HP Digital Sender Flow 8500 fn2 Document Capture Workstation
Firmware Readme

Product Name(s):

- HP Digital Sender Flow 8500 fn2 Document capture workstation
- Model Number(s): L2762A

This document contains information for the firmware revision number:

Firmware Datecode: 20230202
Firmware Revision: 2411226_066574
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.12.0.1

Description
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Description

This Readme file provides specific installation instructions and other information you should know before you perform a firmware update for your HP Digital Sender Flow 8500 fn2. Installation instructions are provided for single and multiple scanner updates.
This document provides specific update, installation and troubleshooting information. For additional information on the device features refer to the online user guide found on the CD-ROM that came with your scanner, or at hp.com.

What is included in a Firmware bundle?
The HP Digital Sender Flow 8500 fn2 firmware update file available from the hp website contains firmware for the scanner and embedded Jetdirect in one convenient download file. When the firmware upgrade file is sent to the HP Digital Sender Flow 8500 fn2 all device components are upgraded.

Who needs this firmware?
Similar to HP Inc. providing improved software for your Scanner, HP Inc. provides firmware updates for your scanner periodically through its supported lifecycle. A firmware update may be necessary if it is determined that you may benefit from the resolution of any issue that is documented below. These updates are available on the HP support web site.
Determining the current version level of your firmware

To determine the current level of firmware installed on the device:
Go to the Scanjet control panel.

1. Go to the scanner control panel.
2. Swipe left and select the **Reports** application.
3. Select the **Configuration/Status** Pages menu.
4. Select the **Configuration Page** option.
5. Press **View**.

On the displayed Configuration page look in the section marked "Device Information" for the Firmware Datecode and Firmware Revision. The Firmware Datecode and Firmware Revision will look something like this:

Firmware Datecode: 20170624
Firmware Revision: 2401234_012004

IMPORTANT NOTE:

This firmware file requires an interactive update method. You CANNOT update these Product(s)/Model(s) using the traditional FTP, LPR or Port 9100 methods of upgrading. Please use one of the following methods listed below to update the firmware of this device.

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20230202
Firmware Revision: 2411226_066574
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.12.0.1

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ENHANCEMENT:

Base:

- No new updates

Digital Sending:

- No new updates

Security/Authentication:

- No new updates

Embedded JetDirect:

- No new updates

FIXES:

Base:

- A 49.38.03 error may occur when upgrading firmware from FutureSmart 4.10 or newer in certain conditions. This issue has also been fixed in the FutureSmart 5.2 bundle as well.
- Service Access Code gets cleared after setting Service Access Code via Web Jetadmin and configuring other settings like Certificate-Validation-URLs.

Digital Sending:

- No new updates

Security/Authentication:

- No new updates

Embedded JetDirect:

- No new updates

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20230202
Firmware Revision	2411226_066574

Embedded JetDirect	JSI24110061
SCB	xxxxFA2042AR 1.0
HP Fleet Release Designation	FutureSmart 4.12.0.1
MD5 checksum for .bdl file	acd1d5f9b952f0a91d701572bff2025c

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20220824
Firmware Revision: 2411221_066358
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.12

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ENHANCEMENT:

Base:

- No new updates

Digital Sending:

- No new updates

Security/Authentication:

- No new updates

Embedded JetDirect:

- No new updates

FIXES:

Base:

- Statistics Services may not be populating correctly when non-English languages are used.
- Printer may hang when using DSS Workflow to scan back to back jobs.

Digital Sending:

- The "Roller cleaning is recommended" warning message is not able to be cleared from the control panel.
- A certificate may fail to cache properly when scanning to email with encryption.

Security/Authentication:

- The printer may fail to validate the timestamp attached to a solution BDL when using the SHA-384 hashing algorithm.

