

HP COLOR LASERJET ENTERPRISE MFP M681 and M682 SERIES Firmware Readme

Product Name(s):

- HP Color LaserJet Enterprise MFP M681dh
- HP Color LaserJet Enterprise MFP M681f
- HP Color LaserJet Enterprise Flow MFP M681f
- HP Color LaserJet Enterprise Flow MFP M681z
- HP Color LaserJet Enterprise Flow MFP M682z
- **Model Number(s):** J8A10A • J8A11A • J8A12A • J8A13A • J8A17A

This document contains information for the firmware revision number:

Firmware Datecode: 20230202

Firmware Revision: 2411226_066607

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.12.0.1

Description

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Legal Statements

- Trademark Notices
- OPEN-SOURCE SOFTWARE LICENSE AGREEMENTS (In English)
- License and Copyright

Description

This Readme file provides specific installation instructions and other information you should know before you perform a firmware update for your HP LaserJet Series printer or MFP. Installation instructions are provided for Single and Multiple Printer 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 Windows Printing System Installer CD-ROM that came with your printer or at hp.com.

What is included in a Firmware bundle?

The HP LaserJet printer firmware update file available from the HP web site contains firmware for the printer, embedded JetDirect (if applicable), HP paper handling accessories used with the device in one convenient download file. When the Remote Firmware Upgrade file is sent to the HP LaserJet Printer or MFP firmware for the engine and all connected accessories are upgraded.

Who needs this firmware?

Similar to HP Inc. providing improved software for your HP LaserJet Printer or MFP, HP Inc. provides firmware updates for your printer 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 printer's or MFP's control panel.

1. Go to the printer's control panel.
2. Swipe left and select the **Reports** application.
3. Select the **Configuration/Status Pages** menu.
4. Select the **Configuration Page** option.
5. Select the **Print**.

On the printed 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: 20170331

Firmware Revision: 2403298_006039

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_066607

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.12.0.1

For information on HP Security Bulletins addressed by firmware releases, please visit: <https://support.hp.com/security-bulletins>

To initiate a subscription to receive future HP Security Bulletin alerts via email, visit: <https://www.hp.com/go/alerts>

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:

- 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

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
Firmware Datecode	20230202
Firmware Revision	2411226_066607
Embedded JetDirect	JSI24110061
DC Controller Version	7.149
SCB	xxxxFA2042AR 1.0
Fax 500/600 Series	Ver11.4A
Fax 700 Series	CSF.088.03.221027.00.XXXX,BSP.30221026
HP Fleet Release Designation	FutureSmart 4.12.0.1
MD5 checksum for .bdl file	d32a271f82129b82c24a96fbe774ccd5

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_066368

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.12

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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:

- A 49.4A.04 error may occur when printing a PDF file with the MacOS AirPrint driver.
- An automatic trigger was created for the FIH (Foreign Interface Harness) enablement with non-MICR sensor.
- A 49.38.13 error may occur when many PCL 5 print jobs are sent to a device in a short period of time.
- A 49.4A.04 or 49.38.03 error may occur when performing a Direct to PDF print job.
- The print job may not complete when printing certain PS files.
- 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.

Analog Fax:

- A discrepancy counting Fax 'Monochrome' vs. 'Total' may occur on the page counts/equivalent impressions.

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.
- A printURI job may get terminated when a TCP/IP Idle timeout occurs.
- 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_066368
Embedded JetDirect	JSI24110061
DC Controller Version	7.149
SCB	xxxxFA2042AR 1.0
Fax 500/600 Series	Ver11.4A
Fax 700 Series	CSF.069.00.200211.00.XXXX,BSP.23171015
HP Fleet Release Designation	FutureSmart 4.12
MD5 checksum for .bdl file	2841675409c7cba1024ccc64a121cc0f

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_064686

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.11.2.3

For information on HP Security Bulletins addressed by firmware releases, please visit: <https://support.hp.com/security-bulletins>

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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:

- A 42.26.00 error may occur when printing certain PDF files with the MacOS AirPrint driver.

Digital Sending:

- No new updates

Analog Fax:

- 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_064686
Embedded JetDirect	JSI24110052
DC Controller Version	7.149
SCB	xxxxFA2042AR 1.0
Fax 500/600 Series	Ver11.4A

Fax 700 Series	CSF.069.00.200211.04.0607,BSP.23171015
HP Fleet Release Designation	FutureSmart 4.11.2.3
MD5 checksum for .bdl file	e3c5be087d946a7debb920071a57b7

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_063750

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.11.2.1

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To initiate a subscription to receive future HP Security Bulletin alerts via email, visit: <https://www.hp.com/go/alerts>

ENHANCEMENT:

Base:

- Printer will no longer enter into a deep sleep state when a USB accessory is connected to the printer. This will help with the USB accessories not being able to re-initialize when the printer wakes up from sleep mode.

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.*
- Added recovery functions for TPM error condition 33.04.05 Unknown TPM

Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20210729 Firmware Revision: 2411177_063750
Embedded JetDirect	JSI24110016
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.11.2.1
MD5 checksum for .bdl file	1fb1dfde2a93d850d319fc98c0ebd597

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_060480

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.11.0.1

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<https://www.hp.com/go/alerts>

ENHANCEMENT:

Base:

- Added device level notifications, such as paper out messages, to be displayed in the Workpath notification area.
- Added support for both the HP and Honeywell barcode reader to allow input text at the control panel by reading a barcode.

Digital Sending:

- No New Updates

Analog Fax:

- Added support for Mixed Originals for fax job with pages longer than 15 inches in length.

Security/Authentication:

- The Embedded Web Server Security Log now provides access to device generated Syslog event information. The log stores all generated syslog event messages to an internal file that can be exported from the device EWS Security page.
- Added support for the HP Smartcard NIPRNet Solution for US Government to now authenticate automatically using the Signature or PIV-Authentication certificate. The preferred certificate for authentication is configured using the Prefer-GSC-IS over PIV card setting.

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- Jobs may not get duplexed when media is loaded short edge feed in certain cases.
- The Date and Time stamp within the Service Event logs can be different compared to the actual time, depending upon the time zone the printer is set to.

