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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 Firefox, can show output from a Web server.

An embedded Web server resides on a hardware product (such as a printer) 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 (HP EWS), you can view product status information, change settings, and manage the product at your computer.

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 or multifunction peripherals (MFPs), or HP Digital Senders. For specific information about the features that your printer, MFP, or digital sender supports, see the documentation that came with your product.

Features

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

- Upload firmware updates
- 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 an more links 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. Set up four different destination lists for each user (administrators and service), with up to 20 recipients on each of the four lists

● Select the language in which to display the HP EWS screens

● Print to an HP product using a PDF or print-ready file without having to install the product print driver

● Conserve energy by scheduling the product sleep delay so that the product goes 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

**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 EWS and HP Web Jetadmin work together to meet all 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 EWS provides a simple, easy-to-use solution for one-to-one product management in environments that have a limited number of products. To manage environments that have several products, use HP Web Jetadmin instead. With HP Web Jetadmin you can discover, manage, and configure multiple products simultaneously.

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

**System requirements**

To use the HP EWS, you must have the following components:

● A supported Web browser. Browsers that support embedded Web servers include, but are not limited to, the following:
  ◦ Konqueror 3.5 or later
  ◦ Microsoft Internet Explorer 6.0 or later
  ◦ Mozilla Firefox 1.0 or later
  ◦ Opera 9.0 or later
  ◦ Safari 1.0 or later

● A transmission control protocol/Internet protocol-based (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 EWS.

**NOTE:** You cannot view the HP EWS screens from outside a firewall.

1. Open a supported Web browser.
2. In the **Address** or **Go to** field, type the IPv4 or IPv6 TCP/IP address, the host name, or the configured host name assigned to the product. See the following examples.
   - IPv4 TCP/IP address: http://192.168.1.1
   - IPv6 TCP/IP address: http://[2001:0ba0:0000:0000:0000:0000:0000:1234]
   - Host name: npiXXXXXX

   If you do not know the TCP/IP address for the product, find it by using the control-panel menu or by printing a configuration page. For instructions, see the user guide that came with your product.

Login and logoff

The HP EWS screens are used to view product information and change configuration options. The screens and settings vary according to how you access the HP 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 EWS, 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 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 EWS tabs (**Settings** and **Networking**).

**NOTE:** For information about changing passwords as an IT administrator, see [Security on page 33](#). 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 HP EWS, click the **Log In** link in the upper-right corner of the screen.
   
   The **Enter Network Password** dialog box displays. 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 HP EWS continues to run and could pose security risks.
Navigating through the HP Embedded Web Server

To browse through the HP EWS screens, click one of the tabs (such as **Information** or **Settings**), and then click one of the menus on the navigation bar located on the left side of the screen.

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

**NOTE:** The appearance of the HP 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.

![Sample HP EWS screen](image)

**Figure 1-1 Sample HP EWS screen**

<table>
<thead>
<tr>
<th>Callout</th>
<th>HP EWS screen feature</th>
<th>Description</th>
<th>More information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Product name</td>
<td>View the product name.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Product TCP/IP address</td>
<td>View the Internet protocol (IP) address for the product.</td>
<td><a href="#">Viewing product status from the HP EWS Information screens on page 7</a>.</td>
</tr>
<tr>
<td>3</td>
<td>Tabs</td>
<td><strong>Information tab</strong> View information about the product. You cannot configure the product using the screens on this tab.</td>
<td><a href="#">Configuring the product from the Settings screens on page 21</a>.</td>
</tr>
<tr>
<td>4</td>
<td>Menus</td>
<td><strong>Settings tab</strong> Use the features on this tab to configure the product.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Networking tab</strong> View network status and configure the network settings.</td>
<td><a href="#">Managing network operation from the Networking screens on page 53</a>.</td>
</tr>
</tbody>
</table>

**NOTE:** EWS user interface elements (buttons and text strings) appear in **bold** text throughout this document.
<table>
<thead>
<tr>
<th>Callout</th>
<th>HP EWS screen feature</th>
<th>Description</th>
<th>More information</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Other Links</td>
<td>hp instant support</td>
<td>Connect to Web resources that help solve problems and describe more services that are available for your HP product.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See Using the Other Links as a resource on page 55.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See hp instant support on page 55.</td>
</tr>
<tr>
<td></td>
<td>Shop for Supplies</td>
<td>Use the Internet to order genuine HP supplies for your HP product.</td>
<td>See Product Support on page 57.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See My Service Provider and My Service Contract on page 58.</td>
</tr>
<tr>
<td></td>
<td>Product Support</td>
<td>Use product-specific help from the HP Web site to solve a problem.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Log In/Log Off</td>
<td>Different for each type of user</td>
<td>Log in as an IT administrator or service provider.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See Login and logoff on page 3.</td>
</tr>
<tr>
<td>7</td>
<td>Screen</td>
<td>Different for each menu item</td>
<td>Click a menu item to show a screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See Viewing product status from the HP EWS Information screens on page 7.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See Configuring the product from the Settings screens on page 21.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See Managing network operation from the Networking screens on page 53.</td>
</tr>
</tbody>
</table>
2 Viewing product status from the HP EWS Information screens

The screens available from the Information tab are for informational purposes only; you cannot configure the product from these screens. To configure the product through the HP EWS, see Configuring the product from the Settings screens on page 21.

NOTE: Some products do not support all 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.

**Figure 2-1  Device Status screen**

---

**Table 2-1  Device Status**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server on page 4</a>.</td>
</tr>
<tr>
<td>2</td>
<td>Status</td>
<td>Shows the device status (the same information that displays on the control-panel display).</td>
</tr>
<tr>
<td>3</td>
<td>Control-panel buttons</td>
<td>Use these control-panel buttons as you would at the product. To select which control-panel buttons appear on this screen, see the <strong>Security</strong> screen on the <strong>Settings</strong> tab.</td>
</tr>
<tr>
<td>4</td>
<td>Supplies</td>
<td>Shows the approximate percentage of life remaining for each supply.</td>
</tr>
<tr>
<td>5</td>
<td>Supplies Details</td>
<td>Opens the <strong>Supplies Status Page</strong> screen, where you can view information about product supplies.</td>
</tr>
<tr>
<td>6</td>
<td>Media</td>
<td>Shows the status and configuration information for the input trays and output bins.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The media status is <strong>OK</strong> until the tray is completely empty. When the tray is empty, the status is <strong>Empty</strong>.</td>
</tr>
<tr>
<td>7</td>
<td>Change Settings</td>
<td>Opens the <strong>Other Settings</strong> screen, where you can change the paper-type settings.</td>
</tr>
</tbody>
</table>
Configuration Page

