

## HP LASERJET ENTERPRISE M506 SERIES Firmware Readme

**Product Name(s):** HP LaserJet M506n • HP LaserJet M506dn • HP LaserJet M506x • HP LaserJet M506dh • HP LaserJet M506dnm • HP LaserJet M506xm  
**Model Number(s):** F2A68A, F2A69A, F2A70A, F2A71A, F2A66A, F2A67A

This document contains information for the firmware revision number:  
Firmware Datecode: 20210317  
Firmware Revision: 2309046\_000268  
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.7

### Description

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### FutureSmart Level Switching Procedures

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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 providing improved software for your HP LaserJet Printer or MFP, HP 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. Scroll down and select the **Administration** menu.
3. Select the **Reports** menu.
4. Select the **Configuration/Status Pages** menu.
5. Select the **Configuration Page** option.
6. 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: 20150908

Firmware Revision: 2306272\_536012

#### 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: 20210317

Firmware Revision: 2309046\_000268

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.7

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

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

### **FIXES:**

Base:

- HP Webservices will stop working and the printer will lose its connection to HP Connected on the web. You may see an error "Could not communicate with HP Connected, or Unable to contact HP Connected" when you try to enable HP Web Services.
- Third party solutions created in 2021 will not be able to load on the device through the solution installer page.

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 LaserJet Enterprise M506	Firmware Datecode: 20210317 Firmware Revision: 2309046_000268
Embedded JetDirect:	JSI23900041
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9.7
MD5 checksum for .bdl file	a6525de9df71cd0009ad52993d81d94a

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20191213

Firmware Revision: 2309025\_582091

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.6

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

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

**FIXES:**

Base:

- 49.4A.04 error may occur intermittently when printing from certain types of customized applications.

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 LaserJet Enterprise M506	Firmware Datecode: 20191213 Firmware Revision: 2309025_582091
Embedded JetDirect:	JSI23900037
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9.6
MD5 checksum for .bdl file	5e6e90fdad7766fb0e75b5d74c68ebe3

**Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20190711

Firmware Revision: 2309021\_581888

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.5

**ENHANCEMENT:**

Base:

- No New Updates

Security/Authentication:

- Added an updated digital signature verification for aftermarket solution bundles during installation. Currently installed solutions are not affected. Customers and resellers should work with solution providers for an updated signature-compliant version of their software.

Embedded JetDirect:

- No New Updates

## **FIXES:**

Base:

- Some SmartCard solutions may fail to communicate with the card reader properly causing the authentication dialog window to not appear.
- The eMMC part may fail prematurely with a 99.39.73 error.
- The control panel may freeze/lockup when using a spinner list on the 4-line display models.

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
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HP LaserJet Enterprise M506	Firmware Datecode: 20190711 Firmware Revision: 2309021_581888
Embedded JetDirect:	JSI23900036
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9.5
MD5 checksum for .bdl file	47d145a9013005d3f57a4c618849d4d6

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20190118

Firmware Revision: 2309010\_581411

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.4

### **ENHANCEMENT:**

Base:

- 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

Security/Authentication:

- No New Updates

Embedded JetDirect:

- TLS 1.0 and Multicast IPV4 settings do not get backed up and restored properly.

Current firmware revisions included in this firmware bundle:

**DEVICE FIRMWARE REVISION**

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20190118 Firmware Revision: 2309010_581411
Embedded JetDirect:	JSI23900036
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9.4
MD5 checksum for .bdl file	9b00c8e89134b73e126568b1ea999453

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20180605

Firmware Revision: 2308974\_579764

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.2

### **ENHANCEMENT:**

Base:

- No New Updates

Security/Authentication:

- Added a feature to prevent Cross-site Request Forgery (CSRF) exploits. This guards against a malicious exploit where unauthorized commands are sent to the EWS using the logged-on administrator credentials.



Embedded JetDirect:

- No New Updates

## **FIXES:**

Base:

- Under certain conditions 49.38.07 error is seen after receiving a fax job.

Security/Authentication:

- CVE-2018-5923: Insecure Solution DLL Signature Validation.
- CVE-2015-9251: jQuery before version 1.12.0 and 3.0.0 may be vulnerable to Cross-site Scripting (XSS) attacks.

Embedded JetDirect:

- Cisco "ARP Proxy" feature is causing devices to decline the DHCP offer.
- Syslog Priority setting is not filtering properly.
- Device loses network connection after re-negotiating the link speed.

