



HP Color LaserJet Enterprise MFP M681, M682 series

The pinnacle of performance and security



The world's most secure printing¹



Maximum productivity.
High-speed performance.



More. Pages, Performance,
and Protection.

The world's most secure printing¹



Only HP enterprise printers repair themselves from attacks in real time while offering outstanding manageability. Automatically monitor threats, detect intrusions, and validate operating software while centrally managing your fleet with ease.



Always on guard

Only HP Enterprise printers offer built-in security features that are always on guard.¹

- With HP Sure Start, each device regularly checks its operating code and repairs itself from attempted hacks.
- Whitelisting checks firmware during startup to help ensure it's authentic, good code—digitally signed by HP.
- Run-time intrusion detection continually monitors activity to detect and stop attacks, then automatically reboots.

Get instant notification of potential security issues so immediate action can be taken to prevent potential attacks. This MFP works with leading Security Information and Event Management (SIEM) tools like Splunk and ArcSight.



Take security to the next level

Help protect your MFP with more than 250 embedded security features.² Protect information on the MFP and in transit over the network. Store data on the 256-bit encrypted HP High-Performance Secure Hard Disk.

Add features such as card readers and more through the Hardware Integration Pocket.³ Equip your MFP to store and protect larger files with the optional 1 GB memory upgrade. Further safeguard data stored on the device—keys, passwords, certificates, and more—using the optional HP Trusted Platform Module.⁴

Easily develop, deploy, and integrate HP and third-party solutions with the HP Open Extensibility Platform. Optional HP Access Control solutions can help you reinforce security, while helping to reduce costs.



Centralise control to help build business efficiency

Centralise control of your printing environment with HP Web Jetadmin.⁵ Optional HP JetAdvantage Security Manager offers an effective, policy-based approach to help secure HP devices.⁶ Easily set security configuration policies and automatically validate settings across the fleet. For more information about security, please see Appendix A, page 14; for details about fleet management, please see Appendix B, page 17.

Simplify business printing with the industry's first SaaS (Software as a Service) portal⁷ for managing both apps and users—HP JetAdvantage On Demand boosts productivity and eliminates server and software investments from one convenient website.⁸ Protect confidential print jobs with HP JetAdvantage Secure Print⁹ or HP JetAdvantage Private Print.¹⁰

Maximum productivity. High-speed performance.

Get brilliant colour prints with an MFP equipped for high-speed performance and designed for energy efficiency. Be confident that your employees can speed through their tasks without interruption.

Keep business moving

Breeze through tasks—the Flow MFP M682z prints your first page from ready as fast as 5.8 seconds, black and colour, A4.¹¹ Print two-sided documents as quickly as one-sided documents—up to 56 pages per minute (ppm), A4 (M682z).¹² Print A5 documents quickly too, up to 74 ppm, (landscape mode).¹³



Print directly from your smartphone, tablet, or notebook PC to your Wi-Fi Direct^{®14}/Bluetooth[®] Low Energy¹⁵ enabled MFP—without accessing the company network. Or choose managed mobile print solutions (HP JetAdvantage Connect or HP Access Control) for advanced management and reporting capabilities.¹⁶

Loaded for productivity

Spend less time loading paper with a 3,200-sheet maximum capacity.¹⁷ Paper-handling options for this series include a 1x550-sheet/2,000-sheet HCI feeder and stand, 3x550-sheet feeder and stand, 550-sheet feeder with stand and cabinet, and 550-sheet feeder.¹⁸ The 550-sheet input trays fit a whole ream of paper and support paper sizes from A6 to 216 x 356 mm.



Equip employees to breeze through tasks using the new, intuitive interface on the 20.3 cm colour touchscreen. For more information, see Appendix C on page 18. The 3-bin stapler/stacker with job offset allows you to set up each bin for a different department or option, such as face down, fax,¹⁹ and copy (Flow M681z and M682z models only).

Designed to conserve

Help keep productivity up and energy use down. This efficient MFP is designed for exceptionally low energy consumption—thanks to its innovative design and specially formulated toner.²⁰



Help cut costs with HP Auto-On/Auto-Off Technology²¹ and HP Instant-on Technology²²—intelligence that readies your MFP right when you need it and turns it off when you don't. Support for thin media allows users to print on papers as light as 60 g/m².

More. Pages, Performance, and Protection.



Get more pages and help protect your MFP, using Original HP Toner cartridges with JetIntelligence.²³



More quality pages than ever before

Get the most prints for your money. Original HP Toner cartridges with JetIntelligence deliver up to 39% more colour pages per cartridge than the predecessor.²³ JetIntelligence ColorSphere 3 toner and an automated media sensor help you make a great first impression with leading colour quality.



Help protect your investment

Don't put your MFP—and print quality—at risk. Help retain the consistent Original HP quality you paid for with innovative, anti-fraud technology. Enable office-wide adherence to printing policies with cartridge authentication technology.



Ready to work, right away

Speed through print jobs right out of the box. This MFP is shipped with preinstalled, specially designed Original HP LaserJet toner cartridges with JetIntelligence. Auto seal removal enables simple and seamless cartridge replacement, so you can get back to business fast—without costly delays or frustrating messes.



Print uninterrupted and get more pages with optional high-yield cartridges.^{23,24} (Black/colour: 28,000/23,000 pages²⁵)

Give workgroups the speed they need



Accelerate workflow, improve accuracy, and easily connect people throughout your organisation. Complete high-volume scan jobs fast—up to 167 ipm for Flow models²⁶—and avoid extra steps with an MFP designed for maximum productivity.



Fast, unattended scanning

Turn stacks of paper documents into digital files. Load up to 150 pages into the automatic document feeder for fast two-sided, single-pass scanning. Spend less time waiting with two-sided scan speeds up to 111 images per minute (ipm), black²⁶ (up to 167 ipm²⁶ for the Flow models^{27,28}).



Easily scan, copy, and fax

Easily make copies or send faxes using the scanner glass or the ADF. Scan a variety of media sizes from the ADF—from checks (68 x 147 mm) to banners (216 x 864 mm). Send scanned documents directly to email, network folders, LAN fax addresses,¹⁹ or Microsoft® SharePoint®. Walk up and print from or scan to a memory device using the easy-access USB.²⁹



Optional workflow solutions

With HP Embedded Capture, scanning and distributing information is as easy as pressing a button. HP Digital Sending Software leverages existing IT infrastructure and uses a common administrative utility and user interface. HP Capture and Route is scalable and makes it easy to control, track, and distribute scanned content.