Embedded JetDirect:

- Self signed cert CN will report model name instead of the hostname.
- The HPCC onboarding process may not complete when multiple errors exist simultaneously on the device.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20220824
Firmware Revision	2411221_066358
Embedded JetDirect	JSI24110061
SCB	xxxxFA2042AR 1.0
HP Fleet Release Designation	FutureSmart 4.12
MD5 checksum for .bdl file	9dbb093f39e5b82e55b85c23ce1569b1

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20220204
Firmware Revision: 2411192_064680
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.11.2.3

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ENHANCEMENT:

Base:

- No new updates

Digital Sending:

- No new updates

Security/Authentication:

- No new updates

Embedded JetDirect:

- No new updates

FIXES:

Base:

- No new updates

Digital Sending:

- No new updates

Security/Authentication:

- No new updates

Embedded JetDirect:

- Updated the network stack.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20220204
Firmware Revision	2411192_064680
Embedded JetDirect	JSI24110052
SCB	xxxxFA2042AR 1.0
HP Fleet Release Designation	FutureSmart 4.11.2.3
MD5 checksum for .bdl file	5faed5a621a8efdf637f2bc5f6646d97

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20210729
Firmware Revision: 2411177_063751
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.11.2.1

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ENHANCEMENT:

Base:

- No New Updates

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- No New Updates.

Digital Sending:

- A 49.38.1B error is seen randomly when performing Send to Network folder jobs.

Analog Fax:

- No New Updates

Security/Authentication:

- An authentication failure will occur due to the URI (Uniform Resource Indicator) that is sent from the web request creator is partial rather than absolute.
- *The Microsoft KB5004238 update (which includes fixes for KB5005408) will cause all smartcard authentications to fail.*

Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:
DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20210729 Firmware Revision: 2411177_063751
Embedded Jetdirect:	JSI24110016
Firmware Bundle Version	FutureSmart Bundle 4.11.2.1
MD5 checksum for .bdl file	5e50063d56419c7426dec890fa21b55f

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20200807
Firmware Revision: 2411097_060482
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.11.0.1

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ENHANCEMENT:

Base:

- Added device level notifications, such as paper out messages, to be displayed in the Workpath notification area.

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- A Workpath app might launch prior to SIO Authentication and storing previous saved credentials in the Cloud Vault.

FIXES:

Base:

- The configured auto-launch application may fail to launch if the user language is changed when signing in.
- Device hangs with a "JetAdvantage Link is Loading" message on the control panel when a kiosk app is uninstalled and then reinstalled without a reboot.
- Workpath based apps may intermittently fail to load due to a boot time race condition.
- Certain Workpath apps may displayed a different time on the home screen when compared to the Date/Time settings within the Embedded Web Server.
- Granted permission may not work properly after upgrading when using certain Workpath apps.

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- LDAP with secure connection fails on server with Channel Binding enabled.

Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20200807 Firmware Revision: 2411097_060482
Embedded Jetdirect:	JSI24110014

Firmware Bundle Version	FutureSmart Bundle 4.11.0.1
MD5 checksum for .bdl file	11a1c508e3976d49e13cae53d2dcd484

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20200205
Firmware Revision: 2410035_055343
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.10.0.1

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ENHANCEMENT:

Base:

- No New Updates – Numerical Fleet Synchronization

Digital Sending:

- No New Updates – Numerical Fleet Synchronization

Analog Fax:

- No New Updates – Numerical Fleet Synchronization

Security/Authentication:

- No New Updates – Numerical Fleet Synchronization

Embedded JetDirect:

- No New Updates – Numerical Fleet Synchronization

FIXES:

Base:

- No New Updates – Numerical Fleet Synchronization

Digital Sending:

- No New Updates – Numerical Fleet Synchronization

Analog Fax:

- No New Updates – Numerical Fleet Synchronization

Security/Authentication:

- No New Updates – Numerical Fleet Synchronization

Embedded JetDirect:

- No New Updates – Numerical Fleet Synchronization

Current firmware revisions included in this firmware bundle:
DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20200205 Firmware Revision: 2410035_055343
Embedded Jetdirect:	JSI24100003
Firmware Bundle Version	FutureSmart Bundle 4.10.0.1
MD5 checksum for .bdl file	0c7672588a7144d0ec17921f94e30eb6

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20191224
Firmware Revision: 2410028_055011
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.10

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ENHANCEMENT:

Base:

- The Import and Export functionally was extended to include more settings: Home Screen, Job apps, Contacts, Accounts and permissions, Energy/sleep, Network, Manage trays and Alert settings.

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- The default setting for "Allow firmware updates sent as print jobs (Port 9100)" has changed to Disabled (previously Enabled).

