HP COLOR LASERJET MANAGED FLOW MFP E877xx SERIES
HP COLOR LASERJET MANAGED MFP E877xx SERIES

Firmware Readme

Product Name(s):
• HP Color LaserJet Managed Flow MFP E87740z
• HP Color LaserJet Managed MFP E87740dn
• HP Color LaserJet Managed Flow MFP E87750z
• HP Color LaserJet Managed MFP E87750dn
• HP Color LaserJet Managed Flow MFP E87760z
• HP Color LaserJet Managed MFP E87760dn
• HP Color LaserJet Managed Flow MFP E87770z
• HP Color LaserJet Managed MFP E87770dn
Model Number(s): 5QK03A • 5QK08A

This document contains information for the firmware revision number:
Firmware Datecode: 20241216
Firmware Revision: 2508402_000076
Fleet Bundle Version Designation: FutureSmart Bundle Version 5.8.1.2

Description
-- What is included in the Firmware bundle?
-- Who needs this firmware?
-- Determining the current version level of your firmware

Enhancements and Fixes provided with this firmware revision
Enhancements and Fixes provided with the previous revision(s)

Installation Instructions
-- Additional Information to know
-- Using the Embedded Web Server
-- Using the Walk up USB port
-- Web JetAdmin

FutureSmart Level Switching Procedures
-- Embedded Web Server (EWS)
-- Device Control Panel
-- Web JetAdmin

System Requirements
Technical Assistance
Customer Support
Internet
Additional Information

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 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: 20220602

Firmware Revision: 2505192_030516

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20241216
Firmware Revision: 2508402_000076
Fleet Bundle Version Designation: FutureSmart Bundle Version 5.8.1.2

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:

➤ No new updates

Digital Sending:

➤ No new updates

Analog Fax:

➤ No new updates

Security/Authentication:

➤ Please check the HP Security Bulletin links for more information about security fixes included in this release.

Embedded JetDirect:

➤ No new updates

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	VERSION
Firmware Datecode	20241216
Firmware Revision	2508402_000076
Embedded JetDirect	JOL25080321
Engine Firmware Revision	20241204_2109.25811_SYNC_2508313
SCB	xxxxCA2421DR 1.0
Fleet Release Designation	FutureSmart 5.8.1.2
MD5 checksum for .bdl file	b369db7d7a9945e74172b8ff5cd5d826

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20241116
Firmware Revision: 2508385_053969
Fleet Bundle Version Designation: FutureSmart Bundle Version 5.8.1.1

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:

- ➢ Added support for Chou #3 envelope size.
- ➢ Modifications to the German-Swiss keyboard layout to improve ease of use.
- ➢ Supply settings have been added to the Backup/Restore process.

Digital Sending:

- ➢ Added support for searchable Optical Character Recognition (OCR) in non-flow bundles.
- ➢ Incoming faxes can be transferred to multiple email destinations.

Analog Fax:

- ➢ Updated the search capabilities within the fax address book to be more user-friendly.
- ➢ The "+" character is now available on the control panel interface for internet fax jobs.
- ➢ Added support for sending faxes over the two different fax lines found on the dual analox fax accessory.
- ➢ Added Fax Send/Receive Completion Alarm tone.

Security/Authentication:

- ➢ No new updates

Embedded JetDirect:

- ➢ Added support for up to 32 DNS suffixes.

FIXES:

Base:

- ➢ Intermittent 49.38.03 error may occur when performing a Scan to Email job.
- ➢ Pages may print out of order when duplex copying via Automatic Document Feeder (ADF) or printing from driver.

- ➢ A light black line may appear on the back side of a page when the previous printed page is using 150g or heavier media.
- ➢ Print sample or target files may fail to print when sent from the Custom Color Manager 2.1 application to a device.
- ➢ A 49.38.03 error may occur when printing certain customer generated PDF files.
- ➢ Certain types of direct PDF print jobs will appear to start processing and fails to print.
- ➢ A Postscript error may occur when printing specific PDF large file.
- ➢ Print jobs may fail to print when sent via IPP printing from a Chrome OS device.
- ➢ Longer than expected processing time many occur for PDF files produced by Microsoft Universal Print.
- ➢ Specific PDF files are not able to be processed directly by the printer.
- ➢ Direct PCL printing may prompt for the incorrect custom paper size.
- ➢ Added the ability to cancel copy jobs after an unattended error.

