



**hp** embedded web server

**hp** LaserJet 9050



# **HP Embedded Web Server**

## **User Guide**

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# 1 Overview

## What is an embedded Web server?

A Web server provides an environment in which Web programs can run, in much the same way that an operating system, such as Microsoft® Windows®, provides an environment in which programs can run on your computer. A Web browser, such as Microsoft Internet Explorer, Apple Safari, or Mozilla, can show output from a Web server.

An embedded Web server (EWS) resides on a hardware product (such as a printer) or in the firmware, rather than as software that is loaded on a network server.

The advantage of an embedded Web server is that it provides an interface to the product that anyone who has a network-connected computer and a standard Web browser can open and use. No special software needs to be installed or configured.

With the HP Embedded Web Server, you can view product status information, change settings, and manage the product at your computer.

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### Note

In this guide, the terms “product” and “device” are used interchangeably. When products or devices are discussed in this guide, the information pertains to HP LaserJet printers, unless otherwise noted. For specific information about the features that your printer supports, see the documentation that came with your product.

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## Features

You can use the HP Embedded Web Server to view product and network status and to manage printing functions from your computer, rather than at the product control panel. With the HP Embedded Web Server, you can perform these tasks:

- View control-panel messages and product-status information.
- Determine the remaining life for all supplies and configure specific ordering information for supplies.
- Gain access to the product's technical support page.
- Gain access to specific support for recent product events.
- Add or customize links to other Web sites.
- View and change product configuration, such as tray configurations.
- View and change network configuration.
- View and print information pages, such as the Configuration page.
- Receive alerts about product events, such as when the product is low on supplies, through e-mail.
- Select the language in which to display the HP Embedded Web Server screens.
- Print to an HP product without having to install the product printer driver.
- Conserve energy by scheduling the product sleep delay so that the product will go into sleep mode after a period of time of not being used.
- Schedule wakeup times for each day so that the product has finished initializing and calibrating by the time it is to be used.
- Send product configuration and supplies usage information periodically to your service provider.

## Additional features with a permanent storage device

If you have a permanent storage device installed in your product, such as a hard disk, you can view, set up, and retain additional information.

- **Alerts.** Set up four different destination lists, with up to 20 recipients on each of the four lists. (Without the permanent storage device, you can send alerts to only four e-mail addresses.)
- **Other Links.** Add up to five additional links to the Web sites of your choice. (Without the extra storage, you can add one additional link.)

A hard disk might be installed in your product, depending on the product model. If your product does not have a hard disk, you might be able to order one. For more information, see the user guide that came with your product, or go to:

<http://www.hp.com/country/us/eng/othercountriesbuy.htm>.

## HP Web Jetadmin and the HP Embedded Web Server

HP Web Jetadmin is a Web-based system management tool that you can use with a Web browser. The HP Embedded Web Server and HP Web Jetadmin work together to meet all of your product-management needs. You can use the software to install and manage networked products effectively. Network administrators can manage networked products remotely, from practically anywhere.

The HP Embedded Web Server provides a simple, easy-to-use solution for one-to-one product management in environments that have a limited number of products. However, in environments that have several products, you might want to use HP Web Jetadmin to manage groups of products. With HP Web Jetadmin you can discover, manage, and configure multiple products simultaneously.

HP Web Jetadmin is available from HP online support (<http://www.hp.com/go/webjetadmin>).



# System requirements

In order to use the HP Embedded Web Server, you must have the following components:

- A supported Web browser. EWS-supported Web browsers include (but are not limited to) the following:
  - Konqueror 3.0 or later
  - Microsoft Internet Explorer 6.0 or later
  - Mozilla 1.0 (and Mozilla derivatives)
  - Netscape Navigator 6.2 or later
  - Opera 7.0 or later
  - Safari 1.0 or later
- A transmission control protocol/Internet protocol- (TCP/IP-) based network connection.
- An HP Jetdirect print server (embedded or enhanced input/output [EIO]) installed in the product.

## Opening the HP Embedded Web Server

Use the following procedure to open the HP Embedded Web Server.

### Note

You cannot view the HP Embedded Web Server screens from outside of a firewall.

- 1 Open a supported Web browser.
- 2 In the **Address** or **Go to** field, type the Internet protocol (IP) address that is assigned to the product (for example, `http://192.168.1.1`) or the host name (for example, `npi[XXXXXX]` or a configured host name such as `http://www.[your_server].com`).

If you do not know the IP address for the product, you can find it on the Configuration page. See the user guide that came with your product to see how to print a Configuration page at the control panel.

## Login and logoff

The HP Embedded Web Server (EWS) has screens that can be used to view product information and change configuration options. The screens that appear, and the settings on them, vary according to how you gain access to the EWS: as a general user, an information technology (IT) administrator, or a service provider. These passwords can be customized by an IT administrator or a service provider.

In a password-protected HP Embedded Web Server, only the **Information** tab is available to users who do not log in by using the password. If no password has been set (which is the default), all of the tabs are visible.

If a password has been set, you must log on as an IT administrator or a service provider to gain access to the protected HP Embedded Web Server tabs (**Settings** and **Networking**).

### Note

For information about changing passwords as an IT administrator, see [“Security” on page 31](#). If you are a service provider, see your product service guide.

### To log in as an administrator

Use the following procedure to log in to the HP EWS as an administrator.

- 1 After you open the EWS, click the **Log In** link in the upper-right corner of the screen.

The **Enter Network Password** dialog box appears, as shown in the following illustration. The appearance of the login screen might vary, depending on your operating system and browser.



- 2 Type `admin` for the user name, type your password, and then click **OK**.

### To log off as an administrator

Use the following procedure to log off.

- 1 Click the **Log Off** link.
- 2 To complete the logoff, close the browser.

---

#### CAUTION

If you do not close the browser, the connection to the product EWS continues to run and could pose security risks.

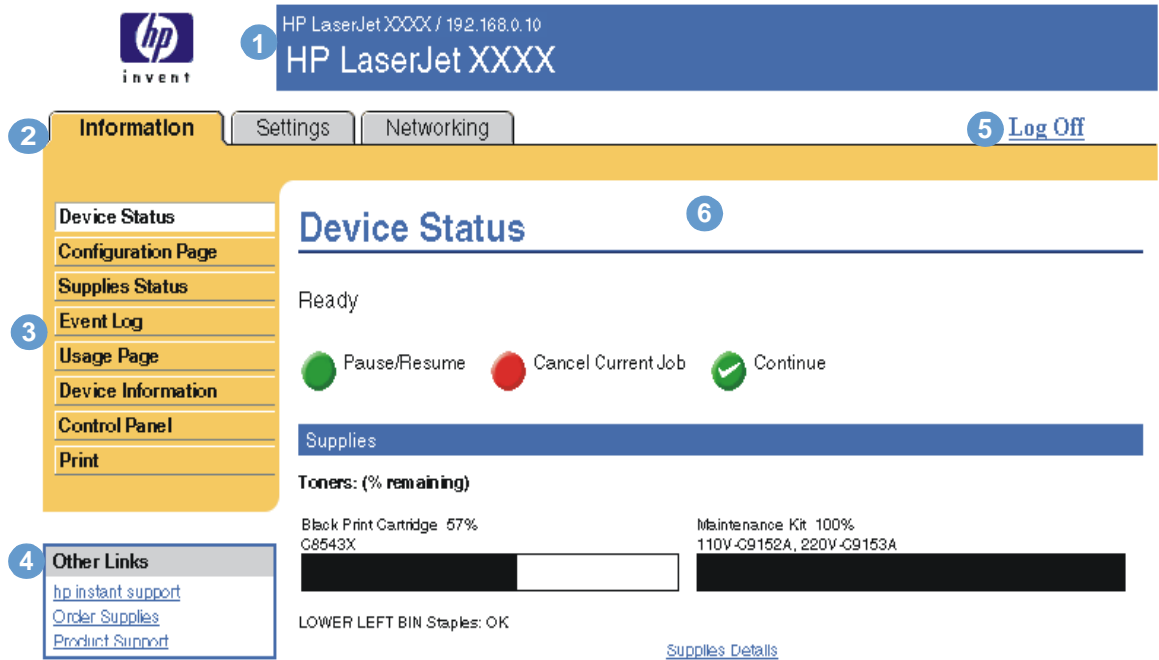
# Navigating through the HP Embedded Web Server

To navigate through the HP Embedded Web Server screens, click one of the tabs (such as **Information** or **Settings**), and then click one of the menus on the navigation bar that is located on the left side of the screen.

The following illustration and table provide information about the EWS screens.

## Note

The appearance of the EWS screens might differ from the illustrations in this user guide, depending on the product features and the settings that your IT administrator has established.



Callout	EWS screen feature	Description	More information
1	Product name and IP address	View the product name and Internet protocol (IP) address.	
2	Tabs	<b>Information</b> tab	View information about the product. You cannot configure the product using the screens on this tab. See “Viewing product status from the Information screens” on page 7.
		<b>Settings</b> tab	Use the features on this tab to configure the product. See “Configuring the product from the Settings screens” on page 19.
		<b>Networking</b> tab	View network status and configure the product network card. See “Managing network operation from the Networking screens” on page 39.
3	Menus	Different on each tab Click a tab to show the menus.	
4	Other Links	<b>hp instant support</b>	Connect to a set of Web resources that help solve problems and describe the additional services that are available for your HP product. <ul style="list-style-type: none"> <li>See “Using the Other Links as a resource” on page 41.</li> <li>See “hp instant support” on page 42.</li> <li>See “Product Support” on page 43.</li> </ul>
		<b>Order Supplies</b>	Use the Internet to order genuine HP supplies for your HP product.
		<b>Product Support</b>	Use product-specific help from the HP Web site to solve a problem.
5	Log In/Log Off	Different for each type of user Log in as an IT administrator or service provider. See “Login and logoff” on page 3.	