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- A 49.DE.03 or 49.DE.05 error may occur in a high usage area and an OXP solution is installed.
- Unable to use an Alternate Login when Enable Pre Prompt Check is Enabled for the Default Login Method.
- An "Unknown conflict" warning will appear on the control panel when the Display language is set to Norwegian.
- Signing into the device from the Control Panel takes longer compared to previous releases.
- The PORT command in the Scan to Active FTP mode contains a null IP address.

Digital Sending:

- No New Updates

Analog Fax:

- The left half of the Fax application control panel screen is missing.

Security/Authentication:

- Multiple authentication requests are occurring in the background when Microsoft authentication fails due to bad credentials.
- User group permissions may not work in the Embedded Web Server once an OXPd Authorization Agent is loaded.
- "The network folder path specified does not exist" warning is seen on the control panel when scanning to a shared folder with networks that are not configured with a DNS server.

Embedded JetDirect:

- A Back up and Restore will fail to complete successfully if an administrator first accesses the HP Webservices Smart Cloud Tab within the Embedded Web Server.
- SNMPv3 fails to respond when the device is in a power save mode with certain configuration options being set.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20191224 Firmware Revision: 2410028_055011
Embedded Jetdirect:	JSI24100002
Firmware Bundle Version	FutureSmart Bundle 4.10
MD5 checksum for .bdl file	95971e438fc59ebd76c4b2997dd0f95d

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20191023
Firmware Revision: 2409058_053351
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.9.0.1

ENHANCEMENT:

Base:

- No New Updates

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- Added support for both Whitelisting and Non-Whitelisting for SIO (Sign In Once) Enablement through HP Command Center.

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- No New Updates

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:
DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20191023 Firmware Revision: 2409058_053351
Embedded Jetdirect:	JSI24090014
Firmware Bundle Version	FutureSmart Bundle 4.9.0.1
MD5 checksum for .bdl file	3c18a7e575217c2e16965499f038e175

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20190917
Firmware Revision: 2409048_052924
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.9

ENHANCEMENT:

Base:

- Added the ability to allow the printer to wake from sleep/standby mode when swiping a digital badge on an attached security card reader.

Digital Sending:

- Added support for the Universal Fax Driver which has replaced the legacy PC Send Fax Driver.

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- Increased the number of allowable IPv4 addresses within the Access Control List (ACL) to 20 entries.

FIXES:

Base:

- The wrong keyboard layout is displayed for the Polish language.
- The Custom Control Panel Wallpaper image is erased when upgrading to FutureSmart Firmware Bundle Version 4.8 or 4.8.0.1.
- An Acrobat Reader error may appear on the computer screen when opening a PDF in Acrobat Reader DC if the PDF is generated by an HP Digital Sending application and the media is loaded in the short edge feed direction.
- The Embedded Web Server (EWS) permissions are being grayed out when an OXPd authentication agent proxy is configured.

Digital Sending:

- A user's credentials are being requested a second time when accessing nested subfolders within a Send to Network Folder job.
- The Digital Send file name generated is incorrect when using the device date and time suffix along with the preview option.

Analog Fax:

- No New Updates

Security/Authentication:

- An "Access Denied" error may occur when using a simple hostname in the folder path for the Scan to Folder setup.
- The Authorization Agent registration may fail when the Embedded Web Server (EWS) Access Control "Device Guest" has permissions enabled.

Embedded JetDirect:

- Incorrect characters are displayed on the Network Configuration Page when the control panel is set to Czech or other Latin languages.

Current firmware revisions included in this firmware bundle:
DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20190917 Firmware Revision: 2409048_052924
Embedded Jetdirect:	JSI24090012
Firmware Bundle Version	FutureSmart Bundle 4.9
MD5 checksum for .bdl file	7ecdf3e715897e4754a182770f4da087

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20190614
Firmware Revision: 2408067_049160
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.8

ENHANCEMENT:

Base:

- Added the ability to change the font color and effects to improve readability in Home Screen applications.
- Added the ability to see Faxing and Printing status on the Control Panel while the process is taking place.
- Enabled the following Diffie-Hellman ciphers: DHE-RSA-AES256-GCM-SHA384, DHE-RSA-AES256-SHA256, DHE-RSA-AES256-SHA, DHE-RSA-AES128-GCM-SHA256, DHE-RSA-AES128-SHA256, DHE-RSA-AES128-SHA

Digital Sending:

- Improvements have been made when performing an OCR (optical character recognition) scan within certain types of documents.
- Added the ability to manually adjust the scaling of an ADF scanned image in the feed direction.

