Technical white paper

HP Web Jetadmin— Supported Printer Features

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Overview

HP Web Jetadmin is a printer management solution capable of discovering many different printing device models from various vendors. After HP Web Jetadmin discovers a printing device, the additional functions that can be performed and the device details that can be viewed depend on several factors listed in this document.

Generic support

HP Web Jetadmin uses a variety of techniques in its queries to gather information from printing devices. How much information is displayed and what functionality is provided depends solely on the device's ability to answer the queries. HP Web Jetadmin always attempts to query a generic set of objects as defined in the common management information bases (MIBs), such as the Standard Printer MIB (RFC 1759), whether it is HP or third-party devices. Devices that cannot answer queries defined in common MIBs generally display very little information in HP Web Jetadmin, if they are discovered at all. For HP printing devices, HP Web Jetadmin has knowledge of proprietary HP MIB objects that can provide a much higher level of support. Earlier models of HP devices might not support many of the advanced features of HP Web Jetadmin.

Device plug-ins

Device plug-ins in HP Web Jetadmin define what is displayed for a particular device model. Features such as **Status** page information (screenshot below), alerts, firmware upgrades, configuration options, and columns are displayed as a result of a discreet device plug-in instructing HP Web Jetadmin that the items are available for each model. A bitmap image is hardcoded into each discreet plug-in to provide a matching picture of the device. Capabilities are hardcoded into the plug-in to define what are potentially installed on each device. When configuration templates are created through the configuration template wizard, each desired device model can be preselected so that HP Web Jetadmin only offers configuration items that pertain to each selected model. The discreet plug-in defines which configuration options are displayed for each model.
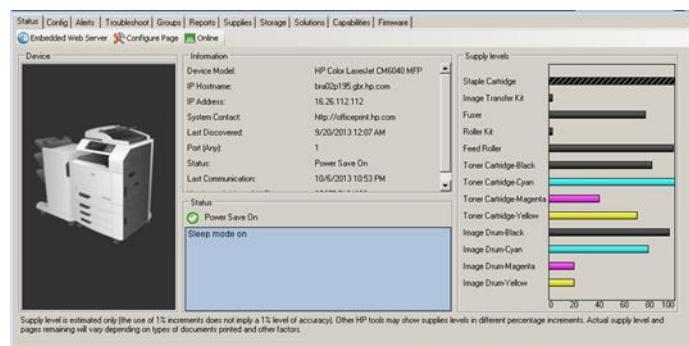
Discreet plug-ins are added to HP Web Jetadmin to coincide with the release of each printer to offer any new features the printer might introduce and to provide at least the same support experience as the previous model that the new model replaced. If an older version of HP Web Jetadmin is being used when a new printer releases, since the discreet plug-in is not included in HP Web Jetadmin yet, only very limited support is provided through a generic plug-in. HP Web Jetadmin must be upgraded in order to receive a full feature set for each new model.

Universal plug-ins

Starting in HP Web Jetadmin 10.3 SR4, a Universal Plug-in (UPI) was introduced to represent a class of devices, hoping to make it easier to create configuration templates by narrowing down the configuration items by class rather than by device.
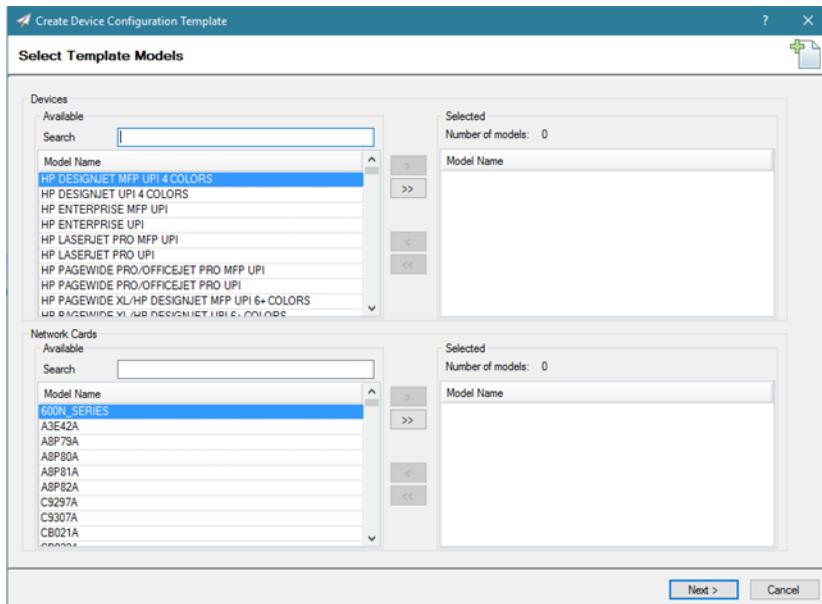
Advantages of the UPIs include:

- Standard qualified implementations result in less development and test time

- Easier to create configuration templates by device class

- The ability to support many devices without a discreet plug-in

- No need to upgrade HP Web Jetadmin to evaluate a new device for the same features as those that the device replaces

- The **Capabilities** tab now displays the options that are installed on each device versus the options the device is capable of having installed, improving the accuracy of installed options

Naturally, the UPI must be updated to add any new features that are added to specific models. Therefore, HP Web Jetadmin must still be upgraded in order to take advantage of new features introduced by devices.

Since one UPI now represents a class of devices, only one image can be defined in each UPI. Therefore, a generic image is used to represent each class of devices that will not necessarily exactly match the device image itself.

For a table of the UPIs and HP supported products that are available in the **Create Device Configuration Template** wizard, see the UPI tab in the HP Web Jetadmin - Supported Printer Features Table spreadsheet.

NOTE: The HP products that the UPIs support are not listed individually in the **Create Device Configuration Template** wizard.

Troubleshooting plug-ins

During device discoveries, HP Web Jetadmin attempts to determine the model name of a device. HP Web Jetadmin then maps the model name to the appropriate device plug-in (either discreet or UPI) to display a proper bitmap and offer the desired amount of configuration items. Typically the interrogation of the model name involves SNMP. However, for HP FutureSmart devices, HP Web Jetadmin might use Web Services (WS*). This means that **WS Discovery** must be enabled on HP FutureSmart devices in order for HP Web Jetadmin to use the appropriate device plug-ins.

If HP Web Jetadmin either fails to map a device to the correct plug-in or does not contain a matching plug-in (such as with discreet plug-ins), only very limited support is provided through a generic plug-in. For example, on an HP FutureSmart device, if HP Web Jetadmin fails to map it to the correct plug-in, only generic support that uses SNMP to interrogate the device is available. Since very few items are defined to use SNMP for HP FutureSmart devices in HP Web Jetadmin, very little information is provided.
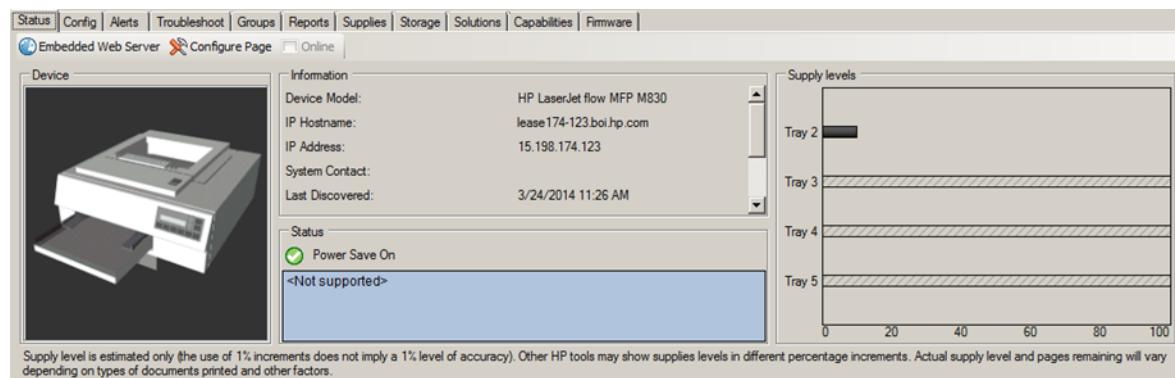

Notice that the device image is that of a very old HP LaserJet II model, the front panel display claims **<Not Supported>**, and only the **Tray** gauges are present because they are defined to use SNMP. The **Config** tab offers very few configuration categories. This is a sure sign of generic support. For some reason HP Web Jetadmin could not match the model name to the correct plug-in. This result might be credentials related or it might be a newer device and an older version of HP Web Jetadmin that does not have a discreet plug-in. In the case of UPIs, if the device was initially discovered with an older version of HP Web Jetadmin that did not have a UPI and HP Web Jetadmin was subsequently upgraded, the older plug-in is still being used.

When this scenario occurs, perform the following steps to attempt to force HP Web Jetadmin to use the correct device plug-in:

1. Right-click the device in the device list, and then select **Refresh Selection**.

2. Right-click the device in the device list, and then select **Refresh Selection (Full)**.

3. Right-click the device in the device list, and then select **Delete**. Right-click the device, and then select **Delete** again. Then rediscover the device.

4. Run a new full discovery from the navigation tree.

5. Make sure that WS Discovery is enabled using the device HP Embedded Web Server (EWS).

6. Make sure that HP Web Jetadmin has the proper credentials to read all pertinent information either for the device or in the global credential store.

Most of the time this is enough to force HP Web Jetadmin to assign the proper device plug-in to the device. In very rare cases, the device might need to be flashed again with firmware from a USB flash drive, especially if it was an early evaluation unit with suspect firmware.

In the case of HP FutureSmart devices where HP Web Jetadmin uses WS* to retrieve most of the information, an EWS password set on the device can drastically limit the information that HP Web Jetadmin can display because even retrieving information without proper credentials is blocked. For example, if after right-clicking the device and selecting **Refresh Selection (Full)**, the device displays a better bitmap but claims a status of **Credential Failure**, an EWS password is set on the device and HP Web Jetadmin does not know it.
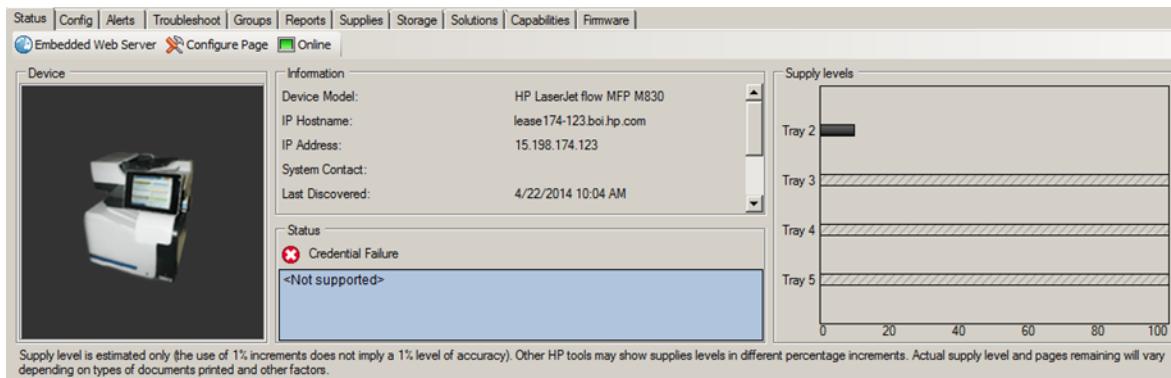
Notice that the front panel display still claims **<Not Supported>** and only the **Tray** gauges are present. In this scenario, right-click the device, and then select **Update Credentials**. If the EWS password is known, enter the user name and password and set it for the device. Highlight a different device, and then highlight the original device to see full support. HP Web Jetadmin stores the EWS password to be used for all subsequent attempts to read or write information to the device.

If the EWS password is unknown, it is still possible to read minimal information from the device using a **Guest** account, just as EWS does to display the **Information** tab when an EWS password is set. Follow the instructions above for entering the EWS password into HP Web Jetadmin, but enter "guest" as the user name and a blank password. HP Web Jetadmin should now have enough credentials to at least display the proper supplies gauges and front panel message.
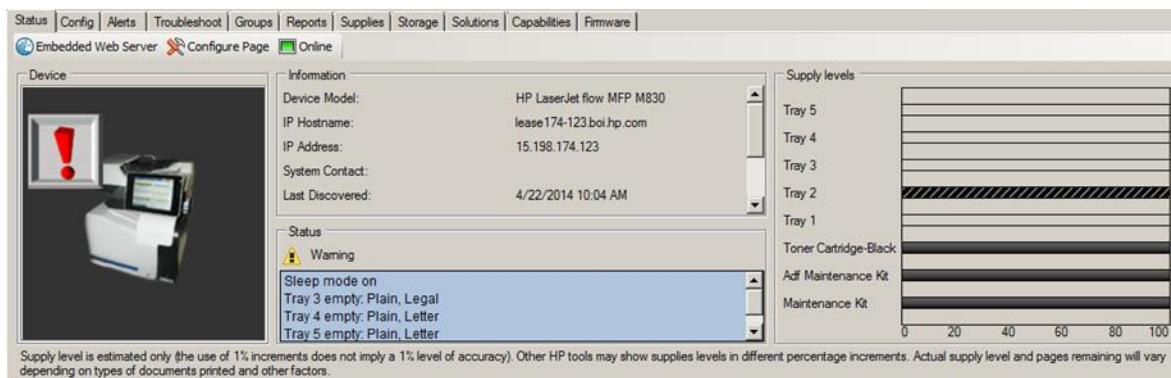
Of course, if you want to perform configurations, the EWS password must be entered into HP Web Jetadmin because the **Guest** account does not provide enough permission.

Device configuration

Many device settings can be viewed and configured through HP Web Jetadmin. Device configuration works differently depending on whether a single device or multiple devices are selected. If a single device is selected from the device list, the configuration items in the **Config** tab are shown with the current device settings.
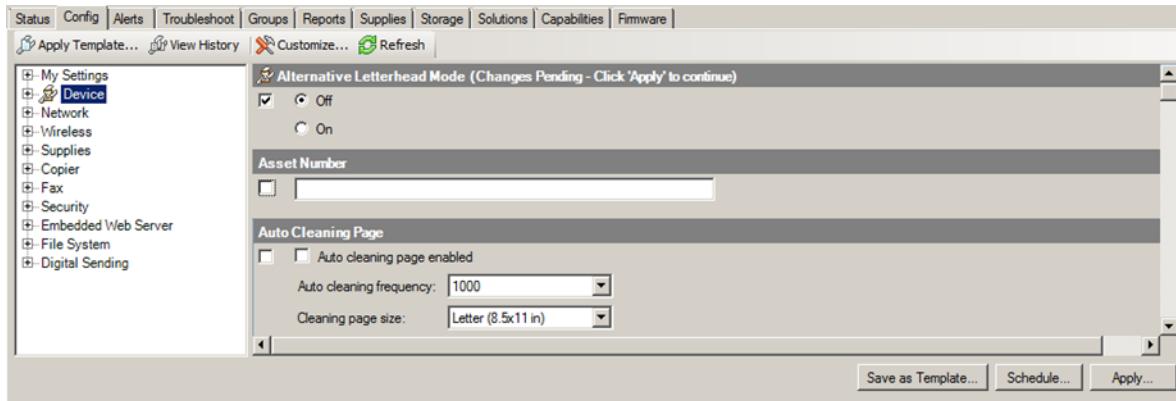
This allows for cloning a device's settings to be applied to multiple devices if desired. Right-clicking a check box provides the **Check All** option so that a device's complete settings can be saved to a template and later applied to multiple devices. There are a few settings, such as **IP Address**, that are not automatically selected in this case because they require a unique setting per device.

