E-mail Alerts Settings
🚔 Lock Resources	
Stored Jobs	
🐴 E-mail Alerts	
A Network Settings	
Bonjour Settings	
Additional Settings	
Printer Name: NPI937F3D	Printer Status: Idle Apply No

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

Network Settings

The **Network Settings** screen is available if the product is installed over a network connection. It is not available when the product is installed over a USB connection.

0	HP Printer	Utility	
Configuration Settings Duplex Mode	IP Settings		
Economode &	Configuration:	DHCP	
Resolution	Host Name:	NPI937F3D	
Trave Configuration	IP Address:	10.10.48.119	
	Subnet Mask:	255.255.255.0	
E Lock Resources	Default Gateway:	10.10.48.1	
Stored Jobs	Additional Natwo	k Sattings	
📩 E-mail Alerts	Click Additional Netwo	rk Settings to get to the printer's	s embedded web server
Network Settings	Network Settings page other network settings	. There you can configure Apple	Talk, IPX, SNMP and
Bonjour Settings	0	Additional Network Settings	D
Additional Settings			

Choose Additional Network Settings to open the TCP/IP Settings page of the HP EWS Networking screen.

Figure 5-36 Networking screen (IP) HP LaserJet P3005 Information Settings Networking CONFIGURATION (TCP/IP Settings Network Settings **TCP/IP Settings** Summary Network Identification TCP/IP(v4) TCP/IP(v6) Config Precedence Advanced Other Settings Privacy Settings NPI937F3D Host Name: Select Language Enabled IPv4 Status: SECURITY Fully Qualified Domain Name(IPv4): NPI937F3D.sakson.corp Settings Authorization IPv4 Address: Address: 10.10.48.119 Subnet Mask: 255.255.255.0 Mgmt. Protocols 802.1x Authentication Default Gateway: 10.10.48.1 DIAGNOSTICS Config By: DHCP Network Statistics Protocol Info DHCP Lease Time: 259200 Seconds **Configuration Page** IPv6 Status: Enabled Fully Qualified Domain Name(IPv6): Other Links Address Prefix length Config By Valid Lftm Pref Lftm Help Support HP Home fe80::214:38ff:fe93:7f3d 64 Link-Local Infinite Infinite Default Route Information: Address Expires In

Choose one of the following options in the **Configuration** drop-down menu:

- DHCP
- BootP
- Manual

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

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

To save new settings, click Apply Now.

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

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

The HP EWS opens to the **Network Settings** screen. For information about this screen, see <u>Network</u> <u>Settings on page 183</u> in this STR.

Bonjour Settings

The **Bonjour Settings** screen is available if the product is installed over a network connection. It is not available when the product is installed over a USB connection.

Choose Bonjour Settings to open the Bonjour Settings screen. Bonjour is enabled by default.

Figure 5-37 Bonjour Settings screen

0	HP Printer Utility		
Configuration Settings Duplex Mode Economode & Toner Density	Bonjour Settings		
Resolution	Bonjour service name:	HP LaserJet P3005 [937F3D]	
Trays Configuration	The highest priority service:	LPD-BINPS	;
Lock Resources	Access your device at URL:	http://NPI937F3D.local.	
Stored Jobs			
📥 E-mail Alerts			
Network Settings			
Bonjour Settings			
Additional Settings			
Printer Name: NPI937F3D	Printer Status: Idle	CA CA	pply No

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

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

- Port 9100 (default)
- IPP
- LPD-RAW
- LPD-TEXT
- LPD-AUTO
- LPD-BINPS
- LPD-Queue5
- LPD-Queue6
- LPD-Queue7
- LPD-Queue8
- LPD-Queue9
- LPD-Queue10

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

Additional Settings

Choose Additional Settings to open the HP EWS.

0	HP Printer Utility
Configuration Settings Uplex Mode Concorde & Toner Density Resolution Trays Configuration Lock Resources Stored Jobs Concord Jobs E-mail Alerts Rework Settings Settings Additional Settings	Web Server The selected printer may be configured using an embedded web server. View printer information and configuration options by clicking the button below.
Printer Name: NPI937F3D	Printer Status: Idle

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

For information about HP EWS settings, see <u>HP Embedded Web Server on page 51</u> or consult the HP EWS user guide.

6 Engineering details

Topics:

- Media attributes
- Windows install notes
- Macintosh install notes
- Troubleshooting checklist

Media attributes

This section includes the following information about media attributes:

- Supported paper and print media sizes
- Special paper or print media guidelines
- Supported paper and print media types

. . .