- The device status of "Printer is low on toner/ink" displays in the Window's printer spooler when a long-life consumable, such as an image drum or fuser, is in a low status.
- Scanning from 3rd Party TWAIN application takes longer than expected.
- A 49.2F.D8 error may occur in certain conditions when printing some PDFs.
- When using the physical keyboard a press of the "Z" key will populate the screen with a "y" in the email field when using the Polish language.
- 49.4A.04 error may occur intermittently when printing from certain types of customized applications.
- A 49.DE.05 may occur when HPAC OXP is used in heavy volumes.
- Some media type strings are displayed incorrectly in Japanese language.
- The device may stop processing groups of mixed copy/print jobs when Serverless Job Accounting/Local Quota is enabled.
- The configured auto-launch application may fail to launch if the user language is changed when signing in.
- If an export file is created with the Import/Export feature where the "Local quota and job accounting settings" is checked and the "Local Quota" setting in the Embedded Web Server (EWS) is disabled (EWS > General > Quota Settings > Local Quota) then the "Local Quota" setting in the EWS will no longer be available in the EWS after the import.
- A device administrator may be unable to access secured Embedded Web Server features when a third-party Authorization proxy is registered.
- A "Copier disabled. Check copy control device" message appears on control panel when a FIH accessory is connected, but insufficient copy credits are available.
- Card Reader may fail after a power cycle and will require the device to be registered again before it works.
- 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.
- Japanese Localization for "Retry the Job" is incorrect for email notification.
- A 49.4A.04 error may occur when printing certain types of PostScript files.
- 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.
- The Job Log does not display the full name of a Printed job.

Digital Sending:

- The Digital Send file name generated is incorrect when using the device date and time suffix along with the preview option.
- The "Send test Email" function of the Control Panel Setup for Scan to Email always fails with "SMTP Gateway not responding" when an SSL/TLS connection on port 465 is configured.
- Scan to Email will not work when using an Amazon email server.

Analog Fax:

- Sending 3 or more continuous IP fax jobs may result in a Communication Error.
- Incoming faxes fail to connect after being answered by the MFP.
- Fax speed dials with pauses (,) in the fax numbers cannot be restored after being exported.
- Unable to block fax numbers with spaces and hyphen.

Security/Authentication:

- Uses NTLM for authentication when SmartCard authentication is specified.
- Scan to folder is sending unsigned packets when the server sets the "Signing Enabled" flag.
- An intermittent 33.05.18 Security Alert may occur during a device power cycle.
- The HPAC app may launch prior to SIO Authentication and storing previous saved credentials in the Cloud Vault.
- LDAP with secure connection fails on server with Channel Binding enabled.
- Scan to DFS Folder may stop working, but may recover if enough time passes or printer is rebooted.
- In a network trace there will be no Tree Connect after successful Session Setup packet when scanning to a DFS folder.
- A corresponding Event Log entry is not created when a Syslog event message is sent for a Potential Intrusion Detection event.
- When scanning to a DFS share, a network trace shows "Bad network name" response to Tree Connect packet.

Embedded JetDirect:

- The device may become unresponsive in the morning or after long idle periods which will require a power cycle.
- The Current Settings page when printed in the Polish language is using incorrect structure and words.
- The connection screen in Polish language is not localized correctly.
- Web JetAdmin and HP Security Manager can't remediate SNMPv1/2 credentials when WiFi Direct is enabled.
- The Remote Control Panel feature will not load properly when using a Remote Embedded Web Server session over a Cloud Connected, Virtual JetAdvantage Management Connector (VJAMc), device.
- The device is unable to make a connection to HP Command Center even though the printer is online.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20200807

	Firmware Revision: 2411097_060480
Embedded JetDirect	JSI24110014
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.11.0.1
MD5 checksum for .bdl file	26db8f0aba3b14628d7cba2ea79d43a9

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_055369

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.10.0.1

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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:

- Several PrintMarkerStatus supply OIDs are missing after upgrade to FutureSmart Firmware Bundle version 4.10.

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 COLOR LASERJET M68x SERIES	Firmware Datecode: 20200205 Firmware Revision: 2410035_055369
Embedded JetDirect	JSI24100003
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.10.0.1
MD5 checksum for .bdl file	04aa622e926815e46bc0ee3f9f747244

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_055026

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.10

For information on HP Security Bulletins addressed by firmware releases, please visit: <https://support.hp.com/security-bulletins>
To initiate a subscription to receive future HP Security Bulletin alerts via email, visit: <https://www.hp.com/go/alerts>

ENHANCEMENT:

Base:

- Import and export functionality was extended to include more settings: Home Screen, Job apps, Contacts, Accounts and permissions, Energy/sleep, Local quota and Job accounting settings, and Manage trays 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:

- Added the SLP keep alive setting to the Embedded Web Server's Networking Settings menu.

FIXES:

Base:

- Unable to use an Alternate Login when Enable Pre Prompt Check is Enabled for the Default Login Method.
- Monochrome print jobs may not be restricted properly based upon the available quota credits when the Local Quota Service is enabled.
- JetAdvantage Link Apps are presented to the user in the incorrect language when device language is set to Norwegian.
- An "Unknown conflict" warning will appear on the control panel when the Display language is set to Norwegian.
- Incorrect localization with Expert Copy screens.

- Slower than expected print speeds may occur when printing PDF files at 1200dpi with the HP Universal Printer Driver PostScript.
- A "LOCALIZATION ERROR" occurs after upgrading from FutureSmart 3 and changing any setting within the Embedded Web Server's Copy/Print>Default Print Options menu.
- The device status of "Printer is low on toner/ink" displays in the Window's printer spooler when a long-life consumable, such as an image drum or fuser, is in a low status.
- The Home button does not work when a Workpath application is installed.
- The PORT command in the Scan to Active FTP mode contains a null IP address.
- The Print List button to print a list of all the stored jobs is translated incorrectly in German.

Digital Sending:

- No New Updates

Analog Fax:

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

Security/Authentication:

- 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 COLOR LASERJET M68x SERIES	Firmware Datecode: 20191224 Firmware Revision: 2410028_055026
Embedded JetDirect	JSI24100002
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher	ED01.17 01.17

Mailbox	
HP Fleet Release Designation	Original Release FutureSmart 4.10
MD5 checksum for .bdl file	be82d296985df4a3c8ff9c8335a90715

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_053367

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:

- A 49.DE.11 error may occur when retrieving a stored job when the "Assist users to their job" setting is enabled.