If multiple devices are selected in the device list, configuration items in the **Config** tab are shown with unspecified or blank settings.

Another technique for configuring multiple devices or creating configuration templates involves using the configuration template wizard from the navigation tree. To start the configuration wizard, right-click **Configuration** in the navigation tree, and select either **Configure Multiple Devices** or **Create Configuration Template**.
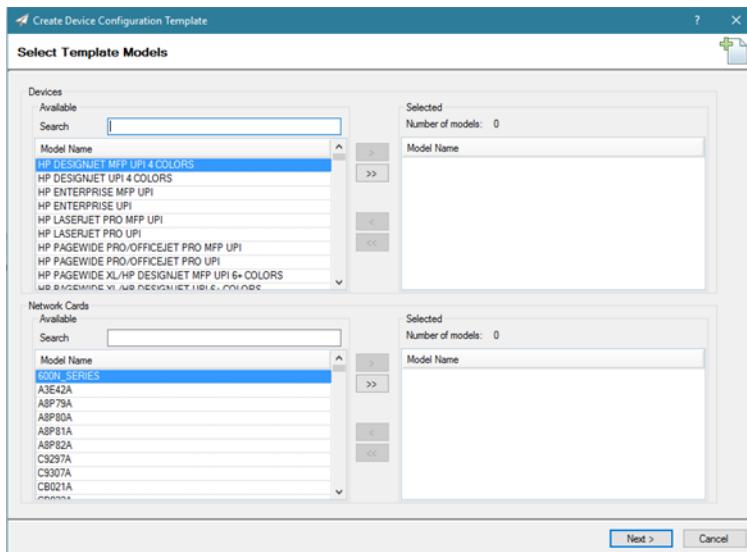
Two lists appear: **Devices** and **Network Cards**. They are separated because some network cards are modular and it cannot be assumed which one is in the printer. The list of configurable options varies depending on the devices selected. There is not nearly as much disparity with network cards. Most

network cards display the same options in the **Network** category. With multiple devices selected, a superset of items appear in each of the configuration categories. All configurable items probably do not apply to all devices. Only settings that apply to a device are set on that device. Some options might be repeated multiple times because different devices support different settings. If it is not clear to which device or device model a particular setting applies to, hold the cursor over the name of the configuration setting to display a tooltip with additional information.
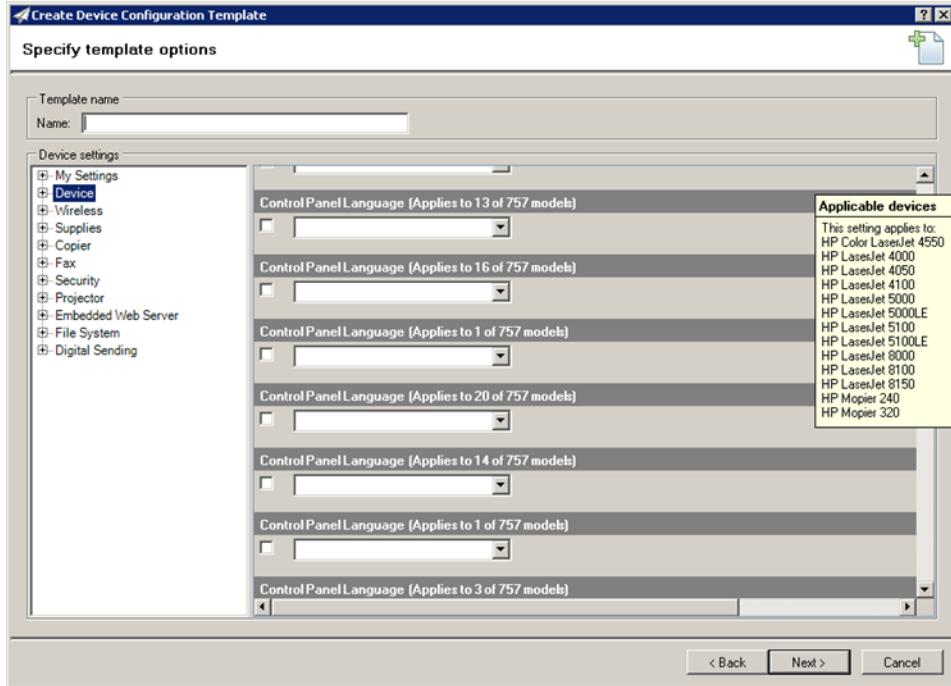
Availability of configuration options depends on the device model, network card, and firmware revision. One model of device might support a configuration option for the digital send functionality while another model, probably a single-function device, does not support that same configuration option. Again, in fleet scenarios, any configuration option that is set in HP Web Jetadmin is only applied to device models that support the option. Others fail and the results indicate successes and failures.

Since different device models support different values for some configuration items or they expose the values differently than other models, HP Web Jetadmin must offer the same configuration items multiple times (see above). Holding the cursor over an entry displays the models to which it applies.

After all the desired configuration items are selected, they can be applied to selected devices or saved in a template and applied at a later date.

Volatile configuration items

Some actions performed remotely on devices can cause the device to automatically power cycle or change in some other way that can impact the success of additional configurations. Consider the case where you attempt to configure several device parameters, including one parameter that causes the device to reset itself, which also causes HP Web Jetadmin to lose communication with the device for a time. Changing a device's IP parameters is a good example. The device (in many cases) re-initializes and stops communicating for a time.

HP Web Jetadmin has several configuration elements that are known to cause device interrupts and, therefore, cause a configuration to become volatile or unstable. These items are programmatically marked in such a way that HP Web Jetadmin always uses them last in a configuration. These configuration items are:

- **Security** > **LDAP - Accessing the Server**

- **Digital Sending** > **Activity Log**

- **Fax** > **Fax Reports and Logs** (print or clear activity log)

- **Security** > **Disable Direct Ports**

- **Network** > **Protocol Stacks**

- **Network** > **IPv4 Information**, which includes **Subnet Mask** and **Gateway** (both single and batch configurations)

- **Wireless** > **802.11 a/b/g**

- **Network** > **Link Setting**

- **File System** > **File System Password**

- **Security** > **Get Community Name**

- **Security** > **Set Community Name**

- **Security** > **SNMP Version Access Control**

In any configuration, whether it is performed for a single device, for multiple devices, or with a configuration template, these settings are always sent to the device last to improve the chance of successful configurations. The following considerations should be made with these settings:

- The chances of a configuration failure increase when these settings are used in the same configuration.

- HP Web Jetadmin only marks these items to run last. HP Web Jetadmin does not put these items in any order relative to the other items listed here.

- Device behaviors, while sometimes predictable, are not fully documented with these known configuration items.

Import a configuration file

Some configuration items might have a unique value per device and, therefore, cannot be set through batch configuration or a template for a fleet. A Comma Separated Values (CSV) file can be created and imported into HP Web Jetadmin for the purpose of configuring these unique configuration items on devices. This provides a way to configure a fleet of devices with unique parameters that would otherwise have to be configured one device at a time. CSV files can easily be created by exporting data from a spreadsheet or word processing program.

Here is an example of a device configuration scenario:

- 30 devices exist: 16.24.1.26-16.24.1.56

- Asset number assignments are required: Abc10040-Abc10070

- Assignments are made respective to the IP address sequence

A file can be created to represent the configuration desired. Here is a quick look at an example file:

IP Addr	Port	Asset Number
16.24.1.26	1	Abc10040
16.24.1.27	1	Abc10041
16.24.1.27	1	Abc10041
16.24.1.28	1	Abc10042
16.24.1.29	1	Abc10043
16.24.1.30	1	Abc10044

NOTE: The first column is always the device identification, which can be an IP address, MAC address, or IP hostname. The second column is always the port. For HP devices, the port is 1, unless a device is attached to a multiport print server. For third-party devices, the port must be <Not supported>, which is case-sensitive. If you specify anything else for third-party devices, the import fails.

After the file is created and stored to disk on the client desktop, the user can import the file contents into HP Web Jetadmin using **Configure Devices**, **Import from file**.
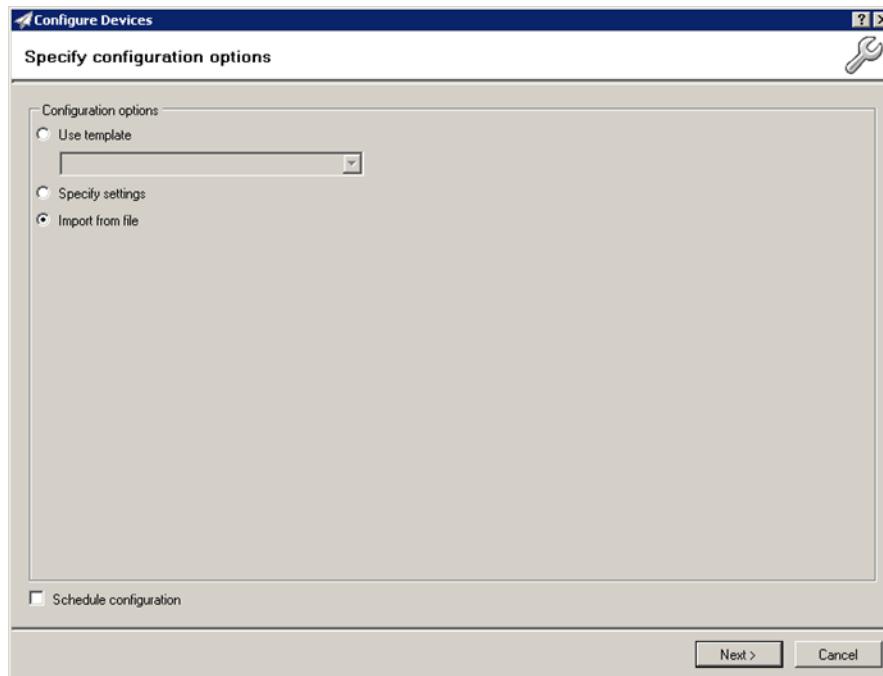
The CSV file contains header text for each device property to be configured. After the user browses and uploads the file, a **Map Headers** control appears. The customer-specific header text can be matched with the corresponding device property.

The first two columns are used to identify the devices to be configured. These devices must have already been discovered in HP Web Jetadmin prior to importing the file or they will not be configured.

Column Headers for Columns 1 through 3 for a CSV File
Column 1: Device Identifier (either IP address, hardware address (MAC address), or IP hostname)
Column 2: Port (always just "Port")
Column 3+: selected by the user
Importable Device Settings for Columns 3+ for a CSV File
Access Control List
Asset Number
Company Name
Default Copier Copies
Default Printer Copiess
Device Location
Device Name
Get Community Name
Job Timeout
Set Community Name
System Contact
System Location
System Name
TCP Idle Timeout
Any user-defined settings that are specified by using the **Tools** > **Options** > **Device Management** > **Configuration** > **User Defined** option.

After the mapping is configured, HP Web Jetadmin displays the data headers and device status. Devices that were previously discovered and successfully matched are shown in the list. Any devices in the file that were not successfully matched are counted as "Unresolved devices".

Only the settings listed above can be imported from a file. If a setting contains a comma, quotes must be used around that particular setting. For example, the following line can be used to set values of "Chicago, IL, USA" and "Building 5, Floor 3":

```
16.24.1.26,1,"Chicago, IL, USA","Building 5, Floor 3"
```

XML Ticket Pusher (XTP)

The goal of HP Web Jetadmin is to provide fleet configuration for items found in a device EWS page to eliminate having to browse to the EWS for each device one-by-one to configure items. Occasionally there are items present in the EWS that are not yet available in HP Web Jetadmin for fleet configuration. Fortunately, the XML Ticket Pusher (XTP) feature can be added to HP Web Jetadmin to apply XML tickets for missing EWS features on devices. An optional license must be installed in HP Web Jetadmin to expose the XTP feature for security reasons. Contact HP Support in order to obtain the license and XML tickets that have been created to date. XTP appears at the bottom of the **Device** configuration category after a license is installed. Tickets can be uploaded to an XML ticket repository and applied to a fleet of devices in one step.
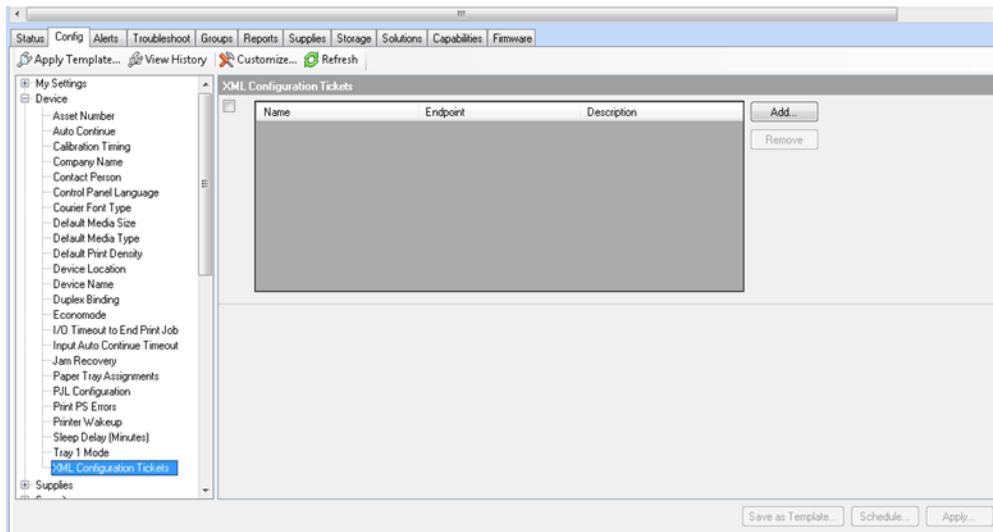
Definitions table

This table contains definitions for most of the configuration items HP Web Jetadmin supports. Some items are specific to a network card instead of a printer (for example set community name). Since it is unknown which NIC resides in a printer in many cases, those items are not included in the Features table

The list includes most HP device models that support functionality beyond just generic support. If a particular printer or MFP is not included in the list, it is likely that either a device plug-in does not exist for the device or the device is too old to support extensive functionality.

To find out whether a device model supports a configuration item that is not included in the table, select the **Config** tab while viewing an individual device. HP Web Jetadmin displays only the supported configuration items for that device model. Another technique is to start the device configuration wizard from the navigation tree and select just the desired model.

NOTE: If the UPI that represents a particular device model is unknown, select the **Config** tab when selecting the model, select the check box for a configuration item, and then try to save as a template. The UPI name is already selected in the device configuration wizard that appears.

Some of the more popular columns, such as supplies gauges and page counters, are also included in this table for each model. A percentage (%) symbol indicates that a remaining percentage level is visible while an "OK" indicates that only a status appears (such as OK) and no remaining percentage level.