Flow MFP features²⁷



HP EveryPage featuring ultrasonic multi-feed detection



Faster scan speeds



Automatic page orientation, auto-crop, and auto-tone



Pull-out keyboard



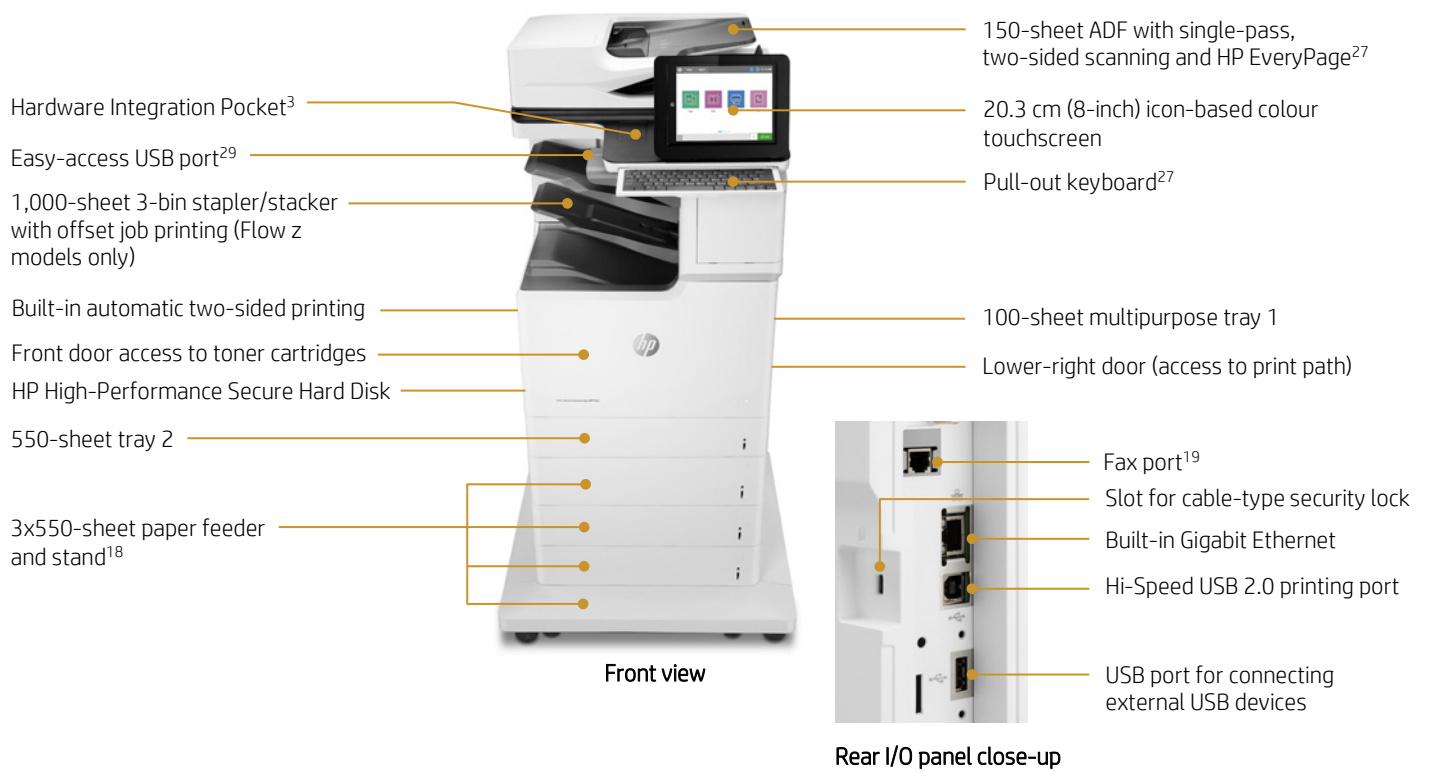
Built-in OCR



Extended-life ADF

Get to know the HP Color LaserJet Enterprise MFP M681 series

HP Color LaserJet Enterprise Flow MFP M681z shown



Series at a glance



MFP M681dh



MFP M681f



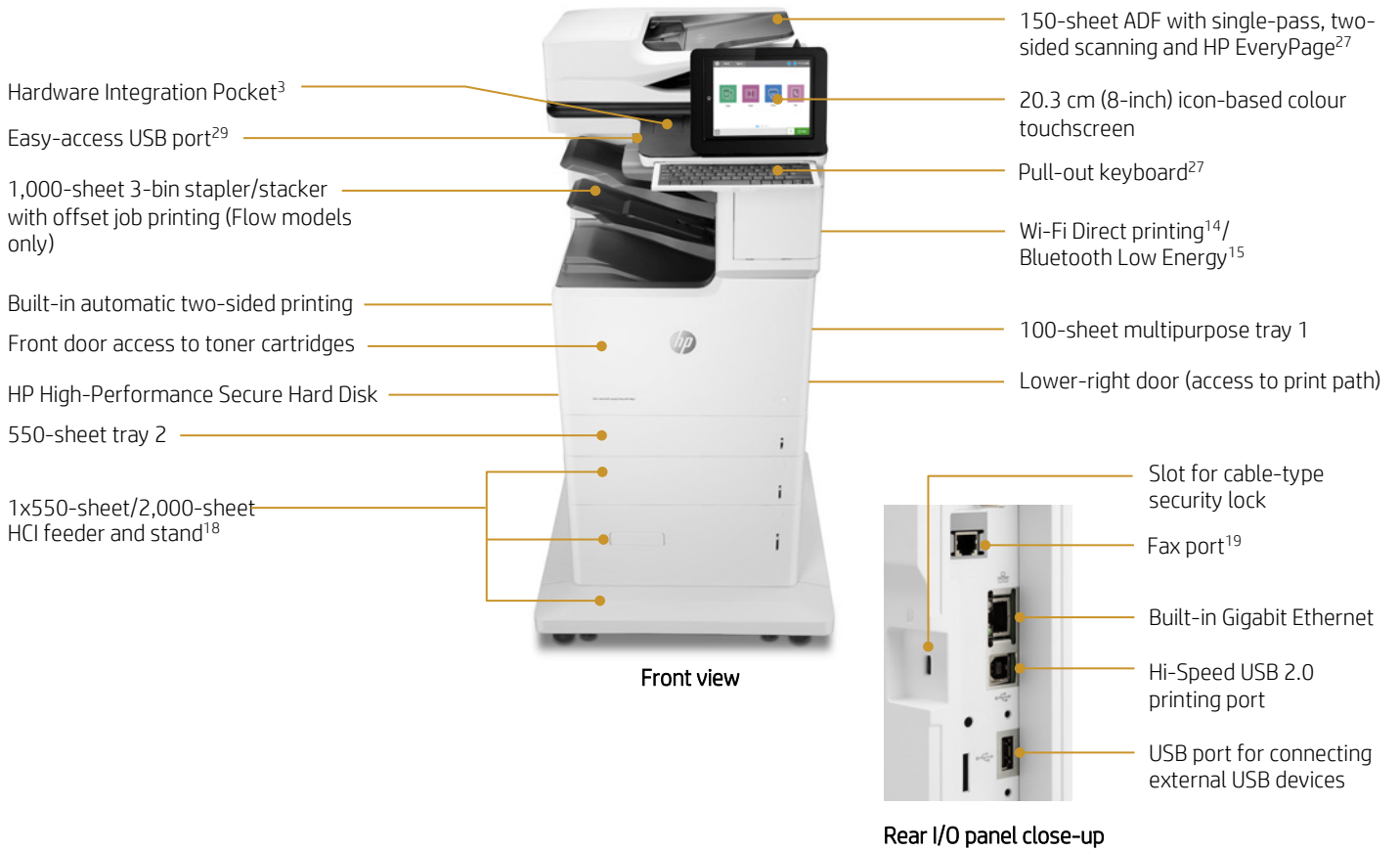
Flow MFP M681z



Flow MFP M682z

	MFP M681dh	MFP M681f	Flow MFP M681z	Flow MFP M682z
Part number	J8A10A	J8A11A	J8A13A	J8A17A
Print speeds (A4) ¹²	Up to 47 ppm	Up to 47 ppm	Up to 47 ppm	Up to 56 ppm
Fax capabilities	Optional	✓	✓	✓
100-sheet tray 1, 550-sheet tray 2	✓	✓	✓	✓
550-sheet paper feeder	Optional (up to two) ³⁰	Not available	Not available	Not available
550-sheet paper feeder with stand and cabinet	Optional ³⁰	✓	Not available	Not available
3x550-sheet paper feeder and stand	Optional ³⁰	Not available	✓	Not available
1x550-sheet/2,000-sheet HCI feeder and stand	Optional ³⁰	Not available	Not available	✓
3-bin stapler/stacker with offset job printing	Not available	Not available	✓	✓
Advanced workflow features including pull-out keyboard	Not available	Not available	✓	✓
Direct mobile printing	Optional wireless direct ¹⁴ /NFC ³¹	Optional wireless direct ¹⁴ /NFC ³¹	Optional wireless direct ¹⁴ /NFC ³¹	Embedded Wi-Fi Direct ¹⁴ /Bluetooth Low Energy ¹⁵
Wireless networking	Optional ³²	Optional ³²	Optional ³²	Optional ³²

Get to know the HP Color LaserJet Enterprise Flow MFP M682z



Paper-handling accessories



550-sheet Paper Feeder (P1B09A)

550-sheet Paper Feeder with Stand and Cabinet (P1B10A)

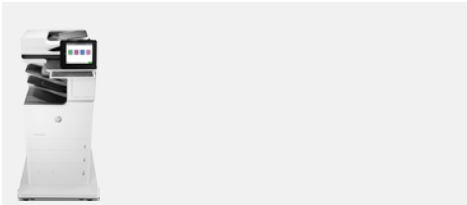
3x550-sheet Paper Feeder and Stand (P1B11A)

1x550-sheet/2,000-sheet HCI Feeder and Stand (P1B12A)

3-bin stapler/stacker

Standard		M681f	Flow M681z	Flow M682z	Flow M681z, Flow M682z
Optional	Add up to two: M681dh ³⁰	M681dh	M681dh	M681dh	Not available

What's new



HP Color LaserJet Enterprise Flow MFP M682z

Up to 56 ppm, simplex and duplex, black and colour, A4¹²

Scanning up to 83 ipm, simplex and 167 ipm, duplex, black and colour²⁶ (Flow models)