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- Tray and bin capacity
- Custom paper sizes

. .

Supported paper and print media sizes

This product supports a number of paper sizes, and it adapts to various media.

NOTE: To obtain best results, select the correct paper size and type in the printer driver before printing.

lable 6-1 Supported paper and print media sizes							
Size and dimensions	Tray 1	Tray 2	Optional 500-sheet Tray 3	Duplexer			
Letter	\checkmark	\checkmark	\checkmark	\checkmark			
216 x 279 mm (8.5 x 11 inches)							
Legal	\checkmark	\checkmark	\checkmark	\checkmark			
216 x 356 mm (8.5 x 14 inches)							
A4	\checkmark	\checkmark	\checkmark	\checkmark			
210 x 297 mm (8.27 x 11.69 inches)							
A5	\checkmark	\checkmark	\checkmark				
148 x 210 mm (5.83 x 8.27 inches)							
A6	\checkmark	\checkmark	\checkmark				
105 x 148 mm (4.1 x 5.8 inches)							
B5 (JIS)	\checkmark	\checkmark	\checkmark				
182 x 257 mm (7.17 x 10.12 inches)							
Executive	\checkmark	\checkmark	\checkmark				
184 x 267 mm (7.24 x 10.51 inches)							
Postcard (JIS)	\checkmark						
100 x 148 mm (3.9 x 5.8 inches)							
Double Postcard (JIS)	\checkmark						
148 x 200 mm (5.8 x 7.9 inches)							
16K	\checkmark						
184 x 260 mm (7.2 x 10.2 inches)							

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

Size and dimensions	Tray 1	Tray 2	Optional 500-sheet Tray 3	Duplexer
16K	\checkmark			
195 x 270 mm (7.7 x 10.6 inches)				
16K	\checkmark			
197 x 273 mm (7.8 x 10.8 inches)				
8.5 x 13	\checkmark	\checkmark	\checkmark	✓
216 x 330 mm (8.5 x 13 inches)				
Envelope Commercial #10	\checkmark			
105 x 241 mm (4.13 x 9.49 inches)				
Envelope B5 ISO	\checkmark			
176 x 250 mm (6.7 x 9.8 inches)				
Envelope C5 ISO	\checkmark			
162 x 229 mm (6.93 x 9.84 inches)				
Envelope DL ISO	\checkmark			
110 x 220 mm (4.33 x 8.66 inches)				
Envelope Monarch	\checkmark			
98 x 191 mm (3.9 x 7.5 inches)				
Custom	\checkmark			
76 x 127 mm to 216 x 356 mm				
(3.0 x 5.0 inches to 8.5 x 14 inches)				

Special paper or print media guidelines

This product supports printing on special media. Use the following guidelines to obtain satisfactory results. When using special paper or print media, be sure to set the type and size in your print driver to obtain the best print results.

△ CAUTION: HP LaserJet printers use fusers to bond dry toner particles to the paper in very precise dots. HP laser paper is designed to withstand this extreme heat. Using inkjet paper not designed for this technology could damage your printer.

Media type	Do		Do	not
Envelopes	•	Store envelopes flat.	•	Do not use envelopes that are wrinkled nicked stuck together or
	•	Use envelopes where the seam extends all the way to the corner of		otherwise damaged.
		the envelope.	•	Do not use envelopes that have clasps, snaps, windows, or coated
	Use peel-off are approved			linings.
		printers.	•	Do not use self-stick adhesives or other synthetic materials.

Media type	Do		Do	not
Labels	•	Use only labels that have no exposed backing between them.	•	Do not use labels that have wrinkles or bubbles, or are damaged.
	•	Use Labels that lie flat.	•	Do not print partial sheets of labels.
	•	Use only full sheets of labels.		
Transparencies	•	Use only transparencies that are approved for use in laser printers.	•	Do not use transparent print media not approved for laser printers.
	•	Place transparencies on a flat surface after removing them from the product.		
Letterhead or preprinted forms	•	Use only letterhead or forms approved for use in laser printers.	•	Do not use raised or metallic letterhead.
Heavy paper	•	Use only heavy paper that is approved for use in laser printers and meets the weight specifications for this product.	•	Do not use paper that is heavier than the recommended media specification for this product unless it is HP paper that has been approved for use in this product.
Glossy or coated paper	•	Use only glossy or coated paper that is approved for use in laser printers.	•	Do not use glossy or coated paper designed for use in inkjet products.