Device

Alternative Letterhead Mode	This option defines the first side of the duplex page as having letterhead and the other side having no letterhead.
Anonymous Usage Information Transmission	Use this option to enable or disable the transmission of anonymous information about the printer to HP. This applies to HP PageWide Pro and HP OfficeJet Pro devices.
Asset Number	The **Asset Number** identifies the device based on the accounting system for your organization.
Auto Cleaning Page	This option enables and disables the automatic cleaning page. You can specify how often you want to print the automatic cleaning page.
Auto Continue	When the device displays a non-critical error message, this option allows the device to resume operation after ten seconds. Select **Off** to require the user to acknowledge non-critical error messages by pressing Continue on the device before it resumes operation.
Auto Recovery	Use this option to enable or disable the **Auto Recovery** feature on the device. If this option is enabled and an unrecoverable error occurs in the device firmware, the device automatically turns off and turns back on to recover from the error.
Auto Sense Mode	Use this option to optimize device settings for certain media types that can be detected automatically by the printer. Sensing options might include: • **Full Sensing**: For each sheet of paper that is picked up from the tray, the product detects light paper, plain paper, heavy paper, glossy paper, tough paper, and transparencies. • **Expanded Sensing**: For the first few sheets of paper that is picked up from the tray, the product detects light paper, plain paper, heavy paper, glossy paper, tough paper, and transparencies. The product assumes the rest of the pages are of the same type. • **Transparency Only**: The product distinguishes between transparencies and non-transparencies.
AutoSend	This option enables the product to periodically send configuration and supplies usage information to a recipient list. If you have a relationship with HP that provides you services such as proactive cartridge replacement, pay per page contracts, support agreements, or usage tracking, enable the **Send to HP** feature.
AutoStore	**AutoStore** is an automated document and content capture solution for HP MFP devices. The **AutoStore** product consists of a server-based application, **AutoStore Server**, and an installable embedded web server application, **AutoStore ChaiService**. The AutoStore ChaiService contacts the AutoStore Server on a regular basis to determine whether there is a new set of AutoStore menus to download and display on the front panel of a device. To do this, it must be configured with the AutoStore Server information. You can also configure how frequently the AutoStore ChaiService contacts the AutoStore Server.
Browser	Use this option to configure specific settings for the web browser on the device (for example, enabling OXPd 1.6 support). The web browser settings that can be configured include connection timeout, response timeout, and a list of trusted sites.
CA Certificates	Devices use certificate authority (CA) certificates, which are also called public keys, to browse to external websites. For example, devices might require a CA certificate to enable OXPd 1.6 support. If there are no CA certificates in the device's certificate store, the device uses the HP Jetdirect CA certificate if one is available.
Calibration Timing	Use this option to control when calibrations are performed. You can set the timer (in hours) to turn on or off calibration.
Cartridge Low Action	Use this option to specify how the printer responds when a toner-low condition exists. Set the printer to continue normal operations or set it to stop printing.
Cartridge Out Action	Use this option to specify how the printer responds when a toner-out condition exists. Set the printer to continue normal operations or set it to stop printing.
Use Clearable Warnings	Use this option to determine whether a warning is cleared on the control panel or when another job is sent.
Cold Reset Media Size	This option returns or sets the media size that is used as the **Default Media Size** when a cold reset occurs. Different countries/regions require different default media sizes. The factory uses this option to select the default media size.
Color Control Setting	Use this option to control the color settings. This applies to HP PageWide Pro and HP OfficeJet Pro devices.
Color Supply Out	Use this option to specify how the device responds when one of the color toner cartridges is empty. You can choose to set the device to continue printing with black toner (for a certain number of pages) or set it to stop printing altogether.

Color/Black Mix	This option optimizes the performance or cost per page depending on the expected color content of typical print jobs. This feature allows you to set device behavior for printing mostly color or mostly black (monochrome) print jobs.
Company Name	Use this option to specify the name of the organization that owns or is responsible for the device.
Contact Person	Use this option to specify the name of the person who should be contacted if there are any problems with the device or if you need support.
Control Panel Display	Use this option to make specific items appear on the control panel display of the device. The items include IP Address, Hostname, Serial Number, Asset Number, Device Name, System Location, System Contact, Device Location, and a short text string that the user can define.
Control Panel Language	Use this option to specify the language that is displayed on the device control panel.
Courier Font Type	Use this option to choose whether the regular courier font or a dark font is used. This setting does not affect fax or copy jobs, but does apply to the internal reports that contain a Courier font. The regular TrueType Courier font prints somewhat lighter than the bitmap fonts for the same.
Date/Time Format	Use this option to specify the format for dates and times as displayed on the device.
Date and Time	Use this option to remotely specify the date and time for a device or group of devices.
Daylight Savings Time	Use this option to specify the date range for daylight saving time (summer time), which should match the daylight saving time schedule for the location of the device.
Default Input Paper Tray	Use this option to specify which tray the device should draw paper from first as a default (upper paper tray or lower paper tray).
Default Media Size	Use this option to specify the default media size. Any media size that users select when printing a job overrides the default setting.
Default Media Type	This option specifies the default media type. The drop-down list contains all the media types that the device supports. This option is useful if the device is typically used to print on specific media. For example, if the device is dedicated to the human resources department and they typically print on three-hole punched paper, set the default media type to "Prepunched".
Default Print Density	Use this option to select the default density for print jobs, which affects all pages printed on the device (host print jobs, received faxes, copies, and internal reports).
Default Printer Copies	Use this option to specify the default number of copies that are printed for each print job if not specified in the job.
Delay Calibration at Wake/Power On	Use this option to control the timing of the calibration when the printer wakes up or is turned on.
Device Certificates	Use this option to configure the SSL trusted CA certificates (public keys) used for web browsing from the device to external web sites (for example, enabling OXPd 1.6 support). You can add, delete, and view device certificates. If there are no device certificates in the device's certificate store, the device uses the HP Jetdirect CA certificate, if any.
Device Location	This option identifies the device based on its location.
Device Name	This option identifies the device based on its name.
Device Volumes	This group of options selects the volumes of certain sounds emitted by the device.
Dust Detection	Use this feature to receive notifications when the device detects dust on the document feeder scan assembly. Dust can reduce scan quality.
Duplex Binding	This option instructs the device to print on both sides of paper when the print job does not specify a preference.
Duplex Blank Pages	Use this option to optimize the duplex printing performance, by sending the last page of an odd-numbered print job through the regular print path instead of the duplexer.
Duplex Impressions	This option forces a device to count impressions instead of sheets. Impressions are used to improve accuracy for billing by color or mono pages printed. This option also includes an **Opt in** agreement to make the user aware that once enabled, this setting cannot be disabled.
Dust Detection	Use this feature to receive notifications when the product detects dust on the document feeder scan assembly. Dust can reduce scan quality.
Economode	This option instructs devices to use Economode (toner saving) by default for jobs that do not specify an Economode value.
Enable Retrieve/Print from USB	Use this option to enable or disable the ability to print documents from a USB flash device.
Energy Settings	Use this option to change Sleep and Shutdown settings after inactivity.

Fuser Modes	Use this option to specify the fuser temperature mode for all the media types that the device supports. You can associate a different fuser temperature mode with each media type. If your environment experiences variable humidity conditions, changing the fuser temperature mode can maximize the print quality.
FutureSmart Level	Each version of the HP FutureSmart firmware can include multiple levels of functionality. HP Web Jetadmin displays the range of firmware levels that are available in the HP FutureSmart firmware that is installed on the device.
High Capacity Output Mode	Use this option to specify which high-capacity output accessory the device directs output to. Directing output to various high-capacity output accessories can help reduce how much time you spend going to the device and removing output from full bins.
Home Screen Applications – FutureSmart 3	Use this option to specify which applications are displayed on the device control panel for devices that have FutureSmart 3 or earlier. Specify the order in which the applications are displayed, and move applications into and out of the Quick Sets folder.

Third-party applications might be included in the list of applications. However, other tools might control whether these applications are displayed or hidden on the device control panel. The Quick Sets folder appears in the main list of applications. Only one Quick Sets folder is allowed.

Quick Sets applications can reside in the main list of applications or in the Quick Sets folder. Applications in the Quick Sets folder are displayed immediately after the folder, and the application names are indented. You can move applications in the Quick Sets folder up or down in the list or move them out of the folder into the main application list. However, you can only move Quick Sets applications from the main application list into the Quick Sets folder. |
Home Screen Applications – FutureSmart 4	Use this option to specify which applications are displayed on the device control panel for devices that have at least FutureSmart 4, devices with older firmware should be configured with the **Home Screen Applications - FutureSmart 3** option. With the **Home Screen Applications - FutureSmart 4** option, you specify the tree order in which the applications are displayed, specify the page on which the applications are displayed, and move applications into and out of the Quick Sets folder. The first page in HP Web Jetadmin is the default screen on the device. The second page in HP Web Jetadmin can be seen on the device after scrolling to the next/second page.
Home Screen Customization (PageWide Pro)	Use this option to configure the device control panel on HP PageWide Pro and HP OfficeJet Pro devices.
Home Screen Language Selection	Use this configuration option to show or hide the language **Selection** button on the device. You can also select up to four alternate languages and keyboard layout languages.
Home Screen Wallpaper Customization	Use this option to add or remove a wallpaper to the background.
I/O Timeout to End Print Job	Use this option to select the amount of time the device should wait between packets of data on a print job before canceling that job, between 15 seconds and 5 minutes.
Inactivity Timeout	Use this option to specify the number of seconds that the device can remain inactive before automatically reverting to the Home screen. This timeout setting applies only when a user accesses a screen other than the Home screen, and then no further action occurs on that screen for the specified number of seconds.
Input Auto Continue	Use this option to specify the default action that the device takes when the specified media size or type is not available. You can also specify how long the device waits before performing the default action.
Input Auto Continue Timeout	Use this option to specify how long the device waits before performing the default action when the specified media size or type is not available.
Instant Lamp On	Enable this option to keep the scanner lamp warm when the scanner is turned on. Disabling this option saves energy when the scanner is not in use, but the scanner lamp turns off after a period of inactivity and must warm up before scanning again.
Invalid Personality Reports	Use this option to determine whether invalid personality reports are enabled or disabled for a product.
Jam Recovery	Use this option to select the default device reprint behavior after a paper jam is cleared on a fax receive, copy, or print job. The settings include:

- **Disabled**: The device never reprints a page after clearing a paper jam.

- **Enabled**: The device always reprints a page after clearing a paper jam

- **Auto**: The device reprints a page after clearing a paper jam, if the installed memory is greater than 7 MB. |
| Key Press Sound | Use this option to specify whether or not the printer emits a sound when a key is pressed in its control panel. |

Keyboard Layout	Use this feature to set the keyboard layout on your device's control panel to your language.
Manually Feed Prompt	Use this feature to specify whether Manual Feed Prompt is always displayed or only displayed if the tray is not loaded. If you select **Always** (default), the system always generates a prompt before pulling from the multipurpose tray. If you select **Unless loaded**, the system generates the prompt only if the multipurpose tray is empty or if it is configured for a different type or size.
Media Type Administration	Use this option to enable or disable the media types that the device uses. You can also define your own media types.
Online Solutions	The Online Solutions feature provides access to cloud-based solution pages for device events, such as paper jams. When the Online Solutions feature is enabled on a device, the following options are available for device events: • QR codes can be displayed on the device control panel. • Web links can be displayed in the Event Log in the device HP Embedded Web Server (EWS). When a user scans a QR code with a smartphone or tablet or clicks a web link in the Event Log, the device sends information to the HP Solution Finding Web Service. The HP Solution Finding Web Service identifies the most relevant, up-to-date information or video available for the device event, and then returns the solution to the user.
Optimum Speed/Cost	This option optimizes the performance or cost per page depending on the expected color content of typical print jobs. You can choose whether print quality is more important or whether speed of the print job is more important.
Optimum Speed/Energy Usage	Use this option to configure the optimum speed or energy usage for the device. This setting controls the fuser cooling behavior on the device.
Order Supplies % Level	Use this option to configure the low threshold for supplies.
Original Orientation	Use this option to specify the default orientation of the information on the printed page. This is useful if the device is typically used to print with a specific orientation. For example, if the device is dedicated to the accounting department and those users typically print spreadsheets with many columns, set the default orientation to **Landscape** to show as many columns as possible on one page.
Outgoing Servers	Use this option to manage the SMTP email servers on a device that is used to send outgoing emails.
Output Auto Continue	Use this option to control the behavior of the device if a print job is submitted that specifies a paper tray and/or paper size that does not match the current device configuration. This allows the device to resolve conflicts between the print job specification and the device configuration.
Override A4/Letter	Use this option to print on letter-size paper when an A4 job is sent but A4-size paper is not loaded in the device, or to print on A4 paper when a letter-size job is sent but no letter-size paper is loaded.
OXPd Accessory Records	Use this option to add, delete, and list the OXPd accessory records on the device. Accessory records are either shared or owned. A shared accessory record describes an accessory that multiple web applications can use and contains a product ID, vendor ID, and serial number. An owned accessory record describes an accessory that only a single web application can use and contains the same fields as a shared accessory record as well as a callback URI, server context ID, optional network credential, connection timeout, and response timeout.
OXPd Authentication Agents	OXPd authentication agent files contain the information that OXPd-enabled devices require to contact OXPd authentication servers and authenticate users who are signing in on the device. Use this option to manage the OXPd authentication agents that are stored on the device.
OXPd Authorization Proxy Configuration	OXPd authorization proxy files contain the information that OXPd-enabled devices require to access OXPd authorization agents from third-party solutions. Use this option to manage the OXPd authorization proxy that is stored on the device.
OXPd Device Functions	Use this option to add, delete, and list the OXPd device functions for a third-party device. An OXPd device function definition consists of a title list, description list, icon list, guide, requested button position, and browser target. The browser target consists of a URI, optional credentials, and optional initial post query form.
OXPd Enabled	Use this option to enable OXPd.
OXPd OPS Config Settings	Some devices have a limited amount of internal storage. For these devices, you can store OXPd services data on an external OXPd Pro Server (OPS) instead of the device's internal storage. The OXPd-enabled firmware in the device does not store OXPd services data. Before you can perform any OXPd services operations on the device, you must use this option to configure the OXPd Pro Server.
OXPd Quota Agents	A quota solution, such as Pcounter for HP, is installed on a server and used to specify the amount of various device resources that each user is allowed to use. These device resources include the number of sheets of paper printed, the amount of toner used, and so on.