Digital Sending:

- ➢ A 48.05.03 Constraint error may occur followed by 49.38.07 crash when performing a scan to E-mail or scan to Network folder job.
- ➢ An SMTP gateway not responding message may occur when scanning and using IPv6, even though emails are successful.

Analog Fax:

- ➢ A fax communication error may occur while switching between analog and IP fax jobs.

Security/Authentication:

- ➢ Windows LDAP authentication may fail after a reboot or waking from sleep.
- ➢ A 45.08.02 error may occur after swiping HID proximity key.
- ➢ Email may fail to send when NTLMv2 is configured on SMTP.
- ➢ A longer than expected pause between jobs may occur when retrieving more than one password-encrypted stored job.
- ➢ Device is not able to use two Root CA Certificates with same name.

Embedded JetDirect:

- ➢ When IPv6 address is empty, signaling to UDP may not be successful.
- ➢ An 81.09.00 error may occur when selecting the wrong Cipher for authentication.
- ➢ The device may not send ARP at the end of DHCP ACK when communicating with a DHCP server.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	VERSION

Firmware Datecode	20241116
Firmware Revision	2508385_053969
Embedded JetDirect	JOL25080321
Engine Firmware Revision	20240908_1944.25R_SYNC_2508305
SCB	xxxxCA2421DR 1.0
Fleet Release Designation	FutureSmart 5.8.1.1
MD5 checksum for .bdl file	8d81deeb1a54b3c89af16766dfd60715

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20240723
Firmware Revision: 2508048_049289
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.8

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:

- ➢ Added support for direct FTP protocol printing.
- ➢ Added support for JPOST media sizes.
- ➢ Added Vietnamese language support for the control panel.
- ➢ Incorrect job printing order may occur when a print job is interrupted for a Copy job.
- ➢ Added Basque language support for the control panel.

Digital Sending:

- ➢ Added support for Scan to OneDrive with Microsoft Sign In (Username and Password).
- ➢ Added support for Scan to SharePoint with Microsoft Sign In (Username and Password).

Analog Fax:

- ➢ No new updates

Security/Authentication:

➢ Added VPN support to the printer.

Embedded JetDirect:

➢ No new updates

FIXES:

Base:

➢ The Start/Copy button in the lower right corner is grayed after trying to perform an expert copy when using the Automatic Document Feeder to copy a B4 double-sided job and then copying a colored separator page through Tray 1 to distinguish a different job.
➢ A false 30.03.45 error may occur when performing a forced shutdown.
➢ Line distortion and blocks may appear on scanned images with default scan resolution.
➢ The device may display "System Busy" after an Automatic Document Feeder (ADF) jam occurs during a scan job.
➢ The Cartridge Access Control settings menu may not be displayed on the initial setup menus in certain instances.
➢ A vertical line may appear on the leading edge of a printed page.
➢ A System Main Failed error may occur due to a memory allocation failure when processing print and copy jobs at the same time.
➢ A 49.00.FF error could be observed when printing JPG files from a USB thumbdrive.
➢ A 49.38.07 error may occur when switching the home screens during the sign in process of the device.
➢ A3 copies will always be counted as color when the Foreign Interface Harness (FIH) is enabled and using the automatically detect Color/BW setting.
➢ The printer page counts may be lost after receiving a 49.38.0D error.
➢ A 49.38.03 may be observed when printing with custom paper size settings.
➢ Some device settings could be lost due to a Disk Full Unhandled Exception.
➢ A timeout message may appear instead of successfully retrieving polled data when using SNMPv3.
➢ High Capacity Input may experience a shift and lift fault.
➢ 10.00.A0 and 10.01.A0 and 10.02.A0 and 10.03.A0 errors are not showing up on the control panel, but they are logged in eventlog.
➢ The device may have a blank display due to a failure in the Island of Data (IoD) module.
➢ A 45.08.01 USB initialization error may occur when authenticating with certain USB card readers.
➢ Some card readers intermittently fail to authenticate the user.
➢ Color output improvements have been made when using the Custom Color Manager to install color maps.