Callout	EWS screen feature	Description		More information
6	Screen	Different on each menu	Click a menu to show a screen.	<ul style="list-style-type: none"> <li>• See <a href="#">“Viewing product status from the Information screens”</a> on page 7.</li> <li>• See <a href="#">“Configuring the product from the Settings screens”</a> on page 19.</li> <li>• See <a href="#">“Managing network operation from the Networking screens”</a> on page 39.</li> </ul>

# 2 Viewing product status from the Information screens

The Information screens are for informational purposes only; you cannot configure the product from these screens. To configure the product through the EWS, see [“Configuring the product from the Settings screens” on page 19](#).

The following are the Information screens:

- Device Status (page 8)
- Configuration Page (page 10)
- Supplies Status (page 12)
- Event Log (page 13)
- Usage Page (page 14)
- Device Information (page 15)
- Control Panel (page 16)
- Print (page 17)

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**Note**

Some products do not support all of these screens.

# Device Status

Use the Device Status screen to view the current status of the product. The following illustration and table describe how to use this screen.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see “Navigating through the HP Embedded Web Server” on page 5.
2	Status	Shows the product status (the same information that appears on the control-panel display).
3	Control-panel buttons	Use these control-panel buttons just as you would at the product. To select which control-panel buttons appear on this screen, go to the Security screen on the <b>Settings</b> tab.
4	Supplies	Shows the percentage of life remaining for each supply.
5	Supplies Details	Opens the Supplies Status screen, where you can view information about product supplies.

<b>Callout</b>	<b>Area on the screen</b>	<b>Information or capability that the area provides</b>
6	Media	Shows the status and configuration information for the input trays and output bins.
7	Change Settings	Opens the Other Settings screen, where you can change the paper-type settings.
8	Capabilities	Lists components that are installed in the product.

# Configuration Page

Use the Configuration Page screen to view current product settings, help troubleshoot printer problems, and verify the installation of optional accessories such as dual inline memory modules (DIMMs) or paper-handling devices. The following illustration and table describe how to use this screen.

HP LaserJet XXXX / 192.168.0.10  
**HP LaserJet XXXX**

Information Settings Networking [Log Off](#)

**1** Information

- Device Status
- Configuration Page**
- Supplies Status
- Event Log
- Usage Page
- Device Information
- Control Panel
- Print

[hp instant support](#)  
[Order Supplies](#)  
[Product Support](#)

**2** Configuration Page

**2** Printer Information

Product Name:	HP LaserJet :XXXX
Printer Name:	HP LaserJet :XXXX
DC Controller:	4
Model Number:	CXXXXA
Printer Serial Number:	XXXXXXXXXX
Formatter Number:	S46XXXXXXXX
Firmware Datecode:	20040506 20040506
Service ID:	00000
PS Wait Time-out:	300 seconds
Page Count:	550
Preventive Maintenance Interval:	350000
Pages Since Last Maintenance:	1080

**3** Installed Personalities and Options

PCL	(20010402)
PCLXL	(20010402)
POSTSCRIPT	(20010402)
PDF	(20021216)
XHTML	(700)
MIME	(700)
DIMM Slot 1:	256 MB DDR
DIMM Slot 2:	Empty
Card Slot 1:	64 MB F/W FLASH: 2 MB
Card Slot 2:	Empty
Card Slot 3:	Empty
EIO 1:	HP J6054B
EIO 2:	Empty
EIO 3:	Empty
Embedded Jetdirect	HP JetDirect J7949E
DISK Storage:	19077 MB Capacity
CARD SLOT Storage:	2 MB Capacity

**4** Memory

Total RAM:	256 MB
DWS:	102.0

Automatic Resource Saving Enabled

**5** Security

Control Panel Lock:	NONE
Control Panel Password:	DISABLED
Device Type: DISK	Write Protect: DISABLED
Device Type: CARD SLOT	Write Protect: DISABLED
File System Access:	
PJL:	ENABLED
PML:	ENABLED
NFS:	ENABLED
PostScript:	ENABLED

**6** Paper Trays and Options

Default Paper Size:	LETTER
Tray 1 Size:	ANY SIZE
Tray 1 Type:	ANY TYPE
Tray 2 Size:	LETTER ROTATED
Tray 3 Size:	LEGAL
Duplex Unit:	

**Note:** See the table on the following page for descriptions of the callouts in this illustration.



<b>Callout</b>	<b>Area on the screen</b>	<b>Information or capability that the area provides</b>
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server”</a> on page 5.
2	Printer Information	Lists the serial number, version numbers, and other information for the product.
3	Installed Personalities and Options	Lists all of the printer languages that are installed (such as printer command language [PCL] and PostScript® [PS]), and lists options that are installed in each DIMM slot and EIO slot.
4	Memory	Lists the memory information, PCL Driver Work Space (DWS), and resource saving information.
5	Security	Lists the status of the control-panel lock and disk write-protect options.
6	Paper Trays and Options	Lists the size and type of media that is specified for each of the trays in the product. If a duplexer or any paper-handling accessories are installed on the product, information about those devices is also listed here.

# Supplies Status

The Supplies Status screen shows more detailed supplies information and provides part numbers for genuine HP supplies. (It is helpful to have the part numbers available when ordering supplies.) The following illustration and table describe how to use this screen.

**Supplies Status**

**Ordering 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.

**3** Black Print Cartridge  
Order HP Part: C8543X 57%

Estimated Pages Remaining: 4842  
(Based on page coverage with this supply of 17.7%)  
Toner Low Reached: NO  
Toner Out Reached: NO  
Serial Number: 16474  
Pages printed with this supply: 3653  
Page Count by Paper Size:  
A3/Ledger: 0  
Legal: 87  
A4/Letter: 3566  
A5/B5/Executive: 0  
Envelope: 0  
Custom/Other: 0  
Number of Jobs Processed: 2220  
First Install Date: 20040628  
Last Used Date: 20040507

**4** Maintenance Kit  
Order HP Part: 110V-C9152A, 220V-C9153A 100%

**5** Staples  
OK

**Recycling Information:**

Please return your used genuine HP supplies to Hewlett-Packard. For more information see:  
<http://www.hp.com/go/recycle>

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see "Navigating through the HP Embedded Web Server" on page 5.
2	Order Supplies link	Use this feature to connect to a Web page that facilitates online ordering of supplies from a reseller of your choice.
3	Black Printer Cartridge	Shows the black cartridge part number, states whether or not the Toner Low status has been reached, and provides the number of pages that have been printed since the Toner Low status was reached.
4	Maintenance Kit	Indicates the percentage of the maintenance kit that has been used and the HP part numbers.
5	Staples	Lists the Staples status (OK or OUT). Staple status appears only when a finishing device is installed.

# Event Log

The Event Log shows the most recent product events, including jams, service errors, and other printer errors. The following illustration and table describe how to use this screen.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information Settings Networking Log Off

1 Information

Device Status  
Configuration Page  
Supplies Status  
Event Log  
Usage Page  
Device Information  
Control Panel  
Print

Other Links  
[hp instant support](#)  
[Order Supplies](#)  
[Product Support](#)

## Event Log

Current Page Count: 550  
Serial Number: XXXXXXXXXXXX  
Number of Entries in Use: 8  
Maximum Number of Entries: 50

2 Number	3 Page Count	4 Event	5 Description or Personality
8	554	61.00.01	Failure reading color table from disk
7	554	65.12.00	HARDWARE MALFUNCTION IN OUTPUT DEVICE
6	552	65.12.00	HARDWARE MALFUNCTION IN OUTPUT DEVICE
5	481	65.12.00	HARDWARE MALFUNCTION IN OUTPUT DEVICE
4	412	65.12.00	HARDWARE MALFUNCTION IN OUTPUT DEVICE
3	344	65.12.00	HARDWARE MALFUNCTION IN OUTPUT DEVICE
2	344	13.12.21	EXTERNAL OUTPUT DEVICE PAPER JAM
1	272	65.12.00	HARDWARE MALFUNCTION IN OUTPUT DEVICE

6

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see “ <a href="#">Navigating through the HP Embedded Web Server</a> ” on page 5.
2	Number	Lists the order in which the errors occurred. The last error to occur has the highest number.
3	Page Count	Lists the number of pages that had been printed from the product when the error occurred.
4	Event	Shows the internal event code for each event.
5	Description or Personality	Shows a brief description of some events.
6	Product Support link	Provides access to the HP support Web site for product-specific troubleshooting information.

# Usage Page

The Usage Page screen gives a page count for each size of media that has passed through the product, as well as the number of duplexed pages. The total is calculated by multiplying the sum of the print count values by the Units value.