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 COLOR LASERJET M68x SERIES	Firmware Datecode: 20191023 Firmware Revision: 2409058_053367
Embedded JetDirect	JSI24090014
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.9.0.1
MD5 checksum for .bdl file	f5b17668772ca68ee2eec339f72400ec

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:

Firmware Datecode: 20190916

Firmware Revision: 2409048_052905

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.9

ENHANCEMENT:

Base:

- Added the ability to process Print, Copy, Scan and Stored jobs simultaneously when Serverless Job Accounting is enabled.
- Added a "Grand Total" row on the Usage Page to sum up the Print, Copy and Fax Equivalent Impressions for Letter/A4 pages.
- Job Accounting performance improvements have been made which modifies the database to return the records in a "Last-In-First-Out" (LIFO) format.
- Added the ability to allow the printer to wake from sleep/standby mode when swiping a digital badge on an attached security card reader.

- Added the ability to schedule a restart under the Embedded Web Server (EWS) Troubleshooting menu to allow users to restart a device at a specific time and frequency.

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 Copy, Scan or Print functionality may still be accessible while a user is signing out of the device.
- The Image Preview is not displayed when retrieving stored print jobs from the device control panel.
- Certain PDF files may print slowly, when printed directly via USB, the Embedded Web Server, or other direct-print workflows.
- Certain PDF files may print slower than anticipated from the Apple Preview application using the Apple Airprint driver in macOS 10.13 and macOS 10.14.
- Personal Jobs can be retrieved multiple times when using an Encrypted Password.
- 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.
- A 49.DE.15 low memory error may occur due to a caching issue when logging In and Out of some third party solutions.
- 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:

- The first incoming fax after a reboot may not get answered.

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.
- Slow printing may occur when performing direct-PDF printing and when printing certain file types within the Macintosh environment.
- Pages may be missing and not printed when IPP/IPPS jobs are sent in rapid succession.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20190916 Firmware Revision: 2409048_052905
Embedded JetDirect	JSI24090012
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.9
MD5 checksum for .bdl file	34abfd4717677de4a7e3acc58edbe2bf

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:

Firmware Datecode: 20190701

Firmware Revision: 2408071_000205

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.8.0.1

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:

- HP Jet Advantage Link Applications do not launch properly and a "Failed to get device token. Please enable HP Web Services on EWS" error message will be displayed on the device control panel.

Digital Sending:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- 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 COLOR LASERJET M68x SERIES	Firmware Datecode: 20190701 Firmware Revision: 2408071_000205
Embedded JetDirect	JSI24080017
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.8.0.1
MD5 checksum for .bdl file	96899b4adc8911f7debf6a4e23790eb3

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_049166

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.8

ENHANCEMENT:

Base:

- Added a recursive query to get all the user members from a group to provide sub groups Permission Set.
- Added the ability to change the font color and effects to improve readability in Home Screen applications.
- Added functionality that would restrict an end user from entering the copy application without credits when using a FIH (Foreign Interface Harness) solution.
- Added the ability to see Faxing and Printing status on the Control Panel while the process is taking place.
- Added new naming formats of the scanned file in Scan to Network folder (%DEVICE_HOSTNAME_PQDN%, %DEVICE_DATE_YYMMDD%)
- Added support for the HP Custom Color Manager Software tool. The tool provides color management capabilities to optimize color printing to better match customer's needs.
- Added support for installation and management of the JetAdvantage Link platform and applications.
- 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:

- Added the ability to manually adjust the scaling of an ADF scanned image in the feed direction.

Analog Fax:

- No New Updates

Security/Authentication:

- Added middleware support for SafeNet AT SC650 v4.1t smartcard.

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- Entering a PIN number for a stored job will unlock stored Jobs of another user with the same PIN number.
- Printer may hang when MPI IPDS printing.
- The Cancel button is not correctly notifying authentication solutions at sign-in when user presses the cancel button.
- Copying Legal sized media may get clipped when using the Copy Client from OXPd 1.8.
- Jobs may not get duplexed when media is loaded short edge feed in certain cases.
- Job is cancelled after swiping badge and logging out immediately after scan completes.
- Grayscale images print lighter when printing with the XC cartridge.
- HP Web JetAdmin might not be able to correctly identify the printer within its firmware repository.
- The pin field pops up on the control panel after a card is inserted with certain Smartcard solutions.
- Certain color PDF documents do not print correctly when using the UPD driver.
- When printing certain PDF files, the printer may output random characters or the actual PDF print code rather than the PDF file as expected.
- An Incorrect file name will appear in the Metadata XML file when performing a Send to Network Folder job.
- Jobs get cancelled immediately instead of waiting for the inactivity timer if the menu item "Delete job on unattended errors" is enabled.
- Not able to log in to the printer if the Sign in button is pressed before using a card authentication method.

- Barcodes are not printed properly in some documents during direct PDF printing.
- An Empty keyboard screen appears after an user authentication is initiated by pressing the "Number of Copies" field of the Copy application button in the device home screen.
- An incorrect translation occurs when registering your device to the Google Cloud Print server.
- LDAP access requests using SSL with CA certificates fail.
- The Expert Copy feature has been temporarily disabled for an user experience redesign and will be reenabled in a future firmware release.

Digital Sending:

- Text highlighting is incorrectly displayed when searching for text in scanned PDFs with OCR.
- Only 10 email addresses are visible when selecting an email group.

Analog Fax:

- Cannot create a fax speed dial within the Embedded Web Server when signed in as a Device User even though the Access Control menu has given permission to the Device User accounts.
- Fax logs are not clearing properly when using a Web JetAdmin template to delete the fax activity log.
- Fax send jobs are stuck in the active jobs queue with some failing with communication error 200.
- 'Internal fax' is misspelled as 'Internet fax' when using the Japanese control panel language.

Security/Authentication:

- Unhandled exception causes device to crash with 49.38.07 error immediately after Windows authentication.
- A 49.38.1B error may occur when using an invalid\offline HTTPS Device Alert endpoint.
- Safenet AT SC650 v4.1 card Smart Card: unique provisioning method prevents the middleware from finding the certificates.
- A CA signed ID certificate is replaced with a printer generated self-signed ID certificate when upgrading from FutureSmart 4.5.6 (or newer) to FutureSmart 4.7.3 (or older).
- An Insufficient Permissions dialog appearing with cancelled authentication attempts when PostPromptResultCode.Canceled is set
- 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.

