

HP Jetdirect Print Servers

Administrator's Guide Addendum - HP Jetdirect 2700w USB Solution Print Server (J8026A)



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Applicable Product: J8026A

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Overview

This addendum describes the changes to the *HP Jetdirect Print Servers Administrator's Guide* that are required for the HP Jetdirect 2700w USB Solution Print Server.

Note: For complete information about HP Jetdirect print servers, see the *HP Jetdirect Print Servers Administrator's Guide* at:

<http://h20000.www2.hp.com/bizsupport/TechSupport/Product.jsp?lang=en&cc=us&taskId=101&contentType=SupportManual&docIndexId=64255&prodTypeId=18972&prodCatId=236254>

Telnet Commands and Parameters

The following table lists the new or modified telnet commands for the HP Jetdirect 2700w Print Server.

Command	Description
Wireless Mode	802.11 wireless mode. B/G_MODE: Use 802.11b or g. B/G/N_MODE (default): Use 802.11b, g, or n.
Guard Interval	The space between transmitted symbols (characters). Can eliminate inter-symbol interference (ISI), which occurs when echoes or reflections from one symbol interfere with another. A long interval can reduce echoes, but decrease the data rate. A short interval can increase the data rate by approximately 10 percent. AUTO (default): Set the guard interval based on the wireless mode. SHORT: Set to short interval (400 ns). LONG: Set to a long interval (800 ns).
AMSDU Aggregation	Aggregating 802.11 MAC service data units packs them into frames to reduce overhead and increase the data rate. Enabling aggregation allows a maximum frame size of 7935 bytes. ENABLE (default): Enable aggregation. DISABLE: Disable aggregation.
Block ACKs	Use block acknowledgement of AMPDUs. This mechanism allows each of the aggregated data frames to be individually acknowledged or retransmitted if affected by an error. (This command is only available when AMPDU Aggregation is enabled.) ENABLE (default): Enable AMPDU block acknowledgements. DISABLE: Disable AMPDU block acknowledgements.
AMPDU Aggregation	Aggregating 802.11 MAC protocol data units packs them into frames to reduce overhead and increase the data rate. Enabling aggregation allows a maximum frame size of 64k bytes. ENABLE (default): Enable aggregation. DISABLE: Disable aggregation.
SLP Client-Mode	Use the service location protocol (SLP) to locate and install printers on the network. 0 (default): Disable. 1: Enable.
LLMNR	Use link local multicast name resolution (LLMNR). 0: Disable. 1 (default): Enable.

HopLimit/WSD	Set the WS-Discovery hop limit for the site local IPv6 multicast packet.
Panic Behavior	Set the printer behavior when a panic situation is encountered. DUMP_AND_REBOOT JUST_REBOOT DUMP_AND_HALT JUST_HALT FULL_DUMP_AND_REBOOT FULL_DUMP_AND_HALT
hw-acclrn-conf	Use hardware acceleration. 0: Disable. 1 (default): Enable.

HP Embedded Web Server

The following discusses the changes to the Networking and Web Services tabs of the HP Embedded Web Server.

Networking tab

TCP/IP Settings

The Advanced tab now contains the CCC Logging item. By default, HP Customer Care Center logging (CCC Logging) is enabled. To disable logging, clear the check box.

Authorization

By default, the HP Jetdirect print server contains a self-signed preinstalled certificate. When using this self-signed certificate, the Encryption Key Length item now allows you to select an encryption key length of 2048 bits.

802.1X Authentication

Both the PEAP and EAP-TLS protocols use dynamic encryption keys for secure communication. If an authentication failure occurs, you can set the new On Authentication Failure item to connect anyway, or block access.

Device Announcement Agent

Use the Announcement Agent menu item to enable or disable the HP Device Announcement Agent, to set the configuration server, and to indicate whether to require mutual authentication using certificates. When enabled, the HP Device Announcement Agent sends an announcement to a configuration server when the device first connects to your network. The configuration server, such as the HP Imaging and Printing Security Center, then pushes the pre-established configuration settings to the device.