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

Figure 2-2  Configuration Page screen

Table 2-2  Configuration Page

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
</tbody>
</table>
### Table 2-2  Configuration Page (continued)

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Printer Information</td>
<td>Lists the serial number, version numbers, and other information for the device.</td>
</tr>
</tbody>
</table>
| 3       | Installed Personalities and Options | Lists:  
|         |                                 |   - Model and TCP/IP address for all network devices connected to the product (Jetdirect or internal Jetdirect) |
|         |                                 |   - The printer languages installed (such as printer command language [PCL] and PostScript® [PS]) |
|         |                                 |   - Options installed in each DIMM slot and EIO slot |
|         |                                 |   - USB devices capable of connecting to a printer used as a host USB controller, such as mass storage devices, card swipes, or keypads |
| 4       | Memory                         | Lists the memory information, PCL Driver Work Space (DWS), and resource saving information. |
| 5       | Event Log                      | Lists the number of active entries in the Event Log, the three most recent entries, and the Event Log total capacity. |
| 6       | Security                       | Lists the status of the control-panel lock, disk write-protect options, and direct-connect (USB or parallel) ports.  
|         |                                 | You can change the status of the Direct Connect ports on the Security screen under the Settings tab by selecting or clearing the Disable Direct Ports check box. |
| 7       | Paper Trays and Options        | Lists the size and type of media specified for each of the trays in the product. If a duplexing unit or any paper-handling accessories are installed on the product, information about those devices is also listed here. |
Supplies Status Page

The **Supplies Status Page** 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.

**Figure 2-3  Supplies Status Page screen**

![Supplies Status Page screen](image)

**Table 2-3  Supplies Status Page**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server on page 4</a>.</td>
</tr>
<tr>
<td>2</td>
<td>Shop for Supplies link</td>
<td>Use this feature to connect to a Web page that facilitates online ordering of supplies from a reseller of your choice.</td>
</tr>
<tr>
<td>3</td>
<td>Supply Information</td>
<td>If available, this lists the percent of life remaining and the estimated number of pages remaining before the supply is empty; the total number of pages that have been processed with the supply; the supply serial number and HP part number; and an indication of whether or not the supply has reached the low status. If the <strong>Override at Out</strong> option is enabled at the product control panel, a message displays, when the supply is exhausted, stating that the cartridge was used with the override setting. <strong>NOTE:</strong> If using a previously used or moved supply, information about the device might not be available. In addition, a warning message about the risks with using previously used or moved supplies could appear on the screen. No further information about the status of the supply will be available.</td>
</tr>
</tbody>
</table>

* Approximate only; varies depending on the types of documents printed and other factors.

---

**NOTE:**

If using a previously used or moved supply, information about the device might not be available. In addition, a warning message about the risks with using previously used or moved supplies could appear on the screen. No further information about the status of the supply will be available.
Event Log Page

The Event Log page screen 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.

**Figure 2-4  Event Log Page screen**

![Event Log Page screen](image)

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server on page 4</a>.</td>
</tr>
<tr>
<td>2</td>
<td>Number</td>
<td>Lists the order in which the errors occurred. The last error to occur has the highest number.</td>
</tr>
<tr>
<td>3</td>
<td>Date and Time</td>
<td>Lists the date and time for each event logged.</td>
</tr>
<tr>
<td>4</td>
<td>Cycles</td>
<td>Shows the number of engine cycles that the product had completed when the error occurred. The product completes one engine cycle for every Letter/A4-size page side that it prints or copies.</td>
</tr>
<tr>
<td>5</td>
<td>Event</td>
<td>Shows the internal event code for each event.</td>
</tr>
<tr>
<td>6</td>
<td>Firmware</td>
<td>Displays the firmware version in place when the event occurred on the printer.</td>
</tr>
<tr>
<td>7</td>
<td>Description or Personality</td>
<td>Shows a brief description of some events.</td>
</tr>
<tr>
<td>8</td>
<td>Product Support link</td>
<td>Provides access to the HP support Web site for product-specific troubleshooting information.</td>
</tr>
</tbody>
</table>
The **Usage Page** screen gives a page count for each media size that has passed through the product, and 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.
### Page Path Usage

<table>
<thead>
<tr>
<th>Source</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Envelope Feeder</td>
<td>0</td>
</tr>
<tr>
<td>Manual Feed Tray</td>
<td>0</td>
</tr>
<tr>
<td>Tray 1</td>
<td>523</td>
</tr>
<tr>
<td>Tray 2</td>
<td>5,058</td>
</tr>
<tr>
<td>Tray 3</td>
<td>0</td>
</tr>
<tr>
<td>External Tray</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
</tr>
</tbody>
</table>

### Destination

<table>
<thead>
<tr>
<th>Usage</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face Up</td>
<td>1</td>
</tr>
<tr>
<td>Face Down</td>
<td>0</td>
</tr>
<tr>
<td>External Bin</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
</tr>
</tbody>
</table>

### Blank

<table>
<thead>
<tr>
<th>Source</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter</td>
<td>0</td>
</tr>
<tr>
<td>US-LEGAL</td>
<td>0</td>
</tr>
<tr>
<td>A4</td>
<td>0</td>
</tr>
<tr>
<td>ENVELOPE</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE #10</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE MONARCH</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE C5</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE DL</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE 35</td>
<td>0</td>
</tr>
<tr>
<td>CUSTOM</td>
<td>0</td>
</tr>
<tr>
<td>ENVELOPE(35)</td>
<td>0</td>
</tr>
<tr>
<td>A6</td>
<td>0</td>
</tr>
<tr>
<td>195 x 277 mm</td>
<td>0</td>
</tr>
<tr>
<td>A5</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE CO</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE C3</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE C5</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE DL</td>
<td>0</td>
</tr>
<tr>
<td>ENVOLPE 35</td>
<td>0</td>
</tr>
<tr>
<td>CUSTOM</td>
<td>0</td>
</tr>
<tr>
<td>ENVELOPE(35)</td>
<td>0</td>
</tr>
<tr>
<td>A6</td>
<td>0</td>
</tr>
<tr>
<td>195 x 277 mm</td>
<td>0</td>
</tr>
<tr>
<td>A5</td>
<td>0</td>
</tr>
</tbody>
</table>
Table 2-5  Usage Page

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Usage Totals (equivalent)</td>
<td>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.</td>
</tr>
<tr>
<td>3</td>
<td>Units</td>
<td>A unit is equal to a standard A4-size (letter-size) page. All other page sizes are referenced in relation to this standard size. An A4-size (letter-size) page printed on both sides counts as two units.</td>
</tr>
<tr>
<td>4</td>
<td>Total</td>
<td>Total page counts for all types of printed media.</td>
</tr>
<tr>
<td>5</td>
<td>Fuser Modes &amp; Paper Path Usage</td>
<td>Indicates the different print modes that have been used for print jobs.</td>
</tr>
</tbody>
</table>
Device Information

The **Device Information** screen shows the following information:

- Printer name
- Printer location
- Asset number
- Company name
- Contact person
- Product name
- Printer model
- Printer serial number

The product name, printer model, and printer serial number are automatically generated. You can configure the other information on this screen from the **Device Information** screen on the **Settings** tab.

