Hewlett-Packard Certificate of Volatility

Model: HP LaserJet Enterprise flow MFP M575	Part Number: CD646A = M575c CD645A = M575f	Address: Hewlett Packard Company 11311 Chinden Blvd Boise, ID 83714

Volatile Memory

Does the device contain volatile memory (Memory whose contents are lost when power is removed)?
☒ Yes ☐ No If Yes please describe the type, size, function, and steps to clear the memory below

Type (SRAM, DRAM, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:
DDR2 - DRAM	1.5 GB	☐ Yes ☒ No	Used for temporary storage during the process of jobs, and for applications that are running on the OS.	When the printer is powered off, the memory is erased.
Type (SRAM, DRAM, etc):	Size:	User Modifiable: ☐ Yes ☐ No	Function:	Steps to clear memory:
Type (SRAM, DRAM, etc):	Size:	User Modifiable: ☐ Yes ☐ No	Function:	Steps to clear memory:

Non-Volatile Memory

Does the device contain non-volatile memory (Memory whose contents are retained when power is removed)?
☒ Yes ☐ No If Yes please describe the type, size, function, and steps to clear the memory below

Type (Flash, EEPROM, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:
SPI Flash	4 MB	☒ Yes ☐ No	Contains the boot code and factory product configuration data required for the device to function. User modifications are limited to downloading digitally signed HP firmware images.	There are no steps to clear this data.
ICB EEPROM	32KB	☐ Yes ☒ No	Backup device for critical system counters and product configuration information.	There are no steps to clear this data.
None	Size:	☐ Yes ☒ No	Function:	Steps to clear memory:

Mass Storage

Does the device contain mass storage memory (Hard Disk Drive, Tape Backup)?
☒ Yes ☐ No If Yes please describe the type, size, function, and steps to clear the memory below

Type (HDD, Tape, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:
Self Encrypting Hard Disk, SATA 1 and SATA 2	320GB	☒ Yes ☐ No	Stores customer data, OS, applications, digitally signed firmware images, persistent data, and temporary data used for processing and system functions.	There are several ways to erase this: 1. Erase and Unlock Encrypted Disk - This changes the encryption keys rendering all data unreadable. 2. Secure Storage Erase - Erases temporary files and job data by overwriting information one or three times 3. Secure Disk Erase - Industry standard ATA Secure Erase. Overwrites all data on the hard drive. 4. Secure File Erase - Erases files when jobs finish processing by overwriting them one or three times.

USB	
Does the item accept USB input and if so, for what purpose (i.e Print Jobs, device firmware updates, scan upload)? ☒ Yes ☐ No If Yes please describe below	
Print jobs, HP digitally signed firmware upgrades, 3rd party application loading. USB ports can be disabled.	
Can any data other than scan upload be sent to the USB device)? ☒ Yes ☐ No If Yes please describe below	
Diagnostic service logs can be uploaded. Print files can be printed via a USB thumb drive.	

RF/RFID	
Does the item use RF or RFID for receive or transmit of any data including remote diagnostics. (e.g. Cellular phone, Bluetooth) ☐ Yes ☒ No If Yes please describe below	
Purpose:	
Frequency:	Bandwidth:
Modulation:	Effective Radiate Power (ERP):
Specifications:	

Other Transmission Capabilities	
Does the device employ any other methods of non-wired access to transmit or receive any data whatsoever (e.g. anything other than standard hard wired TCP/IP, direct USB, or parallel connections)? ☒ Yes ☐ No If Yes please describe below:	
Purpose: Product contains an integrated WiFi/NFC accessory module consisting of an HP Umber WiFi 802.11n and Near Filed Communication (NFC) radio. The WiFi portion acts in Access Point mode ONLY and provides AP client connection capability. NFC is used to pass NDEF tag data (WiFi SSID, WPA configuration data). The latter is used to enable wireless direct print for mobile devices.	
Frequency: 2.4Ghz to 2.5Ghz ISM band (WiFi); 13.56mhz ISO/IEC 18000-3 (NFC)	Bandwidth: 1Mhz Bandwidth (WiFi); 14Khz bandwidth (+-7Khz off center 13.56Mhz) (NFC)
Modulation: DSSS / OFDM modulation (WiFi)	Effective Radiate Power (ERP): Power output max is 20dBm for WiFi; (Note: Power out max for WiFi can be different in some regions and controlled by FW). Power output is 23dBm, into an 50 ohm transformer, for NFC; (Note: There will be some "loss" in the antenna and therefore this is not all radiated in to the air.)
Specifications: WiFi has 13 Channel support (@ a spacing of 20MHz) for B, G, & N modes; NFC is cable of reading / writing via the following speeds: 424 kbit/s Manchester / 10% ASK Manchester, 10% ASK; 212 kbit/s Manchester / 10% ASK Manchester, 10% ASK; 106 kbit/s Modified Miller / 100% ASK Manchester, 10% ASK Integrated module utilizes a USB 2.0 backplane interface.	

Other Capabilities	
Does the device employ any other method of communications such as a Modem to transmit or receive any data whatsoever? ☒ Yes ☐ No If Yes please describe below:	
Purpose:	
Specifications: Fax Telecom: ES 203 021; R&TTE Directive 1999/5/EC (Annex II) with CE Marking (Europe); FCC Part 68; other Telecom approvals as required by individual countries	

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