OXPd Statistics Agents	Devices collect statistics about each job that they process. The job statistics include the device ID, job ID, user who initiated the job, and details about the job. A statistics agent is a server-based solution that receives job statistics from devices. When a job is completed, the device sends the job statistics to the statistics agent. The statistics agent sends an acknowledgement to the device when the job statistics are received.
Paper Tray Assignments	Use this option to assign media sizes and types to input trays. You can also see how much media is in each tray.
PCL Form Length	Use this option to set the PCL form length on the device. You can specify 5 to 128 lines of text per page. The device uses the PCL form length to set the spacing between lines. When the paper size is changed, the device automatically recalculates the form length based on the Vertical Motion Index (VMI).
PJL Configuration	Use this option to configure the ability to print PJL files.
Power On Calibration	Use this option to help determine when a power on calibration occurs. • **On**: Calibration occurs immediately following boot. • **Off**: Calibration never occurs. • **Delayed**: Calibration never occurs; for the delay interval. Setting this option to Delayed controls when a calibration occurs in relation to a power on event.
Print PDF Errors	Use this option to choose to have a PDF error page print, which shows the error encountered and the stack at the time of the error.
Print PS Errors	Use this option to choose to have a PostScript error page print, which shows the error encountered and the stack at the time of the error.
Printer Wakeup	Use this option to specify the time of day for the device to automatically start warming up. This option is useful if you always print a job at a specific time of day and you do not want to wait for the device to warm up. For example, if you always print a job at 9:00 AM, use this option to have the device start warming up at 8:45 AM.
PS Defer Media	If the device uses non-HP PostScript drivers instead of HP drivers to print jobs, use this option to enable or disable the HP paper-handling model. Non-HP PostScript drivers do not recognize all the tray configurations and either print from a non-specified tray or do not print at all. The HP paper-handling model always prints jobs. If the **Enabled** option is selected, non-HP PostScript drivers use the HP tray-selection method. This is the default. If the **Disabled** option is selected, non-HP PostScript drivers use the non-HP PostScript tray-selection method.
Quick Sets	Quick Sets are shortcut jobs that can be accessed on the main Home page or in the Quick Sets application on the device control panel. Jobs can be set to start immediately upon selection, require an image preview before completion, or use other helpful options to assist users in completing their jobs quickly and reliably. Quick Sets are saved as a unique job and do not impact the defaults set for the device.
Quick Sets (FP)	Use this option to configure Quick Sets on HP PageWide Pro and HP OfficeJet Pro devices.
Quiet Mode	This option provides a quieter printing experience by slowing the printer down for office printing or increasing the speed to the full speed for large jobs. You can select the value as **On**, **Off**, or **Auto Transition**. **Auto Transition** specifies a predetermined job size of 10 to 999 pages, and print jobs print in Quiet Mode for all print jobs up to the user's predetermined page size. Jobs that have pages above the predetermined size print at the full speed.
Replace Supplies	Use this option to specify the behavior of the device when a supply reaches "Low" or "Out", including whether the device should stop, or prompt the user for the option to Override at Out through the device's control panel. HP Web Jetadmin only shows this option if it is the current setting.
Resolution	Use this option to select the default resolution for print jobs that do not specify a resolution. This option can be useful for saving toner on draft print jobs or any print job without a specified resolution.
Resolution Enhancement	This option turns Resolution Enhancement Technology (REt) on and off. REt sharpens the printing resolution, but slows down printing. If the resolution selected is above 1200 dpi, REt is not used, regardless of this setting.
Restore Modes	Use this option to restore all fuser modes to their default or factory settings.
Rotate Offset	Use this to enable or disable **Rotate Offset**, which allows you to print multiple copies of a job in alternate orientations.
Show Date and Time	Use this option to enable the printer to hide or display the date and time on the device control panel.
Show Network Address	Use this option to enable the printer to display the **IP Address** or **Network Address** button on its control panel (which button is displayed depends on the device). Enabling this feature makes it easier to see the device's IP address.

Show Stop Button	Use this option to enable or disable the **Show Stop Button** in the control panel.
Show Welcome Message	Use this option to specify a welcome message that is displayed on the device control panel. Users must read the welcome message, and then touch the **OK** button to continue.
Size / Type Prompt	Use this option to specify whether the control panel displays the message "To change size or type press check on the control panel" when a paper tray is opened and closed. In either case, HP Web Jetadmin displays a "Tray empty" message on the device's Status page.
Sleep / Wake Time	This option specifies the time of day that you want the printer to automatically start waking (or warming) up and also sleeping. You can save energy when the device is not in use for the time specified in Sleep delay. After Sleep delay is applied, Sleep mode is automatically enabled. It might take some time for the device to return to a Ready state after it is in Sleep mode. Wake time can only be set if the Sleep delay time is set. Setting a Wake time is useful to make sure that the device is ready at a certain time and not in Sleep mode. For example, to make sure the device 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 device before it re-enters Sleep Mode. Wake time can only be set if the Sleep delay time is enabled. Some devices also support Sleep time. Use Sleep time to ensure the device enters Power save mode at the specified time, such as the end of the work day. Sleep time can only be set if you have enabled Sleep delay.
Sleep Delay (Minutes)	Use this option to specify the number of minutes the device must be idle before it automatically enters Sleep Mode. This option is useful for reducing the average power consumption when the device is not used often.
Sleep Delay Time	Use this option, also referred to as **Power Save**, to specify how long the printer can be idle before automatically powering off. **Sleep Delay** mode reduces the printer average power consumption after it has been idle for a specific length of time. This is useful if the printer is not used often.
Sleep Mode	Use this option to specify how the printer goes into sleep mode, and then how it warms up again.
Sleep Schedule	Use this option to specify the time of day you want the device to automatically wake up (or warm up) and enter sleep mode. The wake up time ensures that the device is ready at a specific time each day. The sleep time ensures that the device enters its energy-saving sleep mode when it is not in use, such as in the evenings or on the weekend. You can specify a different sleep schedule for each day of the week. You can also add, edit, and delete sleep schedules for holidays.
Sleep Timer Settings	Use this option to configure the **Sleep Mode/Auto Off** feature on the device. When this feature is enabled, the device automatically enters Sleep mode or Auto Off mode after a specified period of inactivity and then wakes up when the specified events occur. To enable the Sleep Mode/Auto Off feature, select the **Enable Sleep Mode/Auto Off Timer** check box. Enter the number of minutes the device waits with no activity before entering Sleep mode in the **Sleep Mode/Auto off after** field. Valid values are 1 through 120. To specify which events wake up the device, select one of the following options: • **All events**: The device wakes up when any event occurs. • **Network port**: The device wakes up only when a network port event occurs. • **Power button only**: The device wakes up only when the power button on the device is pressed. To disable the Sleep Mode/Auto Off feature, clear the Enable Sleep Mode/Auto Off Timer checkbox
Stand by Fuser Mode	Use this option to set the temperature for a Fuser Mode when it is in standby mode. Turning this off means using less energy, but warm up time for a print job takes longer.
Stapler Offset Mode	If an HP 3-bin Stapler/Stacker accessory is installed on the device, use this option to specify whether each print job is offset in the output bin. Offsetting the print jobs makes it easier to separate multiple print jobs.
Staples Out Override	Use this option to specify the default action that the printer takes when the output bin is full or when the stapler runs out of staples.
Status Page Language	Use this option to specify the device personality (PCL, PostScript, Text, or HP-GL2) that the HP Jetdirect print server uses when it sends a status page to the device. You might need to change the status page language to accommodate a particular printing device. For example, a PostScript printer might not be able to understand the default PCL print page that an HP Jetdirect print server sends.
Stored Jobs (Delete Temporary Jobs After)	Use this option to specify how long the device holds a print job that has not printed before automatically deleting the print job.
Stored Jobs (Allow on this device)	Use this option to enable and disable the job retention feature. The job retention feature is available on some printers that have mass storage capability. This allows you to store print jobs in the flash memory on a printer. You can then call the print job from the printer control panel as needed. You can also store secure private copies to hold a print job until a user releases it by entering a personal identification number.

Stored Jobs (Sort/List Order)	Use this option to specify the sort order of the stored print jobs on the device. You can sort stored print jobs by the date or the job name.
Stored Jobs (Temporary Storage Limit)	Use this option to specify how many jobs can be stored on the device hard disk at the same time.
System Setup Ram Disk	Use this option to turn off RAM Disk functionality or to set it to automatic. If **Auto**, a RAM disk is created and the size is determined by the printer as a percentage of the amount of installed memory.
Time Zone	Use this option to specify what time zone the device is in, given in hours ahead of or behind Greenwich Mean Time (GMT).
Time Zone/Daylight Saving	Use this option to specify the Greenwich Mean Time (GMT) by indicating which time zone the device is located in and whether the clock on the device is automatically adjusted for daylight saving time. You can also use this option to set the real time clock to the local time on the device. The device uses the real time clock to adjust the weekly timer mode, wake up at a particular time, enable time stamps on email alerts, and record internal event times. This feature provides the maximum flexibility for time configuration and management. When used with the local time on the device, the **Time zone settings** and **Daylight saving settings** options help indicate the GMT time. You can also use this option to specify the date range for daylight saving time, which should match the daylight saving time schedule for the location of the device.
Tray 1 Mode/Manual Feed	Use this option to specify: • **Cassette**: Lets the device prioritize by paper size first. • **First**: Instructs the device to always try to use paper from that tray, regardless of the media type or size specified.
Tray Administration	Use this option to assign media sizes and types to input trays.
Tray Setup Media Type	Use this option to select the default paper type to be selected for each tray.
Use Another Tray	Use this feature to set the device to use another tray if necessary. If you select **Enabled** (default), the printer prompts users to use another tray when the selected tray is unavailable. If you select **Disabled**, the printer does not prompt the user.
Use Requested Tray	Use this feature to specify how the device handles jobs with a specific input tray. To have the device use another tray when necessary, select **Enabled**. To not direct the device to use another tray when necessary, select **Disabled**. You must then provide paper through the same tray. Select **Exclusively** (default) to make sure that the printer does not automatically select another tray when you indicate that a specific tray should be used. Select **First** to allow the printer to pull from a second tray if the specified tray is empty or contains a different media type or size.

Wireless

802.11 b/g/n	Use this option to configure the wireless network configuration parameters for an IEEE 802.11 wireless Ethernet connection.
Enable Wireless Direct	Use this option to enable or disable the HP Wireless direct printing feature on the device. This feature provides the ability to print from a wireless mobile device directly to an HP Wireless direct-enabled printer without requiring a connection to a network or the Internet.
Enable Wireless Station	Use this option to enable or disable the wireless station settings.
Radio State	Use this option to enable or disable the Wireless Radio feature. If the device is in wired mode, you can configure the Wireless Radio state. If the device is in wireless station mode or access point mode, you cannot configure the Wireless Radio state.
Wi-Fi Direct	HP Wi-Fi Direct printing provides the ability to print from a mobile device, such as a smartphone or notebook computer, directly to a printer without connecting to a Wi-Fi network. The mobile device must be within range of the printer.
Wireless Direct	Use this option to configure the settings that are used to connect the mobile device to the printer.
Wireless Station (802.11)	Use this option to configure the wireless network configuration parameters for an IEEE 802.11 wireless Ethernet connection.

Supplies

Cartridge Low Action - Black	Use this option to specify the action that the device takes when the supply reaches a low condition.
Cartridge Policy	Use this option to specify that only genuine HP cartridges can be installed and used in this device.
Cartridge Protection	Use this option to configure the cartridge protection mode.

Cartridge Threshold-Black/Cyan/Magenta/Yellow	Use one or more of these options to specify the supply level threshold to reach before displaying a message indicating that the supply is low.
Cartridge Very Low Action-Black/Color	Use one or more of these options to specify the action for the device to take when a supply reaches a very low condition. To set each option, select: • **Stop** to stop the current print job. • **Prompt to Continue** to allow the user to decide whether or not to finish printing. • **Continue** to complete the current print job.
Delay Very Low Message	Use this option to specify a threshold for the number of pages that the device prints after a supply reaches a very low status before the device displays a notification message. The threshold can be configured based on the usage history for each supply.
Document Feeder Kit Very Low Action	Use one or more of these options to specify the action for the device to take when a supply reaches a very low condition. To set each option, select: • **Stop** to stop the current print job. • **Prompt to Continue** to allow the user to decide whether or not to finish printing. • **Continue** to complete the current print job.
Drum Threshold-Black/Cyan/Magenta/Yellow	Use one or more of these options to specify the supply level threshold to reach before displaying a message indicating that the supply is low.
Estimated Supplies Levels	By default, HP Web Jetadmin displays the estimated supplies levels in 10% increments. For some devices, you can choose to display the estimated supplies levels in 1% increments instead of 10% increments. However, displaying the estimated supplies levels in 1% increments does not imply a 1% level of accuracy. The accuracy of the actual supplies levels and pages remaining varies depending on the types of documents printed and other factors.
Fuser Kit Threshold	Use one or more of these options to specify the supply level threshold to reach before displaying a message indicating that the supply is low.
Fuser Kit Very Low Action	Use one or more of these options to specify the action for the device to take when a supply reaches a very low condition. To set each option, select: • **Stop** to stop the current print job. • **Prompt to Continue** to allow the user to decide whether or not to finish printing. • **Continue** to complete the current print job.
Level Gauge	Use this option to control whether or not the supply levels gauge is displayed on the control panel for single-function devices.
Maintenance Kit Threshold	Use one or more of these options to specify the supply level threshold to reach before displaying a message indicating that the supply is low.
Maintenance Kit Very Low Action	Use the following configuration options to specify the action that the device takes when the supply reaches a very low condition:
Supply Low Alerts	Use this option to enable or disable the supply low alerts. If this option is enabled, the device triggers an alert when the supply is very low.
Toner Collection Unit Very Full Action	Use the following configuration options to specify the action that the device takes when the supply reaches a very low condition:
Transfer Kit Very Low Action	Use one or more of these options to specify the action for the device to take when a supply reaches a very low condition. To set each option, select: • **Stop** to stop the current print job. • **Prompt to Continue** to allow the user to decide whether or not to finish printing. • **Continue** to complete the current print job.
Transfer Kit Threshold	Use one or more of these options to specify the supply level threshold to reach before displaying a message indicating that the supply is low.

Copier

Auto Include Margins	Use this option to specify whether content close to the edges on an original scanned document is automatically included on the copy.
Color Copy Mode	Use this option to set the device to the desired copy mode.
Color Copy Mode With Auto	Use this option to set the device to the desired copy mode.
Color Copy Option	Use this option to disable color copying and control the cost of color printing.
Copier Fit To Page	This option enables the device with local copier capability to fit the input image size automatically onto the output sheet size. Use this option to scale to the output size without knowing the scaling percentage.
Copier Reduce/Enlarge	Use this option to specify reduction or enlargement for copies as a percentage of the original. A value of 100 makes copies with no reduction or enlargement; higher values make enlargements, while lower values cause a reduction. Reductions or enlargements are useful when the paper size of the copy is different from the size of the source document. Some useful values for copying from one size to another would be: Legal to letter (78% Letter to A4 (97%) A4 to letter (103% Legal to A4 (83%)
Copy - Alternative Letterhead Mode	When printing using duplex mode, this option defines the first side of the page as having letterhead and the other side having no letterhead.
Copy Background Cleanup	Use this option to set the default amount of background to be removed from the original document being scanned. For example, if a higher value is set then more of the background is removed from the original.
Copy Content Orientation	Use this option to specify the default orientation for the scan job and binding format of the original document and the print job. If the setting is: • **Book-Style**: The original document has book-style (long edge) binding and the printed document has book-style binding. • **Book-style original; Flip-style Copy**: The original document has book-style (long-edge) binding and the printed document has flip-style binding. • **Flip-style**: The original document has flip-style (short edge) binding and the printed document has flip-style binding. • **Flip-style original; Book-style Copy**: The original document has flip-style binding and the printed document has book-style binding.
Copy Contrast (was Default Original Density)	Use this option to specify the default contrast (brightness) that the device uses to make copies. The device can make copies that are lighter or darker than the original. To take advantage of the one-touch copying feature, change the default contrast to the value that users typically select when making copies.
Copy Darkness	Use this option to specify the default amount of exposure that is applied to the scanned document. For example, a lower setting causes the printed output to be lightened; a higher setting causes the printed output to be darkened.
Copy Fold	Use this feature to fold sheets of paper in half or into thirds. Folding is supported only for Letter-sized and A4-sized paper.
Copy Heavy Originals	Use this option to specify the weight of the original scanned documents. When heavy paper is used, the device adjusts the tension and moves the paper through the scanning area at a slower rate. For paper that weighs more than 100 g/m^2, the quality of the output might improve if you select the **Heavy** option. To specify the weight of the original scanned documents, select the **Normal** or **Heavy** option.
Copy Job Auto Interrupt	This option allows the device to interrupt an active network print job to print a new copy job initiated at the device control panel. With this feature enabled, users do not have to wait for large, multi-copy network print jobs to finish printing before they can print a new copy job.
Copy Job Build	Use this option to enable by default combining multiple scanned jobs into a single printed document. If this option is enabled, multiple scan jobs are combined into one print job and no other network print jobs interrupt the copy. If it is disabled, the scan jobs remain separate scan jobs.
Copy Job Scan Ahead	When this option is enabled, a user can walk up to the device and initiate a copy job while the device is printing a network print job. The device scans and holds the copy job, but first finishes printing the network print job before printing the copy job. When this option is disabled and a user initiates a copy job while the device is printing a network print job, the device waits until it finishes printing the network print job to start scanning the copy job. The device displays a message on the control panel saying that the copy job is blocked and will be processed as soon as the current job finishes printing. The user can choose to cancel the copy job or leave the originals in the automatic document feeder (ADF) or on the scanner glass.