Supported paper and print media types

For a complete list of specific HP-brand paper that this product supports, go to <u>www.hp.com/support/</u><u>ljp2050series</u>.

Paper type (control panel)	Paper type (printer driver)	Tray 1	Tray 2	Optional 500- sheet Tray 3	Duplexer
PLAIN 75–95 G	Plain	\checkmark	\checkmark	\checkmark	\checkmark
LIGHT 60-74 G	Light 60-74g	\checkmark	\checkmark	\checkmark	\checkmark
MID-WEIGHT	Mid-weight	\checkmark	\checkmark	\checkmark	\checkmark
HEAVY 111–130 G	Heavy 111–130g	\checkmark	\checkmark	\checkmark	
EXTRA HEAVY 131–175 G	Extra heavy 131–175g	\checkmark			
TRANSPARENCY	Monochrome Laser Transparency	\checkmark	\checkmark	\checkmark	
LABELS	Labels	\checkmark			
LETTERHEAD	Letterhead	\checkmark	\checkmark	\checkmark	\checkmark
PREPRINTED	Preprinted	\checkmark	\checkmark	\checkmark	\checkmark
PREPUNCHED	Prepunched	\checkmark	\checkmark	\checkmark	\checkmark
COLOR	Colored	\checkmark	\checkmark	\checkmark	\checkmark

Paper type (control panel)	Paper type (printer driver)	Tray 1	Tray 2	Optional 500- sheet Tray 3	Duplexer
ROUGH	Rough	\checkmark	\checkmark	\checkmark	
BOND	Bond	\checkmark	\checkmark	\checkmark	\checkmark
RECYCLED	Recycled	\checkmark	\checkmark	\checkmark	\checkmark
ENVELOPE	Envelope	\checkmark			

Tray and bin capacity

Tray or bin	Paper type	Specifications	Quantity
Tray 1	Paper	Range:	Maximum stack height: 5 mm (0.3 inch)
		60 g/m ² (16 lb) bond to 200 g/m ² (54 lb) bond	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 2	Paper	Range:	Equivalent to 250 sheets of 75 g/ m^2 (20 lb) bond
		(36 lb) bond (36 lb) bond (5 135 g/m ²)	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)
Optional 500-sheet Tray 3	Paper	Range:	Equivalent to 500 sheets of 75 g/ m ² (20 lb) bond
		60 g/m ² (16 lb) bond to 135 g/m ² (36 lb) bond	Maximum stack height for A6 paper: 40 mm (1.6 inches)
	Transparencies	Minimum 0.13 mm (0.005 inch) thick	Maximum stack height: 54 mm (2.1 inches)
Standard top bin	Paper		Up to 125 sheets of 75 g/m ² (20 lb) bond

Custom paper sizes

This product supports a variety of custom paper sizes. Supported custom sizes are sizes that are within the minimum- and maximum-size guidelines for the product but are not listed in the supported paper sizes table. When using a supported custom size, specify the custom size in the print driver, and load the paper in a tray that supports custom sizes.

Windows install notes

- Introduction
- Installation instructions for Windows
- <u>Technical assistance</u>
- Legal statements

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 software. The installation instructions are for the following operating systems:

- Windows 2000 (printer driver only)
- Windows XP (32-bit and 64-bit)
- Windows Server 2003 (32-bit and 64-bit)
- Windows Vista[™] (32-bit and 64-bit)

For instructions for other systems, see the associated install notes, readme files, or other product information for that system. For more information about the product and printer-driver features, see the *HP LaserJet P2050 Series Printer User Guide* and the online help included with each software component.

System requirements

The following are compatible system requirements for Windows and Macintosh:

- Windows 2000: 333 MHz processor with 64 MB RAM
- Windows XP: 333 MHz processor with 128 MB RAM
- Windows Server 2003: 550 MHz processor with 128 MB RAM (Standard Edition)
- 220 MB of available hard-disk space
- CD-ROM drive or Internet connection
- Dedicated universal serial bus (USB 2.0) connectivity port or network connection

Overview of the printing system components

The CD that is included with the product has software for Windows operating systems and Apple Macintosh operating systems. For more information about a particular printer driver or software component, see the associated online help.

Network administrator software components

The CD that is included with the product has software for Windows operating systems and Apple Macintosh operating systems. For more information about a particular printer driver or software component, see the associated online help.