FPO (black) as fast as 5.8/12.6 seconds from ready/sleep^{11,33}

250+ embedded security settings,² including HP Sure Start, run-time intrusion detection, and whitelisting

3-bin stapler/stacker with job offset and up to 3,200-sheet input capacity; standard input trays hold 550 sheets

Original HP Toner cartridges with JetIntelligence; High-yield black/colour (~28,000/23,000 pages)^{24,25}



HP Color LaserJet Enterprise Flow MFP M680z

Up to 42 ppm, simplex; up to 38 ipm, duplex¹²

Up to 62/60 ipm (black/colour, simplex) and 86/63 ipm (black/colour, duplex)²⁶

FPO (black) as fast as 9.4/18.4 seconds from ready/sleep^{11,33}

HP Sure Start not available; Whitelisting and run-time intrusion detection available with firmware upgrade

Offset job printing not available; up to 3,100-sheet input capacity; standard input trays hold 500 sheets

Original HP toner cartridges; High-yield black cartridge (~21,000 pages);²⁵ no high-yield colour

Benefits

Save time with 33% faster simplex and 47% faster duplex output—with 100% duplex efficiency

Work more quickly with 38% faster simplex and 165% faster duplex colour scanning

Less wait time with 38% faster FPO from ready and 32% faster from sleep

Enhanced protection with key security technologies designed to thwart attackers' efforts and self-heal

Improved paper-handling options; with 550-sheet trays, you can add a whole ream before the paper runs completely out

Up to 39% more professional-quality colour pages,²³ peak printing performance, and anti-fraud technology

Technical specifications

	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z	HP Color LaserJet Enterprise Flow MFP M682z
Product number	J8A10A	J8A11A	J8A13A	J8A17A
Control panel/data entry	20.3 cm (8-inch) icon-based colour touchscreen; easy-access USB; Hardware Integration Pocket ³			
	Plus: pull-out keyboard			
Print speed (black and colour)¹²	Simplex and duplex: up to 47/50 ppm (A4/letter) A5: up to 74/4 ppm (landscape/portrait) ¹³			Simplex and duplex: up to 56/60 ppm (A4/letter) A5: up to 74/4 ppm (landscape/portrait) ¹³
First page out (black and colour)	From ready: ¹¹ as fast as 6.5/6.4 seconds (A4/letter) From sleep: ³³ as fast as 9.0/8.9 seconds (A4/letter)		From ready: ¹¹ as fast as 6.5/6.4 seconds (A4/letter) From sleep: ³³ as fast as 13.3/13.2 seconds (A4/letter)	From ready: ¹¹ as fast as 5.8/5.7 seconds (A4/letter) From sleep: ³³ as fast as 12.6/12.5 seconds (A4/letter)
Print resolution	Up to 600 x 600 dpi; up to 1200 x 1200 dpi (Fine lines); HP ImageREt 3600, PANTONE® calibrated			
Scanning resolution	Up to 600 dpi (<i>all models</i>)			
ADF scan speed (black and colour)²⁶				
Single-sided	Up to 69/75 ipm (A4/letter)		Up to 83/90 ipm (A4/letter)	
Two-sided	Up to 111/120 ipm (A4/letter)		Up to 167/180 ipm (A4/letter)	
Features				
Printing	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs			
Scanning	Flatbed scanner, up to 216 x 356 mm (8.5 x 14 in); 150-sheet ADF with two-sided, single-pass scanning; Advanced features: Optimise text/picture, image adjustments, job build, output quality setting, selectable scan resolution 75 to 600 dpi, auto detect colour, edge erase, job notification, blank page suppression, Quick Sets			
	Plus: HP EveryPage with ultrasonic multi-feed detection, Embedded Optical Character Recognition (OCR), auto-orientation, auto-crop-to-page, auto-tone			
Digital sending	Scan to email, save-to-network folder, save-to-USB drive, send to Microsoft SharePoint, send to FTP, send to LAN fax (except M681dh model), send to Internet fax, local address book, SMTP over SSL, blank page removal, edge erase, auto colour sense, auto crop to content, compact PDF			
	Plus: OCR, auto-tone, auto-orientation, multi-pick detect, auto-straighten, auto-crop-to-page			
File formats ³⁴	PDF, JPEG, TIFF, MTIFF, XPS, PDF/A; Scan to easy-access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A; Print from easy-access USB: PDF, PS, Print Ready files (.prn, .pcl, .cht)			
	Plus: TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Scan to easy access USB: TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR)			
Copying	Auto scale, Reduce/Enlarge from scanner glass (25 to 400%), Collate, Auto-colour detection, Two-sided copying, Job build, image adjustments (darkness, background clean-up, sharpness); Copy resolution: Up to 600 x 600 dpi			
Faxing	Fax speed: ³⁵ 33.6 kbps/3 seconds per page (A4/letter); fax forwarding, receive fax polling, broadcasting to up to 210 locations, speed dial up to 1000 numbers, each with 210 destinations, auto-fax reduction, auto-redialling, stored faxes, fax archiving, scale-to-fit, fax address book, LAN/Internet fax, fax number confirmation, holiday fax schedule Fax resolution: Standard 203 x 98 dpi, superfine 300 x 300 dpi, 256 levels of grey			
Processor	1.2 GHz (<i>all models</i>)			
Memory	1.5 GB upgradeable to 2 GB (printer), 512 MB (scanner)		1.5 GB upgradeable to 2 GB (printer), 1 GB (scanner)	
Storage	High-Performance Secure Hard Disk (AES 256 hardware encryption or greater; Secure erase capabilities: Secure File Erase-Temporary Job Files, Secure Erase-Job Data, Secure ATA Erase-Disk			

	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z	HP Color LaserJet Enterprise Flow MFP M682z
Durability ratings				
Recommended Monthly Page Volume ³⁶	2,000 pages to as high as 14,000 pages			3,000 pages to as high as 17,000 pages
Recommended Monthly Scan Volume ²⁸	14,250 pages to as high as 23,750 pages		26,750 pages to as high as 44,500 pages	
Duty cycle ³⁷	Up to 100,000 pages			Up to 120,000 pages
Media specifications				
Input capacity	Up to 650 sheets (up to 3,200 sheets maximum ¹⁷)	Up to 1,200 sheets (standard and maximum)	Up to 2,300 sheets (standard and maximum)	Up to 3,200 sheets (standard and maximum)
	Tray 1: up to 100 sheets	Tray 1: up to 100 sheets	Tray 1: up to 100 sheets	Tray 1: up to 100 sheets
	Tray 2: up to 550 sheets	Tray 2: up to 550 sheets 550-sheet feeder with stand and cabinet	Tray 2: up to 550 sheets 3x550-sheet feeder and stand	Tray 2: up to 550 sheets 1x550-sheet/2,000-sheet HCl feeder and stand
Output capacity	Up to 500 sheets		Up to 1,000 sheets with 3-bin stapler/stacker	
Two-sided printing	Automatic (<i>all models</i>)			
Media sizes	<p>Tray 1: A4, A5, A6, RA4, B5, B6, 16K, 10 x 15 cm, Oficio, postcards (JIS single and double), envelopes (DL, C5, C6, B5); Letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Custom media sizes: 76 x 127 to 216 x 356 mm (3 x 5 to 8.5 x 14 in)</p> <p>Tray 2 and optional trays 3, 4, and 5: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16K, Dpostcard; Letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Custom media sizes: 102 x 148 to 216 x 356 mm (4 x 5.8 to 8.5 x 14 in)</p> <p>Optional 2,000-sheet HCl (standard on Flow M682z, optional on M681dh model only): A4; Letter, legal; Custom sizes not supported in this tray</p> <p>Duplex: A4, A5, RA4, B5, Oficio, 16K; Letter, legal, executive, Oficio</p> <p>ADF: A4, RA4, A5, A6, B5, B6 (JIS), postcard (JIS), Dpostcard (JIS); Letter; legal, Oficio, executive, statement, 16K, 4 x 6 in, 5 x 7 in, 5 x 8 in; Custom media sizes: 68 x 147 to 216 x 864 mm (2.7 x 5.8 to 8.5 x 34 in)</p>			
Media weights	<p>Tray 1: 60 to 220 g/m² (16 to 58 lb) (plain); 120 to 220 g/m² (32 to 58 lb) (glossy)</p> <p>Tray 2, optional trays 3, 4, and 5, duplex: 60 to 163 g/m² (16 to 90 lb) (plain); 120 to 220 g/m² (32 to 58 lb) (glossy)</p> <p>Optional 2,000-sheet HCl: 60 to 163 g/m² (16 to 90 lb) (plain)</p> <p>ADF: 45 to 199 g/m² (12 to 53 lb)</p>			
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), colour transparency, labels, letterhead, envelope, preprinted, prepunched, coloured, rough, opaque film, user-defined			
Print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7)			
Fonts	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista® 8 Fonts (Calibri, Cambria); additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at hp.com/go/laserjetfonts			
Connectivity	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host (1 walk-up and 1 external accessible); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket ³			
	Plus: Fax			
Mobile printing	HP ePrint, ³⁸ Apple AirPrint, ³⁹ Mopria-certified, Google Cloud Print™ 2.0 (<i>all models</i>)			
	Optional: Wireless direct printing ¹⁴ and NFC touch-to-print ³¹ (with purchase of HP Jetdirect 3000w NFC/Wireless Accessory)			Plus: Wi-Fi Direct 802.11b/g/n ¹⁴ and Bluetooth Low Energy ¹⁵
Network capabilities	<p>Standard: via HP Jetdirect Ethernet embedded print server supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec</p> <p>Optional: 802.11a/b/g/n wireless networking (with purchase of optional HP Jetdirect 2900nw Print Server)³²</p>			