Current firmware revisions included in this firmware bundle:

### **DEVICE FIRMWARE REVISION**

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20180605 Firmware Revision: 2308974_579764
Embedded JetDirect:	JSI23900018
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9.2
MD5 checksum for .bdl file	eadbf6cc8c74f0e5ac834bc16375154d

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20180301

Firmware Revision: 2308955\_579078

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9.1

## **ENHANCEMENT:**

Base:

- No New Updates

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

## **FIXES:**

Base:

- When printing from Mac OS High Sierra, error "undefinedresult, OFFENDING COMMAND" is seen.
- Unable to print certain PDF files from USB.

Security/Authentication:

- No New Updates

Embedded JetDirect:

- By default, the IPP queue was disabled and it was enabled only for CUPS client. This change includes enabling IPP queue by default, which improves IPP/IPPS performance significantly.

Current firmware revisions included in this firmware bundle:

## DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20180301 Firmware Revision: 2308955_579078
Embedded JetDirect:	JSI23900012
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9.1
MD5 checksum for .bdl file	0e643167751e975febdfa2933143f08b

## Enhancements and Fixes provided with this Firmware revision

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

Firmware Datecode: 20171213

Firmware Revision: 2308937\_578489

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.9

### ENHANCEMENT:

Base:

- 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.
- Added support for "Any Size/Any Type" in cassette trays.
- This feature increases the number of allowed PIN users in the device's local address book; from 1000 to 2000.
- Optimized JPEG decompression library improves performance of print jobs with JPEG compressed images
- A new option has been added to delete the temporary jobs after 3 days.
- Error code "42.B0.01" will not be displayed in the event log for end customers.
- Added new feature to allow PCL 6 to suppress blank pages. Previously this feature was only available with PCL5, now this functionality is also available with PCL6.
- Changes in power management to meet new Blue Angel regulations.

Security/Authentication:

- Users now have the ability to disable printing from Help.
- Added two new features to improve the private and usability of retrieving stored jobs from the "Retrieve from Device Memory" application. Administrators can

define what users first see when entering the "Retrieve from Device Memory" application. The default behavior has not changed, but 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) but can navigate back to the list of folders with 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. If at the folder view they will only be able to see folders with at least one of their own jobs or a guest job within it except for the special folders like "Untitled" & "Stored Faxes". These two features can be used together to optimize the privacy & usability when users retrieve their stored jobs.

- Allow for nested group behavior on the EWS: Security>Access Control>Windows Setup. Nested AD groups may be configured to inherit parent permissions.
- Allows for authentication at devices using AD credentials instead of local device credentials via Web Jet Admin.
- This firmware provides compatible HP and 3rd party solution software the ability to establish HTTPs communications through the Jetdirect networking interface. The protocol and encryption parameters for these solutions are now configured using the Jetdirect networking settings, allowing access to updated Jetdirect protocols and encryption. This option is available to HP and 3rd party solutions using the HttpWebRequest Class connection methods.
- This firmware addresses the following security issues: CVE-2005-4900– SHA-1 is not collision resistant, allowing for context-dependent spoofing attacks. Cipher suites containing the SHA-1 hashing algorithm can now be disabled by setting Encryption Strength to "High" within the "Mgmt. Protocols" page under the EWS Networking tab. These cipher suites will remain enabled/active if Encryption Strength is set to either "Medium" or "Low". Note: For devices with Encryption Strength set to "High", after installing this firmware the Encryption Strength setting will be changed to "Medium" to allow continued access to SHA-1 cipher suites.

Embedded JetDirect:

- No New Updates

## **FIXES:**

Base:

- You may see a 49.00.FF error while performing a Direct TIFF print job.
- Setting Legacy resolution to 300 x 300 would not be retained after a power cycle.
- Print job size of 400mb or more not getting stored on the device disk memory.
- Disk resident fonts are not persistent after a power cycle.
- Paper type is displayed incorrectly on control panel when using Chinese.
- Wrong translation of control panel buttons in Czech.
- Certain PDFs were not printed correctly, text on PDF was getting printed as blocks.
- Improved Barcode scanning.
- Improvement in print performance of certain PDF files.
- You may see an Access Denied warning when trying to access the EWS even prior to entering in a Password.
- Under certain circumstances an SNMP GET request might receive a slow response which exceeds all client retries and timeouts. Sometimes the printer would never respond. This fix ensures that these circumstances do not prevent timely SNMP responses.
- Intermixing of pages is seen when printing copy jobs.
- Embedded EPrint setting intermittently shows state as "Not Supported" instead of "Enabled/Disabled" via WJA.
- Using the Pages per Sheet N-Up printing feature provided with any version of the UPD PCL6 driver will give incorrect printed output.
- You may see improvements printing certain fonts.
- 49.38.07 error is seen when printing certain jobs with "reverse page order" setting enabled on a device without finisher.
- PS Error seen when printing certain documents greater than 40 pages.
- Added a Web Service object for the "Security" -> "Web Scan Auto Capture Jobs: Enable Remote User Auto Capture" feature which will allow Web Jet Admin to fleet manage this setting with XTP Tickets where reservation less scanning for Network TWAIN is required.
- 49.4A.04 is seen when printing certain PDF files containing excessive numbers of XObjects on one or more pages
- Error 49.4A.04 is seen when reprinting certain jobs from Corel Draw.
- The PCL commands to call barcode fonts does not work when using asterisks
- 49.38.07 error is seen when printing certain PDF jobs in duplex.
- Color mismatch while printing certain PDF documents and selecting the CMYK profile in driver.
- Device stops responding to SNMP requests when we go to Device tab in WJA.
- USB volume name is not getting displayed correctly in Korean and other 2 byte languages.
- Missing graphics on pages when printing certain PCL5 jobs.
- Improvements in small job print performance.
- Display brightness value is getting reset to default on a power cycle.

Security/Authentication:

- Resolved issue where aftermarket authentication agents utilizing the OXPd protocol could inadvertently remove guest permissions to tabs (e.g. the Information tab) on the EWS page.
- This firmware addresses the following security issue: CVE-2016-2183 – 3DES TLS/SSL Birthday Attacks on 64-bit Block Ciphers (SWEET32) Vulnerability.
- Re-added web services (removed in FS 3.8) to allow HP Jet Advantage Security Manager to manage the state of the Information tab in the embedded web server.
- Resolved redundant authentication prompts when accessing certain types of logs.
- 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.
- When logging into the Embedded Web Server using Windows authentication, you may not be able to see all the tabs or options that you have been granted access to.
- 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.
- This firmware disables the "TFTP Configuration File" setting to prevent unauthorized device resets.

#### Embedded JetDirect:

- Fixed "IP Address/Subnet is out of range. Check the field. IP=x.x.x.x Mask=x.x.x.x" error given when an IP address was entered with zero for the host number in the Access Control List.
- The Certificate Signing Request generated by the printer included three OU fields (one specified by the user when filling in the EWS form and two additional OU fields added automatically). Some Certificate Authorities accept only one OU field so the user entered field was retained and the two internally generated OU fields were removed).
- Buffers expanded to hold large DNS responses (70+ records). Previously only about 7 or 8 records were accepted.
- Trying to connect via the FTP may fail with certain applications.
- Fixed an issue where Windows Authentication would hang the printer.
- Product was generating Certificate Signing Requests with version number other than zero. RFC 2986 requires a version number of zero.
- Product was generating Certificate Signing Requests with version number other than zero. RFC 2986 requires a version number of zero.
- Printer crashes with 81.09.00 Embedded Jetdirect Error message when user sets Admin password from Telnet.

- Under certain circumstances during initial power-on, the DHCP Discover message is sent without a hostname (option 81). This fix ensures that option 81 is always present when applicable.
- The password input for "Import Certificate and Private Key" has been expanded beyond 16 characters.
- Default name when saving a CSR (Certificate Signing Request) is no longer "certificate.cer".
- Under certain circumstances the certificate validity check performed during the IKE portion of IPsec was done with the local printer time and not UTC time.
- If a Jetdirect 2900w is installed and two different wired networks are connected to the printer (one on the JD 2900w and one on the Jetdirect Inside connection), then it was possible (under certain circumstances) for the entire printer to become unresponsive.
- This fix prevents the printer from resetting the connection during an intervention event (paper out, paper jam, etc.) when printing using the LPD protocol. Previously, the connection would be reset after the TCP Idle Timeout had expired. Now it will wait indefinitely.
- The firmware had trouble parsing a long list of "additional records" in a DNS SRV response packet. This fix prevents the problems which were causing the device to crash with a 49.38.07 error code.
- Do not respond to pings during the DHCP process (after DHCP Discover).
- Retry 802.1x EAP Start process if unsolicited Request Identity is received after connecting to unsecured network.
- IPP attribute "printer state" is not returning the correct state when printing a port 9100 job.
- Updates to HTTPS communications for embedded aftermarket solutions.
- Some SSL requests from embedded solutions would fail due to corruption of the destination URL.
- 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 LaserJet Enterprise M506	Firmware Datecode: 20171213 Firmware Revision: 2308937_578489
Embedded JetDirect:	JSI23900010
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.9
MD5 checksum for .bdl file	4bab5b5dce6466437ecddca1144f8b61

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20170922

Firmware Revision: 2308216\_001065

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.8.0.3

## **ENHANCEMENT:**

Base:

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

## **FIXES:**

Base:

- No New Updates
- 

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.
- 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.