HP Web Jetadmin

Network administrators can use HP Web Jetadmin software to configure and manage HP products across a variety of operating systems.

NOTE: HP Web Jetadmin is not included on the software CD. Network administrators can download the HP Web Jetadmin software at the following Web site: www.hp.com/go/webjetadmin.

Update Now

If you have modified the product configuration after installation, you can automatically update the driver with the new configuration in environments that support bidirectional communication. Click the **Update Now** button to automatically reflect the new configuration in the driver.

End-user software components

Printer drivers

A printer driver is a software program that other software programs use to gain access to the product features. Typically, you install a printer driver on each computer that will use the product.

The printing-system software CD that came with the product includes the following printer driver: HP PCL 6.

The most recent printer drivers and printing-system software are available at the following Web site: www.hp.com/support/ljp2050series.

Additional printer drivers might be available from an HP distributor or from online sources. See <u>Technical</u> <u>assistance on page 196</u> or see the user guide for more information about obtaining printer drivers and other HP software.

HP ToolboxFX for Microsoft Windows

HP ToolboxFX software is a software program used to perform the following tasks: check the product status, configure the product settings, view troubleshooting information, and view online documentation.

Product documentation

The user guide is located in the following places:

- On the printing-system software CD
- From within the HP LaserJet printer program group

Some documents are not available in all languages on the CD. See the following Web site for more documentation and information: <u>www.hp.com/support/ljp2050series</u>.

Uninstaller software for Microsoft Windows

Use the uninstaller utility to remove the Windows HP printing-system components. See <u>Uninstaller</u> on page 196 for more instructions.

Installation instructions for Windows

In a Windows environment, the CD setup or installation software detects the version of the operating system that you are running. The software is installed in the language that you select. For example, if you are running an English version of Windows and have the language preference set to Spanish, the installation utility installs the Spanish version of the printing software for the appropriate Windows version.

Installation options for Windows

The following methods are available for installing printer drivers and software components.

Recommended Install. This method installs the full set of drivers and software, including status, alerting, and troubleshooting tools. This method is recommended for computers in a direct-connect or a home/small network environment.

Express Install. This method installs the minimum set of drivers and software. This method is recommended for servers or computers in a network environment.

Install software on Windows XP, Windows Server 2003, and Windows Vista systems

NOTE: Connecting the product to the computer before installing software, also called "Plug and Play," is not recommended. See the getting started guide for more information.

NOTE: Administrator privileges are required to install the printing system onto a Windows 2000, Windows XP, Windows Server 2003, or Windows Vista operating system.

Printing-system installation from the CD or Internet download (Recommended)

- 1. Quit all programs.
- 2. Insert the CD.
- 3. When the main menu appears, click **Install Product Software**.
- 4. Follow the onscreen instructions.
- 5. If the HP printing-system installer program has not started after 30 seconds, complete steps 6 through 10.
- 6. On the Start menu, select Run.
- 7. Browse to the root directory for the CD drive.
- 8. Select the SETUP.EXE file. Click **Open** and click **OK**.
- 9. When the main menu appears, click Recommended Install or Express Install.
- **10.** Follow the onscreen instructions.

NOTE:

Network connection

If a computer on the network already has the product software installed, no additional software installation is necessary when adding a new product to the network. Otherwise, install the product software on one of the networked computers as directed below.

- 1. Insert the software installation CD into the computer CD-ROM drive.
- 2. If the installation program does not start automatically, browse the CD contents and run the SETUP.EXE file.
- 3. Follow the on-screen instructions.
- NOTE: If you download the printing-system electronically and are using Web files, you need to first run the EXE file(s). If SETUP.EXE does not run automatically, browse to its root location, double-click the file, and follow the onscreen instructions.

Port selection

When the installation process is complete, you might need to assign the product to a port on your network if you did not assign a port during setup. Perform the following procedure:

- 1. Click Start, select Settings, and then select Printers and Faxes.
- 2. Select the product that you just installed.
- 3. On the toolbar, click File.
- 4. Click Properties.
- 5. Click the **Port** tab to change the port information.

Uninstaller

To remove the HP printing-system components, click the uninstall icon in the HP LaserJet P2050 Series printer program group.

Start the uninstaller

- 1. In the HP LaserJet P2050 Series program group, click the uninstall icon.
- 2. Follow the onscreen instructions to remove some or all of the printing-system components.
- NOTE: For printer-driver-only (Add Printer) installations, delete the product icon from the **Printers and Faxes** folder.