**Figure 2-8  Device Information screen**

![Device Information Screen](image)
Control Panel Snapshot

The Control Panel Snapshot 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.

Figure 2-9 Control Panel Snapshot 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 screen under the Settings tab. Use the Security screen to disable the Print screen if you do not want it to appear for security reasons. For more information, see Security on page 33.

Use the Print screen for print-ready files or to remotely update the product firmware.

Use the Print screen to print one file at a time from a product that supports the HP EWS. This feature is especially useful for a mobile user, because you do not have to install the product's print driver to print; you can print from anywhere at any time.

You can print all print-ready files, such as the documents generated by using a "print to file" driver option. Print-ready files commonly have file name extensions such as PS (PostScript), PDF (Adobe Portable Document Format), and PRN (Windows print-ready File).

You can also use the Print screen to update your product firmware. This feature is especially useful because you do not have to install more software to update the product firmware. When updated firmware files are available for your product, download them from your product support Web site:

www.hp.com/go/ljp3010_firmware

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

**Figure 2-10 Print screen**

The following table describes the areas on the Print screen:

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Device Status</td>
<td>Shows the device status (the same information that displays on the Device Status screen and the control-panel display). <strong>NOTE:</strong> The printer must have a Ready status to receive firmware updates and print-ready files.</td>
</tr>
<tr>
<td>3</td>
<td>Choose File</td>
<td>Allows you to select a file for printing located on your laptop, computer, or a network file server.</td>
</tr>
</tbody>
</table>
Printing a file or updating firmware from the Print screen

Use the following procedure to print a file or update product firmware from the Print screen.

1. Select a file that resides on your computer or on your network, and then click the button under Option 1 to browse to a file that you want to print.

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.

Configure Device

Use the Configure Device screen to print device information pages and remotely configure the device.

The menus on this screen are similar to the menus available at your device control panel. Some of the device control-panel menus are not available from the HP EWS. See the documentation that came with your device for more information about menus supported by your device.

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

Figure 3-1 Configure Device screen

Table 3-1 Configure Device

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
</tbody>
</table>
Using the menus on the Configure Device screen

The following procedure is provided only as an example. Use similar procedures to set other menu items.

Follow these steps to print a configuration page (example procedure).

1. Click Information.
2. Select the check box for the information page that you want to view or print, and then click Apply.

**NOTE:** Print drivers and software programs frequently override selections made on the Paper Handling menu. For more information, see the user guide that came with your product. Any changes are reflected on the Device Status screen, the Configuration Page screen, and the Paper Handling menu.

### Table 3-1  Configure Device (continued)

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Select a Menu</td>
<td>Show Me How menu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Information menu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paper Handling menu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Manage Supplies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Configure Device menu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIAGNOSTICS menu</td>
</tr>
<tr>
<td>3</td>
<td>Plus sign (шение)</td>
<td>Click the plus sign next to a menu, or click the menu, to see the submenus or subentries.</td>
</tr>
</tbody>
</table>
Tray Sizes/Types

Use the Tray Sizes/Types screen to assign paper sizes and paper types for each tray on the product. The following illustration and table describe how to use this screen.

Figure 3-2  Tray Sizes/Types screen

Table 3-2  Tray Sizes/Types

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Tray Sizes and Tray Types</td>
<td>Use these menus to select the default paper sizes and types for each tray on the product.</td>
</tr>
</tbody>
</table>
E-mail Server

Use the **E-mail Server** screen to configure e-mail settings for outgoing 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.

**Figure 3-3  E-mail Server screen**

![E-mail Server Screen]

**Table 3-3  E-mail Server**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Outgoing e-mail</td>
<td>Configure outgoing e-mail if you intend to use the Alerts or AutoSend features. For more information, see Using the Alert Subscriptions–setup screen with a product on page 27.</td>
</tr>
<tr>
<td>3</td>
<td>Return E-mail Address</td>
<td>This is the device's e-mail address which displays in device alerts. For more information, see Configuring the return e-mail address on page 25.</td>
</tr>
<tr>
<td>4</td>
<td>Enable SMTP Authentication</td>
<td>If your SMTP server requires authentication, type the credentials here.</td>
</tr>
</tbody>
</table>

**Configuring outgoing e-mail**

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

1. Find the TCP/IP address or fully-qualified domain name of the simple mail transfer protocol (SMTP) mail server on your network. The EWS uses the SMTP server TCP/IP address to relay e-mail messages to other computers. The e-mail server address field also supports IPV6 addresses (SMTP6).

   **NOTE:** Your organization’s network or e-mail administrator typically provides this information.

2. Select the **Enable Outgoing E-mail** check box.

3. Type the SMTP server TCP/IP address or the fully-qualified domain name found in step 1 in the **SMTP Server** text box.

4. Type the return e-mail address for the device (optional).
5. If the SMTP server requires authentication, select the Enable SMTP Authentication check box and type the username and password (optional).

6. Click Apply to save the changes.

Configuring the return e-mail address

When you configure the return e-mail address on the E-mail Server page, you are configuring the identity of the product. For example, if you type anyone@your.company.com in the Return E-mail Address field, all e-mails sent out by the product will come from anyone@your.company.com In this example, the identity of the product is: anyone@your.company.com
Alert Subscriptions

From the Alert Subscriptions 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, paper-path status, and other 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 print cartridges 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.

**NOTE:** With a permanent storage device installed, such as a hard disk, a user can create up to four different destination lists, with up to 20 recipients on each list. (Without the permanent storage device, a user can send alerts to only four e-mail addresses.)

The following illustration, table, and procedures describe how to use this screen to edit, test, and delete destinations and destination lists.

**NOTE:** In order for e-mail alerts to function, enable outgoing e-mail. To enable outgoing e-mail, see Configuring outgoing e-mail on page 24.