	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z	HP Color LaserJet Enterprise Flow MFP M682z
Network protocols	<p>Via built-in networking solution: TCP/IP, IPv4, IPv6</p> <p>Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint, HP ePrint, FTP Print, Google Cloud Print</p> <p>Discovery: SLP, Bonjour, Web Services Discovery</p> <p>IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6)</p> <p>Management: SNMPv2/v3, HTTP/HTTPS, Telnet, TFTP Config, FTP FW Download, Syslog</p> <p>Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x</p>			
Security	<p>Identity Management: Kerberos authentication, LDAP authentication, 1000 user PIN codes, optional HP and third-party advanced authentication solutions (e.g., badge readers)</p> <p>Network: IPsec/firewall with Certificate, Pre-Shared Key, and Kerberos authentication, Supports WJA-10 IPsec configuration Plug in, 802.1X authentication (EAP-PEAP, EAP-TLS), SNMPv3, HTTPS, Certificates, Access Control List</p> <p>Data: Storage Encryption, Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft), Secure Erase, SSL/TLS (HTTPS), Encrypted Credentials</p> <p>Device: Security lock slot, USB port disablement, Hardware Integration Pocket for security solutions,³ Intrusion Detection with Red Balloon Security Technology (Constant in-device monitoring for attacks), HP Sure Start Secure Boot (BIOS integrity checking with self-healing capability), Whitelisting (loads only known good code (DLLs, EXEs, etc.))</p> <p>Security Management: Compatible with HP JetAdvantage Security Manager,⁶ Device Security Syslog Messages processed and accessible in ArcSight and Splunk SIEMs</p>			
Compatible operating systems⁴⁰	<p>Windows® OS: Windows 10 all 32- and 64-bit editions (excluding RT OS for Tablets), Windows 7 all 32- and 64-bit editions, Windows 8/8.1 all 32- and 64-bit editions (excluding RT OS for Tablets), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)</p> <p>Mac OS: 10.12 Sierra, OS X 10.10 Yosemite, OS X 10.11 El Capitan</p> <p>Mobile OS: Android™</p> <p>Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10)</p> <p>Other OS: UNIX</p>			
Compatible network operating systems	<p>Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003R2, Citrix on Windows Server 2008/2008R2/2008 R2 SP1, Citrix on Windows Server 2012/2012R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32- and 64-bit, Citrix XenApp 6.0/6.5 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenApp 6.0/6.5/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenApp 7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Citrix XenDesktop 5.6 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenDesktop 5.6/7.0/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenDesktop 7.0/7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit]</p> <p>Novell NetWare 6.5/SP8 Novell Clients novell.com/iprint, Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers novell.com/iprint</p> <p>Windows Server 2003/2003 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2), Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32-/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services), Windows Server 2016/ 64-bit Standard/Essential/Datacenter (+ Cluster & Terminal Services)</p>			
System requirements, Windows	A compatible operating system (see above); 2 GB available hard disk space; OS hardware requirements (see microsoft.com)			
System requirements, Macintosh	A compatible operating system (see above); Internet; 1.3 GB available hard disk space; OS hardware requirements (see apple.com)			
Dimensions (width x depth x height)	<p>Operating: 510 x 555 x 658 mm (20.08 x 21.85 x 25.91 in)</p> <p>Maximum:⁴¹ 963 x 770 x 910 mm (37.91 x 30.31 x 35.83 in)</p>	<p>Operating: 657 x 657 x 1108 mm (25.87 x 25.87 x 43.62 in)</p> <p>Maximum:⁴¹ 992 x 948 x 1360 mm (39.06 x 37.32 x 53.54 in)</p>	<p>Operating: 657 x 657 x 1270 mm (25.87 x 25.87 x 50.00 in)</p> <p>Maximum:⁴¹ 992 x 967 x 1529 mm (39.06 x 38.07 x 60.20 in)</p>	<p>Operating: 657 x 657 x 1270 mm (25.87 x 25.87 x 50.00 in)</p> <p>Maximum:⁴¹ 992 x 967 x 1529 mm (39.06 x 38.07 x 60.20 in)</p>
Weight (with print cartridges)	42.3 kg (93.2 lb)	61.5 kg (135.4 lb)	76.3 kg (168.1 lb)	76.3 kg (168.1 lb)
What's in the box	HP Color LaserJet Multifunction Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), ²⁵ HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) ²⁵ (toner cartridges installed), CD with software drivers and documentation, Documentation (Hardware Install Guide), Power cord			

	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z	HP Color LaserJet Enterprise Flow MFP M682z
Software included³⁴	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (directs users to 123.hp.com or OS App Source for printer software), Online user manuals			
Downloadable software	HP Easy Start (Guided Software Install for Windows OS and Mac); HP ePrint Software (ePrint Mobile Driver for Windows); HP ePrint Software (for Windows); HP JetAdvantage Security Manager; ⁶ HP Mobile Printing hp.com/us/en/ads/mobility/overview.html ; HP PCL6 (XPS) print driver only (No installer for "Add Printer" installs); HP PCL6 (XPS) print driver with installer, Product Documentation and Support; HP Proxy Agent Software; HP Universal Print Drivers ⁴² (PCL6 and PS for Windows); Linux/Unix Print Drivers; Mac Software Solution; Printer Administrator Resource Kit; SAP (PS Print Drivers); HP Web Jetadmin; ⁵ Windows driver only solution; Windows Full Software Solution			
Warranty	One-year, next-business day, onsite warranty; Warranty and support options vary by product, country, and local legal requirements. Go to hp.com/support to learn about HP award-winning service and support options in your region.			