The information on this screen can be used to determine how much toner or paper to keep on hand. The following illustration and table describe how to use this screen.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information Settings Networking Log Off

1

Device Status  
Configuration Page  
Supplies Status  
Event Log  
Usage Page  
Device Information  
Control Panel  
Print

## Usage Page

Identification

S/N: XXXXXXXXXXXX  
Product Name: HP LaserJet XXXX  
Printer Name: HP LaserJet XXXX

2 Usage Totals (equivalent)

3

PRINTER Page Size	SIMPLEX Count	SIMPLEX Units	DUPLEX Count	DUPLEX Units	Total	DUPLEX 1 IMAGE Count
LETTER	0	1.0	0	2.0	0.0	0
LEGAL	0	1.3	0	2.6	0.0	0
A4	0	1.0	0	2.0	0.0	0
EXECUTIVE	0	0.8	0	1.6	0.0	0
11X17	0	2.0	0	4.0	0.0	0
A3	0	2.0	0	4.0	0.0	0
ENVELOPE #10	0	0.4	**	**	0.0	**
ENVELOPE MONARCH	0	0.3	**	**	0.0	**
ENVELOPE C5	0	0.6	**	**	0.0	**
ENVELOPE DL	0	0.4	**	**	0.0	**
B4(JIS)	0	1.5	0	3.0	0.0	0
B5(JIS)	0	0.7	0	1.4	0.0	0
ENVELOPE B5	0	0.7	**	**	0.0	**
CUSTOM	0	1.0	0	2.0	0.0	0
DPOSTCARD(JIS)	0	1.0	**	**	0.0	**
A5	0	0.5	0	1.0	0.0	0
8K	0	1.7	0	3.4	0.0	0
16K	0	0.8	0	1.6	0.0	0
EXECUTIVE(JIS)	0	1.1	0	2.2	0.0	0
LETTER ROTATED	550	1.0	0	2.0	550.0	0
A4 ROTATED	0	1.0	0	2.0	0.0	0
8.5X13	0	1.1	0	2.2	0.0	0
STATEMENT	0	0.5	**	**	0.0	**
12X18	0	2.3	0	4.6	0.0	0
RA3	0	2.1	0	4.2	0.0	0
<b>TOTAL PRINTER USAGE</b>					<b>550.0</b>	

4 Print Modes & Paper Path Usage (actual)

**PRINT MODES USAGE**

Print Mode	Total
NORMAL	550
HIGH1	0
LOW	0
HIGH2	0
SPECIAL	0
<b>Total</b>	<b>550</b>

**PAPER PATH USAGE**

Source	Count	Destination	Count
Envelope Feeder	0	Face Up	0
Manual Feed Tray	0	Face Down	3
Tray 1	0	External Bin	547
Tray 2	550	Other	0
Tray 3	0	<b>Total</b>	<b>550</b>
External Tray	0		
Other	0		
<b>Total</b>	<b>550</b>		

5 Historical Printer Coverage

Coverage 81.055%

**Note:** See the table on the following page for descriptions of the callouts in this illustration.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see “Navigating through the HP Embedded Web Server” on page 5.
2	Usage Totals (equivalent)	Indicates the types of pages that have been printed, the number of single-sided pages that have been printed, the number of duplexed pages that have been printed, and the total number of pages that have been printed.
3	Units	A unit is equal to a standard A4-size (letter-size) page. All other page sizes are referenced in relation to this standard size. A A4-size (letter-size) page printed on both sides counts as 2 units.
4	Print Modes & Paper Path Usage (actual)	Indicates the different print modes that have been used for color and monochrome (black-and-white) print jobs.
5	Historical Printer Coverage	Indicates the average amount of toner that is used on each printed page.

## Device Information

The Device Information screen shows the product name, asset number, company name, contact person, product location, and the product's IP address, name, model, and serial number.

The product name, asset number, company name, contact person, and product location can be configured from the Device Information screen, which is located on the **Settings** tab.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information Settings Networking [Log Off](#)

Device Status  
Configuration Page  
Supplies Status  
Event Log  
Usage Page  
**Device Information**  
Control Panel  
Print

**Device Information**

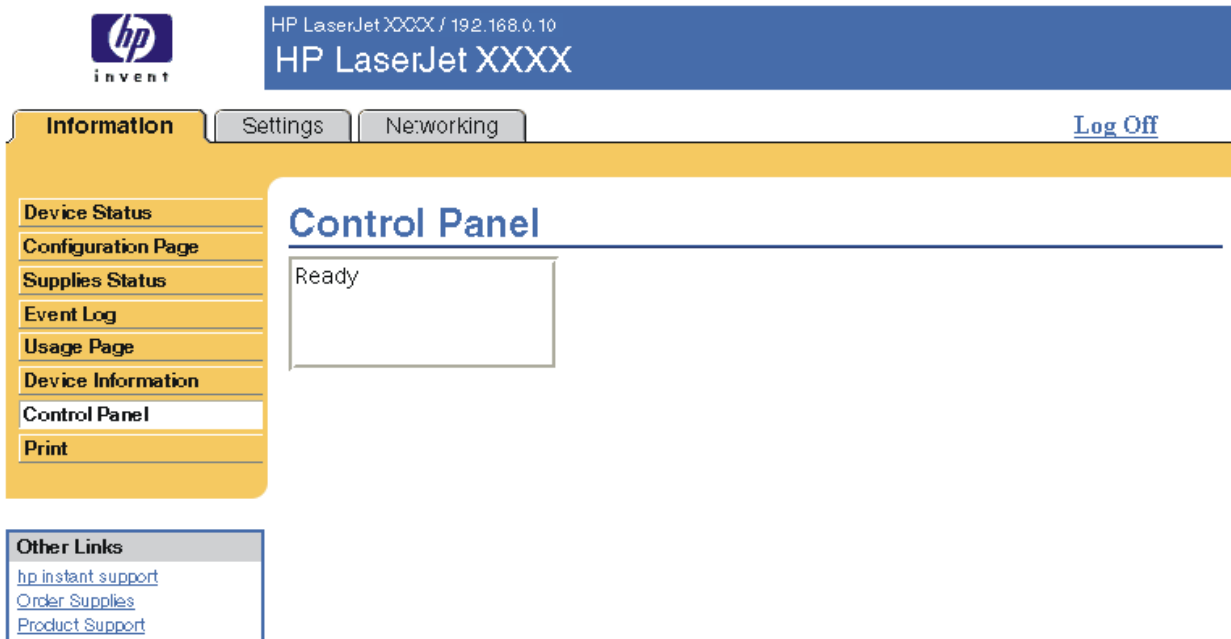
Printer Name: HP LaserJet XXXX  
Printer Location: Floor 7, room 2  
Asset Number:  
Company Name: Your Company  
Contact Person: Anybody  
IP Address: 192.168.0.10  
Product Name: HP LaserJet XXXX  
Printer Model: CXXXXA  
Printer Serial Number: XXXXXXXXXX

**Other Links**  
[hp instant support](#)  
[Order Supplies](#)  
[Product Support](#)

# Control Panel

For products that have a control panel, the Control Panel screen shows the product control-panel display as if you were standing at the product. Because this view shows the product status, it can help you troubleshoot problems with the product.

**Note** The appearance of the screen might vary, depending on your product.



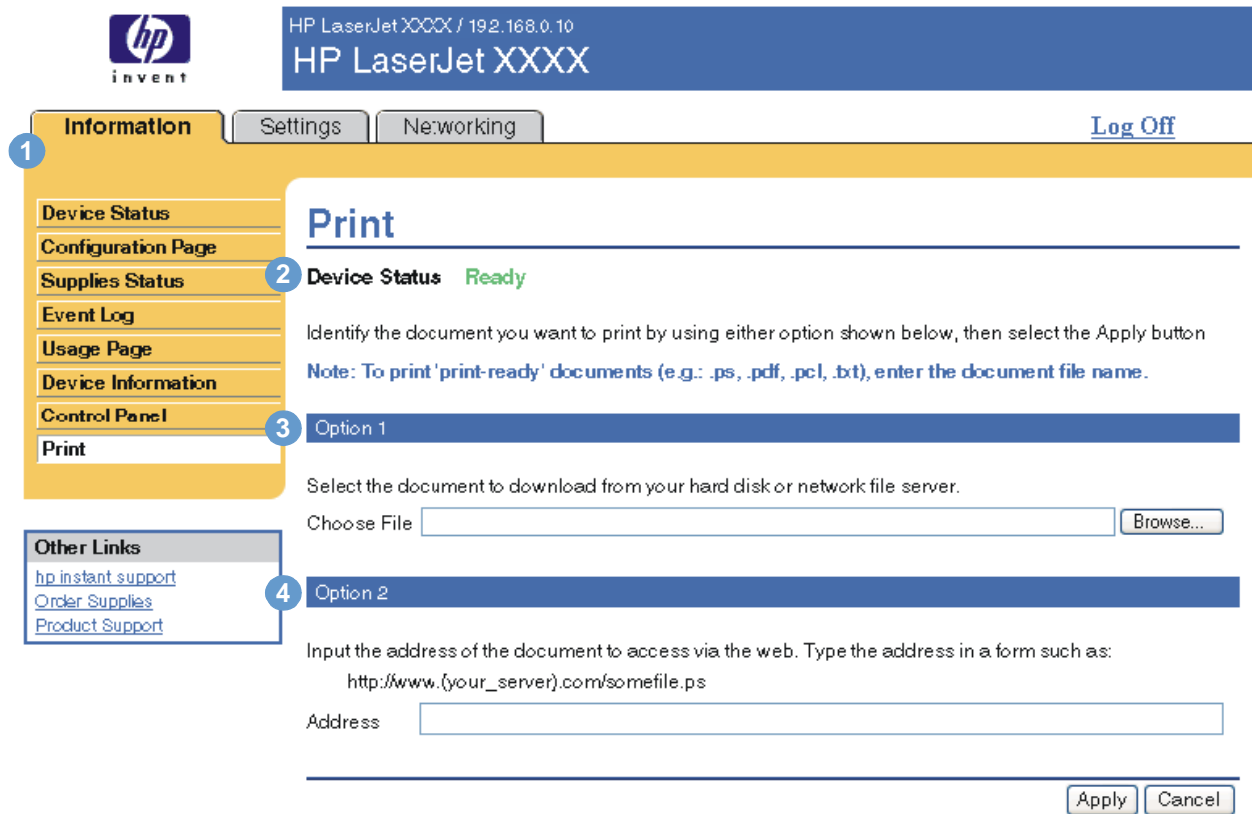
# Print

You can use this screen to print one file at a time from a product that supports the HP Embedded Web Server. This feature is especially useful if you are a mobile user, because you do not have to install the product's printer driver in order to print—you can print anywhere at any time.