**Figure 3-4 Alert Subscriptions screen**

![Alert Subscriptions screen](image)

**Table 3-4 Alert Subscriptions**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Destination list summary</td>
<td>Lists the current selections for each destination. The List Name field displays only with a hard disk installed.</td>
</tr>
<tr>
<td>3</td>
<td>Edit</td>
<td>Click this button to make changes to the destination or destination list.</td>
</tr>
<tr>
<td>4</td>
<td>Test</td>
<td>Click this button to send a test alert to the destination or destination list.</td>
</tr>
<tr>
<td>5</td>
<td>Delete</td>
<td>Click this button to delete the destination or destination list.</td>
</tr>
<tr>
<td>6</td>
<td>New Destination List</td>
<td>Click this button to define the settings for a new destination list for alerts.</td>
</tr>
</tbody>
</table>
Using the Alert Subscriptions—setup screen with a product

You can set up four different lists, with up to 20 recipients on each list.

The Alert Subscriptions—setup screen that displays when you click either Edit or New Alert Destination looks similar to the following illustration.

**Figure 3-5  Alert Subscriptions—setup screen**

---

**Alert Subscriptions — setup**

**Step 1: Type the alert destination**

- Type one alert destination in any of the following forms:
  - An e-mail address (e.g., username@yourcompany.com)
  - A mobile device (e.g., 555-555-5555@mobile-operators.net)
  - A webpage (e.g., http://www.your-name.com)

**Alert Destination:** anyone@yourdomain.com

*Note: Only one destination is available unless a hard drive is installed on the device.*

**Step 2: Select alerts**

Select the alerts that you would like the alert destination to receive. All available alerts for this product are listed here.

**Supplies Alerts**

<table>
<thead>
<tr>
<th>Alert Name</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridge Low</td>
<td></td>
</tr>
<tr>
<td>Cartridge Very Low</td>
<td></td>
</tr>
<tr>
<td>Non-HP Supply Installed</td>
<td></td>
</tr>
</tbody>
</table>

**Service Alerts**

<table>
<thead>
<tr>
<th>Alert Name</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printer Error</td>
<td></td>
</tr>
<tr>
<td>SECC Controller Error</td>
<td></td>
</tr>
<tr>
<td>Internal Clock Error</td>
<td></td>
</tr>
</tbody>
</table>

**Paper Path Alerts**

<table>
<thead>
<tr>
<th>Alert Name</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove Paper Jam</td>
<td></td>
</tr>
<tr>
<td>Close Drawers, Doors, And Covers</td>
<td></td>
</tr>
<tr>
<td>Manually Feed</td>
<td></td>
</tr>
<tr>
<td>Outlet 0k Full</td>
<td></td>
</tr>
<tr>
<td>Tray Empty (Low)</td>
<td></td>
</tr>
</tbody>
</table>

**Advisory Alerts**

<table>
<thead>
<tr>
<th>Alert Name</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>30% Sufficient Memory</td>
<td></td>
</tr>
<tr>
<td>40% Low Toner/Print 320</td>
<td></td>
</tr>
</tbody>
</table>

**Step 3: Select e-mail attachments (optional)**

Select the attachments that you want to include with each e-mail alert message. Go to the Information link to see a sample of these pages.

<table>
<thead>
<tr>
<th>E-mail attachment</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplies Status Page</td>
<td></td>
</tr>
<tr>
<td>Usage Page</td>
<td></td>
</tr>
<tr>
<td>Configuration Page</td>
<td></td>
</tr>
<tr>
<td>Event Log Page</td>
<td></td>
</tr>
<tr>
<td>IPK Color</td>
<td></td>
</tr>
</tbody>
</table>

*Select this option if the alert destination you have chosen to receive alerts is an automated computer system.*
To configure alerts

1. Do one of the following:
   - To create a new destination list, click **New Alert Destination**.
   - Or-
   - To modify a destination list, click **Edit** next to the list that you want to modify.

   The **Alert Subscriptions—setup** screen displays.

2. Type the e-mail addresses to designate the people to receive alerts. In large environments, system administrators can route e-mail addresses to list servers, URLs, and mobile devices for expanded alerts. Add multiple destinations by separating each destination with a comma or semicolon.

3. Select the check box for the alerts that you want sent with this destination list. (To see all of the alerts that are available for the product, click **Show All Alerts**.)

4. Select the attachments to include with your e-mail alert messages. These attachments may include the following pages. (Go to the **Information** tab to see examples of these pages.)
   - **Supplies Status Page**
   - **Usage Page**
   - **Configuration Page**
   - **Event Log Page**
   - **XML Data**

   Select **XML Data** if one of the destinations you have chosen to receive alerts is an automated computer system. Each item that you select is attached to the e-mail. For example, if you select **Usage Page** and **Event Log Page**, you receive one e-mail message with two attachments, one for each selection. If you also select the **XML Data** option, you receive one e-mail message with three attachments: one attachment for the **Usage Page** in HTML, one for the **Event Log Page** in HTML, and a third consisting of instant support information in a text file attachment that has an XML extension.

5. Click **Apply** to save the information.

6. Repeat steps 1 through 6 for each additional list or destination.

Use the following procedure to test the destination list configuration.
To test the configuration of a destination list

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

   The following window appears.

   **Figure 3-6 Alert Subscriptions—test screen**

   ![Alert Subscriptions—test screen](image)

   To send a test alert to the selected destination(s), click **OK** to send the test, and click **Cancel** to return to the main Alert page without sending the test.

   **Alert Destinations:**
   - renee@yourdomain.com

   **Return Address:**
   - By default, the return address is the product’s e-mail address. To receive any responses that are generated from this test, type your own e-mail address in the Return Address box.

   **Message Text:**
   - This is a test alert. You have been selected to receive information about the following product.
   - The product does not need attention at this time.
   - **Product:**
     - HP LaserJet P3015 Series
   - **Currently selected alerts:**
     - Cartridge Low
     - Cartridge Very Low / Replace
     - Non-Hewlett Packard Installed
     - Drum/Scanner, Drum And Cartridge
     - Tray Empty (Levod)
   - **Currently selected destination:**

   **Your Notes (optional):**

2. 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 to receive messages about any errors generated from the test alert (for example, for notification of an incorrect destination address).

4. If applicable, type more information 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

1. If you have multiple destinations configured, 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.

2. Click **OK** to confirm the deletion.
Alert Thresholds

Use the Alert Thresholds screen to set the threshold values for when alerts are sent. The threshold value is the percentage of a supply remaining when an alert is sent.

When the supply level reaches the threshold value, a message is displayed on Control Panel, informing that the supply has reached the Low state, and an alert will be sent by e-mail to all configured Alert Subscriptions.