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- No New Updates

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- The default settings for the TLS 1.0/TLS 1.1 (Transport Layer Security) protocol changed to Disabled (previously Enabled).
  IMPORTANT NOTE: TLS 1.0 may need to be enabled / re-enabled to be compatible with some HP and 3rd party solutions and legacy web browsers.
- CVE-2019-6334 - Solution application signature checking may allow potential execution of arbitrary code.

Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2	Firmware Datecode: 20190614

Document capture workstation	Firmware Revision: 2408067_049160
Embedded Jetdirect:	JSI24080014
Firmware Bundle Version	FutureSmart Bundle 4.8
MD5 checksum for .bdl file	2282877b0f697cf0ebbcdbbb7bf77da9

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20190116
Firmware Revision: 2407081_000590
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.7.0.1

ENHANCEMENT:

Base:

- No New Updates

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- New security check will prevent installation of non-compliant aftermarket solution bundles. Currently installed solutions are unaffected. Please work with solution providers for an updated signature-compliant version of their software.

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- No New Updates

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:
DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20190116 Firmware Revision: 2407081_000590
Embedded Jetdirect:	JSI24070006
Firmware Bundle Version	FutureSmart Bundle 4.7.0.1
MD5 checksum for .bdl file	eb9d8d69ff042ffb95e6335654271a13

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20181130
Firmware Revision: 2407071_037945
Firmware Bundle Version: FutureSmart Bundle 4.7

Enhancements:

Base:

- Added an option in EWS to remove the job cancel button (red X) on the control panel.
- Added the ability to be able to suppress the Remote Control Panel screen at the control panel.
- Added Job Build functionality for scan jobs without having to use the Image Preview feature.
- Added the ability to Hide or Show the Help Menus on the front control panel.

- Added French and Spanish language support to the HP Accessibility Assistant.
- Added the ability to click on a speed dial entry to directly apply the fax number to the dialling list which will eliminate extra steps needed to complete the task.
- Added the ability to retrieve a network folder path from the contacts application instead of having to type the path in each time for scan to network folder.
- The Network Time Protocol server setting within the Embedded Web Server will no longer get auto deleted when the server cannot be reached after a few days.
- Added support to resolve "CWE-693 Protection Mechanism Failure" by providing "Strict-Transport-Security", "Content-Security-Policy" and "X-Content-Type-Options" HTTP security header support.

Digital Sending:

- Added the ability to perform a Book Scan Mode for Digital Sending which is similar to the copy feature already present.
- Added the ability to perform 2-sided ID scans from within the Scan Mode menu for Embedded Digital Sending.

Jetdirect:

- No New Updates

Authentication and Security:

- No New Updates

Fixes:

Base:

- CVE-2015-9251: jQuery before version 1.12.0 and 3.0.0 may be vulnerable to Cross-site Scripting (XSS) attacks.
- CVE-2018-5923 - Solution application signature checking may allow potential execution of arbitrary code.

Digital Sending:

- No New Updates

Jetdirect:

- No New Updates

Authentication and Security:

- No New Updates

Current firmware revisions included in this firmware bundle:

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20181130 Firmware Revision: 2407071_037945
Embedded Jetdirect:	JSI24070006
Firmware Bundle Version	FutureSmart Bundle 4.7
MD5 checksum for .bdl file	2441ab5acf6c464a9d40382b8aa0fb88

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20180510
Firmware Revision: 2406048_029623
Firmware Bundle Version: FutureSmart Bundle 4.6.0.1

Enhancements:

Base:

- Added ability to configure, through permissions on the EWS access control page, to force a sign in before any functionality can be accessed. This is done by restricting the guest user from being able to access all items in the list. When a product has been configured this way, users need to sign in before the home screen will display.
- Improvements made to reduce the occurrence of System Busy message seen during Digital Send and Copy jobs.
- Added a status popup on UI with "cancel" button while waiting for the quota server to respond.
- Added support for HP Accessibility Assistant Accessory

Digital Sending:

- Added an option to block the creation of custom quickset.

Jetdirect:

- Added patch method for SNMP configuration.
- Updated certificates for Google Cloud Print.