You can print print-ready files, such as documents that have been generated by using a “print to file” driver option. Print-ready files commonly have file name extensions such as .PRN (Windows Print Ready File), .PCL (Printer Control Language), .PS (PostScript), .PDF (Adobe Portable Document Format), and .TXT (text).

The following illustration and table describe how to use this screen.

**Note** The Print screen (and the **Print** menu on the left) is available only if it has been configured to appear on the **Security** tab. For more information, see “[Security](#)” on page 31.



Callout	Area on screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see “ <a href="#">Navigating through the HP Embedded Web Server</a> ” on page 5.
2	Device Status	Shows the product status (the same information that appears on the Device Status screen and the control-panel display).
3	Option 1	Prints a file that is located on your laptop, computer, or a network file server.
4	Option 2	Prints a file that you can gain access to over your intranet.

## Printing a file from the Print screen

Use the following steps to print a file from the Print screen.

- 1 Select the file that you want to print by using one of the following options:
  - Click the button under **Option 1** to browse to a file that you want to print.

-or-

  - Type the address (beginning with "http://") in the **Address** field (under **Option 2**) to print a file that is available over your intranet.
- 2 Click **Apply**.



# 3 Configuring the product from the Settings screens

Use the screens on the **Settings** tab to configure the product from your computer. The following are the Settings screens:

- Configure Device (page 20)
- E-mail Server (page 21)
- Alerts (page 23)
- AutoSend (page 29)
- Security (page 31)
- Edit Other Links (page 32)
- Device Information (page 34)
- Language (page 35)
- Date & Time (page 36)
- Wake Time (page 37)

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**Note**

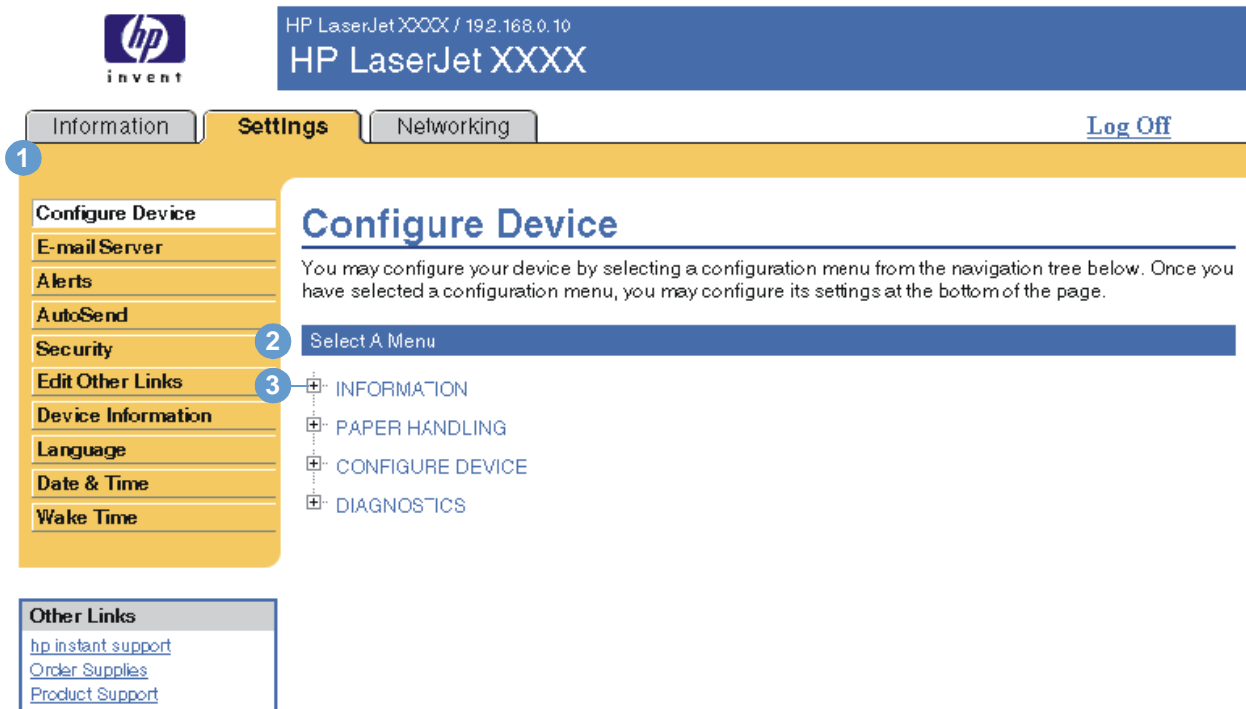
Some products do not support all of these screens.

# Configure Device

You can use the Configure Device screen to print product information pages and configure the product *remotely*. The following illustration, table, and example procedure describe how to use this screen.

If your product has a control-panel display, these menus are similar to the menus that are available at your product control panel. Some of the product control-panel menus are not available from the HP Embedded Web Server.

See the documentation that came with your product for more information about the different menus that your product supports.



Callout	Area on the screen	Information or capability that the area provides	
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server”</a> on page 5.	
2	Select A Menu	<b>INFORMATION</b> menu	Print product information pages, which provide details about the product and its configuration.
		<b>PAPER HANDLING</b> menu	Set the type of media that is in each tray.
		<b>CONFIGURE DEVICE</b> menu	Configure the product to affect the product behavior. For example, you can configure product personality settings from this menu, such as print-quality settings or destination bins.
		<b>DIAGNOSTICS</b> menu	Print the event log, perform a paper-path test, configure the output bin and duplexing mode, and set the number of copies.
3	Plus sign	Click the plus sign (⊕) next to a menu, or click the menu itself, to see the submenus or subentries.	

## Using the menus on the Configure Device screen

The following procedure is provided *only* as an example. Similar procedures can be used to set other menu items.

Follow these steps to select a different default paper size (example procedure).

- 1 Click **PAPER HANDLING**.
- 2 Select **Letter** from the list, and then click **Apply** to save the change.

### Note

Printer drivers and software programs frequently override selections that are made on the **Printing** menu and the **Paper Handling** menu. For more information, see the user guide that came with your product.

Any changes are reflected on the Printer Status screen, the Configuration Page screen, and the **Paper Handling** menu.

## E-mail Server

Use the E-mail Server screen to configure e-mail settings for outgoing and incoming e-mail. Use the settings on this screen to send and receive e-mail messages, including product alerts. The following illustration, table, and procedures describe how to use this screen.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server” on page 5</a> .
2	Outgoing e-mail	Configure outgoing e-mail if you intend to use the Alerts or AutoSend features. For more information, see <a href="#">“Using the Alerts screen with a product” on page 24</a> .

Callout	Area on the screen	Information or capability that the area provides
3	Device E-mail Address	This is the product's e-mail address that appears in product alerts. This is <i>not</i> the e-mail address that you want to use when sending commands to the product. See <a href="#">"Sending e-mail commands to the product" on page 28.</a>
4	Incoming e-mail (not required for E-mail Alerts)	Configure incoming e-mail if you intend to request information pages from the product by using e-mail messages. For more information, see <a href="#">"Sending e-mail commands to the product" on page 28.</a>

## Configuring outgoing e-mail

You must configure outgoing e-mail if you intend to use the Alerts or AutoSend features.

- 1 Gather the following information. (Your organization's network or e-mail administrator typically provides the information that is required to configure outgoing mail.)
  - The IP address of the simple mail transfer protocol (SMTP) mail server on your network. The EWS uses the SMTP server IP address to relay e-mail messages to other computers.
  - The e-mail domain name suffix that is used to address e-mail messages within your organization.
- 2 Select the **Enable Outgoing E-mail** check box.
- 3 Type the SMTP server IP address in the **SMTP Server** text box.
- 4 Type the domain name, and then click **Apply** to save the changes.

## Configuring incoming e-mail

You should configure incoming e-mail if you intend to request information pages from the product by using e-mail messages. For more information, see ["Sending e-mail commands to the product" on page 28.](#)

- 1 Establish a Post Office Protocol 3 (POP3) mailbox account for the product on a mail server within your organization's network.

Each POP3 account requires a username and a password. The username combined with the product's domain name (which is specified in the outgoing mail configuration) is the e-mail address for the product. For example, if the POP3 mailbox account username is "product" and the POP3 server is "hp.com", the product's e-mail address is "product@hp.com".

---

### Note

Each product that is configured for incoming mail must have its own POP3 mailbox account on your network's e-mail server.

The POP3 mailbox accounts are typically configured by your organization's network or e-mail administrator.

- 2 Select the **Enable Incoming E-mail** check box.
- 3 Type the IP address of the POP3 mail server in the **POP3 Server** text box.
- 4 Type username and password for the product's mailbox account, and then click **Apply** to save the changes.

# Alerts

From the Alerts screen, IT administrators can set up the product to send problem and status alerts to anyone through e-mail messages. When this function is configured, alerts are automatically triggered about supplies and paper-path status, as well as for service and advisory information. More than one individual can receive alerts, with each person receiving only specific alerts. For example, an administrative assistant might be responsible for ordering toner or fixing jams, and could receive advanced warning when toner is low or a jam occurs. Similarly, the long-life supplies might be handled by an external service provider, who could receive alerts about performing product maintenance, loading the front or rear stapler, and similar needs.

With a permanent storage device installed, such as a hard disk, you can create up to four different destination lists, with up to 20 recipients on each list. (Without the permanent storage device, you can send alerts to only four e-mail addresses.) The following example is for a product that has a permanent storage device installed. If a permanent storage device is installed, you can edit, test, and delete destinations and destination lists.

The following illustration, table, and procedures describe how to use this screen.