By default, the HP Device Announcement Agent is enabled.

Item	Description
Enable Device Announcement	Select the check box to enable device announcement. Clear the check box to disable device announcement. (By default, device announcement is enabled.)
Configuration Server IP Address (v4/v6)	Enter the IP address of the configuration server. By default, the announcement agent uses the DNS host name "hp-print-mgmt" to locate the configuration server.
Require Mutual authentication via certificates	Select the check box to require mutual authentication using certificates. Clear the check box not to require mutual authentication. (By default, mutual authentication is not required.)

HP Web Services tab

Use this new tab to enable HP Web Services and to connect to the HP ePrintCenter. HP ePrint is a free service from HP that lets you print from your mobile device to any HP ePrint-enabled device.

Note: To use the HP ePrint features, your printer must be connected to a network and have Internet access.

Enable HP Web Services using the HP Embedded Web Server

To enable HP Web Services on your printer using the HP Embedded Web Server:

1. Start the HP Embedded Web Server.
2. Select the **HP Web Services** tab.
3. If your company uses a proxy server, click **Web Proxy** from the **Configuration** menu and provide the configuration information. Click **Apply** to complete the configuration.
4. Click **Web Services Setup** from the **Configuration** menu.
5. Click **Enable HP Web Services**. The HP Embedded Web Server contacts the HP ePrintCenter to enable the service. A message is displayed if the process is successful.
6. Review the instruction page for information about how to register using your unique code.

Note: The ePrint system generates a unique email address for your printer that is displayed on the instruction page. (To display the email address, press the **How to Connect** button on the printer control panel.) The local portion of the address is a combination of letters and numbers, followed by the @ sign. The domain name is always hpeprint.com.

Register your printer at the HP ePrintCenter

Use the instruction page to register your printer at the HP ePrintCenter (www.hpeprintcenter.com) using your unique printer code.

Note: The unique code for your printer is valid for twenty-four hours. If you are unable to register in that time, you can create a new code by reprinting the instruction page. (Select the **HP Web Services** tab, and then click **Print Instruction Page**.)

HP ePrintCenter features

After you register your printer, use the HP ePrintCenter to set up advanced security, enable or disable email status messages to authorized users, monitor print queues, and check the status or cancel print jobs.

Reset the HP ePrint email address, temporarily disable ePrint, or remove ePrint

- **Reset email** – To reset your printer's email address, log in to your account at the HP ePrintCenter and select the **Advanced** tab. Click the **Reset** button to obtain a new email address for your printer. (You must manually communicate the new email address to any addresses in the **Allowed Senders** list.)
- **Disable HP ePrint** – To temporarily turn off HP ePrint, start the HP Embedded Web Server, select the **HP Web Services** tab, and clear the **Enable HP ePrint** check box. Your HP ePrint account and printer settings are retained. To enable HP ePrint, select the **Enable HP ePrint** check box.
- **Remove HP ePrint** – To completely remove HP ePrint from your printer, start the HP Embedded Web Server, select the **HP Web Services** tab, and click **Remove**. Removing HP ePrint deletes the printer's HP ePrint settings, and your HP ePrintCenter account, settings, and all printer history.

HP Jetdirect graphical control panel menus

The following table lists the new or modified graphical control panel menu options:

Menu or Sub-Menu Item	Values and Description
Wireless Mode	802.11 wireless mode. B/G_MODE: Use 802.11b or g. B/G/N_MODE (default): Use 802.11b, g, or n.
Wireless Configuration Mode	Indicate whether the printer automatically enters this mode after a cold reset or a reboot. (The printer enters this mode when the HP Jetdirect 2700w Print Server is first installed.) On-Reboot Required Off
How to Connect	Provides connection information, which includes the IP address, Host name, and the printer's ePrint address (email address).