- The X of Y copy count text is translated incorrectly in Japanese within the Job Log menu.
- HP CAC Readers may become unresponsive when upgrading to FutureSmart 5.7.1.1.
- A 49.38.07 may be observed when printing an A4/Letterhead job with Alternate Letterhead Mode enabled.
- A "cCleanDocumentFeederRollers" message may be incorrectly recorded on the Event Log page.
- A PDF file may print a black background when it is supposed to be blank (paper white) using the Macintosh HP driver.
- The "Print List" text is translated incorrectly in Japanese within the Print from Job Storage menu.
- An "Unknown Error has Occurred" message appears when accessing the Job Log tab within the Embedded Web Server.
- Print quality issues may occur when printing gray or lighter colors.
- An error may be observed stating that the job contains too many pages to make a booklet.
- Some PDF files may fail to print completely when submitted via Print From USB Drive or using the Print menu of the Embedded Web Server Information tab.
- Devices may randomly not establish communication to the Network Time Server.
- A User Interface hang may be encountered when transitioning to a third party kiosk application.
- Printer may hang when printing A5 jobs from certain trays.
- A 50.FF.07 fuser over heating error may occur while fuser is heating up.
- A misaligned hole punch location intermittently occurs when processing large print jobs with hole punching on a device using the external finisher.
- Poor Scan quality may occur for documents with Fluorescent Highlighters being used.
- Copy image quality improvements have been implemented.
- A 49.38.03 error may occur when an Elite Accounting License has expired after upgrading to 5.7 firmware.
- A 42.26.00 Insufficient memory error may occur when printing high resolution images through the Direct PDF path in the Embedded Webserver or Front Control Panel.
- Improvements and updates have been made on Workpath SDK to work properly with 3rd party card readers.
- The "MakeAndModelFamily" name may be lost when a formatter board is replaced. This value name is used by some fleet monitoring solutions when identifying the device.
- SNMP OID npCfgIPConfigPrecedence (1.3.6.1.4.1.11.2.4.3.5.59) does not accept valid input.
- The Enter Key on the physical keyboard does not work when the virtual keyboard has been disabled.
- Devices using L1 solutions may experience a USB initialization error on startup.
- The Automatic Document Feeder (ADF) may falsely detect the end of job even though the device has several more pages to scan in the ADF.

- A high pitch noise may occur during the wake-up process after the device has been sitting idle for more than 2 hours.
- The Scheduled Power On feature will not boot up printer.
- A pin print driver job may be removed from the print queue and will be marked with the job status reason of "job-password-wait", and the job will be marked as completed.
- A 30.03.46 error "Dust detected on scanners" may appear in the event log even after cleaning the glass to help with the image quality.
- A 49.DE.2B error may occur when displaying larger job list with OXPD error logging turned on.
- The supplies help screen topics are missing from the control panel.
- The word Exit within the support tool menu was incorrectly translated within the Japanese language.
- An "Install Fuser Unit" error may occur if device has been power cycled or coming out of deep sleep several times within 20 minutes.
- A "Could not connect to the Quota server" error may occur when performing a Scan + job.
- When using the Crop to Content feature the device will continue to clip images with yellow content.

Digital Sending:

- Scan to SharePoint jobs may slow down and may cause a 44.16.0D after a few jobs.
- Distorted or missing images could result when performing a scan to USB or scan to network folder job using recycled media.
- User prompted for credentials during scan job when quickset specifies "Always use these credentials".
- A 49.DE.11 error can be observed when performing a native Scan to Folder job.
- When performing an OCR Scan job within the German language, certain text in the scanned document cannot be found.
- Encrypted emails fail for case mismatch between the Active Directory mail attribute and the Subject Alternative Name (SAN) in the certificate.
- The device may not log the user out after the inactivity period has been reached in certain instances.
- A 49.38.07 error may occur if the recipient email address is entered directly into the TO field when both the local and the LDAP address book are active on the printer.

Analog Fax:

- Fax archive fails to process.
- Unable to send or receive faxes due to Private Branch Exchange (PBX) mode not working properly.
- Lanfax notifications do not work when a "-" (dash) is included in the destination phone number.

- ➢ Failed faxes are incorrectly reported as Stored on Fax Activity Log.
- ➢ Canceled Faxes are incorrectly reported as Stored on Fax Activity Log.

Security/Authentication:

- ➢ Firewall rules are still allowing access to the Embedded Web Server.
- ➢ HTTPS jobs over TLS 1.3 may fail to send even after successfully negotiating the initial connection.
- ➢ Update within code to account for mismatch between syslog and security log
- ➢ Networking > Security Settings > Status page in the Embedded Web Server always shows the Firewall as "Disabled" even when it is enabled.
- ➢ "Unexpected LDAP address book error" may occur when using the network address book feature.
- ➢ An intermittent Kerberos authentication failure may be observed.
- ➢ Session Setup Response randomly contains error: STATUS_USER_SESSION_DELETED (0xc0000203)

Embedded JetDirect:

- ➢ Device answers ping from server (server-side conflict resolution) during DHCP DORA process causing multiple IP addresses to be consumed.
- ➢ Device may utilize more than one IP address for a single interface.
- ➢ Device may get stuck in a DHCP loop after a power failure.
- ➢ Not able to change certain values within the wireless configuration of the device when configuring the device through the Web JetAdmin tool.
- ➢ Ports 7627, 80, and 443 can sometimes stop responding a few hours to a few days following bootup.
- ➢ DHCP response with option 119 may cause connectivity issues with accessing the Embedded Web Server and printing.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20240723
Firmware Revision	2508048_049289
Embedded JetDirect	JOL25080030
Engine Firmware Revision	20240715_1928.25R_SYNC_2508005
SCB	xxxxCA2421DR 1.0
HP Fleet Release Designation	FutureSmart 5.8
MD5 checksum for .bdl file	c7a357ae8701762d8d18c683b356b494

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20240129

Firmware Revision: 2507252_046156
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.7.1.1

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:

- ➢ Added Vietnamese language support for the control panel.
- ➢ Added support for the Wide A4 media size.

Digital Sending:

- ➢ No new updates

Analog Fax:

- ➢ No new updates

Security/Authentication:

- ➢ No new updates

Embedded JetDirect:

- ➢ No new updates

FIXES:

Base:

- ➢ A misaligned hole punch location intermittently occurs when processing large print jobs with hole punching on an HP Color LaserJet Managed MFP E87770 with external finisher.
- ➢ The "MakeAndModelFamily" name may be lost when a formatter board is replaced. This value name is used by some fleet monitoring solutions when identifying the device.
- ➢ The Automatic Document Feeder (ADF) may falsely detect the end of job even though the device has several more pages to scan in the ADF.

- ➢ Some Double-Byte font characters may not print correctly when printing from SAP.
- ➢ Improvements and updates on Workpath SDK to work properly with 3rd party card readers.
- ➢ The "Print List" text is translated incorrectly in Japanese within the Print from Job Storage menu.
- ➢ A device crash occurs due to memory corruption when an Inepro card reader is attached and card reader data is read.
- ➢ The X of Y copy count text is translated incorrectly in Japanese within the Job Log menu.
- ➢ The virtual keyboard is not able to be disabled when the hard keyboard is present.
- ➢ Printing hangs while processing some password-protected, stored print jobs until the printer is rebooted.
- ➢ Random print jobs disappear and never print after the device has been in sleep mode for several days. Copy and Scan job work.

Digital Sending:

- ➢ No new updates

Analog Fax:

- ➢ No new updates

Security/Authentication:

- ➢ LDAPs Contact List fails when SPNEGO authentication is selected.
- ➢ Smartcard authentication does not work for all users on Series 400 and newer products.

Embedded JetDirect:

- ➢ Embedded Web Server may become unresponsive when the TLS is limited to 1.2 and higher after installing a CA-signed ID certificate.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20240129
Firmware Revision	2507252_046156
Embedded JetDirect	JOL25077219
Engine Firmware Revision	20231024_0322.25R_SYNC_2507203
SCB	xxxxCA2349AR 1.0
HP Fleet Release Designation	FutureSmart 5.7.1.1

MD5 checksum for .bdl file	b095aa0bfeeb285a1e06a0b68b87862d

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20230923
Firmware Revision: 2507052_043290
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.7

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

Digital Sending:

 ➢ Added support to be able to Export/Import of all types of Quicksets that may have Authentication requirements.

Analog Fax:

 ➢ No new updates

Security/Authentication:

 ➢ Added the ability to contact more than one LDAP server if the primary server cannot be reached.

Embedded JetDirect:

 ➢ No new updates

FIXES:

Base:

- Initializing Accelerator Card error may occur after updating firmware to FutureSmart 5.6.0.1.
- Tray orientation icon is incorrect when printing/loading envelopes.
- A 30.03.45 scanner communication error may occur when canceling a job.
- A 61.00.02 error may occur when printing certain types of PDF files.
- Exporting report pages to a USB thumbdrive may take more than 20 seconds after control panel says complete.
- The control panel goes blank or hazy when launching Workpath apps running on FutureSmart 5.6.0.2.
- May see a higher than normal wrap jam sensor calibration error.
- Black lines which appear to look like a bar code may print on the side of an image within certain files.
- Third party card reader firmware update tool does not work properly.
- A prompt for SNMP credentials may occur in Web JetAdmin when configuring certain settings due to an SNMP response time of more than .5 seconds when the device is in deep sleep.
- Only half of radio button is displayed on the IP address range setting screen in the Embedded Web Server (EWS).
- A secondary job in the print queue may not print out after a copy job from the ADF has finished printing.
- Booklet finisher may fail to staple on certain media types.
- The Image Overlay feature within the copy menu is rotated and printed 180 degrees from normal.
- A 49.38.07 error may occur when printing A4/Letterhead media with Alternative Letterhead Mode (ALM) being enabled.
- Missing or wrong character may be displayed on the control panel compared to the Japanese Keyboard layout overlay.
- Paper feed may not be pulling media when Automatically Select Tray is being used with Expert Copy.
- Cartridge Access Control (CAC) becomes disabled after installing new toner cartridges.
- The wrong model name is not updated within some SNMP OIDs after installing a speed license.
- A 49.DE.11 error will occur when using the external keyboard to adjust Image position within the Support Tools menu.
- A 49.4A.0A and 49.38.07 error may be seen when printing specific Postscript files.
- The control panel user interface may slow down as more quicksets are added.
- A Client Error: Document Format Not Supported may be seen when the printer is responding to an IPP request and there are more than 80 quicksets loaded.
- A communication failure may occur when the device is connected to a PC using a USB cable.
- The Friday abbreviation is localized incorrectly in the German language within the Energy Settings menu.
- Incorrect printed page order may occur when printing from Tray 1 with specific jobs.

> ➢ A "Checking Hardware" hang will occur during the first reboot after a firmware upgrade is performed when SDS/JAM is installed.

Digital Sending:

> ➢ A document is incorrectly detected as officio when an A3 size media is placed in the Automatic Document Feeder (ADF).
> ➢ Poor scan quality may be seen for choosing Searchable PDF with Redactions.
> ➢ Device Hangs when performing a Mixed media Scan job with OCR.
> ➢ Device hang is seen after an Automatic Document Feeder (ADF) jam when performing an Email job with OCR.
> ➢ Archived scan files stored on the hard disk drive may be removed automatically.

Analog Fax:

> ➢ Incoming fax failures may occur while using a MFP fax device with Cisco ATA 190.
> ➢ Fax numbers are not blocked if there are space between the numbers.

Security/Authentication:

> ➢ Badge Authentication may require up to 3 swipes to login to certain solutions when the first swipe of the badge is waking the printer up.
> ➢ Added support for more Active Directory group names.

Embedded JetDirect:

> ➢ Embedded Web Server hangs may occur after Syslog is configured for the TLS protocol.
> ➢ Intermediate CA certificates not being shared during TLS handshake process.
> ➢ Not able to print jobs from a cloud based application when using IPP, with a publicly trusted certificate.
> ➢ DHCP configuration being released after successful 802.1x authentication.
> ➢ Hostname for scan-to-folder jobs not getting resolved when network does not have local DNS support.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20230923
Firmware Revision	2507052_043290
Embedded JetDirect	JOL25077011
Engine Firmware Revision	20230809_2134.25R_SYNC_2507005
SCB	xxxxCA2325BR 1.0
HP Fleet Release Designation	FutureSmart 5.7
MD5 checksum for .bdl file	76a8eedf3727864cd89bd8d3cf79ecf9

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20230521
Firmware Revision: 2506649_040426
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.6.0.2

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:

➢ Enable print job encryption and signing in the UPD using user public and private key from HP US Government smart card. Also enable print job validation and decryption using a US Government smart card solution.

Digital Sending:

➢ Improved performance when importing a bulk encrypted address book.

Analog Fax:

➢ No new updates

Security/Authentication:

➢ No new updates

Embedded JetDirect:

➢ No new updates

FIXES:

Base:

➢ Mono booklet copy job pages will print in the wrong order and pages may be duplicated when the speed license is set to 70 ppm.
➢ A 49.DE.11 error will occur when pressing the ? question mark on the front control panel when using Suomi (Finnish) language.

- The control panel user interface may slow down as more quicksets are added.
- The Job Accounting Data in Device User Statistics log may be incorrect when sending stored jobs with an unmatched User Access Code in UPD or SUPD print driver.
- The Announcement Agent no longer works after performing a "Reset Firmware" from within the Embedded Web Server.
- The device will reboot a second time while configuring some security-related features if an LPD license has been installed.

Digital Sending:

- Scan+ and Scan To USB Drive has wrong translation for Destination in the Japanese language.
- Blank pages are not deleted from the scanned document, with both scan to folder and scan to email if the option "Suppress Blank pages" is enabled + the option to "create Multiple Files" is enabled using Blank page Separator (red/pink/orange page).
- Authentication fails when umlaut characters are used in scan-to-folder password.