## Note

In order for alerts to function, outgoing e-mail must be enabled. To enable outgoing mail, see “Configuring outgoing e-mail” on page 22.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information **Settings** Networking [Log Off](#)

**Alerts**

Alerts are currently configured for the following destination lists. To make changes, click the appropriate button next to the list. Move the pointer over a button for more information.

**Note:** In order for alerts to function, outgoing mail must be configured on the E-mail Server page.

List Name	Alert Destinations	Selected Alerts	Attachments (optional)
List 1	your_name@your.company.com anyone@yourcompany.com	Cartridge Low (Order) Staples Low (Order) Cartridge Out (Replace) Staples Out (Replace)	Supplies Status Page Usage Page
List 2	your_admin@your.company.com	Printer Error 55 DC Controller Error Remove Paper Jam	Configuration Page
List 3	service_provider@your.company.com	Perform Printer Maintenance	Supplies Status Page Usage Page Configuration Page

[New Destination List](#)

**Note:** See the table on the following page for descriptions of the callouts in this illustration.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server” on page 5</a> .
2	Destination list summary	Lists the current selections for each destination.
3	Edit	Click this button to make changes to the destination or destination list.
4	Test	Click this button to send a test alert to the destination or destination list.
5	Delete	Click this button to delete the destination or destination list.
6	New Destination List	Click this button to define the settings for a new destination list for alerts.

## Using the Alerts screen with a product

This section contains information about these alerts features:

- [“To configure alerts” on page 24](#)
- [“To test the configuration of a destination list” on page 27](#)
- [“To delete destinations and destination lists” on page 28](#)

### To configure alerts

With a permanent storage device installed, you can set up four different lists, with up to 20 recipients on each list. Without a permanent storage device, you have room for only four e-mail addresses.

1 Do one of the following:

- To create a new destination list, click **New Destination List**.

-Or-

- To modify an existing destination list, click **Edit** next to the list that you want to modify.

If a permanent storage device is installed, the screen that appears looks similar to the following illustration.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information Settings Networking Log Off

Configure Device  
E-mail Server  
Alerts  
AutoSend  
Security  
Edit Other Links  
Device Information  
Language  
Date & Time  
Wake Time

Other Links  
[hp instant support](#)  
[Order Supplies](#)  
[Product Support](#)

## Alerts - setup

**Step 1: Type the list name**

Type a name for your destination list.

List Name:

**Step 2: Type the alert destinations**

Type a maximum of 20 alert destinations in any of the following forms:  
An e-mail address (e.g., your\_name@your-company.com)  
A mobile device (e.g., 206-555-5555@mobile-company.net)  
A posting to a website (e.g., <http://www.your-server.com>)

Separate alert destinations using a semi-colon (;) or a comma (,).

Alert Destinations:

**Step 3: Select Alerts**

Select the alerts that you would like the alert destinations to receive. The most common alerts are listed here.

Alert Name	Selected	Threshold <sup>†</sup>
Cartridge Low (Order)	<input checked="" type="checkbox"/>	<input type="text" value="20"/> (0-20) percent
Staples Low (Order)	<input checked="" type="checkbox"/>	
Cartridge Out (Replace)	<input checked="" type="checkbox"/>	
Staples Out (Replace)	<input checked="" type="checkbox"/>	
Non-HP supply detected	<input type="checkbox"/>	
Remove Paper Jam	<input type="checkbox"/>	<input type="text" value="0"/> minutes elapsed
Close Drawers, Doors And Covers	<input type="checkbox"/>	<input type="text" value="0"/> minutes elapsed
Tray Open	<input type="checkbox"/>	<input type="text" value="0"/> minutes elapsed
Tray Empty (Load)	<input type="checkbox"/>	<input type="text" value="0"/> minutes elapsed

<sup>†</sup> Changes to threshold values apply to all destinations for this device.

**Additional Alerts**

To view all of the alerts for this product, click the **Show All Alerts** button.

Note: Clicking this button saves your current changes and opens the page that lists all of the alerts options.

**Step 4: Select e-mail attachments (optional)**

Select the attachments that you want to include with each e-mail alert message in this destination list. Go to the **Information** tab to see examples of these pages.

Supplies Status Page  
 Usage Page  
 Configuration Page  
 Event Log Page

Select this option if one of the alert destinations you have chosen to receive alerts is an automated computer system.

XML Data

- For products that have permanent storage devices installed, type a name in the **List Name** field, such as Service or Supplies. (If you do *not* have a permanent storage device, continue to step 3.)
- Type the e-mail addresses for people who you want to receive alerts. In large environments, system administrators can route e-mail addresses to list servers, uniform resource locators (URLs), and mobile devices for expanded alerts. Add multiple destinations by separating each destination with a comma or semicolon.
- Select the check box for the alerts that you want to be sent with this destination list. (To see all of the alerts that are available for the product, click **Show All Alerts**.)

- 5 Where applicable, set the threshold value for the individual alerts.

The threshold value for service alerts and for the paper-path alerts is a user-specified number of minutes. This is the amount of time that an event will be ignored before an e-mail alert message is sent. For example, you might want to set the threshold value for the “Tray Open” alert to 10 minutes to allow someone to close the tray after loading the tray or clearing a jam.

- 6 Select the attachments that you want to be included with your e-mail alert messages. These attachments can include Supplies Status Page, Usage Page, Configuration Page, Event Log Page, and XML Data. (Go to the **Information** tab to see examples of the pages.) The **XML Data** option should be selected if one of the destinations you have chosen to receive alerts is an automated computer system. Each item that you select will be attached to the e-mail. For example, if you select **Usage Page** and **Event Log Page**, you will receive one e-mail message with two attachments, one for each selection. If you also select the **XML Data** option, you will receive one e-mail message with three attachments—one attachment for the Usage Page in HTML, one for the Event Log in HTML, and a third consisting of instant support information in a text file attachment that has an .XML extension.
- 7 Click **Apply** to save the information.
- 8 Repeat steps 1 through 7 for each additional list or destination.

---

**Note**

To test the configuration of a destination list, see [“To test the configuration of a destination list” on page 27.](#)



## To test the configuration of a destination list

Use the following procedure to test the destination list configuration.

- 1 Click the **Test** button next to the destination list that you want to test.

The following window appears. (This illustration shows the screen from a system that has a permanent storage device installed. If no permanent storage device is installed, only one destination can be tested from this window.)

The screenshot shows the HP LaserJet XXXX web interface. At the top, there is a blue header with the HP logo and the text "HP LaserJet XXXX / 192.168.0.10" and "HP LaserJet XXXX". Below the header are three tabs: "Information", "Settings" (which is active), and "Networking". A "Log Off" link is located in the top right corner. On the left side, there is a navigation menu with the following items: "Configure Device", "E-mail Server", "Alerts" (which is selected), "AutoSend", "Security", "Edit Other Links", "Device Information", "Language", "Date & Time", and "Wake Time". Below the navigation menu is a section titled "Other Links" with three links: "hp instant support", "Order Supplies", and "Product Support". The main content area is titled "Alerts - test". It contains the following text: "You are about to send a test alert to the selected alert destinations. Click **OK** to send the test, or click **Cancel** to return to the main Alerts page without sending the test." Below this text is a section titled "Alert Destinations:" with two checked checkboxes: "your\_name@yourcompany.com" and "anyone@yourcompany.com". Below the checkboxes is a paragraph: "By default, the return address on the test alert is the product's e-mail address. To receive any response that is generated from this test, type your own e-mail address in the following box." Below this paragraph is a text input field labeled "Return Address:" with the value "Device 1@yourcompany.com". Below the input field is a section titled "Message Text:" with a large text area containing the following text: "This is a test alert. You have received this alert because you have been selected to receive information about the following product. The product does not need attention at this time. Product: HP LaserJet XXXX. Currently selected alerts: Cartridge Low (Order), Staples Low (Order), Cartridge Out (Replace), Staples Out (Replace). Currently selected attachments: Supplies Status Page, Usage Page. Thank you for using Hewlett-Packard products!" Below the text area is a paragraph: "If you want additional notes to appear at the beginning of the test alert, type the information in the following box." Below this paragraph is a text input field labeled "Your Notes (optional):". At the bottom right of the window are two buttons: "OK" and "Cancel".

- 2 If you have a permanent storage device installed, select the destinations that you want to test.
- 3 The return address is the product's e-mail address. Type your e-mail address in the **Return Address** box if you would like to receive messages about any errors that are generated from the test alert (for example, to be notified of an incorrect destination address).
- 4 If applicable, type additional information that you would like to appear at the beginning of the e-mail alert message in the **Your Notes (optional)** text field.
- 5 Click **OK**.

## To delete destinations and destination lists

You can delete a destination or destination list by clicking the **Delete** button next to the destination or destination list that you want to delete. Click **OK** to confirm the deletion.

## Sending e-mail commands to the product

Another method for receiving information pages is by requesting them from the product. When outgoing and incoming mail are configured, the product can attach information pages, such as the Supplies Status page or the Configuration page, to e-mail messages. You can use this feature to solve a problem or check the status of supplies.

## To request information pages by using an e-mail message

When composing a message to the product, you must format the **To**, **From**, and **Subject** fields correctly in your e-mail program.

- 1 Make outgoing and incoming e-mail functions available by following the instructions that are listed in this chapter. (For more information, see [“E-mail Server” on page 21.](#))
- 2 From your e-mail program, compose a message to the product by completing the following steps:
  - a In the **To** field, type the product’s e-mail address. The username combined with the product’s domain name (which is specified in the outgoing mail configuration) is the e-mail address for the product. For example, if the POP3 mailbox account username is “product” and the POP3 server is “hp.com”, the product’s e-mail address is “product@hp.com”.
  - b Your e-mail program should automatically complete the **From** field with your return e-mail address.
  - c In the **Subject** field, type the appropriate text for the format and page that you would like to attach. You can request a Configuration page, a Supplies Status page, or an AutoSend page. For example, if you would like to attach the Configuration page in .HTML file format, type “this.configpage?configpage=email&format=html”.