Embedded JetDirect:

- No New Updates



Current firmware revisions included in this firmware bundle:

**DEVICE FIRMWARE REVISION**

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20170922 Firmware Revision: 2308216_001065
Embedded JetDirect:	JSI23e80165
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.8.0.3

**Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20170602

Firmware Revision: 2308214\_000911

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.8.0.2

**ENHANCEMENT:**

Base:

Security/Authentication:

- No New Updates

Embedded JetDirect:

- No New Updates

**FIXES:**

Base:

- No New Updates

#### Security/Authentication:

- This firmware addresses the following security issue: CVE-2017-2743 - Cross Site Scripting (XSS) Vulnerability.

#### Embedded JetDirect:

- No New Updates

Current firmware revisions included in this firmware bundle:

#### **DEVICE FIRMWARE REVISION**

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20170602 Firmware Revision: 2308214_000911
Embedded JetDirect:	JSI23e80161
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.8.0.2

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20160820

Firmware Revision: 2308209\_000567

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.8

#### **ENHANCEMENT:**

Base:

- Introduced a secure pull print job purge feature where when using a pull print solution and there is a condition on the device that requires user intervention, a job purge mode will be tied to the inactivity timeout. Job purge is limited to up to 3 jobs in the current print queue. To enable, select "Cancel Print Jobs after Unattended Error" in the devices EWS Security - General tab.
- Upgraded the font library to UFST 7.3.1. The focus areas are Error handling for TrueType fonts and OpenType CFF fonts.
- Mediatype "HP EcoSMARTLite" has been renamed to "HP EcoFFICIENT".

- Role-Based Access to EWS - provides ability to limit access to EWS items via defined roles. Note: If configured using 3.7.4, feature changes in next fleet release may cause some access controls to be lost. See white paper for details.
- Added functionality to allow users to cancel A3 jobs on A4 printers, mainly targeted for Pull printing customers.
- Added a new menu item to turn On/Off control panel sound with 4.3 inch displays on single function products.

#### Security/Authentication:

- No New Updates

#### Embedded JetDirect:

- No New Updates

### **FIXES:**

#### Base:

- Slow printing of specific PDF files.
- You may see devices intermittently stop responding in complex print environments
- A display variable was not working correctly on 4-line display devices that was impacting partner solutions.
- Improvement in print performance of certain PDF files.
- Resolves an issue where HP device with PaperCut solutions may result in users being unable to Authenticate or Pull Print. Within the PaperCut Administration Console the HP device is unable to be configured or the embedded device status reports the following error "Error: The server sent HTTP status code 400: BadRequest".
- EPrint error "Could not Communicate with HPCConnected.com. Some internal error happened, try again." is seen after upgrading firmware to FS 3.5.1 or later versions.
- A 49.38.07 error may be seen when printing PDF files using LPR.
- Improvement in print performance while printing certain PDFs using PS driver.
- PCLXL error is seen while printing PDFs with watermark.
- When PJI JOB START specifies a specific page to begin printing on (e.g. PAGE 20), the device correctly begins printing on the specified page. However, unsolicited PJI USTATUS PAGE responses would begin counting from Page 1 (Page 2 when printing duplex) instead of the specified JOB START page (e.g. PAGE 20). This has been corrected so PJI USTATUS returns PAGE counts beginning at the specific START PAGE.

- An indication that direct Tlff printing was supported with the Retrieve from USB feature was missing from control panel screen seen after opening the application on the control panel.
- Not able to change Tray Registration settings while EWS is in certain languages.
- Equitrac Authentication Agent sign-in agent is missing.
- If stop hard key is pressed while the device is in sign-in page of any application, the device does not recover and we are not able to access any application on home screen after that.
- PDF bar code not printed correctly.

#### Security/Authentication:

- 33.05.17 Security Alert seen when base filename used to package and zip files for solution bundling is too long.
- You may see a 33.05.18 error when using select Solution Providers software on Firmware bundle 3.7
- EWS Session Id HttpOnly attribute in HttpCookie class set to true.