Environmental and power specifications

	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z	HP Color LaserJet Enterprise Flow MFP M682z
Environmental ranges				
Temperatures	Recommended operating: 17.5 to 25° C (63.5 to 77° F); Operating: 15 to 30° C (59 to 86° F); Storage: -20 to 40° C (-4 to 104° F)			
Relative Humidity	Recommended operating range: 30 to 70% RH; Operating range: 10 to 80% RH; Non-operating range: 10 to 90% RH			
Acoustic pressure emissions	Ready mode: 32 dB(A); Active print: 52 dB(A); Active copy: 56 dB(A); Active scan: 58 dB(A)			Ready mode: 32 dB(A); Active print: 53 dB(A); Active copy: 57 dB(A); Active scan: 57 dB(A)
Acoustic power emissions⁴³	Ready mode: 4.6 B(A); Active print: 6.6 B(A); Active copy: 7.0 B(A); Active scan: 7.3 B(A)			Ready mode: 4.6 B(A); Active print: 6.8 B(A); Active copy: 7.2 B(A); Active scan: 7.2 B(A)
Power specifications⁴⁴				
Power supply	Built-in 110 or 240 VAC; Input voltage: 100 -127 VAC 50/60 Hz or 220 - 240 VAC 50/60 Hz			
Power consumption	Printing/copying: 900 watts; Ready: 47 watts; Sleep: 0.9 watts, Auto-off/Manual On: 0.9 watts; Manual Off: 0.1 watts			
Typical Electricity Consumption (TEC)	2.68 kWh/week (Blue Angel); 2.72 kWh/week (ENERGY STAR®)			
Energy-saving features	HP Auto-On/Auto-Off Technology; ²¹ Instant-on Technology; Instant-on Copy			
Environmental specifications	Blue Angel compliant; ENERGY STAR® certified; CECP, EPEAT® Silver ⁴⁵			
			Plus: EPEAT® Gold ⁴⁵ (Options AAZ, 201)	
Safety and regulatory compliance	EC 60950-1:2005 +A1:2009 +A2:2013 (International); EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2014 / IEC 60825-1:2014 (Class 1 Laser Product); EN 62479:2010 / IEC 62479:2010; Low Voltage Directive 2014/35/EU with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 Amendment 2:2014; Other safety approvals as required by individual countries			Plus: EN 62311:2008 / IEC 62311:2007
Electromagnetic emission standard	CISPR 22:2008 (International) - Class A, CISPR 32:2012 (International) - Class A, EN 55032: 2012 (EU) - Class A, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 55024: 2010, EMC Directive 2014/30/EU, FCC CFR 47 Part 15 Class A / ICES-003, Issue 6 Class A, Other EMC approvals as required by individual countries			
Telecom compliance	ES 203 021-1 v2.1. 1; ES 203 021-2 v2.1.2; ES 203 021-3 v2.1.2; FCC Rules and Regulations 47 CFR Part 68; Other Telecom approvals as required by individual countries			Plus: EN 300 328 V1.9.16; EN 300 330-2 V1.6.1; EN 301 893 V1.8.1; R&TTE 1999/5/EC

Ordering information

Use accessories and supplies specifically designed for the MFP to help provide efficient performance. To order the accessories and supplies listed here, go to hp.com. To contact HP by country, please visit hp.com/go/contact. If you don't have access to the Internet, contact your qualified HP dealer.

LaserJet	HP Color LaserJet Enterprise MFP M681dh	J8A10A
	HP Color LaserJet Enterprise MFP M681f	J8A11A
	HP Color LaserJet Enterprise Flow MFP M681z	J8A13A
	HP Color LaserJet Enterprise Flow MFP M682z	J8A17A
Supplies²⁵	HP 655A Black Original LaserJet Toner Cartridge (~12,500 pages)	CF450A
	HP 657X High Yield Black Original LaserJet Toner Cartridge (~28,000 pages)	CF470X
	HP 655A Cyan Original LaserJet Toner Cartridge (~10,500 pages)	CF451A
	HP 657X High Yield Cyan Original LaserJet Toner Cartridge (~23,000 pages)	CF471X
	HP 655A Yellow Original LaserJet Toner Cartridge (~10,500 pages)	CF452A
	HP 657X High Yield Yellow Original LaserJet Toner Cartridge (~23,000 pages)	CF472X
	HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 pages)	CF453A
	HP 657X High Yield Magenta Original LaserJet Toner Cartridge (~23,000 pages)	CF473X
	HP LaserJet 220V Maintenance Kit (~150,000 pages)	P1B92A
	HP LaserJet Image Transfer Belt Kit (~150,000 pages)	P1B93A
	HP LaserJet Toner Collection Unit (~100,000 pages)	P1B94A
	HP 300 ADF Roller Replacement Kit (~150,000 pages)	J8J95A
	HP Staple Cartridge Refill (5,000 staples)	J8J96A
Accessories	HP Color LaserJet 550-sheet Paper Feeder	P1B09A
	HP Color LaserJet 550-sheet Paper Feeder with Stand and Cabinet	P1B10A
	HP Color LaserJet 3x550-sheet Paper Feeder and Stand	P1B11A
	HP Color LaserJet 1x550-sheet/2,000-sheet HCl Feeder and Stand	P1B12A
	HP LaserJet Keyboard Overlay Kit for Danish/French-Switzerland/German-Switzerland (in the box when ordering the BAZ option) (Flow models only)	A7W13A
	HP LaserJet Keyboard Overlay Kit for Swedish (Flow models only)	A7W14A
	HP 1GB DDR3 x32 144-Pin 800MHz SODIMM	E5K48A
	HP Trusted Platform Module Accessory	F5S62A
	HP Foreign Interface Harness	B5L31A
	HP Jetdirect 2900nw Print Server	J8031A
	HP Jetdirect 3000w NFC/Wireless Accessory ^{14,31}	J8030A
	HP LaserJet MFP Analog Fax Accessory 500	CC487A
	HP Internal USB ports	B5L28A
HP Services	Make sure your imaging and printing investments are protected with Care Pack, part of HP Care. Pick your package of services to keep your MFP running and your business moving. Now your office can spend less time trouble-shooting and more time getting things done. For details, visit hp.com/go/cpc . ⁴⁶	
Boost performance—it's your choice. HP Care provides options to help you manage imaging and printing—from Care Pack services to customisable and advisory services. With HP Managed Print Services, we oversee everything for you.	HP 3 year Next Business Day + Defective Media Retention CLJ Ent MFP M68x Hardware Support	U9NP3E
	HP 5 year Next Business Day + Defective Media Retention CLJ Ent MFP M68x Hardware Support	U9NP5E
	HP 1 year PW Next Business Day + Defective Media Retention CLJ Ent MFP M68x Hardware Support	U9NX1PE
Solutions	HP Web Jetadmin: hp.com/go/wja	
	HP Universal Print Driver: hp.com/go/upd	
	HP JetAdvantage Security Manager: hp.com/go/securitymanager	
	HP JetAdvantage On Demand Cloud Solutions: hp.com/go/jetadvantageondemand	
	HP LaserJet Fonts, Barcodes, and IPDS Emulation available at hp.com/go/laserjetfonts To learn more about available infrastructure, management, and workflow solutions, visit hp.com/go/printing/solutions	

Appendix A: Security features



The world's most secure printing¹

The HP Color LaserJet Enterprise MFP M681/M682 series is designed to work together with security solutions to help reduce risk, improve compliance, and protect your network from end to end. Protect your device, data, and documents with built-in and optional security features.²

Protect your device

As capabilities expand and devices become more integrated into your work, device security becomes increasingly important. These features help protect the M681/M682 series:

- **Embedded protection:** Multi-level, built-in features help protect your MFP against complex security threats from boot up to shut down. For details, see hp.com/go/PrintersThatProtect.
 - HP Sure Start helps the device BIOS to boot up properly every time with unaltered HP genuine code and without corruption. If an anomaly is detected, the device can repair itself by rebooting.
 - Whitelisting helps the device firmware to load properly with HP genuine code—without corruption—every time.
 - Run-time intrusion detection guards against malware, by continually monitoring activity to detect and stop attacks. If an anomaly is detected, the device automatically reboots.
- **Encrypted storage with secure erase:** The MFP comes with built-in encryption to protect data. When stored data is no longer needed, use built-in device capabilities to securely overwrite data and safely remove sensitive information. HP offers multiple mechanisms to erase stored data, including functionality that is designed to conform to U.S. National Institute of Science and Technology (NIST) Special Publication 800-88.
- **Ports and protocols:** FTP and Telnet are closed by default to help prevent unsecure protocols from being used. Unused physical ports (such as host USB ports or network ports) can be disabled to prevent unauthorised use.
- **Administrator access control for device:** You can set administrator passwords so only IT staff or other authorised personnel can set up and configure device settings.
- **Common Criteria Certification:** HP Enterprise devices are certified as compliant with internationally recognised security standards, such as Common Criteria Certification (CCC) and FIPS 140.



Protect your data

Your MFP harbours sensitive information—make sure it's not at risk.

- **Network protection:** 802.1x or IPsec encrypted network standards can help protect data travelling over the network between the device and management tools such as HP Web Jetadmin⁵ or the Embedded Web Server.
- **Encrypt data in transit:**
 - Protect print jobs travelling to the device with encryption such as Internet Print Protocol over TLS (IPPS). Or, Secure Encrypted Print with HP Universal Print Driver⁴² provides true symmetric AES256 print job encryption and decryption from the client to the page based on a user-defined password using FIPS 140 validated cryptographic libraries from Microsoft.
 - Use CipherSuite Encryption Strength to select encryption strength to prevent the use of legacy or insecure protocols for data in transit.
 - Scanned PDFs and emails can be encrypted using built-in FIPS 140 validated cryptographic libraries from Microsoft.
 - HP offers a rich portfolio of HP JetAdvantage Workflow Solutions that provide advanced capture and route capabilities with enterprise level security. For more information, visit hp.com/go/documentmanagement.
- **Encrypt data at rest:**
 - The HP High-Performance Secure Hard Disk provides full 256-bit AES hardware encryption to protect sensitive business information, such as print jobs or passwords.
 - Add the optional HP Trusted Platform Module (TPM) accessory to strengthen protection of encrypted credentials and data by automatically sealing device encryption keys to the TPM. It provides secure device identity by generating and protecting certificate private keys.⁴
- **Firewall:** Prevent malware and viruses from entering your network by limiting printer access to computing devices in network.