Page	HTML format	XML format
<a href="#">Configuration page</a>	this.configpage?configPage=email&format=html	this.configpage?configPage=email&format=xml
<a href="#">Supplies Status page</a>	this.configpage?suppliesPage=email&format=html	this.configpage?suppliesPage=email&format=xml
<a href="#">AutoSend page</a>	not applicable	this.configpage?autosend=email&format=xml

- 3 Click **Send**.

The product checks for new e-mail messages once every 3 minutes. When the product receives the e-mail message, it generates a reply and sends the requested information back to the sender's e-mail address (as specified in the **From** field of the original e-mail message).

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### Note

Depending on delays in the network and your organization’s mail server, a response might take from 1 minute to several hours to arrive in your e-mail program’s Inbox.

If the **To**, **From**, and **Subject** fields are not correctly formatted in your e-mail message, the product does not send a message in response.

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# AutoSend

Use the AutoSend screen to send product-configuration and supplies-usage information periodically to your service provider. This feature establishes a relationship with Hewlett-Packard Company or another service provider to provide you with services that include, but are not limited to, toner replacement, pay-per-page contracts, support agreements, and usage tracking. The following illustration, table, and procedure describe how to use this screen.

With a permanent storage device installed, such as a hard disk, you can add up to twenty e-mail addresses. (Without the permanent storage device, you can add one e-mail address.) The following example is for a product that does have a permanent storage device installed.

The screenshot shows the HP LaserJet XXXX web interface. At the top, there's a header with the HP logo and 'invent' text. Below that, the device model 'HP LaserJet XXXX' and IP address '192.168.0.10' are displayed. The main navigation bar includes 'Information', 'Settings' (selected), and 'Networking', along with a 'Log Off' link. A left-hand menu is numbered '1' and lists various settings categories. The 'AutoSend' category is selected, and its sub-menu is numbered '2'. The 'AutoSend' configuration area is titled 'Enable AutoSend' and includes a descriptive paragraph and a note. A 'Send every' field is numbered '3' and set to '500', with radio buttons for different intervals. An 'E-Mail destinations' field is numbered '4' and contains the example email address. A 'Test' button is numbered '6'. A checkbox for 'Send to HP' is numbered '5'.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server” on page 5.</a>
2	Enable AutoSend	Select this check box to turn on the AutoSend feature.
3	Send every [interval]	Select the interval at which you want the product to send the product configuration and supplies usage information to the destinations that are configured in the <b>E-Mail destinations</b> field.
4	E-Mail destinations	Save a list of up to 20 e-mail addresses to receive the product-configuration information. Each e-mail address can be up to 50 characters long.

Callout	Area on the screen	Information or capability that the area provides
5	Send to HP	Select this check box to send device configuration and supplies status information to HP on a regular basis. The information will be sent to an HP e-mail address (for example, myprinter@hp.com) in a text-based file with an .XML file extension. This file will be created in English.  To view more information about how HP treats the information that is sent by AutoSend, click <b>Hewlett-Packard Online Privacy Statement</b> .
6	Test	Click this button to save your settings and to send the information immediately, so that you can make sure that the recipient receives the messages.

## To turn on the AutoSend feature

Use the following procedure to make the AutoSend feature available.

- 1 Make outgoing and incoming e-mail functions available by following the instructions that are listed in this chapter. (For more information, see [“E-mail Server” on page 21.](#))
- 2 Select the **Enable AutoSend** check box.
- 3 Click an option to specify the interval at which you want the product to send the product-configuration and supplies-usage information to the e-mail recipients (determined in the next step), and then type the number of days, weeks, months, or pages printed.
- 4 For products with permanent storage devices installed, configure up to 20 destination e-mail addresses, using the format that appears on the screen. (If you do not have a permanent storage device, you can configure one e-mail address.)
- 5 To send device configuration and supplies status information to HP, select the **Send to HP** check box.
- 6 Click **Apply**.

The following illustration and table describe how to use this screen.

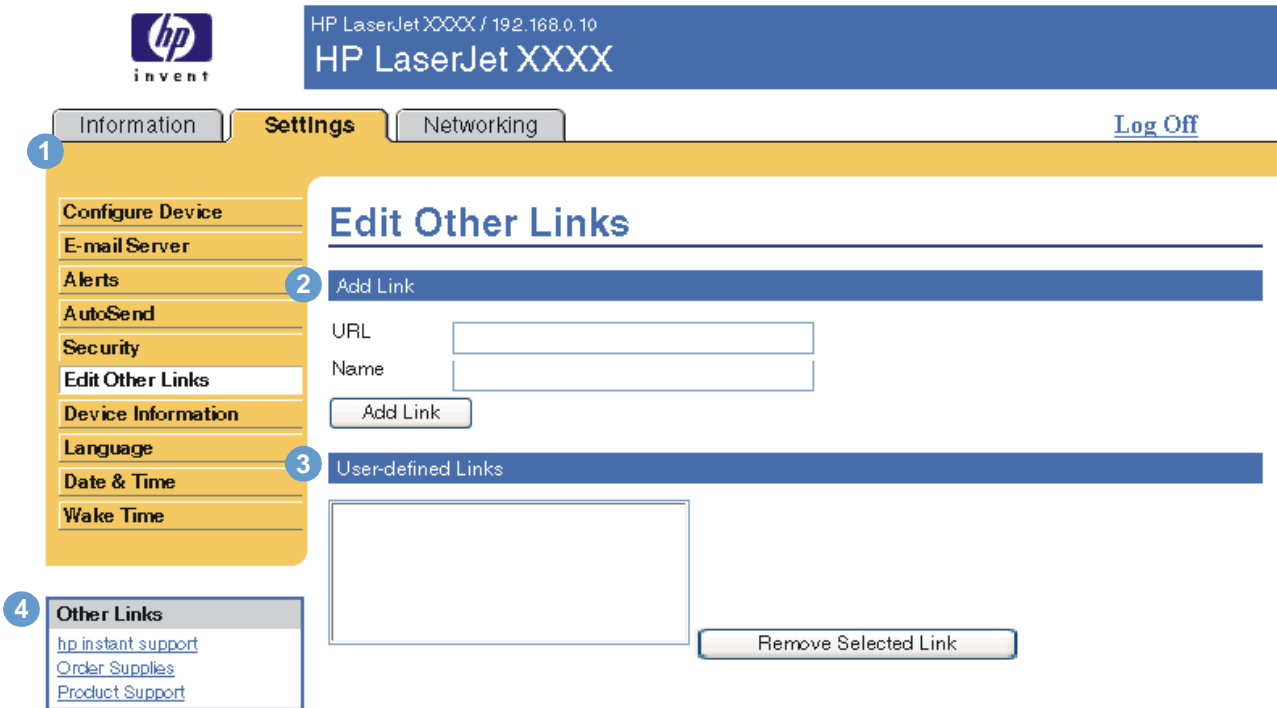
The screenshot displays the HP LaserJet Embedded Web Server interface. At the top, the HP logo and 'invent' tag are visible. The page title is 'HP LaserJet XXXX / 192.168.0.10'. The main navigation bar includes 'Information', 'Settings', and 'Networking' tabs, with a 'Log Off' link on the right. The 'Settings' tab is selected, and the 'Security' section is highlighted. The 'Security' section contains a 'Set Password' form with the following fields: Username (admin), New Password, and Verify Password. Below the form is a 'Set Options' section with four checkboxes: 'Print Page', 'Cancel Job', 'Pause/Resume', and 'Continue Button'. At the bottom right, there are 'Apply' and 'Cancel' buttons. Callouts 1 through 4 are placed over the navigation menu, the Set Password section, the Print Page checkbox, and the Display On Device Status Page section respectively.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server”</a> on page 5.
2	Set Password	Set an administrator password to control who can gain access to the EWS <b>Settings</b> and <b>Networking</b> tabs. After the password has been set, users are prompted to type a password when they click the <b>Log In</b> link. For more information, see <a href="#">“Login and logoff”</a> on page 3.
3	Print Page	Select to make the Print Page screen available in the <b>Information</b> tab.
4	Display On Device Status Page	Select the control-panel buttons that you want to appear on the Device Status screen (on the <b>Information</b> tab).

# Edit Other Links

Use the Edit Other Links screen to add or customize up to five links to the Web sites of your choice (see the following note). These links appear throughout the HP Embedded Web Server screens, in the **Other Links** box beneath the left navigational bar. Three permanent links (**hp instant support**, **Order Supplies**, and **Product Support**) have already been established. The following illustration, table, and procedures describe how to use this screen.

**Note** With a permanent storage device installed, you can add up to five additional links; without the extra storage, you can add one additional link.



Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server” on page 5</a> .
2	Add Link	Add a user-defined link.
3	User-defined Links	Lists the user-defined links that have been added. Use this area to delete links.

Callout	Area on the screen	Information or capability that the area provides	
4	Other Links	<b>hp instant support</b>	Connect to Web resources that help you to solve specific problems and determine what additional services are available for your product. (Detailed information, including serial number, error conditions, and status, is forwarded to HP Customer Care. Hewlett-Packard Company treats this information as confidential.)
		<b>Order Supplies</b>	Connect to a Web page that facilitates online ordering of supplies from a reseller of your choice.
		<b>Product Support</b>	Gain access to specific product help from the HP Web site.
		<b>My Service Provider</b>	Connect to the home page of your service provider. This link appears only if the service provider has configured it.
		<b>My Service Contract</b>	Connect to a page that shows the terms and limits of your service contract. This link appears only if the service provider has configured it.

## Adding a link

Use this procedure to add a link.