Authentication and Security:

- No New Updates

Fixes:

Base:

- Improvements made to the Address Book performance.
- Fixed a defect where device may not wake up from sleep after sleeping for a long period of time. Control panel will be dim and unresponsive.
- On the initial setup screen the Time Zone drop down menu has been placed before the selection for the Hours:Minutes.

Digital Sending:

- No New Updates

Jetdirect:

- No New Updates

Authentication and Security:

- Removed individual sign-in methods for the Embedded Web Server (EWS) permissions in the Access Control page under the Security tab in the embedded web server. These controls offered no advantage since access is determined by the initial sign-in to the embedded web server. The default sign-in method for the EWS remains if wanting to change the sign-in prompt to for example request Windows or LDAP authentication instead.
- Fixed a PJL directory traversal issue that allows read-only access to the root directory.

Current firmware revisions included in this firmware bundle:

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20180510 Firmware Revision: 2406048_029623
Embedded Jetdirect:	JSI24060004
Firmware Bundle Version	FutureSmart Bundle 4.6.0.1
MD5 checksum for .bdl file	5916956ec8aaf7648eb923376bb3b647

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20171208
Firmware Revision: 2405135_000408
Firmware Bundle Version: FutureSmart Bundle 4.5.0.1

Enhancements:

Base:

- No New Updates

Digital Sending:

- No New Updates

Jetdirect:

- No New Updates

Authentication and Security:

- No New Updates

Fixes:

Base:

- No New Updates

Digital Sending:

- No New Updates

Jetdirect:

- No New Updates

Authentication and Security:

- This firmware disables the "TFTP Configuration File" setting to prevent unauthorized device resets.
- This firmware addresses the following security issues: CVE-2017-13077: Reinstallation of the pairwise encryption key (PTK-TK) in the 4-way

handshake. CVE-2017-13078: Reinstallation of the group key (GTK) in the 4-way handshake. CVE-2017-13079: Reinstallation of the integrity group key (IGTK) in the 4-way handshake. CVE-2017-13080: Reinstallation of the group key (GTK) in the group key handshake. CVE-2017-13081: Reinstallation of the integrity group key (IGTK) in the group key handshake.

Current firmware revisions included in this firmware bundle:

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20171208 Firmware Revision: 2405135_000408
Embedded Jetdirect:	JSI24050147
Firmware Bundle Version	FutureSmart Bundle 4.5.0.1
MD5 checksum for .bdl file	c71774a45b5178b859e3303de29a3fad

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20171006
Firmware Revision: 2405087_018553
Firmware Bundle Version: FutureSmart Bundle 4.5

Enhancements:

Base:

- Added two new features to improve the private and usability of retrieving stored jobs. Administrators can define what users first see when entering the "Retrieve from Device Memory" application. Administrators have a new setting in the embedded web server under “Security" [Tab] -> "Protect Stored Data" [Menu] -> “Managed Stored Jobs" [Section] called "Behavior when users are authenticated. If "Assist users to their jobs" is selected, users entering the application will immediately see their jobs provided a folder exists by their username (default behavior in the print driver when sending jobs). Administrators will also note a new permission that is not activated by default in the embedded web server under “Security" [Tab] -> "Access Control" [Menu] -> "Sign In and Permission Policies" [Section] -> "Open from Device Memory application" [Control Panel Permission] for "Other Users' Jobs and Folders". If removing the permissions (e.g. for "Guest" and "Device User") a regular user will only be able to see their or guest jobs.
- Added support for Chinese, Japanese, Korean keyboards.

- Detailed status on the state of job is shown in Job Details for Active Jobs and Completed jobs.
- Added functionality wherein users will be prevented from creating a one-touch Quick Set that cannot be started because the Quick Set does not have everything needed to start the job saved in the Quick Set.

Digital Sending:

- User prompted to add contacts when sending to an email address not already stored in contacts list.
- Added a usability improvement for customers using certain pull print & authentication solutions (such as HP Access Control) which populate the username, domain & home folder path as attributes. In these environments if the user pre-authenticates with their badge (taps first) before entering a Save to Network Folder application quick set configured with Personal Share & verify access, the device will only require the user's password.
- End users now have the ability to browse network folders from the Send to Network Folder application for CIFS and DFS connections (but not FTP) provided they have "Ability to edit the network folder path" enabled by their network administrator.
- Added Email Domain Restriction feature which allows the administrator to restrict the e-mail addresses that can be used in scan to Email jobs (To/Cc/Bcc) and e-mail job notifications, by restricting the domains to which emails can be sent.