Embedded JetDirect:

- IPv6 DHCP request packet contains a null Identity Association (IA). This works with the RFC and MS servers, but QIP servers do not handle this well.
- A printer performance slow down may occur with excessive mDNS traffic on a network.
- A stapled document will hang the printer when printing through the Google Cloud print solution.
- The default paper size may be incorrect when using the Google Cloud Print Driver.
- Jobs may not print when sending data over the 9100 port and the printer is in an idle state.
- UDP port 500 responds with an "Informational" packet even though no IPsec rules are defined.
- Some IP addresses are being mistakenly interpreted as multicast addresses by the IPsec/Firewall feature.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20190614 Firmware Revision: 2408067_049166
Embedded JetDirect	JSI24080014
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.8
MD5 checksum for .bdl file	0391730b1459e2506b1d3fe781f9ad5c

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_000578

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:

- A 49.DE.05 Webkit encountered a fatal error, unable to recover error message may be observed when performing functions on the control panel with a pull-print solution installed.
- An invalid 33.05.21 Security Alert error occurs when waking device from sleep mode by opening the automatic document feeder.

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 COLOR LASERJET M68x SERIES	Firmware Datecode: 20190116 Firmware Revision: 2407081_000578
Embedded JetDirect	JSI24070006
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.7.0.1
MD5 checksum for .bdl file	9948a51236531a47bb88ec012a462742

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_037935

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.7

ENHANCEMENT:

Base:

- Added an option in EWS to remove the job cancel button (red X) on the control panel.
- Added the feature, once enable would allow users to cancel A3 jobs on A4 printers, mainly targeted for Pull printing customers
- Added the ability to be able to suppress the Remote-Control Panel screen at the control panel.
- Added a check box selection next to the file name in the Print from Job Storage menu to allow end users to select one or more files to be include in a job.
- Added a job masking feature to the Print from Job Storage application which prevents jobs that are password or PIN protected from showing up on the print jobs list. The end user must first enter the password or PIN number to access protected jobs.
- Added the capability to create and enforce Local Quota for Server-Less Job Accounting that allow/limit/deny usage based on User Access Code.
- Added the ability to cancel all pending jobs at once. An access control setting "Details or Cancel any User's job" allows this to be restricted to logged-in users or administrators only.
- Added "Enable PS privileged operators" setting in the EWS Security/General Tab. When disabled (the default) the PostScript administrative passwords "SystemParamsPassword" and "StartJobPassword" are disabled and cannot be set. Any PS operator requiring these administrative passwords will not execute and return an

error. When enabled both passwords default to "0" (zero) and can be set separately to an alphanumeric value.

- Add the ability to use an IP address in the IPPS configuration with HTTPS
- The checkbox "Show Preferred Domain Servers" has been added to the Windows Sign in Setup and Scan to Network Folder pages to allow the administrator to prioritize the order in which domain servers are tried.
- Added a feature that allows configuring the complexity for SNMPv3 Passphrase Authentication and Privacy Protocols.
- 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 the ability to work offline and edit and import the Address Book and Device users list.
- Added "Image Shift" feature to Copy and Scan to USB
- Added the ability to reset Job Statistics from the Control Panel and print the Job Statistics report from the Control Panel and EWS (/w Admin Credentials) for Server-less Job Accounting.
- When Local Quota is enabled, non-authenticated users "guest" or "other" accounts will not be allowed to print, copy, or scan by default. The default for non-authenticated users are Action=Stop and all quota credits=0 for prints, copies, and scans.
- Added performance modification that reduces time to authenticate with a badge swipe.
- Added French and Spanish language support to the HP Accessibility Assistant.
- Added Import/Export feature from the control panel to USB drive of Address Book, Device User List, Quick Sets, and Home Screen Customization for MFP's only
- Improved the time it takes for the printer to boot to a Ready state from the powered off state. This change also reduced the amount of time it takes to get the first page out for a copy or print job just after turning on the device.
- Added the ability to send faxes pages up to 28 inches long.
- 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.
- Added Job ID in Copy Archive meta data.

Digital Sending:

- Added the ability to perform a Book Scan Mode for Digital Sending which is similar to the copy feature already present.
- This requirement is to support Network Folder path in Contacts and allow users to save a Network Folder path in an individual contact record.
- Added the ability to perform 2-sided ID scans from within the Scan Mode menu for Embedded Digital Sending.

Analog Fax:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- Changing the "Use Requested Tray" setting will not stick if the Access control menu "Ability to modify tray size and type settings" are locked even if you are signed in as an Administrator.
- You may see the Data Received Warning and then a very long pause between jobs when trying to send direct PDF file over a USB connection.
- A 49.DE.11 error may occur during an LDAP search in some conditions.
- Keyboard characters may drop out or be out of order on the control panel screen when using the Remote-Control Panel in the Embedded Web Service too quickly.
- A Quota Server will not be able to handle the job event and will not display an appropriate message to the control panel when cancelling a job immediately after the "Contacting the Quota Server" message is displayed on the Control Panel.
- Certain barcode fonts do not print correctly when Direct PDF printing.
- While under the management of a Quota service, large print jobs may become unresponsive to a Cancel Job request.
- Jobs may not resume printing when a paper out condition occurs after loading the tray with A6 media and setting the tray to AnySize/AnyType.
- The "PJL Drive Access - Enable/Disable" setting is not retained after a power cycle when changes to that setting is made within Web JetAdmin.
- The configurable default setting for a copy job destination will not retain after a power cycle.