- 1 Under **Add Link**, type the URL and the name of the link as you would like it to appear in the HP Embedded Web Server.
- 2 Click **Add Link**.

## Removing a link

Use this procedure to remove a link.

- 1 Under **User-defined Links**, select the link or links that you would like to remove.
- 2 Click **Remove Selected Link**.

# Device Information

Use the Device Information screen to provide a name of your choice for the product, assign an asset number, and configure the company name, the person to contact about the product, and the physical location of the product. The product IP address, product name, product model, and serial number are also available on this screen.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information **Settings** Networking [Log Off](#)

**Configure Device**  
E-mail Server  
Alerts  
AutoSend  
Security  
Edit Other Links  
**Device Information**  
Language  
Date & Time  
Wake Time

**Other Links**  
[hp instant support](#)  
[Order Supplies](#)  
[Product Support](#)

**Device Information**

Printer Name:	HP LaserJet XXXX
Printer Location:	Floor 7, room 2
Asset Number:	
Company Name:	Your Company
Contact Person:	Anybody
IP Address:	192.168.0.10
Product Name:	HP LaserJet XXXX
Printer Model:	CXXXXA
Printer Serial Number:	XXXXXXXXXX

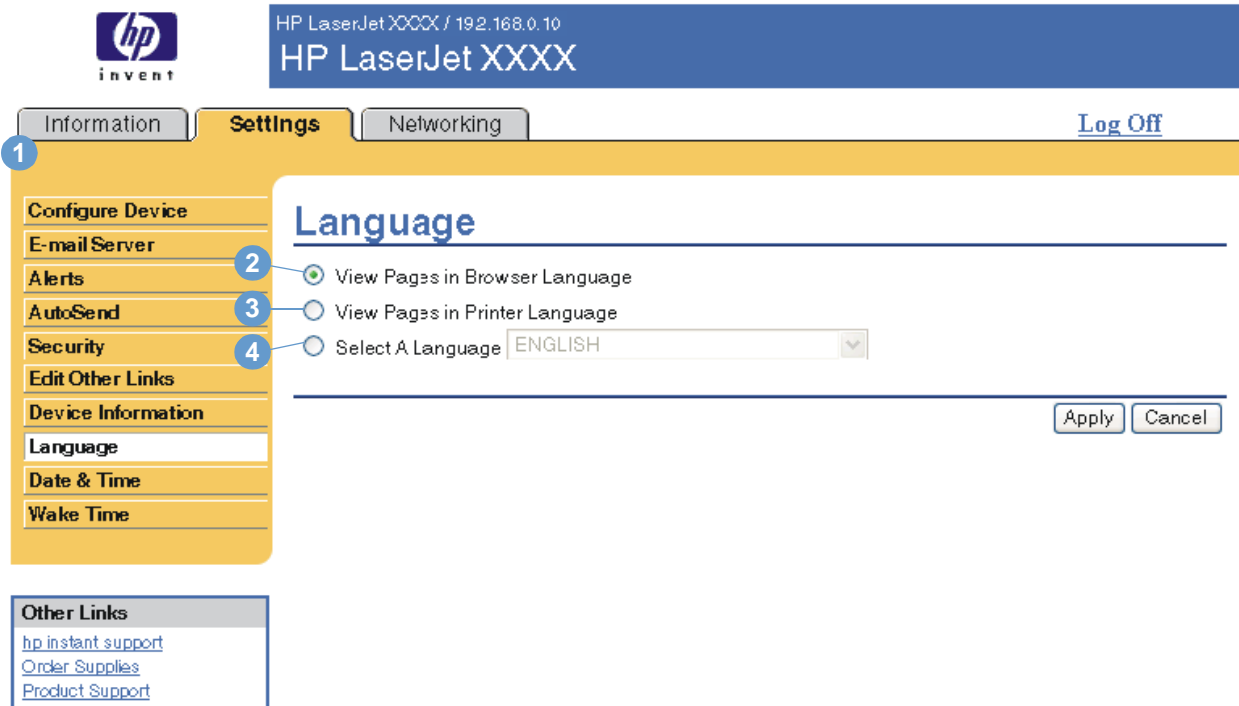
**Note** If you make any changes on the Device Information screen, click **Apply** to save the changes.

The information that is typed here appears on the Device Information screen that can be opened from the **Information** tab. It also appears in e-mail messages that are sent from the product. This might be useful if you need to locate the product to replace supplies or fix a problem.



# Language

Use the Language screen to select the language in which the HP Embedded Web Server screens appear. The following illustration and table describe how to use this screen.



## CAUTION

Selecting **View Pages in Printer Language** or **Select a Language** changes the language for everyone who uses the HP Embedded Web Server.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server”</a> on page 5.
2	View Pages in Browser Language (this is the default)	Use this feature to detect which language is selected for your Web browser. The HP Embedded Web Server screens appear in the same language.
3	View Pages in Printer Language	Use this feature to detect which language is selected for the product control panel. The HP Embedded Web Server screen appear in the same language.
4	Select A Language	Select the language for the HP Embedded Web Server screens from these choices: <ul style="list-style-type: none"> <li>• English</li> <li>• Francais (French)</li> <li>• Deutsch (German)</li> <li>• Italiano (Italian)</li> <li>• Español (Spanish)</li> <li>• Svenska (Swedish)</li> <li>• Dansk (Danish)</li> <li>• Norsk (Norwegian)</li> <li>• Nederlands (Dutch)</li> <li>• Suomi (Finnish)</li> <li>• Português (Portuguese)</li> </ul>

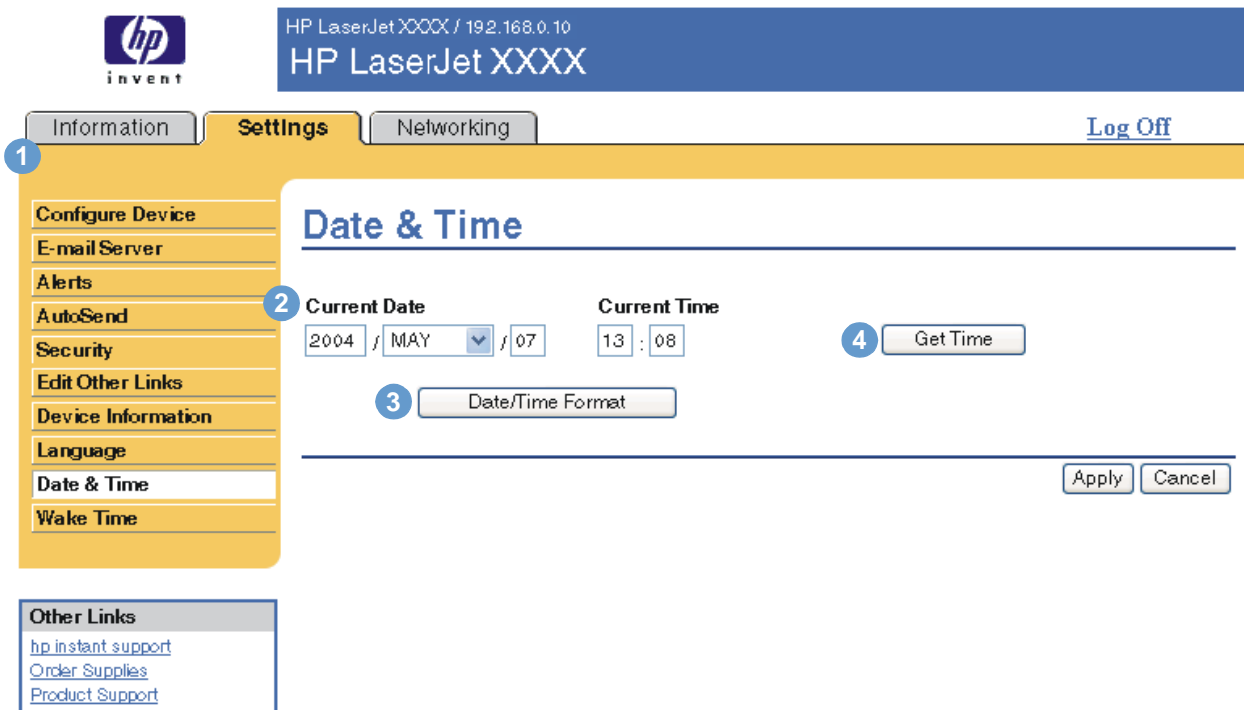
## Note

The default language is the language that the Web browser is currently using. If your browser and control panel both use a language that is not available for the HP Embedded Web Server, English is selected as the default.

If you make any changes on the Language screen, click **Apply** to save your changes.

# Date & Time

Use the Date & Time screen to update the product time. The following illustration and table describe how to use this screen.



Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see <a href="#">“Navigating through the HP Embedded Web Server”</a> on page 5.
2	Current Date and Current Time	Shows the product date and time when the EWS was opened. If either is incorrect, an IT administrator can change the information at the product control panel.
3	Date/Time Format	Click this button to open a screen where you can select the date and time format.
4	Get Time	Click this button to update the product date and time on the screen.

# Wake Time

An IT administrator can use the Wake Time screen to schedule product wakeups on a daily basis. For example, the product can be set to wake up at 07:30, so the product has finished initializing and calibrating and is ready to use by 08:00. The administrator only sets one wakeup setting per day; however, each day can have a different wakeup setting. Additionally, to save energy, the sleep delay can be set to turn the product off after a specific period of inactivity.