Jetdirect:

- No New Updates

Authentication and Security:

- Secure by Default Initiative: This firmware introduces updated security settings defaults to increase out-of-box security and reduce the device security attack surface. The updated security settings and defaults are:

    - SNMPv1/v2: Read-only access (previously Read-write access)
    - PJL/PS File System Access Settings: Disabled (previously Enabled)
    - PJL Device Access Commands: Disabled (previously Enabled)
    - Encryption Strength: RC4 and 3DES cipher suites Disabled (previously Enabled)
    - Minimum password Length and Complexity: Enabled (new FutureSmart 4 feature)
    - Administrative password Lockout: Enabled (new FutureSmart 4 feature)

- Cross-Site Request Forgery Prevention: Enabled (new FutureSmart 4 feature)

Note:

- Updating to this firmware version from FutureSmart 3 bundles or FutureSmart 4 bundles before version 4.5 will not update the security settings to the new defaults. Performing a Reset Factory Settings, Format Disk or Partial Clean command will update the security settings to the new defaults, overwriting any previously configured setting.
- Devices with FutureSmart 4.5 out-of-the-box, or upgraded FutureSmart 4.5 devices which have been factory reset, will have new security standards, such as SNMPv1/v2 set to read-only. In order to be able to configure those devices HP Web Jetadmin 10.4r2 with FP6 or higher is required. FP6 and HP Web Jetadmin 10.4SR3 (bundled with FP6) will be released end of November 2017.

- HP Connection Inspector is a new embedded security feature that detects a network attack using DNS Network Anomaly Detection algorithms. It ensures that devices are not trying to connect to Malware Command and Control Centers on the Internet. When a Network Anomaly is detected the device will enter a DNS protected mode preventing unknown DNS requests. If certain parameters are exceeded, it will reboot the device to a known good condition, and provides alert notifications which can be monitored by Security Information Event Management applications, including HP ArcSight and SPLUNK.

Fixes:

Base:

- Incorrect Chinese localization for the Embedded Web Server Email and Scan to Folder Quick Setup Wizards
- If any of the guest access controls for control panel functions are modified while the product is asleep, the setting now takes effect on wake-up without having to press reset manually.
- You may see a 49.DE.01 when accessing Quicksets on the front control panel.
- Not able to save Moscow as your time zone within the EWS or Control Panel.
- Fixed an issue with guest user permissions during address book import/export operation.

Digital Sending

- Fixed email quicksets with "Start instantly when selected from the Home Screen" where "At least one of the following is required: To, CC or BCC" was appearing unexpectedly if using the "User's address (sign-in required)".

This message should no longer appear provided the user's sign in information is complete.

- Folder Path invalid error is seen when folder path has a leading "/".
- A 49.38.03 error is seen when adding a contact to the local address book using the prompt after sending an email using DSS.
- Passwords are typically not included in the user's badge for badge authentication nor conveyed in the solution itself (e.g. when using HP Access Control and other pull print solutions). The Save to Network Folder application often is configured to use the user's credentials to connect to the folder path (e.g. saving to the user's home directory). It cannot do so without the user's password. In FutureSmart 3.7.3 and later, HP added a feature to prompt for the password more intelligently for the Save to Network Folder application. This feature was added to FutureSmart 4 as well, but some improvements were required for the new UI to prompt for all configurations correctly (whether using regular shared folders, personal folders or the %HOME_FOLDER% macro for the folder path in shared folders) as well as cases where verify access is disabled (not recommended).

Jetdirect:

- No New Updates

Authentication and Security:

- No New Updates

Current firmware revisions included in this firmware bundle:

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20171006 Firmware Revision: 2405087_018553
Embedded Jetdirect:	JSI24050126
Firmware Bundle Version	FutureSmart Bundle 4.5
MD5 checksum for .bdl file	531246d0223846fca696fa01c68c7eef

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20170728
Firmware Revision: 2403754_013590
Firmware Bundle Version: FutureSmart Bundle 4.4

Enhancements:

Base:

- No New Updates -- Original Release

Digital Sending:

- No New Updates -- Original Release

Jetdirect:

- No New Updates -- Original Release

Authentication and Security:

- No New Updates -- Original Release

Fixes:

Base:

- No New Updates -- Original Release

Digital Sending:

- No New Updates -- Original Release

Jetdirect:

- No New Updates -- Original Release

Authentication and Security:

- No New Updates -- Original Release

Current firmware revisions included in this firmware bundle:

COMPONENT	FIRMWARE VERSION
HP Digital Sender Flow 8500 fn2 Document capture workstation	Firmware Datecode: 20170728 Firmware Revision: 2403754_013590
Embedded Jetdirect:	JSI24r40002
Firmware Bundle Version	FutureSmart Bundle 4.4

No Previous Releases -- Original Version

Installation Instructions

NOTE: Please be aware that an update in some circumstances may require 10 minutes or more to complete.

You can send the firmware update to a device at any time; the device will wait for all I/O channels to become idle before cycling power.

Please view a configuration page prior to performing any firmware update.
To view the configuration page:

1. Go to the scanner control panel.
2. Swipe left and select the **Reports** application.
3. Select the **Configuration/Status** Pages menu.
4. Select the **Configuration Page** option.
5. Press **View**.

On the displayed Configuration page look in the section marked "Device Information" for the Firmware Datecode and Firmware Revision. The Firmware Datecode and Firmware Revision will look something like this:

Firmware Datecode: 20170624
Firmware Revision: 2401234_012004

The elapsed time for an update depends on the I/O transfer time as well as the time that it takes for the scanner to reinitialize. The I/O transfer time depend on the speed of the host computer sending the update and the I/O method (USB or network).
The re-initialization time will depend on the specific hardware configuration of the scanner. Finally, any scan jobs ahead of the firmware job in the queue will be processed before the update is processed.

NOTE: When the update process has completed the Scanjet will need to be rebooted. Once the scanner is back online, view the Configuration Page and verify that the new firmware has been installed.

Additional information to know

The firmware file will be in the following file format "xxxxxxx.bdl" where "xxx" indicates the firmware file name and the ".bdl" is the files extension.
This file requires an interactive update method. You cannot update the scanner using the traditional FTP, LPR or Port 9100 methods of upgrading. Please use one of the following methods listed below to update the firmware of this device.

How to perform firmware upgrades.

Embedded Web Server: (control panel is at a Ready screen)

After uncompressing the file you will see a xxxxxxx.bdl file.

1. Open an Internet Browser Window.
2. Enter the IP address in the URL line.
3. Select the Firmware Upgrade link from within the Troubleshooting or General tabs.
4. Select Choose File and browse to the location that the firmware upgrade file was downloaded to, and then select the firmware file.
5. Select the Install button to perform the upgrade.

NOTE: Do not close the Browser Window or interrupt communication until the Embedded Web Server displays the Confirmation Page.

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6. The scanner will automatically reboot unless you are downgrading. If downgrading
   Firmware you will be prompted to select the Rollback option

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NOTE: Please be aware that an update in some circumstances may require 10 minutes or more to complete.

Once the scanner is back online, view a Configuration Page and verify that the new firmware has been installed.

Pre-Boot walk-up USB thumb drive: (control panel Pre-Boot menu)

NOTE: Only to be used if the scanner is not able to boot to READY

After uncompressing the file you will see a xxxxxxx.bdl file.

1. Copy the xxxxxxx.bdl file to a portable USB flash memory storage device (thumb drive).

   NOTE: USB Flash Drives that are not in a Fat32 format or having a CD formatted partition may not be recognized by the scanner You may need to try a different USB flash drive.

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2. Turn the scanner ON.
3. Press the **HP** logo in the middle of the screen when you see the "**1/8**" under the logo.
4. Press the Down arrow to highlight **Administrator**, and then press OK.
5. Press the Down arrow to highlight **Download**, and then press OK.
6. Insert the portable USB storage device with the xxxxxxx.bdl file on it.
7. Press the Down arrow to highlight **USB Thumbdrive**, and then press OK.

8. Press the Down arrow to highlight the xxxxxxx.bdl file, and then press OK.

NOTE: Please make sure the firmware file is located in the root directory of the flash drive. If you have more than one .bdl file on your USB flash drive, select the file you want loaded and press OK.

Please be patient since this may take up to 10 minutes to complete.