Resources

HP JetAdvantage Security Solutions:

- Web site: hp.com/go/printsecurity
- Solution brief: <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-1295EEW.pdf>
- Video: <http://hp.brightcovegallery.com/products/detail/video/4270905124001/>

HP JetAdvantage Security Manager:⁶

- Web site: hp.com/go/securitymanager
- Brochure: <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-9275EEW.pdf>
- Video: <http://hp.brightcovegallery.com/products/detail/video/4270837770001/>

- **Authentication and authorisation:** Manage user access using native features or optional solutions.
 - With native user authentication, you can require users to sign in with PIN/PIC, LDAP, or Windows/Kerberos authentication. You can also integrate these with Active Directory.
 - With optional authentication solutions like HP Access Control, you can enable advanced authentication using proximity cards or NFC-enabled mobile devices. To learn more, visit hp.com/go/hpac. The Hardware Integration Pocket enables integration of select card readers.³
- **Role-based access controls:** Restrict access to management utilities, avoid unwanted device configurations, and help reduce costs and security risks through printer feature restrictions.
 - With HP FutureSmart 4, you have more control than ever before over device security and permission settings. IT administrators can decide who can interact with certain device capabilities.
 - Optional HP Access Control Rights Management allows you to give different capabilities to different users, or even entire departments, depending on their needs. For example, you can limit who can fax, scan to email, or scan to fax.
- **Mobile printing:** Wi-Fi Direct,¹⁴ Bluetooth Low Energy,¹⁵ and NFC touch-to-print³¹ allow mobile users to connect to the MFP without accessing the company network. HP also offers server-based mobile print solutions that provide secure pull printing, as well as advanced management and reporting capabilities. For more information about HP JetAdvantage Connect and HP Access Control, please visit hp.com/go/businessmobileprinting.
- **CA and Device Identity Certificates:** This MFP supports identity certificates signed by a corporate certificate authority, which provides verification of identity and authenticity. This device also supports CA certificates for validation of identity certificates. Certificates can enable secure end-to-end communications with the device when used with features like IPsec, Secure-IPP, HP ePrint, and more. Additional certificates can be stored for validating S/MIME email servers and 802.1x authentication. Save time by using HP JetAdvantage Security Manager to automatically install and renew certificates.⁶



Safeguard your physical documents

HP offers several solutions to help keep documents from falling into the wrong hands and help prevent fraud.

- **PIN/Pull printing:** Have documents held and released only to the person who printed them. Pull printing solutions help protect sensitive data by requiring authentication at the device, and give users the flexibility of pulling the documents from any device that is enabled with the solution.
 - Built-in PIN printing: When users send confidential print jobs, they assign a PIN which they must enter at the device to release the job.
 - HP JetAdvantage Secure Print: With this affordable solution designed for SMB, jobs can be stored in the cloud or on the user's desktop. It's easy to set up and use, allows users to release jobs from a mobile device, and supports multi-vendor devices. For more information, visit hp.com/go/JetAdvantageSecurePrint.⁹
 - HP JetAdvantage Private Print: With HP's free cloud-based solution you get the advantages of pull printing, without the complexity. It is simple to set up and does not require a server, installation, or maintenance. To learn more, visit hp.com/go/JetAdvantagePrivatePrint.¹⁰
 - HP Access Control Secure Pull Printing: This optional robust server-based solution offers multiple forms of authentication including badge release, as well as enterprise level security, management, and scalability. To learn more, visit hp.com/go/hpac.



HP JetAdvantage Security Manager

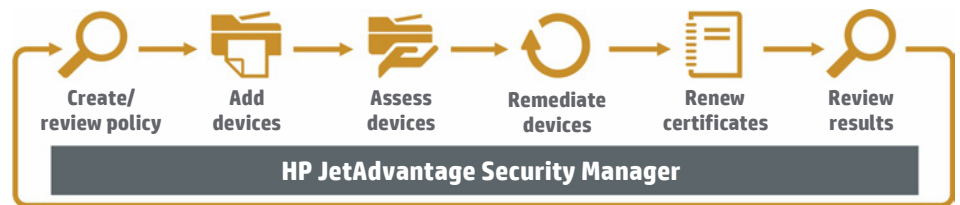
Secure your HP printing fleet with the solution Buyers Laboratory (BLI) calls trailblazing.⁶

Easily manage security across the fleet

HP JetAdvantage Security Manager

Easily set security configuration policies and automatically validate settings for every HP printer in your fleet. Optional HP JetAdvantage Security Manager offers an effective, policy-based approach.⁶

- Automate many tedious tasks so you can free up time for your IT staff and protect the data and documents that matter most to your business.
- Streamline the process to securely deploy and monitor devices by applying a single security policy across the fleet.
- Easily create a print security policy for your environment by leveraging the HP Security Manager Base Policy template.
- Secure new HP devices as soon as they are added to your network, or after a reboot, with HP Instant-on Security. The software automatically configures settings to comply with your corporate security policy.
- Improve the security of your infrastructure and device communications by deploying unique identity certificates and monitoring to ensure they remain valid. With HP Security Manager's efficient fleet management of certificates, the administrative overhead to install certificates across your fleet is now less than manually installing on a single device.
- Actively maintain and verify compliance with your defined security policies by using HP Security Manager automated monitoring and risk-based reporting.



To learn more about HP JetAdvantage Security Manager, please visit hp.com/go/securitymanager.

Works with SIEM tools

Get instant notification of potential security issues so immediate action can be taken to prevent potential attacks. Event data from HP Enterprise devices can be sent to Security Information and Event Management (SIEM) tools such as ArcSight, Splunk, or SIEMonster for real-time monitoring. IT security can easily view printer endpoints as part of the broader IT ecosystem to detect and resolve printer security alerts.

HP security best practices



Since 2005, HP has published security best practice checklists for networked environments common to enterprises and small to medium businesses. For more information on HP security solutions and checklists, please visit hp.com/go/printsecurity.

Appendix B: Fleet management features

Simple one-to-one device management

The MFP can also be managed using the HP Embedded Web Server. Use a web browser to monitor status, configure network parameters, or access device features.

Control colour access

Use HP Web Jetadmin⁵ and the HP Universal Print Driver⁴² to assign colour access by user, time of day, or application, or disallow colour output completely until it's needed for special projects. People who truly need to leverage the power of colour—such as your sales team and marketing department—can, while others automatically default to black-and-white output.⁴⁷

Resources

HP Web Jetadmin:

- Web site: hp.com/go/wia
- Solution brief: <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA5-2719EEW.pdf>
- Video: <http://hp.brightcovegallery.com/solutions/detail/video/4271055504001/>

HP Universal Print Driver:

- Web site: hp.com/go/upd
- Solution brief: <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-4781EEW>

Efficiently manage from a central location

The HP Color LaserJet Enterprise MFP M681/M682 series is supported by HP Web Jetadmin,⁵ an HP JetAdvantage Management Solution. This single solution allows you to efficiently manage a wide variety of networked and PC-connected devices, including printers, multifunction products, and scanners. Remotely install, configure, troubleshoot, safeguard, and manage your devices—ultimately increasing business productivity by helping you save time, control costs, protect your assets, and provide a better return on your investment. Easily integrate new HP LaserJet Pro and Enterprise devices without having to upgrade HP Web Jetadmin. A universal plug-in lets you support most features of new devices and apply corporate policies in one step—helping to save time and simplify device management.⁵

HP Web Jetadmin enables you to:

- Gain a clear picture of how many and what kinds of devices you have.
- Get visibility into your supplies usage, so you can make smarter purchasing decisions, reduce spending, and even track and allocate printing costs to individual departments or users.
- Simplify, and, in many cases, automate routine tasks. For example, you can apply fleet-wide policies to automatically configure new devices with the right printing and security settings when they're added to your network.
- Give your help desk staff the tools they need—such as automatic alerts—to resolve problems quickly, and often proactively, before a call is even received.
- Verify that your devices are up-to-date with the latest firmware and are properly configured (especially important for organisations that need to meet regulatory requirements).
- Use robust tracking and reporting tools to help you make better decisions about how your devices are deployed across your organisation, so you can make the most of your IT investments.
- Take advantage of additional options, like the HP Database Connectivity Module which works together with Web Jetadmin to help you establish and help achieve environmental goals.
- Get the ultimate in investment protection with HP Web Jetadmin Premium Support. This expanded service option gives your staff access to HP's dedicated software support engineers, who provide advice, usage recommendations, problem diagnosis, and more.