Figure 3-7  Alert Thresholds screen
AutoSend

Use the **AutoSend** screen to send product-configuration and supplies-usage information periodically to e-mail destinations of your choice, such as service providers. 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, print-cartridge replacement, pay-per-page contracts, support agreements, and usage tracking. A user can add up to twenty **AutoSend** destinations. The following illustration, table, and procedure describe how to use this screen.

**Figure 3-8 AutoSend screen**

![AutoSend screen](image)

**Table 3-5 AutoSend**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server</a> on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Enable AutoSend</td>
<td>Select this check box to turn on the <strong>AutoSend</strong> feature.</td>
</tr>
<tr>
<td>3</td>
<td>Send every [interval]</td>
<td>Select the interval at which you want the product to send the product configuration and supplies usage information to the destinations configured in the <strong>E-Mail Destinations</strong> field.</td>
</tr>
<tr>
<td>4</td>
<td>E-Mail Destinations</td>
<td>Save a list of e-mail addresses to receive the product-configuration information. Up to twenty email addresses can be saved if the product has a hard drive installed. If the product does not have a hard drive installed, one email list can be saved. The first e-mail address can be no more than 50 characters long.</td>
</tr>
<tr>
<td>5</td>
<td>Test</td>
<td>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.</td>
</tr>
<tr>
<td>6</td>
<td>Send to HP</td>
<td>Select this check box to send device configuration and supplies status information to HP on a regular basis. The information is sent to an HP e-mail address (for example, <a href="mailto:myproduct@hp.com">myproduct@hp.com</a>) in a text-based file with an XML file name extension. This file is in English. To view more information about how HP treats the information sent by <strong>AutoSend</strong>, click <a href="#">Hewlett-Packard Online Privacy Statement</a>.</td>
</tr>
</tbody>
</table>
To turn on the AutoSend feature

Use the following procedure to make the AutoSend feature available.

1. Make outgoing e-mail functions available by following the instructions listed in this chapter. (For more information, see E-mail Server on page 24.)

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. Configure up to twenty destinations (with a hard drive installed) using the format that displays on the screen.

5. To send device configuration and supplies status information to HP, select the Send to HP check box.

6. Click Apply.
Security

The following illustration and table describe how to use the Security screen.

Figure 3-9 Security screen

Table 3-6 Security

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>HP Jetdirect Security Configuration Wizard button</td>
<td>The HP Jetdirect Security Configuration Wizard button allows you to configure security settings for the device’s HP Jetdirect print server.</td>
</tr>
<tr>
<td>3</td>
<td>Device Security Settings button</td>
<td>The Device Security Settings button allows you to configure administrative passwords, Embedded Web Server options and other security settings.</td>
</tr>
</tbody>
</table>
The **Perform Secure Storage Erase** button allows you to perform disk wipes that remove all data stored on any mass storage unit attached to the device.

**NOTE:** The settings for the type of Secure Storage Erase performed are configured in the File Erase Mode section of the device's security settings page.

**NOTE:** Set the device's file system password before performing a Secure Storage Erase operation. Set the file system password in the **File System Password** section of the device's security settings page. See [Device Security Settings on page 35](#).

**NOTE:** This button does not appear if the device does not have a mass storage device installed.

**NOTE:** Click **Apply Automatic Encryption Setting** to enable encryption for an HP Secure Hard Drive hard drive.

**NOTE:** If you use HP Web Jetadmin to configure your printer, HP recommends that you configure HP Jetdirect security settings with HP Web Jetadmin.

HP Jetdirect firmware enhancements and revisions address product performance and security issues. Make sure the firmware on the printer is the latest revision level to ensure maximum security. HP Web Jetadmin provides the ability to upgrade HP Jetdirect firmware either individually or in batches.

The following illustration describes how to use this screen.
Device Security Settings

The EWS supports two administrative roles identified as "service" and "admin". These administrative roles are designed to meet the needs of service providers who lease devices to customers. The service user (representing the service provider) must be capable of setting up metered billing services, etc. The admin user (representing the customer) must be allowed to configure the device on their local intranet, perform remote management etc.

When the device is shipped, the admin password is not set, which means that the system is unprotected. In this case, any EWS user will automatically have all admin privileges until a password is set. After that, only the admin and the service users will have access to the Device Security Settings page. The admin password can be reset (set to blank value) to unprotect the system again, in the same way as the default configuration.
Use the **Device Security Settings** screen to set the desired levels of security. The following illustration and table describe how to use this screen.

**Figure 3-11  Device Security Settings** screen (1 of 2)

1. **Device Password**
   - Configure the Device Password using 16 or fewer characters:
     - Username: admin
     - Old Password: Not Configured
     - New Password: 
     - Verify Password: 

2. **F/A Password**
   - Configure the F/A Password using a number from 1 to 2147483647:
     - Old Password: Not Configured
     - New Password: 
     - Verify Password: 

3. **File System Password**
   - Configure the File System Password using 8 or fewer characters:
     - Old Password: Not Configured
     - New Password: 
     - Verify Password: 

4. **File System Access Settings**
   - Select to enable or disable file system access options below:
     - F/L Disk Access
     - SIMP Disk Access
     - NFS Disk Access
     - FS Disk Access

5. **Misc Printing**
   - Enable or disable wake-up printing from host USB devices:
     - Enabled
     - Disabled
Table 3-7  Configure Security Settings

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Device Password</strong></td>
<td>Use the Device Password section to set the EWS admin password using 16 or fewer characters. The section contains the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Old Password</strong>—The Old Password field is always visible. The correct password is required in this field before changing or disabling the password. If the device password is not configured, the Old Password field will display Not Configured in place of the text box.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>New Password</strong>—The New Password field is always visible. Enter a new password in this field to configure the password or to change the configured password (if the Old Password field is populated with the correct password). The password is no longer configured if settings are applied with the field left blank.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Verify Password</strong>—The Verify Password field is always visible. It requires users to repeat the password from the new password field in order to change the current password.</td>
</tr>
</tbody>
</table>
### Table 3-7 Configure Security Settings (continued)