The screenshot shows the HP LaserJet XXXX web interface. At the top, there's a header with the HP logo and 'invent' text, and the device name 'HP LaserJet XXXX' along with the IP address '192.168.0.10'. Below the header are tabs for 'Information', 'Settings', and 'Networking', with 'Settings' being the active tab. A 'Log Off' link is visible in the top right. On the left side, there's a navigation menu with options like 'Configure Device', 'E-mail Server', 'Alerts', 'AutoSend', 'Security', 'Edit Other Links', 'Device Information', 'Language', 'Date & Time', and 'Wake Time'. The 'Wake Time' option is highlighted. Below the navigation menu, there's a section for 'Other Links' with links to 'hp instant support', 'Order Supplies', and 'Product Support'. The main content area is titled 'Wake Time' and contains the following text: 'Setting a Wake Time is useful for ensuring the product is Ready at a certain time and not in Sleep Mode. For example, to make sure the product is Ready at 7:45, set the Wake Time for 7:30, then set a Sleep Delay of 30 minutes or longer so people have time to use the product before it re-enters Sleep Mode.' Below this text, there's a section for 'Wake Time' with a sub-header 'Select one or more days below, then set the Wake Time for each day selected.' This section contains a table with columns 'Week Day' and 'Wake Time'. The 'Wake Time' column shows '07 : 30' for all days. The 'Week Day' column has checkboxes for each day: Sunday (unchecked), Monday (checked), Tuesday (checked), Wednesday (checked), Thursday (checked), Friday (checked), and Saturday (unchecked). Below the table, there's a section for 'Sleep Delay' with a sub-header 'The product will enter Sleep Mode to save energy if not in use for the period of time set below.' This section contains a dropdown menu for 'SLEEP DELAY' set to '60 MINUTES'. Below the dropdown, there's a note: 'Note: Once a Sleep Delay is applied, Sleep Mode will be automatically enabled. It may take a while for the product to return to Ready once it is in Sleep Mode.' At the bottom right of the 'Sleep Delay' section, there are 'Apply' and 'Cancel' buttons.

Callout	Area on the screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see “ <a href="#">Navigating through the HP Embedded Web Server</a> ” on page 5.
2	Wake Time	Select one or more days on which to use the wakeup setting, and then set the time the product is turned on each day.
3	Sleep Delay	Set the amount of time the product is idle before it goes into Sleep Mode. When the product is in Sleep Mode, it uses less energy.



# 4 Managing network operation from the Networking screens

## Overview

Use the Networking screens to configure and manage your product on your network. The appearance and features of the Networking screens differ depending on the model and version of your HP Jetdirect print server. The following screen is similar to what you might see when you click **Networking**. From the left navigational bar, click the **Networking** menu for the screen that you want to view.

HP LaserJet XXXX / 192.168.0.10  
HP LaserJet XXXX

Information Settings **Networking**

1

CONFIGURATION  
Network Settings  
Other Settings  
Privacy Settings  
Select Language

2

SECURITY  
Settings  
Authorization  
Mgmt. Protocols

SECURITY  
Settings  
Authorization  
Mgmt. Protocols

SECURITY  
Settings  
Authorization  
Mgmt. Protocols

SECURITY  
Settings  
Authorization  
Mgmt. Protocols

DIAGNOSTICS  
Network Statistics  
Protocol Info  
Configuration Page

3 Other Links  
Help  
Support  
HP Home

### Network Settings

TCP/IP IPX/SPX AppleTalk DLC/LLC SNMP

IP Configuration Method: BOOTP

Note: A change in IP Address will result in loss of connectivity to the browser.

Host Name: host name

IP Address: 192.168.0.10

Subnet Mask: 255.255.255.0

Default Gateway: 192.68.0.200

Domain Name:

Primary WINS Server:

Secondary WINS Server:

Syslog Server:

Syslog Maximum Messages: 10

Syslog Priority: 7

Idle Timeout: 270 Seconds

TTL/SLP: 4

System Contact:

System Location:

LPD Banner Page: Enable

Default IP: Legacy Default IP (when BOOTP/DHCP/RARP servers are not available)

Send DHCP requests if IP address is Auto IP (169.254.x.x) or Legacy Default IP

Apply Cancel

**Note:** See the table on the following page for descriptions of the callouts in this illustration.

Callout	Area on screen	Information or capability that the area provides
1	EWS tabs and menus	For more information, see “ <a href="#">Navigating through the HP Embedded Web Server</a> ” on page 5.
2	Select Language	Select the language for the <b>Networking</b> tab. The list of languages that are available in the <b>Networking</b> tab is <i>not</i> identical to the list of languages that are available in the <b>Settings</b> tab.
3	Help	Click <b>Help</b> for more information about the options on the <b>Networking</b> tab.

Depending on your HP Jetdirect print server model and operating version, the following are some tasks that you can perform from the Networking screens:

- Change network configuration settings for various types of network connections.
- Turn on or turn off printing protocols.
- Set up a support contact and support URLs.
- Set a password to control access to the printer and network configuration settings.
- Configure the security of your product through the use of passwords, access lists, and management protocols.
- View general network status information, including network statistics that are stored on the print server, for network troubleshooting or optimization.
- View protocol information for all supported network connections.
- Open the HP Jetdirect Configuration page.
- Set the frequency at which the HP Embedded Web Server checks the network status.

For more information about the Networking screens, see the following sources:

- **Help.** On each Networking screen, a **Help** link under **Other Links** provides a description of the networking features and helpful tips for using them. Also, from the Help screen you can gain access to additional help from the HP Web site.
- **HP Jetdirect Print Server Administrator's Guide.** This guide is normally available on the software CD that came with your product. To download the most recent version of the guide for your print server model, go to: [http://www.hp.com/support/net\\_printing](http://www.hp.com/support/net_printing).

# 5 Using the Other Links as a resource

The **Other Links** box contains three permanent links that provide quick access to product-specific information, such as interactive troubleshooting and ordering information for genuine HP supplies.

The screenshot shows the HP LaserJet Embedded Web Server (EWS) interface. At the top, there is a blue header with the HP logo and the text "HP LaserJet XXXX / 192.168.0.10" and "HP LaserJet XXXX". Below the header is a yellow navigation bar with tabs for "Information", "Settings", and "Networking", and a "Log Off" link on the right. The "Information" tab is selected, and a left-hand menu contains links for "Device Status", "Configuration Page", "Supplies Status", "Event Log", "Usage Page", "Device Information", "Control Panel", and "Print". The "Device Information" section is expanded, showing a table of printer details. Below the navigation bar, a box titled "Other Links" is highlighted with a blue arrow. This box contains three links: "hp instant support", "Order Supplies", and "Product Support".

Device Information	
Printer Name:	HP LaserJet XXXX
Printer Location:	Floor 7, room 2
Asset Number:	
Company Name:	Your Company
Contact Person:	Anybody
IP Address:	192.168.0.10
Product Name:	HP LaserJet XXXX
Printer Model:	CXXXXA
Printer Serial Number:	XXXXXXXXXX

**Other Links**

- [hp instant support](#)
- [Order Supplies](#)
- [Product Support](#)

**Note** You can use the Edit Other Links screen on the **Settings** tab to add up to five customized links to the Web sites of your choice. (With a permanent storage device installed, you can add up to five additional links; without the extra storage, you can add one additional link.) These links appear throughout the EWS screens, in the **Other Links** box beneath the left navigational bar. For more information, see “[Edit Other Links](#)” on page 32.

## hp instant support

Hewlett-Packard Company offers hp instant support, an Internet-based support system that collects diagnostic information from your product and matches it with the HP information database. At hp instant support, you can find intelligent solutions that help you resolve problems quickly and easily.

### How hp instant support works

Information is gathered from your product and securely transmitted to Hewlett-Packard Company when you click **hp instant support**. The hp instant support Web site reads the product data to analyze the product's current status. The Web site creates a customized Web page that appears in the browser window and contains easy-to-follow text and visual aids. The hp instant support Web site also directs you to additional services that are available for your product.

Before any of the product data is sent to Hewlett-Packard for analysis, you can view all of the information (for example, the serial number, error conditions, and product status) that will be forwarded. Hewlett-Packard treats this information as confidential.

### Information you can get from hp instant support

The hp instant support Web site provides these tools for troubleshooting and for maintenance:

- Firmware and software updates.
- Troubleshooting for recent events that are listed on the Event Log. For example, the product might show a jam as the most recent event listed in the event Log. The hp instant support Web site detects the event and provides troubleshooting information for the jam.
- Support packs.
- Product documentation, such as user guides and getting started guides.

## Order Supplies

The **Order Supplies** link connects you to a Web page that facilitates your online ordering of supplies from a reseller of your choice. The supplies that you need are preselected. You can change quantities or select additional items. Your items are added to the shopping cart, ready for checkout, ensuring that the correct supplies are ordered through your selected reseller.



## Product Support

The **Product Support** link connects you to a Web page that brings together a comprehensive menu of support resources that business people need. From this Web page, you can accomplish these tasks and more:

- Find a list of HP products at one site: computers, workstations, servers, storage devices, printer, scanners, digital imaging, and mobile devices.
- Obtain technical support. Solve a problem; find information to set up, install, and configure your product; discover and use a product; maintain your product; upgrade and migrate your product software and driver; and recycle products or dispose of them correctly.
- Gain access to self-solve resources such as FAQs, user documentation, features and specifications, and product-compatibility information.
- Collaborate with HP and with your peers through discussion groups, e-mail support, and phone support.
- Use task-based navigation to identify the task area that you want to work on and quickly discover related topics and tools.

In addition, you can find these features: hot topics, a subscription center, product rebate offers and other announcements, and training and education opportunities.

## My Service Provider and My Service Contract

The **My Service Provider** and the **My Service Contract** links appear only if they have been created (and perhaps renamed) by the service provider in the Other Links screen on the **Settings** tab. The link can then be clicked by any user to get information about the service provider and the service contract. The information, which can be up to 50 characters long, is stored in the permanent storage of the product.

When these links have been created, the appearance of the **Other Links** box changes to include the new links, as shown in the following illustration.





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