Analog Fax:

- No new updates

Security/Authentication:

- 802.1x authentication fails immediately after the printer sends its certificate.
- Occasionally, a "STATUS_USER_SESSION_DELETED" error will be returned from a Microsoft file server in response to an SMB Session Setup Request from an HP MFP device.

Embedded JetDirect:

- No new updates

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20230521
Firmware Revision	2506649_040426
Embedded JetDirect	JOL25060606
Engine Firmware Revision	20230501_2114.25R_SYNC_2506605
SCB	xxxxCA2247CR 1.0
HP Fleet Release Designation	FutureSmart 5.6.0.2
MD5 checksum for .bdl file	93285deedb03848e9b304c5fd4c02b97

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20230401
Firmware Revision: 2506421_038579
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.6.0.1

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:

> Introduced new Workpath requirements and features.

Digital Sending:

> No new updates

Analog Fax:

> No new updates

Security/Authentication:

> No new updates

Embedded JetDirect:

> Added support for the new USB keyboard part# 266C9AA.

FIXES:

Base:

> A certificate error will occur when using the Oxpd solution with an older certificate.

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	20230401
Firmware Revision	2506421_038579
Embedded JetDirect	JOL25060023
Engine Firmware Revision	20221215_1916.25R_SYNC_2506008
SCB	xxxxCA2247CR 1.0
HP Fleet Release Designation	FutureSmart 5.6.0.1
MD5 checksum for .bdl file	d5b8321d6bd4d0771141b08ea0d0b9e6

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20230207
Firmware Revision: 2506116_037323
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.6

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:

> ➢ Added the ability to Enable and Disable the Server Message Block (SMB) versions
> SMBv1, SMBv2, and SMBv3.

- ➢ Added administrator controls for the clear event log command via Access Control section of device security to ensure that event logs are not erased as part of a service routine.

Digital Sending:

- ➢ No new updates

Analog Fax:

- ➢ No new updates

Security/Authentication:

- ➢ Added support for HMAC-SHA2 during negotiation of a secure session.

Embedded JetDirect:

- ➢ No new updates

FIXES:

Base:

- ➢ The incorrect part number for the output bins are displayed on the configuration page and other monitoring utilities.
- ➢ Wrong supplies part numbers may be seen on both the control panel as well as other supplies monitoring utilities.
- ➢ A 30.01.44 error may occur due to the scan bar being out of alignment.
- ➢ The wrong output size of A6 is saved when the original scan size is A4 when scanning to a USB thumbdrive with a .jpg file format.
- ➢ Icons in the upper left corner of the control panel may be overlapping when using a Workpath application.
- ➢ The Auto Paper Color Removal functionality does not work with mono copy jobs.
- ➢ The Announcement Agent no longer works after performing a "Reset Firmware" from within the Embedded Web Server.
- ➢ An SNMP GET request fails to respond when SET community name is set and read/write access is enabled.
- ➢ A delay in printing may occur with an iPad or iPhone when using the AirPrint protocol.
- ➢ A 49.38.03 error may occur when signing in using a badge and then selecting an application on the control panel before the sign-in completed.
- ➢ A 49.38.07 error may occur in certain instances when printing any file after loading a custom color table.
- ➢ Custom pre-pend and append strings not working in LPD custom queue setup.

- ➤ The SNMP default Community Name "public" is not working on new or newly reset devices.
- ➤ A 49.38.07 error may occur when setting up fax storage and printing.
- ➤ An OpenWnn error message appears on the control panel when using a Workpath application when the control panel is set to the Japanese language.
- ➤ An incorrect message is displayed when performing an Embedded Web Server Export operation.
- ➤ Expert Copy help content is not matching the actual functionality of the menu.
- ➤ Blank pages may be printed on certain files when sending a Direct PDF print job.
- ➤ The Card Identification number is missing alphanumeric digits with the Embedded Badge Authentication using proximity card reader X3D03A compared to HP Card Reader Configuration Utility.
- ➤ A 49.38.07 error may occur when printing a C5 envelope.
- ➤ A 49.4A.04 error may occur when printing a PDF file with the MacOS AirPrint driver.

Digital Sending:

- ➤ Network Contact list not responding until most of the name is entered when used from the Control Panel.
- ➤ A 451 response error code will occur due to the SSRF countermeasure sending the incorrect forgery username format.
- ➤ Intermittent send-to-email failures may occur due to Gmail server timeouts.