HP Web Jetadmin can benefit IT-managed print environments of all sizes, from large enterprises managing thousands of devices to small businesses with just a handful. For more information—or to download this software tool at no additional charge—visit hp.com/go/wia.

Make it easy for all to print with one common driver

The HP Universal Print Driver enables both mobile Microsoft device users and traditional desktop users to access the full features of nearly every HP device in your managed printing environment without the need for assistance.⁴²

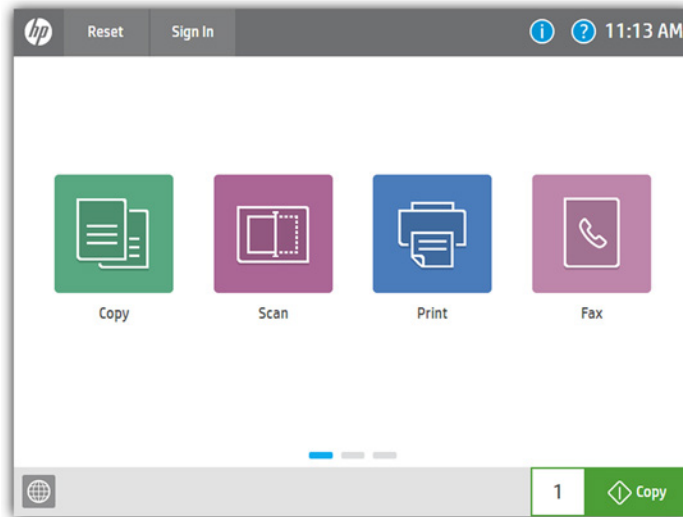
Eliminate the clutter on your computer by replacing multiple print drivers with one versatile solution. Empower IT by dramatically reducing the number of drivers they have to manage—and by giving them the tools they need to improve efficiency. With the HP UPD, your IT team can easily adjust device settings to help reduce printing costs, improve security, and help meet environmental goals. For example, it's simple to push two-sided printing or quicker sleep times across the fleet. Plus, the valuable tools in the HP UPD Printer Administrator's Resource Kit help you save time and money by streamlining IT tasks, implementing printing policies, and monitoring usage across the enterprise. You can also use the HP UPD in tandem with HP Web Jetadmin to create fleet-wide managed printer lists, reports, and more.

You can download this valuable fleet driver solution and the tools in the Printer Administrator's Resource Kit for no additional charge. For more information about how the HP Universal Print Driver can help you protect your imaging and printing investment, simplify management, and boost productivity, visit hp.com/go/upd.

Appendix C: Control panel features

Upgrade to a modern interface

The HP Color LaserJet Enterprise MFP M681/M682 series is powered by HP FutureSmart 4.0 firmware. Its modern, tablet-like interface keeps things simple and intuitive across your fleet of Enterprise devices. A scalable control panel interface improves future extensibility and allows for customisation, along with a robust set of new apps and usability features. You can even customise with your own wallpaper image and company logo. The new Message Center, with more detailed information and helpful animations, makes it easy to address device events. The simplified home screen displays just four core apps by default (three apps for products without fax). Additional apps are easily accessed by swiping right to left, like with a smartphone or tablet.

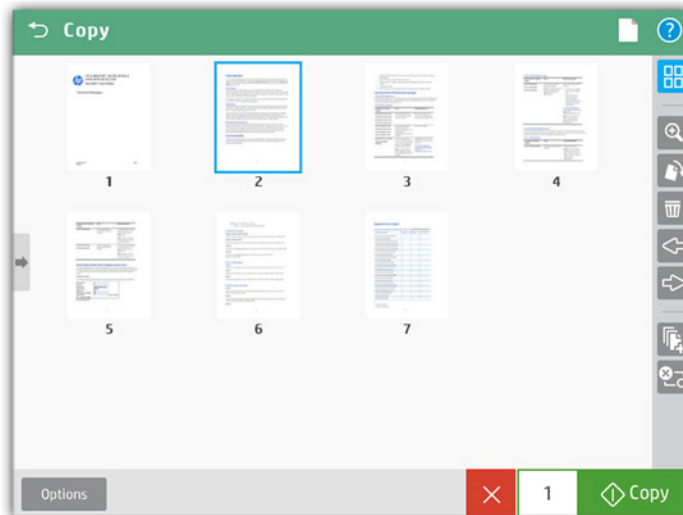


Edit jobs right at the MFP

The control panel features an enhanced image preview—now for both copies and scans. Right from the device's 20.3 cm colour touchscreen control panel, you can easily preview and edit scans before sending them. You can apply changes (like rotating) to a single page, or to multiple pages at once. Batch separation allows users to create separate PDF or PDF/A files from scanned pages. The Flow MFP M681z and M682z models can also create PDF OCR and PDF/A OCR files.



The new user interface enables **swiping**, **rotate**, and **drag-and-drop** capabilities



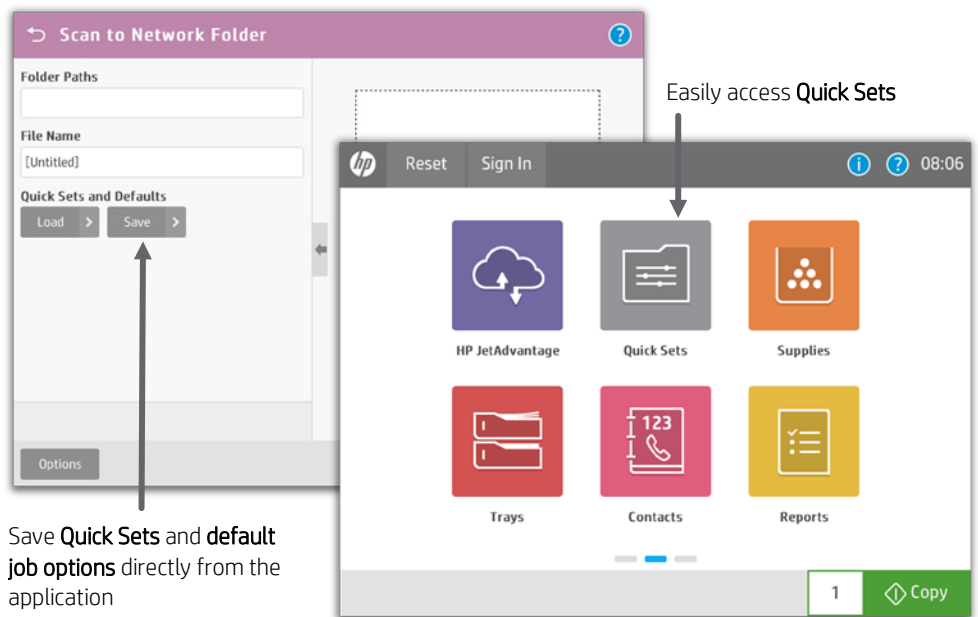
You can start a **preview** prior to committing to the copy job

Use Quick Sets to launch automated workflows

The MFP's digital sending capability allows users to route documents to a variety of destinations like email recipients, network folders, fax, FTP, a USB device, or Microsoft SharePoint.

Quick Sets automate all of the steps of a complicated workflow and provide easy access to the configurations you use most, such as page size, resolution, and file format. You can also specify security settings, such as encrypted PDFs to be delivered through encrypted and signed emails.