#### Embedded JetDirect:

- Functionality of the TCP MSS settings in Telnet has been restored.
- Fixed a situation where bad network packets (invalid checksum) could be accepted and processed as if they were good.
- Resolved memory leaks (and possible device lockup) in DNS mapping logic when handling uncommon IPv4/IPv6 scenarios.

Current firmware revisions included in this firmware bundle:

#### **DEVICE FIRMWARE REVISION**

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20160820 Firmware Revision: 2308209_000567
Embedded JetDirect:	JSI23e80161
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.8

## **Enhancements and Fixes provided with this Firmware revision**

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

Firmware Datecode: 20160102

Firmware Revision: 2307781\_551210

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.7

## **ENHANCEMENT:**

Base:

- Added support for printing TIFF files.
- Additional support added for Code128, Code 3of9, OCR-A, and OCR-B.
- IPP Job Mandatory attributes and Page Overrides are supported in Airprint 1.5 phase 2.
- The device now has the capability to directly print TIFF files from the walk up USB port.
- When No Media Type is specified in the job and Tray 1 is loaded and configured (ex: letter, cardstock), a prompt with the default media type is seen in the mount (default: plain). If we press "OK" then the tray will be seeded to the job size and type. If the user decides to not accept this change and selects the modify button and change the tray1 type and press ok, the mount comes back. What this means is that the user will not be able to use what is loaded and configured in Tray1 with the current job. This requirement provides the capability wherein an "Options" button is displayed instead of "OK" in the mount and once user presses Option button, he should be able to see two listings for Tray1, one with the current tray settings and one with the Job settings. Once user selects Tray1 with Job settings, Job size and Job type will be seeded in Tray1 and Job will get printed from Tray1. If user selects any other listing it will be treated as override of Job to tray settings.

Security/Authentication:

- HP SureStart - The printer's BIOS is a set of boot instructions to initiate hardware components and load the HP FutureSmart firmware. HP Sure Start validates the integrity of the BIOS, and if a compromised version is discovered, the device restarts using a safe, "golden copy" of the BIOS.
- Runtime Intrusion Detection checks for anomalies in system memory during complex firmware and memory operations. In the event an anomaly is detected, the device automatically reboots. If the Auto-recover feature is disabled, or the anomaly occurs twice within 30 minutes, the device reboots to a secure, offline state.
- Whitelisting ensures only authentic, HP firmware code that has not been tampered with is loaded into memory. If an anomaly is detected, the device reboots to a secure, offline state.

Embedded JetDirect:

- Added support for new USB accessory (HP Jetdirect 2900nw). Wireless STA with second Ethernet connection.
- Added support for new USB accessory (HP Jetdirect 3000w). Wireless AP with NFC and Wireless Direct.

## **FIXES:**

### Base:

- PCL XL error page is printed intermittently after retrieving the encrypted stored Jobs.
- 49.4A.04 error is seen when printing certain PDF documents using PS driver or Direct Print.
- 49.4A.04 error is seen when printing certain Microsoft Word documents using the Print feature in the EWS.
- Printing certain PDF files using the Print Feature in the EWS may result in a blank page being printed.
- Report pages are still able to be printed when Access Control has been locked down for those menu items.
- Slow printing observed when using direct PDF for scanned documents.
- Improvement in print performance of certain PDF files.
- Configuration page not printed in few localization languages (Croatian, Romanian, Slovak, Slovenian, Catalan, Indonesian, and Thai).
- Improved small job performance.
- Device hangs in "processing" state intermittently.
- When printing specific PDF documents via Unix, users can get a message regarding an Invalid Font, Failed reading start X ref number.
- Added the ability to support more characters when defining user defined paper types via the embedded web server.
- Troubleshooting tab localization is wrong in German Language.
- Improved remote control-panel allowing access to remote operators while the initial language and date/time wizard is open for new device installations as well as some error messages.
- You may see a delay in accepting data in the middle of a job or between jobs when using the Equitrac solution.
- HPAC15.0 does not read proximity card correctly when waking from sleep mode with OXPd1.7
- Keyboard layout setting is changed from "English (UK)" to "Japanese (Romaji)" after upgrading FW from 3.2.7 to 3.4.
- Accented characters missing with univers font on 3.4.
- Slow printing of specific PDF files.
- Unable to receive toner cartridge low alert email from when toner threshold value is reached.
- The Esc E command is not resetting the PCL5 print environment when used with the PaperType command.
- Lines on page may not print when using certain PS or PDF print files.