Analog Fax:

- ➤ A 99.07.22 error may occur when the formatter is trying to communicate with the fax modem or when trying to upgrade the fax firmware and it fails.

Security/Authentication:

- ➤ Unable to read or set ePrint Settings via Web Jetamin.

Embedded JetDirect:

- ➤ HP Web Jetadmin cannot read or set the ePrint Settings on FutureSmart 5 devices.
- ➤ The device may fail to wake up from deep sleep and re-authenticate when using a secure 802.1x network.
- ➤ A PrintUri status may return a "job-completed-successfully" message even though nothing has printed.
- ➤ A "Cannot contact LDAP server" error may occur when the device "Use a secure connection (SSL)" setting is enabled.
- ➤ Port 515 is open when LPD is disabled. Port 631 is open when IPP/IPPS is disabled.
- ➤ 802.1x authentication fails when TLS 1.0 is disabled.

- ➢ JetDirect config page can be misleading or incorrect when Ethernet interface is not connected.
- ➢ 81.09.00 errors may occur under certain network environment and circumstances.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20230207
Firmware Revision	2506116_037323
Embedded JetDirect	JOL25060021
Engine Firmware Revision	20221215_1916.25R_SYNC_2506008
SCB	xxxxCA2247CR 1.0
HP Fleet Release Designation	FutureSmart 5.6
MD5 checksum for .bdl file	15ae862ea2b08b7bc8fe2aa94c87cd62

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20221111
Firmware Revision: 2505701_000865
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.5.0.3

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:

➢ An "Unexpected Error has occurred" message may appear within the Embedded Web Server when trying to change the Custom Tray Mapping setting.
➢ The control panel may become unresponsive and hang when the device is left idle for a long time after a power cycle.
➢ Macros will not stay resident on a USB storage device after rebooting the printer.
➢ An incorrect localization string is showing on the Part Replacement Count for the magenta cartridge.
➢ Print jobs are not getting processed by the I/O Filter if a PCL print job is not encapsulated with PJL.
➢ OXPd Solutions that rely on POST methods while using the user interface will now correctly re-post the body of the request (e.g. URL form encoded data) if redirected with a 307 response from the web server.
➢ User sign-in attempts with badges may be ignored if using some third party and HP branded solutions. This occurs if those solutions are using the OXPd Callback Operation SDK and attempting to reserve authorization contexts without admin credentials.
➢ A "Device User" is not able to add contacts to a Group and will only be able to add individual contacts when accessing the Embedded Web Server's Access Controls.
➢ Fax speed dial data may not import onto a device if there are incorrect Japanese characters on the web page or Embedded Web Server.
➢ Notification jobs are printed in mono but counted as color when a thumbnail is included.
➢ The Copy button at the bottom of the control panel home screen may randomly be grayed out.
➢ The resolution values for the control panel wallpaper in the Embedded Web Server are incorrect.

Digital Sending:

➢ Scanning from the flatbed may produce a PDF file with a gray background after upgrade to the FutureSmart 5.5 firmware bundle.
➢ 44.01.3F and 44.01.46 events are seen intermittently in the event log.
➢ Incorrect page orientation may occur while scanning from the flatbed when using the HP Universal Scan Solution.

Analog Fax:

> ➢ A 99.07.22 error may occur when the formatter is trying to communicate with the fax modem or when trying to upgrade the fax firmware and it fails.

Security/Authentication:

> ➢ No new updates

Embedded JetDirect:

> ➢ Device loses the manual network configuration settings during a power cycle if not connected to a network.

Current firmware revisions included in this firmware bundle:

DEVICE FIRMWARE REVISION

COMPONENT	FIRMWARE VERSION
Firmware Datecode	20221111
Firmware Revision	2505701_000865
Embedded JetDirect	JOL25050254
Engine Firmware Revision	20221012_0343.2553_SYNC_2505304
SCB	xxxxCA2233BR 1.0
HP Fleet Release Designation	FutureSmart 5.5.0.3
MD5 checksum for .bdl file	090402f70702dcfcfec4e16920f39dbc

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20220829
Firmware Revision: 2505404_000078
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.5.0.2

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:

- ➢ First page may be creased when duplex printing.
- ➢ Poor toner transfer may occur in high coverage image (blue, green) area during A3 duplex printing.
- ➢ Print quality defect from residual toner on the backside of the first duplex page may occur when print from a mono page to a color page.
- ➢ The incorrect instructions are displayed when performing an ACR Reference Adjustment from within the Support Tools menu.
- ➢ An incorrect localization string is showing on the Part Replacement Count for the magenta cartridge.
- ➢ Manufacturing changes required for this release.