Copy Manage Booklet	Use this option to copy two or more pages onto one sheet of paper so you can fold the sheets in the center to form a booklet. The product arranges the pages so that when multiple sheets are folded together, the pages are in the correct order.
Copy Optimize Text/Picture	Use this option to optimize the quality of copy output based on the content of typical copy jobs. You can choose to optimize for text, photographs, printed pictures, or a mix of text and pictures.
Copy Output Bin	Use this option to specify the default output bin for copies. The output bins that you can select depend on the output device connected to the device. If you want to take advantage of the one-touch copying feature, change the default output bin to where users typically send printed copies. This eliminates the need for users to specify the output bin at the control panel each time they make copies.
Copy Pages Per Sheet	Use this option to specify the default number of pages to print on one physical piece of paper and how those pages are ordered on the paper.
Copy Paper Tray Selection	Use this option to specify the default input paper tray the device should use for a copy job.
Copy Reduce/Enlarge	Use this option to specify the default reduction and enlargement configurable settings for scanned jobs.
Copy Sharpness	Use this option to specify the default amount of sharpness to be applied to the original document being scanned. A higher value produces sharper copies.
Copy Stamps	Use this option to change custom Copy Stamps or use the predefined Copy Stamps text. Select up to six preset positions for a stamp and configure the content that is printed there.
Copy Stamps (Custom)	Use these options to change the Custom Copy Stamps text or use the predefined Copy Stamps text.
Copy Stamps (Enforced)	Use this option to use the features of both Copy Stamps and Copy Stamps (Custom).
Copy Staple/Hole Punch	Use this option to specify the default staple placement for copy jobs. This setting is only available if a stapler is attached to the device.
Copy Watermark	User this option to change the Watermark text.
Copy Watermark (Custom)	Use these options to change the Custom Watermark text or to use the predefined Watermark text.
Default Copier Copies	Use this option to select the default number of copies for each copy job initiated from the control panel.
Default Copy Collation	Use this option to specify the collation behavior. Since collation consumes additional resources on the device, turning this feature off can sometimes allow the device to complete jobs that otherwise might fail to complete.
Default Edge-to-Edge Setting	Use this option to specify whether copies are printed as close to the edge of the page as possible or printed with the normal unprinted border.
Default Image Quality	Use this option to select the default copy quality. Choose a high quality for maximum performance, or choose a lower setting for more economic operation when the best performance is not needed.
Default Number of Copies	Use this option to specify the default number of copies that are printed for each copy job. If you want to take advantage of the one-touch copying feature, change the default to the number of copies that users typically print. This eliminates the need for users to specify the number of copies at the control panel each time they make copies.
Default Number of Sides	Use this option to specify if one side or both sides of the original are copied.
Default Original Content	Use this option to specify the default content of the original (**Text**, **Graphics**, or **Mixed**). If you want to take advantage of the one-touch copying feature and users typically copy originals that have only graphics or only text, change the default to the appropriate type. This eliminates the need for users to specify the page content at the control panel each time they make copies.
Default Original Media Size	Use this option to specify the default output media size of copied documents. The paper sensors override the default, but if they cannot detect the size of the original, the device uses the default. If you want to take advantage of the one-touch copying feature, change the default copy media size to the size of the originals that users typically copy. This eliminates the need for users to specify the media size at the control panel each time they make copies.
First Copy Speed	Use this option to let the device handle the speed for the first copy. If you do not use the copying functionality frequently, you can take advantage of enabling the fast first copy feature.
Hold Off Print Jobs During Copy	This feature prevents network print jobs from starting within a specified time after the device finishes printing a copy job. This is useful if you want to give walk-up copying priority over network print jobs. HP Web Jetadmin does not start printing any network print jobs as long as a user is interacting with the control panel. In addition, the device waits for the amount of time specified by the **Hold Off Time** option after a copy job finishes before starting any network print jobs.
Hold Off Time	Use this option to specify the default amount of time that network print jobs must wait before starting to print if the **Hold Off Print Jobs During Copy** option is enabled. This features is useful if you want to give walk-up copying priority over network print jobs. HP Web Jetadmin does not start printing any network print jobs as long as a user is interacting with the control panel.

Interrupt Copy Jobs	Use this feature to interrupt an active copy job between complete sets to print a new copy job. If you enable the copy job interrupt feature, users do not have to wait for large copy jobs to finish printing before they can print a new copy job.
Paper Path	Use this option to configure the paper path.
Reset Copy Timeout	Use this option to specify the default amount of time that HP Web Jetadmin waits after any control panel activity before it resets the copy settings to their defaults. You should set the value to provide users with enough time to set up and complete their copying tasks before the product resets their copy settings.

Network

NOTE: The options in the Network category depend on the NIC.

Bonjour Service Name (mDNS Service Name)	Use this option to configure a user-friendly service name for a device that is running in a Bonjour (mDNS) environment. The service name is configured on the HP Jetdirect card. You can use this service name to easily find the device in the device lists.
Configuration Preference	Use this option to configure the precedence that the device uses when setting several configuration parameters (for example, hostname) by using different configuration methods. The order in which the configuration methods are listed determines which configuration method has precedence over another method for duplicate configuration parameter values. For example, a DHCP hostname overwrites a TFTP hostname if DHCP/BOOTP has precedence over TFTP.
Desired USB Mode	Use this option to specify the protocol that the USB uses to interface with this device. HP Jetdirect normally uses the best protocol that the device supports. If a more complex interface does not work with the HP Jetdirect print server, change this option to a simpler interface. If you select **Automatic**, the HP Jetdirect print server uses the best protocol available. If you select **Unidirectional**, the HP Jetdirect print server uses the forward-data only protocol (USB class 7.1.1). If you select **Bidirectional**, the HP Jetdirect print server uses the simple forward and reverse data protocol (USB class 7.1.2). If you select **Multiple Logical Channels (MLC)**, the HP Jetdirect print server uses the HP-MLC protocol (USB class 7.1.2+).
DHCP User Class Option (Tag 77)	Use this option to determine the manufacturer, type, model, and serial number of the device.
DHCPv4 FQDN compliance with RFC 4702	The Dynamic Host Configuration Protocol for IPv4 (DHCPv4) provides a mechanism for host configuration that includes dynamically assigning IP addresses and fully qualified domain names (FQDNs). Use this option to enable or disable DHCPv4 FQDN compliance with RFC 4702.
DNS Server	If your network uses Domain Name System (DNS) services, use this option to specify the IP address of a primary DNS server for specified devices. If a secondary DNS server is available on your network and can be configured on the device, you can also specify the IP address of the secondary DNS server, which is used when the primary DNS server is not available. Use **Domain Name** to specify a Domain Name for this device. A domain is a set of one or more IP addresses, and the Domain Name identifies the domain in which the device resides (for example, support.hp.com). A Domain Name typically consists of a series of labels separated by the dot (.) character, ending with a predefined suffix to identify its top-level domain. For example, the top-level domain .com is used for commercial businesses, .edu for educational institutions, and .org for nonprofit organizations.
Error Handling	This option specifies how the HP Jetdirect EX print server handles error conditions. The print log provides information that you can use to troubleshoot printer problems and recover from errors.
Google Cloud Print	Google Cloud Print allows customers to print webpages, emails, photos, and content from applications that have integrated Google Cloud Print. Customers simply add the unique email address of their HP ePrint-enabled product to their Google account, which provides the ability to print easily and securely from any Google Cloud Print-enabled app, product, or service on any computer or smartphone to the selected HP ePrinter.
HP Connection Inspector	Use this option to enable or disable HP Connection Inspector. NOTE: Needs to be configured via Security Manager.
HTTP Idle Timeout	Use this option to configure the amount of time (in seconds) that an HTTP connection to the device remains open when there is no traffic, such as when a print job stops sending data to the device.
IPP Printer Install Wizard	Use this option to specify the URL for the IPP Printer Install Wizard link for this device. When you access this link, an Install Wizard runs that lets you create a print path between your computer and this device.
IPv4 Information	Network devices use an IP address to communicate with another network device and the subnet mask to determine the network and host portions of the IP address.
IPv6 Information	You can enable or disable an IPv6-capable device to use the IPv6 protocol. IPv6 must be enabled to access other IPv6-capable devices through an IPv6 network.

IPX - Ethernet Frame Type	Use this option to specify the Ethernet frame types that the HP Jetdirect print server uses on the network. If you select **Auto**, the HP Jetdirect print server tries all of the frame types until it finds the one that works. If you know that you are only going to use one frame type, selecting that frame type reduces network traffic.
IPX - Frame Type Token Ring	Use this option to specify which encapsulation type for IPX to use for a token ring LAN or it can be set to let the device automatically decide which is best to use. IPX protocol is supported by the Novell NetWare network operating system.
IPX - Queue Server Job Polling Interval	Use this option to specify the number of seconds between polling the queue server for jobs. The Novell NetWare network operating system supports the IPX protocol.
IPX - RCFG Support Enabled	Use this option to enable or disable Remote configuration protocol (RCFG), sometimes called RCONFIG. HP developed RCFG for remote configuration and management of devices on an IPX/SPX network— typically a Novell NetWare network. By factory default, RCFG is enabled. HP Web Jetadmin might use RCFG to configure Novell NetWare queue-server linkages on older HP Jetdirect print servers. However, RCFG does not support encrypted communications or authentication, and is not secure. If RCFG is not required for device configuration and management, it should be disabled. Disabling RCFG does not affect the use of IPX/SPX Direct-Mode (peer-to-peer) printing.
IPX - SAP Broadcast Interval	Use this option to specify how often the HP Jetdirect print server sends out a Service Advertising Protocol (SAP) broadcast. By default, the HP Jetdirect print server sends out a SAP broadcast every 60 seconds to advertise itself on the network and make Novell print servers aware of its presence. SAP broadcasts are necessary for the print server services to be located in some Novell NetWare environments. If you have many HP Jetdirect print servers on your network, SAP broadcasts can cause network traffic. To reduce this impact, increase the IPX SAP broadcast interval. You might want to disable HP Jetdirect SAP broadcasts on Novell networks that use Novell Distributed Print Services (NDPS) or on other networks that do not require them.
IPX - Source Routing	Use this option to specify how the device handles source routing or allow the device to automatically choose. The Novell NetWare network operating system supports the IPX protocol.
IPX Name	Use this option to change the name of a printer that is running in an IPX/SPX environment. The printer name is changed on the HP Jetdirect card.
Jetdirect External Print Server	Use this feature to restart the print server remotely. The external print server might not be close or be conveniently positioned for access.
Job Timeout	This value represents (in seconds) the maximum time of inactivity that must elapse before the print server card switches from the current network protocol to another when a normal end of a print job is not detected. For external HP Jetdirect print servers, allowable values are 0 and from 30 to 3,600 seconds. For internal HP Jetdirect print servers, allowable values are 0 and from 30 to 127 seconds.
Link Setting	Use this option to specify the link speed (10 or 100 Mbps) and the communication mode (full- or half-duplex) that the device should use when connecting to your 10/100Base-TX network each time it is powered on. To communicate on your network, the device link speed and communication mode must match the operation of your network. If the device setting is **Auto**, the device attempts to auto-negotiate its link settings with the network each time it is powered on. If the device successfully links to the network, you can then use this feature to specify the link speed on the device. When the device is powered on again, the configured setting will be used. However, if the device fails to link using Auto, the link settings on the device default to 100 Mbps and half-duplex mode. Communications with the device over the network might, or might not, be possible. The link setting options are: Auto-Link settings are automatically negotiate, 10TXFULL-10 Mbps, full-duplex operation, 10TXHALF-10 Mbps, half-duplex operation100TXFULL-100 Mbps, full-duplex operation, 100TXHALF-100 Mbps, half-duplex operation.
Locally Administered Address	Locally administered addresses are only supported in Token Ring HP Jetdirect print servers. The network device manufacturer originally sets the media access control (MAC) address in the device read-only memory. You can change the MAC address for most Token Ring network devices. Use this option to specify the MAC address on the Token Ring HP Jetdirect print server. Some Token Ring environments use the Locally Administered Address feature. While it is not a requirement that you change the MAC address, the Locally Administered Address feature might be implemented in some Token Ring environments. Some administrators find it easier to manage devices if the MAC address for all of the devices of the same type start with specific characters. For example, starting all HP devices with 003.
Mgmt Protocols	Use this option to enable and disable the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols that the device uses to provide communication security and encryption over the Internet.
Network Enable Features	Use this option to enable or disable various network configuration tools, printing methods, and other features that the device supports. Because each device supports different features, the configurable items available for a specific device vary.