- The Time format within the Embedded Web Server and on the control panel will change from a 24 Hour Clock to a 12 Hour clock after a power cycle.
- A 30.01.54 scan failure event may be seen intermittently in the event log.
- A delay in printing may be seen after first power on when comparing the same activity with previous versions of firmware
- A 48.A1.01 error can intermittently occur when connected to a critical-client job accounting solution because a job was not properly marked as acknowledged. HP recommends unsubscribing/re-subscribing the job accounting solution after installing this firmware to ensure all legacy un-acknowledged jobs have been properly marked in the system.
- Barcodes generated with Code 128 font are not readable in certain conditions.
- Within the Embedded Web Server (EWS), for the Job Statistics and Quota Settings configuration pages, some text/numeric strings are incorrectly translated for Simple Chinese language.
- A 49.38.0C error may occur when the printer is in a "Paper Out" condition and an IPDS print job is received.
- Certain files may print slower after upgrading to FutureSmart Bundle Version 4.6.2 or 4.6.2.1.
- A badge reader solution may become non-functional when swiping a badge during an error condition.
- Unable to print multiple copies when using Personal Job with Encryption (with password) and the PostScript UPD drivers.
- Certain PDF's which contain masks with 1 bit per color components and have been created from scanned image may print slowly.
- Stored Jobs won't print the number of copies which were entered if the "Done" button is not pressed first.
- The Home button will not return the control panel to the proper Home Screen unless the Reset button is pressed when using an aftermarket solution.
- Automatic population of group fax number when a single number is selected or entered.
- The Date and Time may be incorrectly formatted when the localization functions of the JavaScript Date object are used.
- Fax Archive fails if the Job Statistics and Local Quota service are enabled.
- An incorrect load prompt may be seen in certain conditions when OCR scanning a document and then printing the same scanned document.
- Storing a Person Job within the drivers Job Storage feature may take more time then compared to a FutureSmart 3 device.
- Some SmartCard solutions may fail to communicate with the card reader properly causing the authentication dialog window to not appear.
- The device may hang and not print when using and IPDS solutions installed for printing from an IBM Host system.
- A 49 error is seen when upgrading firmware from FutureSmart 3 to FutureSmart 4 when keyboard layout is set to Portuguese ABNT2.
- A duplex scan with job reservation from a Network TWAN application will hang in the processing state and will not complete when no target is loaded in the ADF.

- A 49.38.11 may be seen on the control panel when printing emails with special characters.

Digital Sending:

- A 49.38.07 error may occur under certain conditions when typing an email address into the scan-to-email TO: field.
- A 44.01.3F events may be seen in the printer's event log when performing scan to email with LDAP.
- A 49.38.03 error may occur when performing a Digital Send Software Local Address Book search.
- Unable to configure fax speed dials when device is managed by Digital Send Software.
- Unable to delete fax speed dials when the device is being managed by Digital Send Software.

Analog Fax:

- The Fax header may display square boxes for certain characters while set to the Japanese localization.
- On the fax confirmation page, the company's name will print out as a mirrored image when the device is set to Hebrew or any other right to left language.
- Importing fax speed dials have missing entries for the Japanese region.

Security/Authentication:

- Authentication agent Sign-In performance may be slow when using an aftermarket solution.
- A user's domain account may get locked out prematurely when attempting to log in at the printer due to entering an incorrect Windows domain credential.
- CVE-2015-9251: jQuery before version 1.12.0 and 3.0.0 may be vulnerable to Cross-site Scripting (XSS) attacks.
- The Embedded Web Server>Security>Access Control sign-in method for the HP AC Secure Pull Print button was reset to "Local Device" from "HPAC - DRA Server" following an upgrade from FutureSmart firmware version 3.8 to 4.5.4.
- Enabling or Disabling the Restrict Color feature within the Embedded Web Server will not work if there is a leading or trailing space in the application name coming from the PJI Jobacct info in the driver.
- Print jobs sent to the device using the HP Universal Printer Driver will print in color when the Device Guest does not have the Print in Color permission and the users cannot select an Alternate Sign In Methods.
- Under certain circumstances the SIPR/NIPR card reader would go offline and require power cycle.

- A 403 error may occur on the control panel or solution server when using a non-default administrator role with an aftermarket solution.
- CVE-2018-5923 - Solution application signature checking may allow potential execution of arbitrary code.

Embedded JetDirect:

- Some solutions may take longer to retrieve the list of jobs by enabling session caching for the IP address in addition to host name-based caching.
- The device may lose network connection after re-negotiating the link speed.
- The Jetdirect 3000w may not be recognized by products localized in the Japanese language.
- A communication error will be seen when enabling ePrint on a device set to the Norwegian language.
- An 81.09.00 error may occur with certain HP AC authentication use cases involving multiple servers behind a network load balancer.
- An association/authentication problem with the Jetdirect 2900nw and a wireless network may be seen when 802.11r fast roaming is enabled.
- An HTTP error 400 "Bad Request" may be seen when user tries to configure the Jetdirect 2700w in the Embedded Web Server.
- Manual configuration settings may not be reported properly on the network configuration page when the network is disconnected.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20181130 Firmware Revision: 2407071_037935
Embedded JetDirect	JSI24070006
DC Controller Version	7.149
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17
HP Fleet Release Designation	Original Release FutureSmart 4.7
MD5 checksum for .bdl file	b8f5008a0bcd3ab6cb3cd2eeb6a79fea

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20180626

Firmware Revision: 2406087_000017

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.6.0.3

ENHANCEMENT:

Base:

- An additional field is added in EWS to configure the Custom media type to True/False for asymmetric media type. This setting when enabled, determines if Alternative Letterhead Mode when enabled, should be applied on this specific User defined media type or not.
- Added ability to disable the default SNMPv3 passphrase complexity.
- Added Embedded Job Accounting with Statistics functionality - a simple server-less embedded solution that provides ability to track, report and account for individual use via PIN on the MFP and via HP UPD.
- 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 Job Build functionality for Copy Jobs as available in FutureSmart 3.
- Added support for HP Accessibility Assistant Accessory.
- Improvements made to print speeds for complex jobs containing raster/photographic data. The improvement will vary based on the image size and content of each printed page. Pages containing larger raster/photographic images may benefit more from this firmware change. Pages containing only Text or Vector images will continue to have the same performance as previous firmware bundles.
- For A4 devices that have an accessory with a fixed position stapler attached, a new menu item will appear in the administration menu to staple at the 'top-left'. By default, the value is 'fastest' to preserve existing behavior where on these devices documents printed/copied in landscape with stapling have it applied to the top-right corner. If changing the setting to 'top-left', the device will reboot for this enhancement to take effect. When used, a user's landscape printed/copied document will output in reverse order using the duplexers as well so that the staple can be affixed to the top-left. The job may take longer to complete because of the need to spool the entire job as well as forced use of the duplexers. The staple prongs will also face forward as well.