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 Managed Flow MFP E877xx Series HP Color LaserJet Managed MFP E877xx Series	Firmware Datecode: 20220829 Firmware Revision: 2505404_000078
Embedded JetDirect:	JOL25050201
Engine Firmware Revision:	20220829_0009.2552_SYNC_2505209
CPB	6.122j
SCB	xxxxCA2233BR 1.0
Fax	Ver11.4A
Booklet Finisher or Stapler/Stacker Finisher	V03.04
Inner Finisher	V02.14
HP Fleet Release Designation	FutureSmart 5.5.0.2
MD5 checksum for .bdl file	020d4a618c1c0b8afb5a365d6fcb3881

Enhancements and Fixes provided with this Firmware revision

The following new functionality or features are provided by this firmware release:
Firmware Datecode: 20220602
Firmware Revision: 2505192_030516
HP Fleet Bundle Version Designation: FutureSmart Bundle Version 5.5

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 -- 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 Managed Flow MFP E877xx Series	Firmware Datecode: 20220602 Firmware Revision: 2505192_030516

HP Color LaserJet Managed MFP E877xx Series	
Embedded JetDirect:	JOL25050028
Engine Firmware Revision:	20220526_2323.25R_SYNC_2505014
CPB	6.122h
SCB	xxxxCA2223BR 1.0
Fax	Ver11.4A
Booklet Finisher or Stapler/Stacker Finisher	V03.04
Inner Finisher	V02.14
HP Fleet Release Designation	FutureSmart 5.5
MD5 checksum for .bdl file	bc71ff795409bf0c9a934580f23160ba

Installation Instructions

NOTE: Please be aware that an update in some circumstances may require 30 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: 20220602
Firmware Revision: 2505192_030516

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 30 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 30 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 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. Press the **HP** logo in the middle of the screen when you see the "**1/8**" under the logo.

4. Press the Down arrow to highlight **Administrator**, and then press OK.

5. Press the Down arrow to highlight **Download**, and then press OK.

6. Insert the portable USB storage device with the xxxxxxx.bdl file on it.

7. Press the Down arrow to highlight **USB Thumbdrive**, and then press OK.

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

> **NOTE:** Please make sure the firmware file is located in the root directory of the flash drive. If you have more than one .bdl file on your USB flash drive, select the file you want loaded and press OK.
>
> Please be patient since this may take up to 10 minutes to complete.

9. When the message **Complete** appears on the control panel display, power cycle the 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 30 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 10.5 SR2 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 10.5 SR2 or newer
2. From the "Device Management" section, select "All Devices" (or the appropriate device group). An "All Devices" list will appear in the center window.
3. Find your device in the list, or type the IP address of the device in the Quick Device Discovery section in the lower-left of the screen (this will highlight your device in the device list). You can sort the device list by clicking on a column name at the top.

4. If your device list is sorted my model number, you may select multiple devices with the same model number by Control-Click or Shift-Click.
5. Right-click on the device and select "Upgrade firmware...".
6. An Upgrade Firmware window will appear. Select "Device firmware" and click "Next"
7. A list of available firmware will appear. If the correct version is listed, click "Next", and the upgrade process will start.

NOTE: If the correct firmware version does not appear within the list, you will need to manually upload it into WJA. New firmware may be available on an FTP site prior to appearing on hp.com. The instructions below allow you to upload a firmware file from your local PC to WJA 10.5 SR2 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 Managed Flow MFP E877xx Series Support:

URL for Firmware downloads:
www.hp.com/support/colorljE87700mfp

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
Trademark Notices
MS-DOS, Windows, Windows 2000, Excel 2000, Microsoft Office, Windows Server 2003, Outlook, PScript and Internet Explorer are registered trademarks of Microsoft Corporation in the United States and/or other countries.
PostScript is a registered trademark of Adobe Systems Incorporated.
Quark and QuarkXpress are trademarks of Quark Inc.
Mac, Macintosh and Safari are registered trademarks of Apple Computer, Inc.
The Adobe logo, Acrobat, the Adobe PDF logo, Distiller, and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
Novell is a registered trademark of Novell, Inc., in the United States and other countries.
Netscape Navigator, is a registered trademark of Netscape Communications Corporation in the United States and other countries.

License and Copyright
© Copyright 2022 HP Inc., L.P.
The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as

constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.