Network Enable Features – More Settings	The AirPrint-FaxOut feature is used to send faxes from an iPad, iPhone, iPod touch, or Macintosh computer to an AirPrint-enabled printer. The AirPrint Scan (eSCL/WebScan) feature is used to send scanned documents from an AirPrint-enabled printer to an iPad, iPhone, iPod touch, or Macintosh computer. The AirPrint Secure Scan (Secure eSCL/WebScan) feature is used to send scanned documents securely from an AirPrint-enabled printer to an iPad, iPhone, iPod touch, or Macintosh computer. Use this option to enable or disable the AirPrint-FaxOut, AirPrint Scan (eSCL/WebScan), and AirPrint Secure Scan (Secure eSCL/WebScan) features on the device. Before these features can be enabled, first enable the Air Print option on the Network Enable Features configuration option.
Parallel Handshake	Use this option to specify the parallel mode that the HP Jetdirect EX print server uses. If the specified mode does not work, the HP Jetdirect print server tries other modes until it finds one that does work. The default option tells the HP Jetdirect print server to select whichever mode is the fastest. If you know which parallel mode is the fastest, select it; otherwise, leave this option set to the default.
Parallel Mode	This option specifies the parallel mode that the HP Jetdirect EX print server uses. If the specified mode does not work, the HP Jetdirect print server tries other modes until it finds one that does work. The default option tells the HP Jetdirect print server to select whichever mode is the fastest. If you know which parallel mode is the fastest, select it; otherwise, leave this option set to the default.
Phone Home Privacy Setting	Use this feature to control whether HP can collect statistical data on product use. By allowing HP to collect this information, improved product features and services can be provided in the future. HP does not collect network-specific or personal data. For information about HP privacy policies, read the HP Online Privacy Statement available by clicking privacy statement at http://www.hp.com in your language. For HP to collect any information, Internet access must be available.
Protocol Stacks	Use this option to enable or disable the various protocol stacks on the HP Jetdirect print server. Many networks only use a few protocols. For example, the AppleTalk and DLC protocols are enabled by default on HP Jetdirect print servers, but many networks do not use them. Although leaving unused protocols active does not harm the network, you might gain the following benefits if you disable them:
Scan Idle Timeout	Use this option to specify how long the device waits before closing an idle connection and going to the next print job. If your network is busy, there might be a delay in the packet transmissions. In this case, you might want to specify a longer timeout value.
SNMP Trap Destination Table	HP Web Jetadmin runs a background trap-server utility that is used to receive HP Jetdirect traps and alerts, and can route alert notifications to email addresses. However, some networks might require that specific network servers and management applications receive SNMP traps. Use this feature to specify different trap-management servers along with the use of special trap community names and supported SNMP agents. Specified trap servers are stored in a Trap Destination Table on the print server. The number of trap servers that can be configured (typically 3, 5, 10, or 12) depends on the print server model. A trap server is specified by its IP address and/or its Fully Qualified Domain Name (FQDN), and a TCP/IP port number used by a management application on the server (a trap server port number). If a port number is not specified, the default port 162 is used. The print server can be configured to use a standard SNMPv1 or SNMPv2c agent, or an optional SNMPv2c Inform agent that requires an acknowledgement from the trap server. The agent selected remains configured when the print server is powered off and on. The default agent is SNMPv1. A trap community name can be specified for the SNMP agent to use when sending traps. By default, the trap community name is "public". If the Trap Destination Table is empty, traps are not sent unless enabled through HP Web Jetadmin running its background trap-server utility. Because trap objects (or pre-defined events) are encoded in each device, the available traps depend on the particular HP Jetdirect print server model and its current firmware version.
Support Contact	Use this option to specify the name of the person that users can contact for device support.
Support Phone Number	Use this option to specify the phone number of the person defined for the **Support Contact** configuration option.
System Contact	The system contact is the name of the person who owns or is responsible for the device. HP Web Jetadmin 10.2 displays the system contact on the device **Status** page and on several of the device lists. The system contact is useful when you need to dispatch repair personnel, have questions about device settings or usage, or need to report a problem with a device. You can also search for and display a list of all of the devices that a particular person is responsible for.
System Location	This option identifies the system based on its location.
System Log Server Info	Use this option to specify the IP address of the server where you want the HP Jetdirect print server to send system log messages. System log messages identify, for example, when the HP Jetdirect print server was turned on or when a printer problem occurred.

System Log Server Info – More Settings	Use this option to configure the settings that the HP Jetdirect print server uses to send system log messages to a Syslog server. System log message identify events that occur on the printer, such as when the HP Jetdirect print server is turned on or when a problem occurs. If the printer has received Common Criteria Certification (CCC), advanced security logging events are available. If CCC logging is enabled, the HP Jetdirect print server also sends the CCC log messages to the Syslog server.
System Name	Use this option to specify the system name, sometimes called the host name, for the HP Jetdirect print server. The system name is a static name that is saved on the HP Jetdirect print server. Use the system name to identify and track devices on the network. You can also include the system name as a column in device list views. Under some conditions, the system name is visible on the network or the IP name can be resolved through network name services. This typically occurs in a DHCP environment.
TCP Idle Timeout	Use this option to specify how long TCP/IP stays open when there is no traffic. If the network is busy, there might be a delay in the packet transmissions. In this case, you might want to specify a longer timeout value.
TCP/IP Configuration Method	Use this option to specify how the HP Jetdirect print server obtains its TCP/IP configuration. This is a quick method for resetting the IP stack on the HP Jetdirect print server, forcing it to try to obtain an IP configuration through BOOTP or DHCP.
TCP/IP Domain Suffix	Use this option to add domain suffixes to the **DNS suffixes** list, which is a list of domain names for the printer. The **DNS suffixes** list might contain up to 31 entries. Each suffix can have up to 255 letters, numbers, or dots. If you remove all entries from the **DNS suffixes** list, all suffixes are removed from the device as well.
Upload CA Certificate	Use this option to upload a valid CA certificate to the authentication server and copy the certificate to the device. Some organizations require secure authentication for their devices. You can upload the CA certificate remotely to meet the security needs of your organization.
Upload Jetdirect Certificate	Use this option to upload a valid HP Jetdirect certificate to the authentication server and copy the certificate to the device. Some organizations require secure authentication for their devices. You can upload the HP Jetdirect certificate remotely to meet the security needs of your organization.
Web Services Print	Use this option to enable or disable the Microsoft Web Services for Devices (WSD) Print services supported on the HP Jetdirect print server.
WINS Server	Use this feature to specify the IP address of a primary Windows Internet Naming Service (WINS) server for this device. A secondary WINS server might also be specified, if supported by the device, for use when the primary WINS server is not available. Devices on IP networks use IP addresses for communications, whereas host names make the system more user-friendly. A WINS server provides name resolution services, translating between user-friendly host names and IP addresses for each network computer or device. A WINS server employs a distributed database of host names and associated IP addresses. The database is automatically updated so that host name and IP address resolution is always current.

Security

802.1X Authentication	Use this option to specify the 802.1X authentication settings on the HP Jetdirect print server required for client authentication on the network. You can also use this option to reset the 802.1X authentication settings to the factory-default values. For most 802.1X networks, the infrastructure components, such as LAN switches, must use 802.1X protocols to control a port's access to the network. If these ports do not allow partial or guest access, you might need to configure the print server with the 802.1X parameters prior to connecting to the network. To configure the initial 802.1X settings before connecting to the network, you can use an isolated LAN or a direct computer connection using a crossover cable. The supported 802.1X authentication protocols and associated configuration depend on the print server model and firmware version.
Access Control for Device Functions	Use this option to restrict access to various device functions, such as administration menus, send to email, and more. The device can be set up to require the user to log in via a local PIN, a Windows password, LDAP login, Smart Card, and more, for any or all device functions. Custom permission sets can be created with specific permissions for each function, or the standard Guest and User accounts can be used to restrict access. A signed-in user can never be restricted more than a guest, so restricting access to a function for one or more users will cause that function to be restricted for the Guest as well.
Access Control Level for Device Functions	Use this configuration option to set the access control levels for the device. A different authentication method and security level can be assigned to each device function. You can reduce costs and increase security by only allowing users access to the minimum set of device functions necessary for your organization's operational needs.

Access Control List	Use this feature to determine the access control list (ACL), which is used to specify the IP addresses on your network that are allowed access to the device. The ACL is normally used for security purposes and supports up to 10 entries. The device blocks communications from all other addresses. If the list is empty, any system is allowed access. By default, host systems with HTTP connections (such as web browser or IPP connections) are allowed access regardless of ACL entries. This allows hosts to access the device when proxy servers or Network Address Translators (NATs) are used. However, unfiltered access by HTTP hosts can be disabled by clearing the Check ACL for HTTP check box.
Authenticate LDAP and Kerberos Without Email	Use this option to enable or disable the Kerberos and LDAP Authentication functions that allow users to sign in to the servers even if they do not have an email address.
Authentication Manager	Use this option to specify the authentication method used for accessing the device and various functions on the device. The authentication methods are User Pin, Group 1 PIN, Group 2 Pin, LDAP, Kerberos, and HP Digital Send Service. The device functions include Walk-up (control panel access), Copy, Send E-mail, Send Fax, Send to Network folder, DSS Secondary E-mail, and DSS Workflow. If another device function becomes available through a third-party device or software, it appears in this list and can have an authentication method enabled for it.
Automatic Update	Use this option to enable or disable Automatic Update in the device control panel. This is a one-time setting, and it can be configured after a cold reset.
Bootloader Password	Use this option to configure a password on the bootloader screens for a device. This keeps the user from making any changes when the device first boots up. The bootloader PIN keeps users from changing the bootloader password. You can enter a new 4-digit PIN (or enter the existing 4-digit PIN if it had been set previously) and then enter the bootloader password itself.
Color Access Control	Use this option to specify whether to allow jobs to print in color. The **Enable Color** setting allows all color jobs to print in color. The **Color If Allowed** setting requires the device to check the permissions defined for the user and the application to determine whether each job is printed in color or not. If either the user or the application has "black-only" permission, the job is printed without color. The **Disable Color** setting forces all color jobs to print in black.
Color Access Control Level	Use this option to specify whether to allow jobs to print in color. The **On** setting allows all color jobs to print in color. The **Custom access control** setting requires the device to check the permissions defined for the user and the application to determine whether each job is printed in color or not. If either the user or the application has "black-only" permission, the job is printed without color. The **Off** setting results in all color jobs printing in black.
Control Panel Access	Use this option to lock the device control panel, preventing unauthorized users from accessing it and changing the device settings. Users can still read the settings on the device's control panel. The unlock options that are available depend on the device. For some devices, you can only lock and unlock the control panel. For other devices, you can specify the level of access: minimum, moderate, or maximum. The definitions for the different levels of access also depend on the device. If you install a printer in a public area, you might require additional security. Locking the device control panel prevents unauthorized users from accessing the device settings either at the device or through a software utility that provides control panel access.
Cross-Origin Resource Sharing (CORS)	Enable this feature to allow resources to be accessed by web pages from different sites. The sites listed below are trusted sites for browsing or CORS. If no sites are added to the list, then all sites are trusted.
Cross-site Request Forgery (CSRF) Prevention	Use this option to configure CSRF prevention. CSRF is an exploit that hijacks the authenticated user session to send unauthorized requests to a server. When enabled, the CSRF feature prevents sending commands to the device through the EWS configuration interface without first having initiated an EWS session that establishes the CSRF token.
Default Sign In Method (Replaced by Access Control for Device Functions)	Use this option to specify the sign in method for accessing the device. You should select the method that best suits the needs of your organization. You can choose a local sign in or alternative sign in methods such as a user's Windows login.
Device Announcement Agent	The device announcement agent provides automatic configuration out of the box with no administrator intervention. When the device is turned on, the device sends an announcement to the configuration server, and then the configuration server pushes the configuration settings to the device. This feature is enabled by default and requires a configuration server, such as HP Imaging and Printing Security Center. Use this option to specify the settings for the device announcement agent that the device uses to announce its presence to the configuration server. By default, the device announcement agent uses the DNS hostname hp-print-mgmt to locate the configuration server. Authentication between the device and configuration server is not required.
Device User Accounts	Use this option to specify the Windows permission that is applied, by default, to users on the device. This allows you to set a base set of permissions for all users on the device.

Digital Sending Service	The Digital Sending Service is an independent HP product that you can use to configure digital sending. If you select the **Allow use of digital send service** check box, the Digital Sending Service manages the device. If you select the **Allow transfer to new digital send service** check box, any Digital Sending Service can manage the device, even if another Digital Sending Service is currently managing the device.
Disable Direct Ports	Enabling this option makes the device more secure by only allowing printing through the network connection. If this option is selected, the device must be rebooted afterwards.
Display Color Usage Job Log Page On Information Tab	Use this option to display the **Display Color Usage Job Log Page On Information Tab** of the device Embedded Web Server. Enable or disable this option and then click **Apply**.
Display Options on Information Tab	Use this option to enable or disable the options that appear on the **Information** tab in the HP Embedded Web Server (EWS) on the device.
Embedded Web Server Password	Use this option to specify a password for the HP Embedded Web Server configuration if you are concerned about security. When setting a password on the device, you must enter the current password, if any, regardless of credentials stored in the application. If you do not, the setting fails as "Invalid Data".
Enable PJL Device Access Commands	HP Printer Job Language (PJL) is a command language that can be used to request information from printers (for example, printer model, configuration settings, and status) and change the configuration settings on printers. Use this option to enable or disable PJL commands on the printer.
Enable Secure PJL	HP Printer Job Language (PJL) is a command language that can be used to request information from printers (for example, printer model, configuration settings, and status) and change the configuration settings on printers. Use this option to enable or disable PJL commands on the printer. To allow users to send PJL commands to the printer, select the **Enabled** option. To prevent users from sending PJL commands to the printer, select the **Disabled** option. If you select the **Enabled** option for non-HP FutureSmart devices, be aware of the following issues: • You can no longer delete disk jobs by using the Erase Customer Data feature on the Storage tab. • If the Printer Wakeup configuration option is enabled, the feature might not work.
Encrypt all web communication	Use this option to enable or disable the HP Jetdirect card to encrypt any information coming from the device.
Encryption Strength	This option indicates the SSL encryption strength. For the encryption strength selected, ciphers are displayed that identify the weakest cipher allowed. This only applies if encryption is enabled.
EWS Information Protection	Use this option to enable or disable protection for the Information tab on the device Embedded Web Server (EWS) page.
FIPS -140 Mode	Use this option to enable or disable the Federal Information Processing Standard (FIPS) mode on the device. FIPS mode enforces the use of cryptographic suites and protocols that comply with the FIPS-140 standards for computer security.
Get Community Name	The Get Community Name password can be set to prevent unauthorized people from using SNMP utilities to access a device and get the device settings.
Group 1 PIN	Use these options to require users to use a PIN to access a device. You can then use the Authentication Manager function to specify what features (such as Walk-up (control panel access), Copy, Send E-mail, and Send Fax) are restricted. You can have two different groups, each with a unique pin.
Group 2 PIN	Use this option to force users to use a PIN to access a device. You can then use the Authentication Manager function to specify what features (such as Walk-up (control panel access), Copy, Send, and Fax) are restricted by this. You can have two different groups, each with a unique pin.
Host USB plug and play	Use this option to enable or disable the USB Plug and Play feature on the device. The USB Plug and Play feature is used to perform tasks such as scanning to a USB flash drive.
IPsec/Firewall Policy	Internet Protocol (IP) traffic to and from a device can be managed (processed or discarded) by configuration of an Internet Protocol security (IPsec, RFC 2401) policy. An IPsec policy is configured on devices containing HP Jetdirect print servers that support this feature. After an IPsec policy is configured, HP Web Jetadmin allows you to apply it to multiple selected devices simultaneously.
Kerberos Authentication	Use this feature to configure the device (multi-function peripheral, or digital sender) to authenticate users to a Kerberos Realm. When Kerberos authentication is selected as the Log In Method for one or more Device Functions on the Authentication Manager feature, the user at the device must enter valid credentials to gain access to those functions (username, password, and realm).
LDAP - Accessing the Server	Use this option to specify how the digital send device accesses the LDAP server to look up email addresses. To send scanned documents from the digital send device through email, the user must provide an email address. The process of entering email addresses can be simplified by providing an address lookup list and using an auto-complete feature. Access to the LDAP server email address database provides a way for the digital send device to use the lookup list and the auto-complete feature.