Technical assistance

Some of the following services are provided only for the United States. Similar services are available in other countries/regions.

Customer support

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

Web

Online technical support is available at the following Web site: <u>www.hp.com/support/ljp2050series</u>.

HP software and support services—additional information

See either the user guide or the in-box flyer for additional methods of obtaining software and support information, such as printer-driver distribution centers, other online services, fax services, and other online support.

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Macintosh install notes

- Introduction
- Installation instructions for Macintosh operating systems
- Technical assistance
- Legal statements

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 software. The installation instructions are for operating systems including Mac OS X v10.3, v10.4, and v10.5.

For instructions for other systems, see the associated install notes, readme files, or other product information for that system. For more information about the product and printer-driver features, see the *HP LaserJet P2050 Series Printers User Guide* and the online help included with each software component.

System requirements

The following are compatible system requirements for Macintosh:

- Mac OS X v10.3 and later: Macintosh G3, G4, G5, or Intel® Core™ processor with 128 MB RAM (256 MB RAM recommended)
 - 150 MB of free hard disk space
- CD-ROM drive or Internet connection
- Dedicated universal serial bus (USB 2.0) connectivity port or network connection

Overview of the printing system components

The CD that is included with the product has software for Windows operating systems and Apple Macintosh operating systems. For more information about a particular printer driver or software component, see the associated online help.

Network administrator software components

HP Printer Utility for Mac OS X

Network administrators can use the HP Printer Utility for Mac OS X v10.3 and later to configure and manage HP products from the computer. The printing-system software CD-ROM includes the HP Printer Utility as part of the driver installation.
Installation instructions for Macintosh operating systems

Install Macintosh software for a USB connection

- 1. Insert the CD into the optical drive. If the CD does not run automatically, double-click the CD icon on the desktop.
- 2. Double-click the Installer icon in the HP LaserJet P2050 Series Installer folder.
- 3. Follow the instructions on the computer screen. It is recommended that you restart the computer after the software installation is complete.
- 4. Connect a USB cable between the product USB port and the computer USB port. Turn on the product. Use a standard 2-meter (6.56-foot) USB cable.
- Depending on your version of Mac OS X, click System Preferences and open Print & Fax, or click Applications, click Utilities, and open Print Center or Printer Setup Utility. Check if the product name is in the Printer List.
- 6. If the printer name is in the **Printer List**, the setup is complete. If the product name is not in the **Printer List**, proceed with following steps.
- 7. Click the Add or + button, and then select USB from the drop-down list. View the list of available printers in the **Printer Browser** list.
- 8. Select the USB-connected HP LaserJet P2050 Series printer that is shown, and then click Add. The product name is added to the **Printer List**, and the setup is complete.

Install Macintosh software for a network connection

- 1. Connect the product to a network port with a local area network (LAN) cable.
- 2. Insert the CD into the optical drive. If the CD does not run automatically, double-click the CD icon on the desktop.
- 3. Double-click the Installer icon in the HP LaserJet P2050 Series Installer folder.
- 4. Follow the instructions on the computer screen. It is recommended that you restart the computer after the software installation is complete.
- 5. At the product control panel, print the Network Configuration Page, and locate the Bonjour Printer Name. You will need the Bonjour Printer Name in step 8.
- 6. Depending on your version of Mac OS X, click System Preferences and open Print & Fax, or click Applications, click Utilities, and open Print Center or Printer Setup Utility.
- 7. Click the Add or + button. View the list of available printers in the Printer Browser list.
- 8. Select the HP LaserJet P2050 Series printer name that matches the Bonjour Printer name from step 5.
- 9. Click Add. Then configure installable options in the **Printer Browser** window.
- 10. The product is added to the **Printer List**, and the setup is complete.

Technical assistance

Some of the following services are provided only for the United States. Similar services are available in other countries/regions.

Customer support

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

Web

Online technical support is available at the following Web site: www.hp.com/support/ljp2050series.

HP software and support services—additional information

See either the user guide or the in-box flyer for additional methods of obtaining software and support information, such as printer-driver distribution centers, other online services, fax services, and other online support.

Legal statements

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Warranty

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License

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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 product 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 device 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 devices are connected to the USB port.	Disconnect the other devices and try again to print.	
		There is a port driver problem in Microsoft Windows.	Uni proo you inst corr	nstall and then reinstall the duct software. Verify that are using the correct allation procedure and the rect port setting.
	If the error persists, contact HP Customer Contact Center.			

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