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
</table>
| 2       | PJL Password           | Use the PJL Password section to configure the PJL password, which restricts access by jobs sent to the device. The password is a number from 1 to 2147483647. The section contains the following fields:  
  - **Old Password**—The Old Password field is always visible. The correct password is required in this field before changing or disabling the password. If the device password is not configured, the Old Password field will display Not Configured in place of the text box.  
  - **New Password**—The New Password field is always visible. Enter a new password in this field to configure the password or to change the configured password (if the Old Password field is populated with the correct password). The password is no longer configured if settings are applied with the field left blank.  
  - **Verify Password**—The Verify Password field is always visible. It requires users to repeat the password from the new password field in order to change the current password. |
| 3       | File System Password   | Use the File System Password section options for configuring the file system password using 8 or fewer characters. The file system password feature helps protect the device data storage system options from unauthorized access. With the file system password configured, the device requires the password before it will allow configurations to features that affect the data storage system. Some of these features are the File Erase mode, the Secure Storage Erase feature, and the File System Access options. The section contains the following fields:  
  - **Old Password**—The Old Password field is always visible. The correct password is required in this field before changing or disabling the password. If the device password is not configured, the Old Password field will display Not Configured in place of the text box.  
  - **New Password**—The New Password field is always visible. Enter a new password in this field to configure the password or to change the configured password (if the Old Password field is populated with the correct password). The password is no longer configured if settings are applied with the field left blank.  
  - **Verify Password**—The Verify Password field is always visible. It requires users to repeat the password from the new password field in order to change the current password. |
| 4       | File System Access Settings | Use the File System Access Settings section to enable or disable various types of disk access. The section contains the following check boxes:  
  - **PJL Disk Access**—check box field, if checked, PJL Disk Access is enabled  
  - **SNMP Disk Access**—checkbox field, if checked, SNMP Disk Access is enabled.  
  - **NFS Disk Access**—checkbox field, if checked, NFS Disk Access is enabled.  
  - **PS Disk Access**—checkbox field, if checked, PS (PostScript) Disk Access is enabled. Enabling PS Disk Access allows users to print PS-type files. |
| 5       | USB Printing           | Use this feature to enable or disable walk-up printing from Host USB devices.                                 |
6 **File Erase Mode**

Use the *File Erase Mode* section to select the disk erase mode. The File System Access password must be set in order to select a mode. The section contains the following:

- **Non-Secure Fast Erase**—radio button. Select this to put the device in Non-Secure File Erase mode. It is the fastest method that clears files by removing their identities.
- **Secure Fast Erase**—radio button. Select this to put the device in Secure Fast Erase Mode. It is a slightly slower method that clears files by writing over them with arbitrary characters.
- **Secure Sanitize Erase**—radio button. Select this to put the device in Secure Sanitize Erase Mode. It is the slowest method that clears files by writing over them three times.

7 **Control Panel Access Lock**

Use the *Control Panel Access Lock* section to select the control panel lock level. The section contains the following:

- **Unlock**—radio button. Select *Unlock* to turn off the control panel lock and allow users full access to the control panel menus (excluding the Service menu).
- **Minimum Menu Lock**—radio button. Select *Minimum Menu Lock* to set the control panel lock to the Minimum level. This option removes only system settings menus that affect the device on the network.
- **Moderate Menu Lock**—radio button. Select *Moderate Menu Lock* to set the control panel lock to the Moderate level. This option removes all settings menus other than those for specific jobs.
- **Intermediate Menu Lock**—radio button. Select *Intermediate Menu Lock* to set the control panel lock to the Intermediate level. This option removes the paper handling menu and all settings menus other than those for specific jobs.
- **Maximum Menu Lock**—radio button. Select *Maximum Menu Lock* to set the control panel lock to the Maximum level. This option removes all configuration settings menus.

Once the Control Panel Access Lock is configured, no one can access these settings on the control panel. The device does not provide a way for authorized use of these settings.

8 **Embedded Web Server Options**

Use the *Embedded Web Server Options* section to select which options are enabled/disabled on the EWS Webpage. The section contains the following:

- **Display Print Page on Information Tab**—check box. Check this box to enable the Print Page feature in EWS. The Print Page option allows users the convenience of printing via the EWS.
- **Display Color Usage Job Log Page on Information Tab**—check box. Check this box to display the Color Usage Job Log page on the Information tab. This is only available on color capable products.
- **Cancel Job Button**—check box. Check this box to enable the Cancel button on the EWS Web page. Disabling this option prevents users from tampering with cancel operations on the device.
- **Pause/Resume Button**—check box. Check this box to enable the Pause/Resume button on the EWS Web page. Disabling this option prevents users from tampering with pause/resume operations on the device.
- **Continue Button**—check box. Check this box to enable the Continue button on the EWS Web page. Disabling this option prevents users from tampering with continue operations on the device.
Use the Options for Services section to enable/disable selected device services that have a security impact. The section contains the following:

- **Remote Firmware Upgrade**—check box. Select Remote Firmware Upgrade to allow the device to accept RFU upgrades.

- **Service Loading**—check box. Select Service Loading to allow installation of 3rd party services. Many of these applications provide new functionality, such as job accounting.

- **Job Retention**—check box. Select Job Retention to allow print jobs to be stored on the device as stored jobs. This feature provides job retention options such as private job and hold job. Users will be able to ensure that they are present during printing to provide privacy for documents in the device output bins.

- **Job Held Timeout**—Selection field with the options of Never Delete, Held 1 Hr, Held 4 Hrs, Held 1 Day, and Held 1 Week. This option is only applicable if Job Retention is enabled. It limits a held job to the selected time, and then the device deletes it. You should select a reasonable timeout value for this setting to allow enough time for a user to walk to the device to print a job or to allow time for jobs to print in line at the queue.

Use the Direct Ports (USB/IEEE 1284) section to enable/disable the direct ports. When the ports are disabled, printing is only available through a network connection. The section contains the following:

- **Disable Direct Ports**—check box. Select Disable Direct Ports to disable the direct ports.

Click Apply to configure the new settings. The Security page opens showing the new status of the configurations. Click the Cancel button to cancel the settings that were entered.

A Service Password section will be visible if a user logs on as a service. The Service Password section contains an Old Password, New Password, and Verify Password field. The Service Password must be 16 characters or less.
Hard drive and mass storage security settings

The Hard Drive and Mass Storage Security Settings page contains detailed status for each of the drives installed, encryption status, and available configuration items.