LDAP - Searching the Database	Use this option to specify the root and attributes used to search the LDAP database for the user's email.
LDAP Sign In Setup	Use this option to specify which LDAP server the device should connect to when you are trying to complete a task that requires LDAP.
LDAP Users and Groups	Use this option to set LDAP permissions for individual users or groups. These permissions control who has access to what features on the device. Choose the permission levels that best suit the security needs of your organization and the convenience needs of your users.
Local Administrator Password	Use this option to configure the Account Lockout Policy for the device to avoid a device lockout if a log in fails. It also prompts the user to enter the proper password for the device.
Manage Remote Apps	Remote Apps allows for the interaction with the product from a remote device, such as a smartphone, tablet, or computer.
Near Field Communication	Near field communication (NFC) capabilities enable an easy one-to-one HP Wireless direct print connection by using a simple device-to-device touch. Users can quickly connect to the printer and print documents and images from a mobile device, such as a smartphone or tablet, by touching the mobile device to the NFC antenna on the printer. Use this option to enable and disable the NFC feature on the printer.
Novell Sign In Setup	Use this option to set up Novell authentication on a device. Specify the Novell trees that a user can authenticate against. You can extend the structure and security of a Novell network to the device by enabling the Novell NDS sign in on the device. This provides for enhanced security and ease of use for users who are already members of a Novell tree.
PJL Device Access Commands	HP Printer Job Language (PJL) is a command language that can be used to request information from devices (for example, printer model, configuration settings, and status) and change the configuration settings on devices.
PJL Password	Use this option to specify a Printer Job Language (PJL) password. PJL is a command language that enables some features of a device. Setting the PJL password restricts access to those PJL features.
Print Job Color Control	Use this option to enable or disable color printing for all print jobs or limit the color printing based on a list of approved software programs.
Printer Firmware SHA1 Code Signing	Use this option to allow the device to install only firmware bundles that are signed by using Secure Hash Algorithm 2 (SHA2) or allow the device to install firmware bundles that are signed by using SHA1 or SHA2. To allow the device to install only firmware bundles that have an SHA2 signature, select the **Disabled** option. The device uses SHA-256 to validate the bundle signature. The device does not install firmware bundles that have only an SHA1 signature. To allow the device to install firmware bundles that have an SHA1 or SHA2 signature, select the **Enabled** option. The device always validates the firmware bundles by using the more secure SHA2 signature.
Printer Firmware Update (send as Printjob)	Use this option to enable or disable the ability of a device to have its firmware updated remotely. If disabled, the device does not accept RFU firmware update files.
Remote Configuration Password	Use this option to configure CCC (Common Criteria Certification) Protection Profile, which locks the remote account after a fixed number of login fails and prompts the user to enter the proper password for the device.
Restrict Color	Use this option to manage the use of color printing supplies in your organization. You can specify that all color print jobs are printed in color, all color print jobs are printed in their grayscale equivalent, or color printing is restricted based on the user's permission level or based on the application.
Secure Communication	Use this option to enable the ciphers. The device communicates based on these secure communication and enabled ciphers. The enabled check boxes indicate currently active ciphers, and disabled check boxes indicate inactive ciphers.
Secure Disk Encryption Mode	Use this option to determine whether encryption is automatically enabled when an HP Secure Hard Disk is installed. This is the default and recommended mode. If you have a specific need to manually specify a drive password or want to start encrypting at a later time, the **Manual** setting allows this. If **Manual** is selected, you must use the EWS page to individually enable encryption of each device.
Secure Disk Password	Use this option to configure a password for all of the secure disks installed on the device. This password provides access to the encrypted data on the secure disks. This password locks all of the secure disks, but does not encrypt the data on the disks. The device automatically generates a separate encryption key for each disk to encrypt the data.
Service Access Code	A unique service personal identification number (PIN) is assigned to each HP product model. During the manufacturing process, the same service PIN is written to every device for a specific product model. The factory-default service PIN cannot be changed.
Service Loading	Use this option to enable or disable the ability to install third-party services and applications that run directly on the device.

Set Community Name	The Set Community Name, which is different from the device password, prevents unauthorized users from using SNMP utilities to access and change device settings. After you assign a Set Community Name, only users who know it can change the device settings from an SNMP utility.
SIPRNet Smart Card Sign in Setup	The structure and security of a domain network can be extended to the device by enabling the SIPRNet Smart Card sign-in method on the device. This feature provides enhanced security and ease-of-use for users who are members of that domain.
Smart Card Sign In Setup	Use this option to set up Windows authentication on a device. Specify the trusted domains that a user can authenticate against. You can extend the structure and security of a Windows domain network to the device by enabling the Windows sign in on the device. This provides for enhanced security and ease of use for users who are already members of a Windows domain.
Smart UX Apps	Use this option to configure Smart UX. Smart UX apps use Android technology.
SNMP Credentials - FutureSmart 3 and Non-FutureSmart devices	Use this option to configure FutureSmart 3 and Non-FutureSmart devices. For FutureSmart 3 devices, this option is used to configure SNMP Credentials when 4.4.2 and earlier firmware is installed.
SNMP Credentials - FutureSmart 4.5	This is needed for Futuresmart 4.5 devices that have SNMPv1 set to read-only. In order to change the SNMP settings on the device, HP Web Jetadmin uses a different protocol (CDM) to configure SNMP settings on the device. Another change is the fact that SNMPv1 can be re-enabled without having to configure SNMPv3 first with the **SNMP Credentials - FutureSmart 4** configuration option. After discovering a factory new FutureSmart 4.5 device (or an upgraded device that has been set to factory defaults), the SNMP settings on the device must be configured first before any other SNMP managed settings can be changed.
Temporary Limit Overrides	Use this option to override page limits for specific users in a permission set. If one or more users in a permission set has a specific need to print more pages than the page limit for the group allows, you can set an override for that user to allow for more page prints.
Usage Limit and Reset Period	Use this option to enable usage limits. If usage limits are enabled, each user in a Permission Set is assigned a limited number of pages during a recurring time period. The number of pages is the same for each person in the device Permission Set. Limits and overrides automatically reset at the start of each reset period. Usage limits can help reduce the operating costs of your organization. Use the usage reports to identify usage trends among your users.
Usage Limits for Permission Sets	Use this option to define the general page limits and the color page limits for predefined permission sets.
User PIN Authentication	Use this option to add user PIN records into the device one at a time, and to edit or delete user PIN records that have already been saved in the device.
Windows Sign In Setup	Use this option to set up Windows authentication on a device. Specify the trusted domains that a user can authenticate against. You can extend the structure and security of a Windows domain network to the device by enabling the Windows sign in on the device. This provides for enhanced security and ease of use for users who are already members of a Windows domain.
Windows Users and Groups	Use this option to set Windows permissions for individual users or groups. These permissions control who has access to what features on the device. Choose the permission levels that best suit the security needs of your organization and the convenience needs of your users.

Fax

Blocked Fax List	Use this option to maintain the list of fax numbers that are blocked by the fax device. Your organization can prevent unwanted fax solicitation by adding the fax number of the solicitor to the blocked fax list.
Blocked Fax List Settings	Use this option to maintain the list of fax numbers that are blocked by the fax device. Your organization can prevent unwanted fax solicitation by adding the fax number of the solicitor to the blocked fax list.
Fax Activity Log	Use this option to specify whether the fax activity log is printed, cleared, or both. The fax activity log contains a record of all incoming and outgoing fax calls that have occurred since the last time the fax activity log was cleared. You should periodically print the fax activity log for record-keeping purposes, and then clear the fax activity log to prevent it from becoming too large.
Fax Answer Mode	Use this option to select the answer mode for this device. Manual mode requires user input and Automatic does not.
Fax Answer Mode Settings	Use this option to select the answer mode for this device.
Fax Archive	Use this option to specify a particular fax number for archiving the fax job in addition to the ones specified by the user. This is useful if you want to track the fax jobs sent to the printer.
Fax Archive Setting	Use this option to configure the type of fax archive.

Fax Archiving	Use this option to specify the type of faxes to be archived and to specify the email address that copies of incoming and outgoing faxes are sent to.
Fax Billing Code	Use this option to specify the billing code information for the digital send device. When supported by the fax method, billing codes can be used to track the fax source to a specific machine or sender.
Fax Forwarding	Use this option to send a copy of all incoming and outgoing faxes to another fax number.
Fax General	Use this option to specify advanced fax settings for the digital send device. You can specify the modem and ringer volumes, whether the header information is overlaid on top of the fax image, and whether the fax device should use JBIG compression or Error Correction Mode (ECM). Printing the header over the top of the fax image instead of above it reduces the chance that each faxed page is larger than the selected paper size and prints as two pages on the receiving fax device.
Fax Header	Use this option to specify the company name and fax number to be included at the top of your faxes.
Fax Header Settings	Use this option to specify information about the origin of sent faxes. You can include Company Name, Phone Number, and Country/Region of origin.
Fax Maximum Baud Rate - Receive (Replaced by Fax Receive Settings)	Use this option to specify the maximum baud rate (Kilobits per second) for receiving faxes. The baud rate is normally set to the highest value available. The fax modem negotiates the appropriate speed up to this setting while receiving faxes. If the fax modem is having communication issues, set this option to a slower baud rate to determine if the phone line is causing the error.
Fax Maximum Baud Rate - Send (Replaced by Fax Send Settings)	Use this option to specify the maximum baud rate (Kilobits per second) for sending faxes. The baud rate is normally set to the highest value available. The fax modem negotiates the appropriate speed up to this setting while sending faxes. If the fax modem is having communication issues, set this option to a slower baud rate to determine if the phone line is causing the error.
Fax Modem Settings	Similar to a fax machine, the digital send device sends scanned documents to a fax phone number. Specify the fax settings to ensure that the fax line associated with the digital send device is properly configured.
Fax Notification	The digital send device can generate notification reports to provide further details about the result of a fax send or receive operation. Use this option to specify when the digital send device generates notification reports and how those reports are delivered to the user. Depending on your needs, you can configure the device to deliver notification reports regularly or only when specific types of errors occur.
Fax Number Confirmation	When this option is enabled, prior to sending a fax the device displays a confirmation screen asking for the fax number again to ensure the number is correct. This is useful in companies and offices that often need to send restricted and confidential information via fax.
Fax Printing	Use this option to specify the fax printing settings for the fax capable device. You can specify a PIN to secure incoming fax documents and prevent unauthorized users from printing them. You can also specify whether incoming faxes are printed or stored. For printed faxes, you can schedule when they are printed. If incoming faxes contain sensitive information, securing the fax modem with a PIN prevents unauthorized users from printing those faxes. If the fax device is not attended regularly, storing all received faxes or specifying a printing schedule prevents the faxes from being printed when the device is unattended.
Fax Printing Schedule	Use this option to specify the most efficient fax receive settings for the digital send device. You can specify which bins on the digital send device the faxes are printed from and delivered to, how the faxes are formatted for printing, the number of rings the fax device waits before answering an incoming call, and whether the device should forward the fax document to another fax capable machine. These settings ensure that the majority of incoming faxes are received successfully and delivered to the user in the most effective manner.
Fax Receive	Use this option to define whether a device either prints an incoming fax or forwards it to a different fax number.
Fax Receive - Disposition	Use this option to select additional actions the device can perform when receiving a fax. You can allow users to get faxes even when attached to an extension phone, let the device detect if there is silence after the incoming phone is answered, or even force each incoming fax to be time-stamped.
Fax Receive - Other Options	Use this option to select additional options the device can do when receiving a fax. You can allow users to get faxes even when attached to an extension phone, let the device detect if there is silence after the incoming phone is answered, or even force each incoming fax to be time-stamped.
Fax Receive - Setup	Use this option to specify the fax receive settings. You can specify which bins the faxes are delivered to, how the faxes are formatted for printing, the number of rings each fax device waits before answering an incoming call, and whether each device should forward the fax document to another fax capable machine. These settings ensure that the majority of the incoming faxes are received successfully and delivered in the most effective manner possible.

Fax Receive Settings	Use this option to specify the fax receive settings. You can specify which bins the faxes are delivered to, how the faxes are formatted for printing, the number of rings each fax device waits before answering an incoming call, and whether each device should forward the fax document to another fax capable machine. These settings ensure that the majority of the incoming faxes are received successfully and delivered in the most effective manner possible.
Fax Reporting and Error Correction	Use this option to set up options with errors and tracking reports. Enabling error correction lets the device automatically attempt error correction with faxes. You can select how often the fax log is printed by selecting the frequency in the drop-down list. You can also choose to include the first page or not.
Fax Reports and Logs	Use this option to specify whether to print or clear the fax activity logs. The fax activity log contains a record of all the incoming and outgoing fax calls that have occurred since the last time the fax log was cleared. Periodically, the log should be printed for record-keeping purposes and then cleared. This prevents the log from becoming too large.
Fax Resolution Quality	Use this option to specify the resolution quality of outbound faxes. Use the resolution setting to manage the efficiency of the fax sending operation. Lower resolution typically results in faster fax send times, but the quality of the fax document is reduced.
Fax Ring Burst Off Time	Use this option to specify the amount of time between rings that must elapse before the modem can detect an incoming ring (or, Ring Burst Off Time). You might want to specify a custom value for Ring Burst Off Time if you use the fax line for multiple purposes and only want the fax answering for a specific ring duration.
Fax Ring Frequency	Use this option to specify a particular frequency for the fax ring. You might need to specify a custom value in order to fix oscillations generated by a custom PBX policy. This option might be required by technical support to adjust the fax ring communication.
Fax Send	Use this option to specify the most efficient settings for sending faxes from the digital send device. These settings affect how the device dials outbound faxes and how it behaves when the receiving line fails to answer the fax. These settings ensure that the majority of outbound faxes are received successfully while minimizing time spent attempting to send faxes to unreachable recipients.
Fax Send - Dialing Mode	Use this option to set the default dialing mode that suits the characteristics of the available communication line when dialing a number on a fax send (Tone or Pulse).
Fax Send - Other Options	Use this option to define what the device should do if the number dialed is busy or there is no answer.
Fax Send - Other Settings	Use this option to define what the device should do if the number dialed is busy or there is no answer.
Fax Send - Resolution	Use this option to set the default resolution when sending faxes. The available selections are **Standard**, **Fine**, **Superfine**, and **Photo**.
Fax Send - Setup	Use this option to specify the send settings for faxes. You can specify the modem and ringer volumes, the dial and redial settings, and whether the fax device should use JBIG compression or Error Correction Mode (ECM).
Fax Send Settings	Use this option to specify the settings for sending faxes. You can specify the fax send method, scan settings, notification settings, internal modem settings, LAN fax settings, and Internet fax settings.
Fax Send Setup	Various fax settings including: Enable fax send: enable sending faxes and specify the fax send method, etc.
Fax Service	Use this option to enable the V.34 fax standard, print fax reports, and set the speaker mode.
Fax Time Format	Use this option to select the time format this device should use (12 hour or 24 hours).
Fax Transmit Signal Loss	Use this option to specify the decibel range for transmit signal loss. This compensates for phone line signal loss. You can increase the amount of decibels used by the fax to compensate for weaknesses in the phone line signal.
Import Speed Dials	Use this option to import a predefined list of fax speed dials from a comma separated value (CSV) file directly into the internal memory of the device. To send a fax, you must provide a fax number. The process of entering multiple fax numbers can be simplified by providing a speed dial list. Importing fax numbers into the internal memory of the device provides a list of fax numbers for users to choose from.
LAN Fax Receive Settings	Use this option to specify the settings that the device uses to send faxes through a LAN fax service.
PC Fax Settings	Use this option to specify whether users can send faxes from their computer.
TCF Settings	Use this option to optimize fax performance by fine tuning the fax ring frequency and TCF signals to best suit the needs of your organization. If your fax device is having trouble sending outbound faxes, increasing the TCF delay and extending the TCF signal might improve communication with difficult fax receivers. TCF is a series of zeros sent to the receiver to confirm that the connection is working and to establish the optimal connection speed. The sending fax generates a series of TCF signals at different speeds until it receives a Confirmation To Receive (CFR) signal from the receiving fax. TCF T.30 delay specifies how long to wait before sending each TCF signal. TCF extend specifies how long to extend the TCF signal beyond the default time length (1500 milliseconds).