Digital Sending:

- The length of the Quickset name has been increased to 100 characters and the description field has been increased to 300 characters.
- Added an option to block the creation of custom quickset.

Analog Fax:

- No New Updates

Security/Authentication:

- Increased number of certificates allowed in the certificate store to 200.
- Added additional security measures to Cross-site Request Forgery (CSRF) prevention feature that may affect installation or configuration of new or previously installed Level 1 extensibility solution bundles. Temporarily disabling the CSRF feature may be required to complete installing and configuring these solutions.

Embedded JetDirect:

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

FIXES:

Base:

- Fixed a defect where certain Direct PDF printing causes middle of page to no longer be gradient.
- Fixed a defect where the printer might report itself with the wrong model speed in the driver or OID value, even though the printer prints and copies at correct speed.
- Fixed a defect where time/clock may be off by one hour in southern hemisphere time zones
- Fixed a defect where when printing from Mac OSX High Sierra, error "undefinedresult, OFFENDING COMMAND" is seen.
- Fixed a defect where some instructions were missing in the Message Center area in the control panel.
- The SNMP OID prtMarkerProcessColorants (.1.3.6.1.2.1.43.10.2.1.6) now contains values which are appropriate for monochrome devices.
- Improvements made to the Address Book performance.
- Improvements made to the Quickset entry time.
- Improvements made to the first copy page out time.
- Fixed a defect where Physical and virtual keyboards on Workflow device are not synchronizing when pressing the caps lock.
- Fixed a defect where a 49.38.07 error is seen when Alternative Letterhead Mode (ALM) is enabled and a PCL5 print job is sent to the printer that includes Paper Size and Tray Source but no Paper Type command, with Tray set to Preprinted (or Letterhead).
- Improvements made to reduce the time taken to sign in an authenticated user.

- Fixed a defect where Quiet Mode set to Automatic Transition for 10 pages may cause duplex copy job to hang.
- Fixed a defect where printing to Output bin 1 or 2 when the MFP is asleep will cause a 13.B9.A1 or 13.80.A1 error.
- Fixed a defect where a 49.38.07 error is seen under certain circumstances when printing from Tray1.
- Fixed a defect where Image Registration values weren't incrementing completely when the control panel language is set to other languages than English.
- Fixed a defect where a 49.38.07 error may be seen or internal pages may not print if there is a prompt to load Letter Any in tray one when printing internal pages.
- Fixed a defect where we were unable to print certain PDFs from USB.
- Fixed a defect where we were not returning to the primary Home screen after badge authentication.
- Fixed a defect where when printing multiple raw direct print PDF files through an SAP print queue only first PDF is printed at the device.
- Fixed a defect where the Danish keyboard does not contain Danish characters.
- Fixed a defect where when device language is set to French and when performing scan to email, the virtual keyboard shows wrong layout.
- Fixed a defect where a 42.26.00 error was seen when printing certain files through direct PDF print path.
- 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.
- Fixed a defect where a 49.DE.11 error may be presented on the control panel when retrieving stored jobs or performing other activities with the fax functionality.
- Fixed a defect where an error is seen on EWS while changing the printer's Image registration values for trays when device language is set to non-english.
- Fixed a defect where slowdown in print speeds on Letter/A4 media sizes was seen when printing greater than 100 continuous pages due to increased internal temperature of the device.
- Improvements made to authentication times with DSS connected.
- Fixed a defect where the printable "Current Settings" page did not correctly represent the established value for 'Auto Off After Sleep'.
- Improvements made to USB firmware download time. It can be seen on the next upgrade after installing FutureSmart Bundle Version 4.6 or greater.
- Fixed a defect where when changing the default number of copies from either the control panel or EWS the copy count does not get reflected on the home screen.
- Fixed a defect where a 49 error is seen when upgrading from FS3 to FS4 firmware with stored jobs on device.
- Fixed a defect where a printed cleaning page is seen in the middle of a print or copy job.

- Fixed a defect where you may see a 49.38.07 error message on the control panel when trying to retrieve a stored job and simultaneously using the scan functionality.
- Fixed a defect where a 46.21.52 event was seen on the control panel after initiating a copy job.
- Fixed a defect where after upgrading firmware, you may see either "Approximate Pages Remaining = ---" or "Approximate Pages Remaining >0" on the Supplies Status Page, for status of installed toner cartridge(s).
- Fixed a defect where it would prevent a proximity card reader from properly communicating with the printer running solutions using OXPd 1.7-based authentication.

Digital Sending:

- Improvements made to the overall digital send and copy performance experience.
- Fixed a defect where an 'Operation Failed' message might show up on the control panel during address lookup on devices with Windows embedded auth/DSS email/DSS LDAP addressing.
- Scan quality improvements for jobs scanned with high compression.
- Fixed a defect where Operation Failed message is seen during address lookup on devices with windows embedded auth/DSS email/DSS ldap addressing.
- Fixed a defect where in certain circumstances, a user would be prompted for credentials when they try to use the "Browse" feature during a scan-to-folder operation. This would happen even when the "Always use these credentials" option was chosen and valid credentials had been entered into the setup.
- Fixed a defect where performing a Scan to Network folder job with custom subfolder option of Username generates sub folders with every new scan when settings are retained.

Analog Fax:

- No New Updates

Security/Authentication:

- Shortened timeout and added descriptive error for the case where a server completes the TCP handshake with the server but fails to negotiate the SMB protocol.
- The EWS page for setting up Smart Card authentication was changed to indicate that hostnames for authentication servers need to be entered, not "Trusted Domains".
- 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.
- Fixed Security Defect CVE-2017-15361 ROCA- Vulnerable RSA generation (TPM only)
- Fixed a defect where the default sign in method changes from DSS to Local Device when device is rebooted.