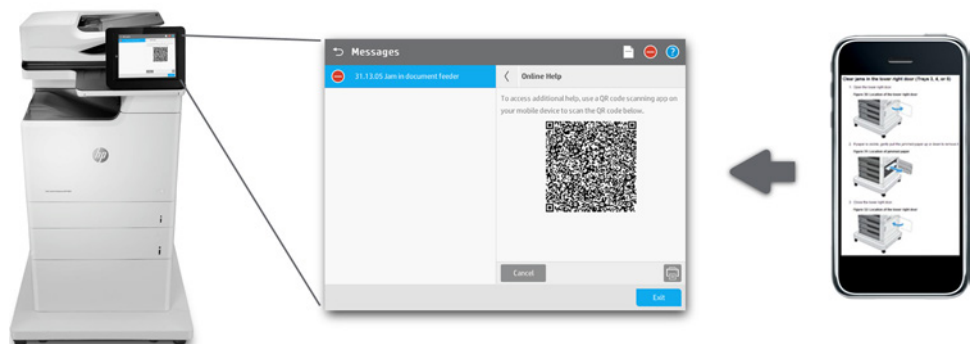
Help users find what they need by moving individual Quick Sets to any screen or folder using the home screen customisation feature. With Quick Sets, IT can promote or block access to certain device features. Calls to the helpdesk can be reduced when users have everything they need and are restricted from accessing settings they shouldn't tamper with.



Save **Quick Sets** and **default job options** directly from the application

Troubleshoot with ease

The HP Color LaserJet Enterprise MFP M681/M682 series can help save your IT department valuable time when it comes to troubleshooting problems. The Remote Control Panel allows users to operate the user interface remotely, so IT can troubleshoot problems without running to the MFP.⁴⁸ Users can also quickly troubleshoot technical issues with HP's innovative, cloud-based Online Help services that are relevant and up to date. Easily solve problems from your PC or mobile device. A Quick Response (QR) code on the touchscreen links to Online Help using smart phones and tablets.⁴⁹ You can also find these links in the HP Embedded Web Server event log.



- ¹ Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit hp.com/go/PrintersThatProtect. For more information: hp.com/go/printersecurityclaims.
- ² Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at hp.com/go/printsecurity.
- ³ Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase.
- ⁴ Use of the optional HP Trusted Platform Module accessory may require a firmware upgrade.
- ⁵ HP Web Jetadmin is available for download at no additional charge at hp.com/go/wja.
- ⁶ HP JetAdvantage Security Manager must be purchased separately. For details, see hp.com/go/securitymanager. Competitive claim based on HP internal research on competitor offerings (Device Security Comparison, January 2015) and Solutions Report on HP JetAdvantage Security Manager 2.1 from Buyers Laboratory LLC, February 2015.
- ⁷ Based on an HP assessment of print manufacturers SaaS offerings as of September 1, 2016, no other print manufacturer offers a single cloud portal for user and app management.
- ⁸ Requires Internet access. Supported browsers include Microsoft® Internet Explorer® 9-11, Google Chrome™ 9 and newer, Mozilla® Firefox® 4 and newer, and Safari® 5 and newer. Compatible with select HP LaserJet, PageWide, OfficeJet Pro, and Digital Sender Flow devices that can connect to the Internet. Some apps support multi-vendor environments. May require a firmware upgrade. Learn more at hp.com/go/jetadvantageondemand.
- ⁹ HP JetAdvantage Secure Print works with any network-connected printer or MFP. On-device authentication is available for many HP LaserJet, PageWide, and OfficeJet Pro devices and selected non-HP devices. Some devices may require a firmware upgrade. Internet connection required for cloud storage and retrieval of print jobs. Print-job release from a mobile device requires a network connection and QR code. For more information and a list of supported printers and MFPs, see hp.com/go/JetAdvantageSecurePrint.
- ¹⁰ Available only in North America and select European countries. Card reader is available for separate purchase for selected HP printers and MFPs with touchscreens. Learn more at hp.com/go/JetAdvantagePrivatePrint.
- ¹¹ Measured using ISO/IEC 17629. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- ¹² Measured using ISO/IEC 24734; excludes first set of test documents. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- ¹³ Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type. A5 landscape printing cannot be duplexed.
- ¹⁴ Wi-Fi Direct printing is embedded in the HP Color LaserJet Enterprise Flow MFP M682z model. All other models can add wireless direct by purchasing the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see hp.com/go/mobileprinting. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®.
- ¹⁵ Bluetooth® Low Energy is standard only on the HP Color LaserJet Enterprise Flow MFP M682z, and it cannot be added to other models.
- ¹⁶ Requires purchase of server software such as HP JetAdvantage Connect or HP Access Control Secure Pull Printing. Learn more at hp.com/go/businessmobileprinting.
- ¹⁷ Purchase of optional paper trays may be required to reach maximum input capacity.
- ¹⁸ Standard and optional paper-handling accessories vary by model. See Series at a glance, page 6, for details.
- ¹⁹ Fax capability is optional on the HP Color LaserJet Enterprise MFP M681dh model; it is included on all other models.
- ²⁰ Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalised to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm (letter). Subject to device settings. Actual results may vary.
- ²¹ HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.
- ²² Compared with products that use traditional fusing.
- ²³ More pages versus predecessor cartridges claim based on page-yield comparison of HP 653X High Yield Color Original LaserJet Toner Cartridges with HP 657X High Yield Color Original LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsplies.
- ²⁴ HP 657X High Yield Original LaserJet Toner cartridges are not included in printer purchase; purchase separately. Learn more at hp.com/go/learnaboutsplies.
- ²⁵ Toner cartridge yields established using ISO/IEC test standards. Actual yields and costs vary considerably depending on images printed, number of colour pages printed, and other factors.
- ²⁶ Scan speed measured from ADF at default 300 dpi (black-and-white, greyscale, and colour). Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.
- ²⁷ The pull-out keyboard and HP EveryPage are only available on the HP Color LaserJet Enterprise Flow MFP M681z and Flow MFP M682z models.
- ²⁸ The Recommended Monthly Scan Volume (RMSV) is up to 23,750 pages for the M681dh/f models and up to 44,500 for the Flow models. HP recommends that the number of scanned pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
- ²⁹ An administrator must enable the easy-access USB port before use.
- ³⁰ All models come standard with the 100-sheet multipurpose tray 1 and 550-sheet tray 2. In addition, the M681dh can add up to two additional 550-sheet paper feeders; or, it can add one of the other accessories (550-sheet paper feeder with stand and cabinet, 3x550-sheet paper feeder and stand, or 1x550-sheet/2,000-sheet HCI feeder and stand).
- ³¹ Touch-to-print capability is optional for all models (except the Flow MFP M682z) with the purchase of the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting.
- ³² All models can add wireless networking with the purchase of the optional HP Jetdirect 2900nw Print Server. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.
- ³³ Measured after 15 minutes in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity, and time in sleep.
- ³⁴ Scan software not included in box. HP Scan and TWAIN driver available for download at hp.com/support.
- ³⁵ Based on standard ITU-T test image #1 at standard resolution and MMR encoding, the HP fax device can transmit at 3 sec/page for V.34 and 6 sec/page for V.17.
- ³⁶ HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
- ³⁷ Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.
- ³⁸ Printer requires ePrint account registration. App or software may be required. Wireless operations are compatible with 2.4 GHz operations only. Learn more at hp.com/go/mobileprinting.
- ³⁹ Supports the following devices running iOS 4.2 or later: iPad, iPad 2, iPhone (3GS or later), iPod touch (3rd generation or later). Works with HP's AirPrint-enabled printers and requires the printer be connected to the same network as your iOS device. Wireless performance is dependent on physical environment and distance from the access point.
- ⁴⁰ Full solution software available only for Windows 7 and newer, UPD software available only for Windows 7 and newer, HP Software for Mac and Windows is no longer included on the CD, but can be downloaded from 123.hp.com. Legacy Windows Operating Systems (XP, Vista, and equivalent servers) get print and scan drivers only with a reduced feature set, Windows RT OS for Tablets (32- and 64-bit) uses a simplified HP print driver built into the RT OS.
- ⁴¹ Maximum dimensions of the device are measured with all paper trays folded out and standard accessories installed.
- ⁴² The HP Universal Print Driver is available for download at no additional charge at hp.com/go/upd.
- ⁴³ Printing mono simplex A4 at 47 ppm (M681 series) and 57 ppm (M682 series). Scanning mono simplex A4 at 96 ppm. Acoustic values are subject to change. For current information, see hp.com/support.
- ⁴⁴ Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.
- ⁴⁵ EPEAT® registered where applicable. EPEAT registration varies by country. See epeat.net for registration status by country.
- ⁴⁶ Service levels and response times may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit hp.com/go/cpc.
- ⁴⁷ Colour access control capabilities vary from device to device.
- ⁴⁸ Availability dependent on firmware or software updates or upgrades.
- ⁴⁹ Online Help must be enabled on the printer or MFP. Mobile device must have an Internet connection to access online services.

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