Figure 3-13  Hard Drive and Mass Storage Security Settings screen

For each drive installed in the printer, a drive entry will be displayed within the Hard Drive Status section. Each drive entry will contain the following fields:

Table 3-8  Hard drive statuses

<table>
<thead>
<tr>
<th>Label</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Disk:</td>
<td>Internal, EIO &lt;slot&gt;, None Installed (encryptable), (Not encryptable)</td>
</tr>
<tr>
<td>Serial Number:</td>
<td>&lt;drive serial number&gt;, Not applicable</td>
</tr>
<tr>
<td>Drive Status:</td>
<td>Enabled, Disabled, Not applicable, Drive missing</td>
</tr>
<tr>
<td>Encryption Status:</td>
<td></td>
</tr>
<tr>
<td>Encrypted Disk Status</td>
<td>Value</td>
</tr>
<tr>
<td>SDLPC</td>
<td>Encrypted</td>
</tr>
<tr>
<td>SDUPN</td>
<td>Not encrypted</td>
</tr>
<tr>
<td>NDIPN</td>
<td>Not applicable</td>
</tr>
<tr>
<td>NSDPN</td>
<td>Not supported</td>
</tr>
<tr>
<td>SDLPW, NSDPP, SDUPP, NDIPP</td>
<td>Expected drive missing</td>
</tr>
<tr>
<td>SDLPN</td>
<td>Encrypted by another device</td>
</tr>
<tr>
<td>Any additional drive present, when an encrypted drive is present</td>
<td>Another encrypted drive present</td>
</tr>
</tbody>
</table>

The HP Secure Hard Drive Configuration section displays context sensitive drive configuration options:
Table 3-9  Hard drive configuration options

<table>
<thead>
<tr>
<th>Encrypted Disk State</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDIPN, NSDPN</td>
<td>Select automatic enable option</td>
</tr>
<tr>
<td>SDUPN</td>
<td>Enable Encryption (random or manual password)</td>
</tr>
<tr>
<td>SDLPC, SDLPN, SDLPW</td>
<td>Reinitialize Hard Drive</td>
</tr>
<tr>
<td>NSDPP, SDUPP, NDIPP</td>
<td>Disable encryption and continue</td>
</tr>
</tbody>
</table>

A printer will always be in one of a defined set of Encrypted Disk States based on drive configuration. Each of the Encrypted Disk States will correlate to a set of EWS text strings and configuration options.

Table 3-10  Encrypted disk states

<table>
<thead>
<tr>
<th>Encrypted Disk State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDIPN</td>
<td>No drive Installed, Drive Password not set.</td>
</tr>
<tr>
<td>NSDPN</td>
<td>Non-FDE installed, printer is not configured to use FDE functions.</td>
</tr>
<tr>
<td>SDUPN</td>
<td>FDE installed, however has not been configured to work in locked mode.</td>
</tr>
<tr>
<td>SDLPC</td>
<td>Locked FDE installed. Drive is functioning properly.</td>
</tr>
<tr>
<td>SDLPW</td>
<td>Locked FDE installed, however printer does not have correct password.</td>
</tr>
<tr>
<td>NSDPP</td>
<td>Non-FDE installed, however printer is expecting a locked FDE instead.</td>
</tr>
<tr>
<td>SDUPP</td>
<td>FDE installed, however it is locked to a different printer.</td>
</tr>
<tr>
<td>NDIPP</td>
<td>No Drive Installed, Drive Password set.</td>
</tr>
<tr>
<td>SDLPN</td>
<td>Locked FDE installed, however printer has not been configured to use FDE.</td>
</tr>
<tr>
<td>11</td>
<td>Drive Being Wiped</td>
</tr>
<tr>
<td>12</td>
<td>Non-HP FDE (for example, Seagate Momentus FDE without proper HP identifier).</td>
</tr>
<tr>
<td>13</td>
<td>Bricked Drive (truly non-functional)</td>
</tr>
<tr>
<td>14</td>
<td>Working USB Drive</td>
</tr>
<tr>
<td>15</td>
<td>Bricked USB Drive</td>
</tr>
<tr>
<td>16</td>
<td>Usable drive disabled due to existence of FDE drive.</td>
</tr>
</tbody>
</table>

The **Perform Secure Storage Erase** button erases the entire contents of the selected permanent storages.

⚠ **WARNING!** When you click **Perform Secure Storage Erase**, the device will restart, and all data and solutions installed on permanent storages you selected will be completely destroyed. Storage information that will be erased includes 3rd party applications, stored print jobs, hold jobs.
Secure Storage Erase enables users to replace the storage device without the possibility of anyone recovering data or applications that are on the storage devices. Use this function only to remove all stored data and applications on the storage device prior to removing it. Performing a Secure Storage Erase can take more than 2 hours, depending on the size of the media and the Secure File Erase Mode chosen. During this time the device is not accessible.

To use the Perform Secure Storage Erase function, select the storage devices, and click **Perform Secure Storage Erase**. The device will restart and remove the data. It will remove the data according to the secure file erase mode selected for the device (see [Device Security Settings](#) on page 35 for access to the Secure File Erase Mode). Performing a Secure Storage Erase with the File Erase Mode set to Secure Fast Erase (default) will take 30 minutes or longer; performing it with the File Erase Mode set to Secure Sanitize Erase will take 2 hours or longer.

⚠️ **WARNING!** The device will not be available for use until the Secure Storage Erase function is finished.

### Status of Security Settings

The **Status of Security Settings** section displays the current status of each of the security settings configurable on the [Device Security Settings](#) page.
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 EWS screens in the **Other Links** box beneath the left navigational bar. Four permanent links (**hp instant support**, **Shop for Supplies**, **Product Support**, and **Show Me How**) are already 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 more links; without the extra storage, you can add one more link.

**Figure 3-14  Edit Other Links** screen

**Table 3-11  Edit Other Links**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server on page 4</a>.</td>
</tr>
<tr>
<td>2</td>
<td>Add Link</td>
<td>Add a user-defined link.</td>
</tr>
<tr>
<td>3</td>
<td>User-defined Links</td>
<td>Lists the user-defined links. Use this area to delete links.</td>
</tr>
</tbody>
</table>
Table 3-11 Edit Other Links (continued)

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Other Links</td>
<td>hp instant support</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connect to Web resources that help you to solve specific problems and determine what other 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.)</td>
</tr>
<tr>
<td></td>
<td>Shop for Supplies</td>
<td>Connect to a Web page that facilitates online ordering of supplies from a reseller of your choice.</td>
</tr>
<tr>
<td></td>
<td>Product Support</td>
<td>Gain access to specific product help from the HP Web site.</td>
</tr>
<tr>
<td></td>
<td>My Service Provider</td>
<td>Connect to the home page of your service provider. This link displays only if the service provider has configured it.</td>
</tr>
<tr>
<td></td>
<td>My Service Contract</td>
<td>Connect to a page that shows the terms and limits of your service contract. This link displays only if the service provider has configured it.</td>
</tr>
</tbody>
</table>

Adding a link

Use this procedure to add a link.

1. Under Add Link, type the URL and the name of the link. The name you type displays in the HP EWS.
2. Click Add Link.

Removing a link

Use this procedure to remove a link.