Embedded JetDirect:

- Fixed a defect where if a Domain Controller (DC) refused a connection with the printer (i.e. sent RST in response to SYN or just did not respond), the printer would go to the "scheduled" status (a "try again later" strategy). The fix has the printer get the next DC in the DNS SRV query response and try it. If all DCs in the SRV query response reject connection attempts, then the printer goes to the "scheduled" status.
- Fixed a defect where setting the OID npSecurityEncryptedDot1xPassword with empty string to clear password was returning a "wrong value" error.
- Fixed a defect where Cisco "ARP Proxy" feature was causing devices to decline the DHCP offer.
- Fixed a defect where Syslog Priority setting was not filtering properly. The fix restores proper operation. CCC events will still be reported regardless of priority when the "Enhanced security event logging" option is selected.
- Fixed a defect where only one stored IPP/IPPS print job was allowed at a time.
- Fixed a defect where Wireless option is not showing under Information tab.
- Fixed a defect where network connection is lost when forced to downshift due to poor quality signal.
- Fixed a defect where Jetdirect configuration page layout for Japanese (and other 2 byte languages) is unreadable.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20180626 Firmware Revision: 2406087_000017
Embedded JetDirect	JSI24060004
DC Controller Version	7.145
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.17 01.17

HP Fleet Release Designation	Original Release FutureSmart 4.6.0.3
MD5 checksum for .bdl file	4499704fdf9dc58220d4e259fbc5f060

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_000382

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.5.0.1

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:

- No New Updates

Analog Fax:

- No New Updates

Security/Authentication:

- 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.

Embedded JetDirect:

- Printer is showing offline after registering to Google Cloud Print.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20171208 Firmware Revision: 2405135_000382
Embedded JetDirect	JSI24050147
DC Controller Version	7.145
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.15 01.15
HP Fleet Release Designation	Original Release FutureSmart 4.5.0.1
MD5 checksum for .bdl file	6470c66e475f6b1bb674a6182a06d7f4

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:

Firmware Datecode: 20171025

Firmware Revision: 2405129_000037

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.5

ENHANCEMENT:

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 "Print from Job Storage" 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] -> "Print from Job Storage 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.
- Job log size was increased.
- Ability to schedule and perform a HDD clean via an internal schedule set by XTP tickets.
- Added a "3 days" setting in Temporary/Standard Stored Job Retention.
- 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.
- New Web Print Platform (WPP) architecture designed to address issues with current architecture. Supports many services in addition to ePrint. Provides simplified printer registration protocol for improved reliability. Supports web sockets tunnel infrastructure as alternative to XMPP and HTTP signaling for notifications.
- Functionality added to allow users to be able to perform copy watermarks and stamps.
- Added the ability to allow certain quicksets to be triggered via keyboard shortcuts from compatible USB keyboards to better enable clients with accessibility requirements.
- Added the ability to disable the "Shop for Supplies" links in the embedded web server.
- Increased the number of border colors to choose from for the Welcome message that can be displayed at the control panel.
- On the soft keyboard that is displayed on all Future Smart 4 device control panels, the location of the backslash "\\" character has moved to make it faster and easier to access.
- Support included for Hebrew and Arabic on the device's Control Panel.
- Added support for German Swiss characters and symbols to the virtual keyboard.

- The Backup and Restore feature has been expanded to include JDI settings. Additionally, this feature has been expanded to allow creating a backup file and restoring that file to another device of the same model and firmware version as the backup file.
- Role-Based Access to EWS provides ability to limit access to EWS items via defined roles.
- Added the ability within the Embedded Web Server Remote Control Panel to press and hold down your mouse key over the virtual keyboard to show alternative or optional characters.
- The Quick View feature is now supported and it may help increase print speed with PDF files that have been created by scanning the content with high compression on a Multifunction Product. The following steps need to be performed to take advantage of this feature:
 1. Install the PCL 6 HP Universal Print Driver Version 6.4.1 or greater.
 2. After the printer driver is connected to the printer the drivers Automatic Configuration feature must be performed. This setting can be found in the Device Settings Tab.
 3. Lastly select "Quick View" from the Print Quality drop down option found in the drivers Printing Preferences to ensure that the feature is used while printing."
- Apps/Icons hidden in Future Smart 3 will appear in Future Smart 4 after an upgrade.
- Added Booklet Fold Calibration functionality. This functionality provides ability to set different Fold Line Shift for different Media Size. The Line Shift is applicable to a family of Media Size.
- A reboot warning will be displayed after performing a Restore in the Embedded Web Server.

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.
- Added additional text to email notifications when users select job notifications for Save to Network Folder jobs. The text now includes the full path that the job was sent to.

- TWAIN scanning support on Network connected MFPs. The scan can be initiated using an HP or non HP TWAIN client application. The feature would also support 'Job Reservations' to complete the remote scan requests from the Control Panel of the MFP.

Analog Fax:

- No New Updates

Security/Authentication:

- For NIPRNet Smartcard authentication, added ability to choose alphanumeric or numeric keyboard as default for password entry.
- 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 Future Smart 4 feature) Administrative password Lockout: Enabled (new Future Smart 4 feature)
 - Cross-Site Request Forgery Prevention: Enabled (new Future Smart 4 feature)

Note: Updating to this firmware version from Future Smart 3 bundles or Future Smart 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 Future Smart 4.5 out-of-the-box, or upgraded Future Smart 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. Security Manager V3.1, releasing mid-November 2017, is also required to manage some of the new security settings/behaviors."

- 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.

- TLS 1.2 support for L1 solutions. This firmware provides compatible HP and 3rd party solution software the ability to support TLS 1.2 based encryption by routing outbound HTTPS connections through the Jetdirect networking interface. No partner solution changes are required to support this change.
- Support for 3072 bit and 4096 bit key lengths with RSA-based certificates NSA announced changes to the Commercial National Security Algorithm Suite (CNSS) that specify RSA key lengths should have a minimum size of 3072 bits with 4096 bits also acceptable. This firmware supports selecting 3072-bit and 4096-bit keys for self-signed certificates and certificate signing requests generated on the device. Larger key sizes for imported certificates were supported in previous firmware versions.

Embedded JetDirect:

- No New Updates

FIXES:

Base:

- Incorrect Chinese localization for the Embedded Web Server Email and Scan to Folder Quick Setup Wizards
- You may see streaks after printing with heavy gloss media.
- You may see slower than normal A5 printing performance.
- You may see text or images repeated down the page or a pause in printing due to the fuser being hot from the prior printed page."
- 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.
- Resolved an issue where welcome screen used in addition to a badge reader causes the badge to not log a user into the device.
- Keyboard layout on the control panel did not indicated when Caps Locks were enabled.
- The "Clearing Settings" message seems to appear for no apparent reason.
- Placed a limit on requested refresh rate of animated GIFs in aftermarket solutions to ensure system performance is not compromised during high load scenarios.
- 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.
- During card-swipe based authentication used by some aftermarket solution providers, an extra UI form not intended for viewing would be shown during the sign-in process. This extra form is now hidden.