- Adding a WJA Template has the potential to produce a 46.23.1C error.
- You may see the devices intermittently stop responding to SNMPv3 queries after 2-3 weeks of up-time.
- SNMP Value for hrMemorySize (OID 0.1.3.6.1.2.1.25.2.2.0) is reporting Incorrect Memory Size.
- Arabic words on WinForms have separated letters only.
- A 49.38.07 may be seen on the control panel for no apparent reason.
- Cartridge Very Low message is cleared while opening and closing doors.
- Slow performance on PPT files.

#### Security/Authentication:

- Home Screen Sign-In configuration (deny guest access) lost after firmware upgrade.

#### Embedded JetDirect:

- Telnet setting "Bonjour RCNFG" reverts to zero after power cycling the printer.
- Intermittent system hang seen on several or all devices on the same subnet at around the same time, devices are not even pingable.
- Upgrading from FS 3.4 will cause Bonjour protocol to be enabled - even if it was previously disabled.

Current firmware revisions included in this firmware bundle:

#### **DEVICE FIRMWARE REVISION**

COMPONENT	FIRMWARE VERSION
HP LaserJet Enterprise M506	Firmware Datecode: 20160102 Firmware Revision: 2307781_551210
Embedded JetDirect:	JSI23700101
DC Controller:	1.119
HP Fleet Release Designation	Original Release FutureSmart 3.7

## **Enhancements and Fixes provided with Previous Firmware revision**

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

Firmware Datecode: 20150908

Firmware Revision: 2306272\_536012

HP Fleet Bundle Version Designation: FutureSmart Bundle Version 3.6

## **ENHANCEMENT:**

Base:

- 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

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 LaserJet Enterprise M506	Firmware Datecode: 20150908 Firmware Revision: 2306272_536012
Embedded JetDirect:	JSI23600140
DC Controller:	1.118
HP Fleet Release Designation	Original Release FutureSmart 3.6



No Previous Releases – Original Version

## Installation Instructions

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**NOTE:** Please be aware that an update in some circumstance may require ten minutes or more to complete.

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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. Scroll down and select the **Administration** menu.
3. Select the **Reports** menu.
4. Select the **Configuration/Status Pages** menu.
5. Select the **Configuration Page** option.
6. 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: 20150218  
Firmware Revision: 2304070\_439650

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.

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**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.

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## 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)

Please visit the following link to a view video on this firmware upgrade method explained below. <http://youtu.be/Gv6OprEg7Es> or <http://link.brightcove.com/services/player/bcpid1190528646001?bctid=REFIDBC3707096437001>

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**NOTE:** Please be aware that an update in some circumstance may require ten minutes or more to complete.

---

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 tab**.
4. Browse to the location that the firmware upgrade file was downloaded to, and then select the firmware file. Select the Install button to perform the upgrade.

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

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5. Select **Restart Now** from the EWS confirmation page, or turn the product off and then on again using the power switch. The printer will not automatically reboot.

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)

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

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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). USB Flash Drives with a CD formatted partition may not be recognized by the printer. You may need to try a different USB flash drive.

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**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.

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

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**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 reboot.

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9. When the message **Complete** appears on the control panel display, press the Back button several times until you see the **Continue** menu, then press the OK key.
10. The printer will continue to boot to the Ready state.

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)

Please visit the following link to a view video on this firmware upgrade method explained below. **YouTube address:** <http://youtu.be/IOsm1Z-dBJU> or <http://link.brightcove.com/services/player/bcpid1190528646001?bctid=REFIDBC3707191411001>

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).

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**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.

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2. Turn the printer ON.
3. Scroll down and select the **Device Maintenance** application.
4. Select the **USB Firmware Upgrade** menu.
5. Insert the portable USB storage device with the xxxxxxxx.bdl file on it into the USB port on the front control panel of the product.
6. Select and highlight the xxxxxxxx.bdl file you would like to use.

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

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7. Select the Upgrade button on the bottom of the screen.
8. Next select the Upgrade, Re-install or Downgrade depending on the task you want to complete that the firmware install will start.

When the upgrade is complete, the printer will reboot automatically.

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

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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 10.3 SR8 or newer)

Please visit [www.hp.com](http://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 10.3 SR8 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.

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**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 10.3 SR8 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.

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**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.

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### **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 LaserJet Enterprise M506 Series Support:**

URL for Firmware downloads:

<http://www.hp.com/support/ljM506>

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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