9. When the message **Complete** appears on the control panel display, power cycle the scanner.
10. The scanner will start the upgrade process and will continue to boot to the Ready state.

NOTE: Please be patient since this may take up to 10 minutes to complete.

Once the scanner is back online, view a Configuration Page and verify that the new firmware has been installed.

Walk-up USB thumb drive: (Standard control panel menu)

After uncompressing the file you will see a xxxxxxx.bdl file.

1. Copy the xxxxxxx.bdl file to a portable USB flash memory storage device (thumb drive).

NOTE: USB Flash Drives that are not in a Fat32 format or having a CD formatted partition may not be recognized by the scanner. You may need to try a different USB flash drive.

2. Turn the scanner ON.
3. Swipe to the left and select the **Support Tools** application.
4. Select the **Maintenance** menu
5. Select the **USB Firmware Upgrade** menu.
6. Insert the portable USB storage device with the xxxxxxx.bdl file on it into the USB port on the front control panel of the product.
7. Select the xxxxxxx.bdl file you would like to use.

NOTE: If there is more than one xxxxxxx.bdl file on the storage device, make sure that you select the correct file for this product.

8. Select the **Install** button on the bottom of the screen.
9. Select the **Upgrade, Re-install or Downgrade** option depending on the task you are performing. The firmware upload process will begin.

When the upload is complete, the scanner will reboot automatically and start the upgrade process.

NOTE: The upgrade process may take up to 10 minutes to complete. Please do not interrupt the updating process.

Once the scanner is back online, view a Configuration Page and verify that the new firmware has been installed.

Web Jetadmin (Supported with version 10.4 SR3 with FP4 or newer)

Please visit www.hp.com and type "Web Jet Admin" in the "Search" Box to find more information about new releases of Web Jetadmin and the release note information for those releases.

Upgrading Firmware:

1. Start Web Jetadmin 10.4 SR3 with FP4 or newer
2. From the "Device Management" section, select "All Devices" (or the appropriate device group). An "All Devices" list will appear in the center window.
3. Find your device in the list, or type the IP address of the device in the Quick Device Discovery section in the lower-left of the screen (this will highlight your device in the device list). You can sort the device list by clicking on a column name at the top.
4. If your device list is sorted my model number, you may select multiple devices with the same model number by Control-Click or Shift-Click.
5. Right-click on the device and select "Upgrade firmware…".
6. An Upgrade Firmware window will appear. Select "Device firmware" and click "Next"
7. A list of available firmware will appear. If the correct version is listed, click "Next", and the upgrade process will start.

NOTE: If the correct firmware version does not appear within the list, you will need to manually upload it into WJA. New firmware may be available on an FTP site prior to appearing on hp.com. The instructions below allow you to upload a firmware file from your local PC to WJA 10.4 SR3 with FP4 or newer

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Uploading new firmware files into WJA:

1. Click on "Firmware/Firmware Repository" in the "Device Management" pane
2. A "Firmware Repository" window will appear in the center of the screen
3. Click on "Upload" in the upper-right of the window
4. Browse to the .bdl file on your local PC
5. Click "Upload"
6. Once the .bdl file is uploaded, go back to step 2 in the first section and complete steps 2 through 6.

NOTE: Do not turn scanner off during the update process! When the update process is complete, the scanner will automatically reboot. If the firmware update process fails, Web Jetadmin will provide notification with a page (screen) of information regarding the reason(s) for failure. A link will be provided to attempt the process again.

System Requirements

The Firmware upgrade process requires a network or USB port connection.

Technical Assistance
Some of the services below are provided for the United States only. Similar services to those listed below are available in other countries. See your scanner's user guide or call your local authorized HP dealer.

Customer Support
See your scanner's user guide or call your local authorized HP dealer.

Internet
An anonymous FTP library service is available worldwide for around-the-clock-access to drivers and technical support information for HP peripheral and computer products. Please note that paths may change without notice. Access the Internet or FTP address and use the menus to locate the software or support of your choice.

URL for HP Digital Sender Flow 8500 fn2 Document capture workstation Support:

URL for Support:
www.hp.com/go/DSFlow8500fn2

URL for Access HP: http://www.hp.com
FTP address: ftp.hp.com
Login: anonymous
Password: your Internet email address

Additional Information
Refer to your scanner's user guide for additional methods of obtaining software and support information, such as online services, fax services, and other online support.

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