- Web Jet Admin Feature Pack 4 template change moves all icons from two other screens to home screen.
- Messages for what you can see with the Job log through Access control is confusing.
- Upgrading to Future Smart 4 from Future Smart 3 causes the New Printer Wizard to initiate.
- Keyboard for numeric keyboard stays gray.
- Missing graphics on pages when printing certain PCL5 jobs.
- Improvements in print performance of certain types of jobs.
- Improvements in small job print performance.

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).
- Improvements to the overall digital send and copy performance experience.
- Scan To Folder prompting for username and domain when already authenticated. Should only prompt for password.

Analog Fax:

- A logging behavior has been corrected where the device Error Log may include 44.91.08 LAN Fax Configuration Errors even though LAN Fax is not enabled.

Security/Authentication:

- This firmware addresses the following security issues: CVE-2017-11103 - Heimdal before 7.4 allows remote attackers to impersonate services with Orpheus' Lyre attacks.

- Resolved an issue reading some installed security certificates which prevented successful certificate validation and could lead to a 45.00.33 SSL fingerprint error.
- Fixed an issue where scan to network folder suddenly stops working for Windows 10 shares after receiving Microsoft update 1703 or later.
- This firmware addresses the following security issues: CVE-2017-9765 - Integer overflow in SOAP (Simple Object Access Protocol) function allows execution of arbitrary code or Denial of Service, aka Devil's Ivy attack.
- This firmware addresses the following security issue: CVE-2017-2750 - Insecure Solution DLL Signature Validation.
- Added support for G&D FIPS-201 SIPR smartcards that are provisioned without encipherment certificates.

Embedded JetDirect:

- 81.09.00 error was occurring intermittently on reboot.
- Updates to HTTPS communications for embedded aftermarket solutions.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20171025 Firmware Revision: 2405129_000037
Embedded JetDirect	JSI24050132
DC Controller Version	7.145
Optional Trays Version	4.106
Fax	Ver11.4A
Stapler Stacker and Hole Puncher Mailbox	ED01.15 01.15
HP Fleet Release Designation	Original Release FutureSmart 4.5
MD5 checksum for .bdl file	478caaa7196423b2279c6c03b8ce0219

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:

Firmware Datecode: 20170729

Firmware Revision: 2403322_000090

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.3.0.3

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:

- You may see streaks after printing with heavy gloss media.
- You may see slower than normal A5 printing performance.
- You may see text or images repeated down the page or a pause in printing due to the fuser being hot from the prior printed page.

Digital Sending:

- No New Updates -- Original Release

Analog Fax:

- No New Updates -- Original Release

Security/Authentication:

- This firmware addresses the following security issues: CVE-2017-11103 - Heimdal before 7.4 allows remote attackers to impersonate services with Orpheus' Lyre attacks.

Embedded JetDirect:

- No New Updates -- Original Release

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES	Firmware Datecode: 20170729
HP COLOR LASERJET MANAGED E675xx	Firmware Revision: 2403322_000090

SERIES	
Embedded JetDirect	JSI24r10033
DC Controller Version	7.145
Optional Trays Version	4.106
Fax	Ver11.4
Stapler Stacker and Hole Puncher Mailbox	ED01.13 01.13
HP Fleet Release Designation	Original Release FutureSmart 4.3.0.3

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:

Firmware Datecode: 20170331

Firmware Revision: 2403298_006039

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 4.3

ENHANCEMENT:

Base:

- No New Updates -- Original Release

Digital Sending:

- No New Updates -- Original Release

Analog Fax:

- No New Updates -- Original Release

Security/Authentication:

- No New Updates -- Original Release

Embedded JetDirect:

- No New Updates -- Original Release

FIXES:

Base:

- No New Updates -- Original Release

Digital Sending:

- No New Updates -- Original Release

Analog Fax:

- No New Updates -- Original Release

Security/Authentication:

- No New Updates -- Original Release

Embedded JetDirect:

- No New Updates -- Original Release

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP COLOR LASERJET M68x SERIES HP COLOR LASERJET MANAGED E675xx SERIES	Firmware Datecode: 20170331 Firmware Revision: 2403298_006039
Embedded JetDirect	JSI24r10033
DC Controller Version	7.143
Optional Trays Version	4.106
Fax	Ver11.4
Stapler Stacker and Hole Puncher Mailbox	ED01.13 01.13
HP Fleet Release Designation	Original Release FutureSmart 4.3

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

1. Go to the printer's control panel.
2. Swipe left and select the **Reports** menu.
3. Select the **Configuration/Status Pages** menu.

4. Select the **Configuration Page** option.
5. Select the **Print**.

On the printed 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: 20170331

Firmware Revision: 2403298_006039

The elapsed time for an update depends on the I/O transfer time as well as the time that it takes for the printer 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 printer, such as the number of EIO devices installed, the presence of external paper handling devices, and the amount of memory installed. Finally, any print jobs ahead of the firmware job in the queue will be printed before the update is processed.

NOTE: When the update process has completed the LaserJet will need to be rebooted. Once the printer is back online, print a 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 printer 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 General tab.
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.

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

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

Once the printer or MFP is back online, print 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 printer. You may need to try a different USB flash drive.

2. Turn the printer 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 printer 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 printer or MFP is back online, print 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 printer is not able to boot to READY

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

1. Copy the xxxxxx.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 printer. You may need to try a different USB flash drive.

2. Turn the printer 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 xxxxxx.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 xxxxxx.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 printer.
10. The printer 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 printer or MFP is back online, print a Configuration Page and verify that the new firmware has been installed.

Web Jetadmin (Supported with version 10.4 SR1 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 SR1 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 by 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 SR1 with FP4 or newer

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 printer off during the update process! When the update process is complete, the printer 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 printer's user guide or call your local authorized HP dealer.

Customer Support

See your printer'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 Color LaserJet M68x Series Support:

URL for Firmware downloads:

www.hp.com/support/colorljM681MFP

www.hp.com/support/colorljM682MFP

URL for Support:

<http://www.hp.com/go/support>

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 printer's user guide for additional methods of obtaining software and support information, such as printer driver distribution centers other online services, fax services, and other online support.

Legal Statements

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