1. Under User-defined Links, select the link or links to remove.
2. Click Remove Selected Link.
Device Information

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

**Figure 3-15 Device Information screen**

![Device Information screen](hp.png)

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

The information typed here displays on the **Device Information** screen that opens from the **Information** tab. The information also displays in e-mail messages sent from the product. This information is useful if necessary to find the product to replace supplies or fix a problem.
Use the **Language** screen to select the language in which the HP EWS screens appear. The following illustration and table describe how to use this screen.

**Figure 3-16 Language screen**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server</a> on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>View Pages in Browser Language</td>
<td>Use this feature to detect the language selected for your Web browser. The HP EWS screens appear in the same language. (this is the default)</td>
</tr>
<tr>
<td>3</td>
<td>View Pages in Printer Language</td>
<td>Use this feature to detect the language selected for the device control panel. The HP EWS screens appear in the same language.</td>
</tr>
<tr>
<td>4</td>
<td>Select a Language</td>
<td>Select the language for the HP EWS screens from the drop-down menu. <strong>NOTE:</strong> The EWS correctly displays only the supported Asian languages previously installed and configured on the OS</td>
</tr>
</tbody>
</table>

**CAUTION:** Selecting **View Pages in Device Language** or **Select a Language** changes the language for everyone who uses the HP EWS.

**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 EWS, English is selected as the default. If you make any changes on the **Language** screen, click **Apply** to save your changes.
Use the **Date & Time** screen to update the product time. The following illustration and table describe how to use this screen.

**Figure 3-17 Date & Time screen**

![Date & Time screen](image)

**Table 3-13 Date & Time**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server on page 4</a>.</td>
</tr>
<tr>
<td>2</td>
<td><strong>Current Date</strong> and <strong>Current Time</strong></td>
<td>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 or through this HP EWS page.</td>
</tr>
<tr>
<td>3</td>
<td><strong>Advanced</strong></td>
<td>Click this button to open a screen where you can edit advanced <strong>Date &amp; Time</strong> settings.</td>
</tr>
<tr>
<td>4</td>
<td><strong>NTS Settings</strong></td>
<td>Click this button to configure a network time server.</td>
</tr>
</tbody>
</table>
Use the **Date & Time–Advanced** screen to select the time zone (under **Time Zone**), Daylight Savings time settings (under **Daylight Savings Time Settings**), and formats you prefer for displaying the date (under **Date Format**) and time (under **Time Format**). The following illustration shows the **Date & Time–Advanced** screen.

**Figure 3-18 Date/Time Format screen**

![Date & Time Format screen](Image)
Date & Time–NTS Settings

Use the **Date & Time–NTS Settings** screen to synchronize the HP EWS with a network time server. The following illustration shows the screen.

**Figure 3-19 Date & Time–NTS Settings screen**

To configure a network time server to correct the product clock drift, use the following procedure.

**NOTE:** This process keeps the clock from drifting (losing or gaining time), but does not synchronize the clock with the network time server clock.

1. Type the network time server's TCP/IP address or host name in the **Network Time Server Address** field. This is the network time server the HP EWS uses for synchronization.

2. In the **Synchronize Time with Server every** field, type the interval you want the synchronization to occur.

3. In the **Local Port to Receive Time from Server** field, type the number of the appropriate port.

4. Click **OK** to save your settings.

5. Click **Synchronize Now** to synchronize immediately. If you do not click **Synchronize Now** the clock synchronizes at the next scheduled time.
Sleep Schedule

An IT administrator can use the **Sleep Schedule** screen to configure a wake time and a sleep time for each day. 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 sets only 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.

**Figure 3-20  Sleep Schedule screen**

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on the screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see <a href="#">Navigating through the HP Embedded Web Server on page 4</a>.</td>
</tr>
<tr>
<td>2</td>
<td>Wake Time</td>
<td>Select one or more days on which to use the wakeup setting, and then set the time the product turns on each day.</td>
</tr>
<tr>
<td>3</td>
<td>Sleep Time</td>
<td>Select one or more days on which to use the <strong>Sleep Time</strong> setting, and then set the time the product is set to sleep each day.</td>
</tr>
</tbody>
</table>
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 screens available from the Networking tab 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.

Figure 4-1  Network Settings screen

Table 4-1  Network Settings

<table>
<thead>
<tr>
<th>Callout</th>
<th>Area on screen</th>
<th>Information or capability that the area provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP EWS tabs and menus</td>
<td>For more information, see Navigating through the HP Embedded Web Server on page 4.</td>
</tr>
<tr>
<td>2</td>
<td>Select Language</td>
<td>Select the language for the Networking tab. The list of languages that are available in the Networking tab is not identical to the list of languages that are available in the Settings tab.</td>
</tr>
<tr>
<td>3</td>
<td>Help</td>
<td>Click ? for more information about the options on the Networking tab.</td>
</tr>
</tbody>
</table>
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 product settings and network configuration settings. This password synchronizes with the password that you set on the **General Security** screen under the **Settings** tab. Set or reset it from either screen.
- Configure the security of your product by using passwords, access lists, and management protocols
- View general network status information, including network statistics 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 EWS checks the network status

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

- **Help.** On each **Networking** screen, a `?` in the upper-right corner of the screen provides a description of the networking features. Also, from the **Help** screen you can gain access to more help from the HP Web site.

- **HP Jetdirect Administrator’s Guide.** This guide is normally available on the software CD that came with your product and can be downloaded from the hp.com support pages for your product available on the following Web sites.
5 Using the Other Links as a resource

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

**Figure 5-1 Other Links screen**

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. 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 44**.

The following sections describe each of the links that appear by default in the **Other Links** box.

**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 gathered from your product is transmitted securely 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 displays in the browser window and contains easy-to-follow text and visual aids. The **hp instant support** Web site also directs you to more services that are available for your product.
Before sending any of the product data to Hewlett-Packard for analysis, you can view the information (for example, the serial number, error conditions, and product status) forwarded. Hewlett-Packard treats this information as confidential.

**Information available 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 is listed on the **Event Log** Page. 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.

**Shop for Supplies**

The **Shop for 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 more 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. You can 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.
Show Me How

Clicking the **Show Me How** link connects to a Web page that provides step-by-step instructions for performing specific tasks. The following information is available:

- Clear jams
- Load trays
- Load special media
- Print both sides
- Supported paper
- More Help

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

My Service Provider and My Service Contract

The **My Service Provider** and the **My Service Contract** links appear only if created (and perhaps renamed) by the service provider in the **Other Links** screen on the **Settings** tab. Any user can click this link 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.
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