Embedded Web Server

Embedded Web Server Configuration Options	Use this option to select various features for the HP Embedded Web Server. If you have a set of standard configuration options for HP Embedded Web Server, you can direct all of your HP Embedded Web Servers to the URL of the device that has the correct configuration options. This eliminates the need to manually specify the configuration options for each HP Embedded Web Server, reducing errors.
Embedded Web Server Language Settings	Use this option to specify what language the HP Embedded Web Server uses to display web pages.
Embedded Web Server Mail Settings	Use this option to configure email settings for an individual device or devices in a device group. You can specify email settings for sending and receiving email messages from the device.
Embedded Web Server Other Links (Replaced by Other Links)	Use this option to create links to other web sites. This is a convenient way to quickly browse to a web site. These links appear on the device's HP Embedded Web Server page. You can create up to five links.
Embedded Web Server URL	Specify a URL where the HP Embedded Web Server can retrieve configuration information. If you have a set of standard configuration options for HP Embedded Web Server, you can set up a URL with those configuration options and direct all of your HP Embedded Web Servers to that URL. This eliminates the need to manually specify the configuration options for each HP Embedded Web Server, reducing errors.
Other Links	Use this option to create links to other Web sites. This is a convenient way to quickly browse to a Web site. These links appear on the printer's embedded Web server page. You can create up to five links.
Time Services	Use this option to access another machine on the network to obtain the correct time for an individual device or devices in a device group. HP devices do not have an internal clock to keep track of the time; therefore, they need to connect to another machine on the network to obtain the current time.

Web Services

ePrint Settings	Use this option to enable or disable access to HP Web Services and specify which services are enabled for the device. HP Web Services includes HP ePrint and HP Apps. You can enable HP Web Services on all devices, but the supported services vary depending on the device model.
HP JetAdvantage (More Apps)	HP JetAdvantage is a cloud-based service that provides access to applications that extend the capabilities of devices. Use this option to enable or disable the HP JetAdvantage feature on the device and specify if users can create accounts for HP JetAdvantage from the device control panel.
Proxy Server	Use this option to configure or view the web browser proxy settings on the device (for example, to enable OXPd 1.6 functionality that requires accessing websites from a device). You can determine whether or not the web proxy is enabled. If enabled, the proxy address and port must be set. Proxy credentials can be provided. A proxy exception list is also supported. The device web browser does not use the proxy for addresses in the Proxy server exception list.

File System

File System External Access	Use this option to manage the access to file systems by various printer communication languages on a device hard drive, which helps protect a device's file system from unauthorized reading or writing of data. If you disable a printer communication language, that printer communication language cannot read or write any data to the file system on a device's hard drive.
File System Password	Use this option to prevent unauthorized users from changing any file system configuration options and from performing a secure storage erase operation. The file system password must be set to perform a secure storage erase operation and to configure the secure file erase modes and the file system external access.

Secure File Erase Mode	Use this option to determine the behavior of a secure storage erase operation and the erase operation that a device automatically performs to make space available on a hard disk drive for incoming print jobs. The secure erase operation is designed to prevent unauthorized users from accessing confidential information from a device's hard disk drive or other erasable storage device. The following are the supported secure file erase modes: • **Non-secure Fast Erase**: Erases the file system references to operations, such as completed print jobs. By erasing the references, space on the hard disk drive is made available. This is the fastest erase mode and the default mode. • **Secure Fast Erase**: Erases the file system references to operations and provides one layer of masking to hide data stored on the hard disk drive or other erasable storage devices. This mode is slower than the Non-secure Fast Erase but more secure. • **Secure Sanitizing Erase**: Erases the file system references to operations and provides multiple layers of masking to hide data stored on the hard disk drive or other erasable storage devices. This mode might significantly impair device performance while the process is executing.

Projector

Auto-search	When Auto Search enabled is checked, the projector automatically searches for a device connected to it.
Auto-sync VGA	When this option is selected, the device automatically syncs up its resolution with the incoming device.
Power	Use this option to remotely change the power level of the device. **Standby** uses less power while **Lamp On** sets the projector so it can be used.
Requested Source	Use this option to specify what video standard source the projector uses for its source. You can also specify the projector to scan for any attached source, and select the source from the drop-down list

Digital Sending

Activity Log	Use this option to view the logs for the digital send device. The logs contain digital sending job information and error events associated with the device. You can use this information to check the status of digital send jobs for the device. If there are any errors associated with the jobs, you can also view the specific error messages to begin troubleshooting any issues.
Administrator Information	Use this option to specify the contact information for the administrator of the digital send device. In case of a problem with this device, this administrator should be contacted.
Advanced Search Options	Use this option to specify the settings the digital send device uses to search the LDAP database for email addresses. Digital send devices can take a long time to search LDAP servers with large email address databases. Specify the most efficient search method to ensure the fastest possible search results.
Clear All Network Folders	Use this configuration item to clear all folder entries from the devices' Send to Network Folder settings. This should be done in order to either remove settings or as a first step in modifying folder configuration settings.
Default Message Settings	Use this option to specify the From address, subject, and body information that initially appears in all email messages sent from the digital send device. The digital send device uses the email message settings as the initial content text for each email message it generates. You can also restrict the address fields and message body from edits. The initial information provided can serve as a template for the email or provide instructions to the user. For example, you can specify the subject of the email as shown here: "Please type in a subject for your message here". For security reasons, you might not want to allow the user to change the From address provided on the digital send device. You can specify a setting in this section that prevents the user from changing the default From address.
Default Notification Settings For E-Mail	Use this option to set the device to send a notification whenever an email is sent. You can also specify how and when these notifications should be sent.
Default Scan Settings For Email	Use this option to specify the default settings for email attachments that best suits the business needs of your organization.
Device Contacts Import	Use this option to import a predefined list of email addresses (500 maximum) from a comma separated value (CSV) file directly into the internal address book of the digital send device.
Digital Sending - Accessing the LDAP Server	Use this option to specify how the digital send device accesses the LDAP server to look up email addresses. To send scanned documents from the digital send device through email, the user must provide an email address. The process of entering email addresses can be simplified by providing an address lookup list and using an auto-complete feature. Access to the LDAP server email address database provides a way for the digital send device to use the lookup list and the auto-complete feature.

Digital Sending - Auto Reset Settings	Use this option to import a predefined list of email addresses (500 maximum) from a comma separated value (CSV) file directly into the internal address book of the digital send device. The address book can store up to 2,000 addresses. Once an address file is imported to the digital send device, the addresses can be searched by alias. The alias can be a name or an email address. To ensure that searches are consistent in the digital send device address book, use the same format for all aliases. For example, type the first name and then the last name.
Digital Sending - Default 'From:' Address (Replaced by Network Folder Scan Settings)	Use this option to specify the From address and subject information that initially appears in all email messages sent from the digital send device. The digital send device uses these settings as the initial From address and subject line for each email message it generates. You can also specify whether the digital send device user has permission to change the default From address at the device. For example, you can specify the subject of the email: Please type in a subject for your message here. For security reasons, you may not want to allow the user to change the From address provided on the digital send device. You can specify a setting in this section that prevents the user from changing the default From address.
Digital Sending - Default Scanner Settings (Replaced by Network Folder Scan Settings)	The default scanner settings determine the initial settings used when a user scans a document. These settings apply to both copying and digital sending operations. Set the default scanner settings to the preferences used most often for scanning on the digital send device. This increases user efficiency because the user does not need to spend time manually configuring the scanner settings as often.
Digital Sending - Email Attachment Settings	Use this option to specify the default email attachment settings for each email sent from the digital send device. The digital send device uses the email attachment settings as the initial settings for each email message the device generates. Set the default attachment settings to the preferences used most often for email attachments on the digital send device. This increases user efficiency because the user does not need to spend additional time manually configuring the attachment settings as often.
Email Address Validation	Use this option to configure HP Web Jetadmin 10.2 to check email syntax when you type an email address. Valid email addresses require the "at" sign (@) and a period (.).
Email Address/Message Settings	Use this option to specify the **From** address, subject, and body information that initially appears in all email messages sent from the digital send device. The digital send device uses the email message settings as the initial content text for each email message it generates. You can also restrict the address fields and message body from edits. The initial information provided can serve as a template for the email or provide instructions to the user. For example, you can specify the subject of the email as shown here: Please type in a subject for your message here. For security reasons, you may not want to allow the user to change the **From** address provided on the digital send device. You can specify a setting in this section that prevents the user from changing the default **From** address.
Email File Settings	Use this option to specify the default email attachment settings for each email sent from the digital send device. The digital send device uses the email attachment settings as the initial settings for each email message the device generates. Set the default attachment settings to the preferences used most often for email attachments on the digital send device. This increases user efficiency because the user does not need to spend additional time manually configuring the attachment settings as often.
Email Message Text	Use this option to specify the text that initially appears in the body of all email messages the digital send device generates. The initial information provided can serve as a template for the email or provide instructions to the user. For example: "Type the body of the email here".
Email Notification Settings	Use this option to specify the method and under what conditions notifications are sent when users send scanned documents by email. If a recipient email address is not specified, the user must enter an email address at the device.
Email Scan Settings	The default scanner settings determine the initial settings used when a user scans a document for sending to email. Set the default scanner settings to the preferences used most often for sending email from the digital send device. This increases user efficiency because the user does not need to spend time manually configuring the scanner settings as often.
Enable Device Fax Archive Settings	Use this option to enable or disable the ability to archive faxes on the device.
Enable Save to Network Folder	Use this option to enable or disable the Save to Network Folder feature on the device. This feature provides the ability to save scanned documents in a shared folder on a network computer or server. If you enable this feature, the device might require additional configuration settings, such as DNS and WINS server settings.
Enable Save to SharePoint	Use this option to enable or disable the Save the SharePoint® feature on the device. This feature provides the ability to save scanned documents directly on a Microsoft SharePoint site. If you enable this feature, the user does not need to scan a document to a network folder, USB flash drive, or email message, and then manually upload the file to the SharePoint site.
Enable Save to USB	Use this option to enable or disable the Save to USB feature on the device. This feature provides the ability to save scanned documents on a USB flash drive that is inserted into the easy-access USB port on the device.

Enable Save to Network Folder	Enable this feature to allow a device to send scanned documents to a shared folder on a network computer or server. The device might require additional configuration settings in order to save to a network folder, such as DNS and WINS server settings.
Enable Send To Email	Use this option to configure the device to send scanned documents as an email. The device might require additional configuration settings in order to send email, such as an outgoing SMTP server or other default email settings. This feature eliminates the need to scan the media remotely, save it to file, and then send it in an email from a computer.
Folder Access Settings	Use this option to set the device to first check access to the shared network folder before saving a file. When this option is disabled, users can save jobs more quickly, but jobs might fail if the folder is unavailable.
Import/Export Address Book	Use this option to import a predefined list of email addresses (500 maximum) from a comma separated value (CSV) file directly into the internal address book of the digital send device. You must use this option to configure Fax Speed Dials or add Device User Accounts with PINs.
Import/Export Address Book (Pro)	Use this option to manage the address book that is stored on the HP Pro MFP device. You can import a comma-separated value (CSV) file into the address book; clear the address book, and export the address book to a CSV file.
LDAP Search Method	Use this option to specify the search method for looking up information in the LDAP address book. You can specify the most efficient search method for your organization: • **Quick Search**: Returns results faster by only searching for entries that begin with the search string. • **Detailed Search**: Returns more thorough results by searching for entries that contain the search string.
LDAP Settings	Configuring the Lightweight Directory Access Protocol (LDAP) information for a device specifies which LDAP server the device should connect to when the user is trying to complete a task that requires LDAP. Specifying this information allows the user to perform LDAP tasks on the device.
Network Folder File Settings	Use this option to specify the default file settings for each file saved to a network folder from the digital send device. The digital send device uses the network folder file settings as the initial settings for each file the device saves to a network folder. Set the default file settings to the preferences used most often for network folders on the digital send device. This increases user efficiency because the user does not need to spend additional time manually configuring the network folder file settings as often.
Network Folder Notification Settings	Use this option to specify the method and under what conditions notifications are sent when users save scanned documents to network folders. If a recipient email address is not specified, the user must enter an email address at the device.
Network Folder Scan Settings	The default scanner settings determine the initial settings used when a user scans a document for saving to a network folder. Set the default scanner settings to the preferences used most often for saving to network folders from the digital send device. This increases user efficiency because the user does not need to spend time manually configuring the scanner settings as often.
Network Folder Setup	After Enable Send to Folder is enabled, you can use this option to save device settings to a file or load other device settings from a file. You can also use this feature to easily view and manage all of your quick access folders in one interface.
OXPd 1.4 Configuration	Use this option to: • Specify workflow service servers' URLs. • Specify the URL polling interval. • Upload an SDC configuration file to the device. • Remove the current configuration file.
Personal Contacts Setup	Use this option to sign-in on the device and access personal contacts from the Microsoft Exchange server.
Replicate MFP	Use this option to copy the local digital send settings from one device to another. Using this feature enables the settings for General, Email, Fax, and LDAP to be replicated.
Reset Copy Send Timeout	Use this option to specify the default amount of time that HP Web Jetadmin 10.2 waits after any control panel activity completes before it resets the send settings to their defaults. You should set the value to provide users with enough time to set up and complete their digital sending tasks before the product resets their send settings.
Send to Network Folder	Use this option to send documents to a network folder. There is a list of predefined folders. You can set the default document setting to apply to documents sent to a network folder.
Send to Network Folder - MSeries or later	Use this option to send documents to a network folder. There is a list of predefined folders. You can set the default document setting to apply to documents sent to a network folder.

SMTP Gateway Settings (Replaced by Outgoing Servers)	Use this option to specify the SMTP gateway settings for the digital send device. The device uses the SMTP gateway settings to connect to an email server to send scanned documents directly from the digital send device to an email address.
SMTP Multiple Gateway Settings	Use this option to specify the connection and authentication information for one or more SMTP servers. You can add, edit, or delete each of the entries.
USB File Settings	Use this option to specify the default file settings for each file saved to an attached USB media from the digital send device. The digital send device uses the USB file settings as the initial settings for each file the device saves to USB media. Set the default file settings to the preferences used most often for USB on the digital send device. This increases user efficiency because the user does not need to spend additional time manually configuring the USB file settings as often.
USB Notification Settings	Use this option to specify the method and under what conditions notifications are sent when users save scanned documents to USB storage devices. If a recipient email address is not specified, the user must enter an email address at the device.
USB Scan Settings	The default scanner settings determine the initial settings used when a user scans a document for saving to an attached USB media. Set the default scanner settings to the preferences used most often for saving to an attached USB media from the digital send device. This increases user efficiency because the user does not need to spend time manually configuring the scanner settings as often.

Features Table

For a list of various HP printer and the common features, see the HP Web Jetadmin - Supported Printer Features Table spreadsheet. An X in a checkbox indicates that the feature is supported for that printer.

NOTE: Not all of the features are listed in the HP Web Jetadmin - Supported Printer Features Table spreadsheet. Basic features and some advanced features are not listed in this table. If a printer, such as the HP LaserJet Pro MFP M426, only supports the basic features, the printer mode is only listed in the HP Web Jetadmin 10.4 Supported Devices Readme.