Hewlett-Packard Certificate of Volatility					
		Part Number:		Address:	
	Manag	ed		Hewlett Packard Company	
HP Color LaserJet Manage	ed X3A77A	A= E77822z		11311 Chinden Blvd	
Flow MFP E778XXz	X3A80A	A= E77825z		Boise, ID 83714	
	X3A83A	X3A83A= E77830z			
		Volatile	Memory		
Does the device contain vo					
Yes No If Yes pleat Type (SRAM, DRAM, etc.):		e type, size, functi User Modifiable:	on, and steps to clear the Function:	memory below Steps to clear memory:	
Type (SKAIWI, DKAIWI, etc.).	Size:	User Modifiable.	Operation system and	When the printer is powered off	
DDR3 - DRAM	HP Formatter		print/scan buffer	the memory is erased.	
	3GB- Obsidian 1 GB –Accel				
	board				
	4 GB - Main				
	Formatter	☐ Yes ⊠ No			
Type (SRAM, DRAM, etc.):	Size:	User Modifiable:	Function:	Steps to clear memory:	
		Yes No			
		Non-Vola	tile Memory		
Does the device contain no	n-volatile memo			hen power is removed)?	
		e type, size, functi	on, and steps to clear the	memory below	
Type (Flash, EEPROM, etc.):	Size:	User Modifiable:	Function:	Steps to clear memory:	
IOD EEPROM	32KB	☐ Yes ⊠ No	Store customer setting data for backup/restore	There are no steps to clear this data.	
Type (Flash, EEPROM, etc.):	Size:	User Modifiable:	Function:	Steps to clear memory:	
HP side: SPI Flash	4MB	⊠ Yes □No	Contains the boot code	There are no steps to clear this	
			and factory product configuration data require	data	
			for the device to function.		
			User modifications are		
			limited to downloading		
			digitally signed HP firmware images.		
Type (Flash, EEPROM, etc.):	Size:	User Modifiable:	Function:	Steps to clear memory:	
Samsung MSOK:		☐ Yes ⊠ No	TPM NVRAM - stores HP		
MSOK – TPM NVRAM	2 KB		signed immutable ID	changed through the device embedded web server	
MSOK – EEProm MSOK – CRUM	32 KB 32 KB		certificate and associated RSA key pair in locked	interface.	
moon onom	02.13		memory.	No other data stored on the	
			EEProm - stores device	MSOK can be cleared.	
			lifecycle data (e.g. device		
			page counts), copy of device speed license, and	d	
			SED (self-encrypting driv		
			drive lock password.		
			CRUM - stores device page counts, consumable	ae l	
			information, device speed		
			information, and product		
			serial number.		

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					
Yes Mo If Yes pleas Type (HDD, Tape, etc.):	Size:	User Modifiable:	Function:	Steps to clear memory:	
2 – Hard Drives (1 – HP	320GB/ea		Stores customer data, OS,	Secure Storage Erase –	
formatter & 1 – Main board)	0_0_0,00		applications, digitally	Areas temporary files and job	
,			signed firmware images,	data by overwriting information	
			persistent data, and	overwriting information one or	
			temporary data used for	three times.	
			processing and system	2. Secure Disk Erase – Erases	
			functions.	files when jobs finish	
				processing by overwriting them	
				one or three times. 3. Secure File Erase – Erases	
				files when jobs finish	
				processing by overwriting them	
				one or three times.	
		Ontinual N	lana Charana		
Does the device contain mas	s storage mei		lass Storage		
Yes No If Yes pleas	e describe th	e type, size, funct	tion, and steps to clear the m	emory below	
Type (HDD, Tape, etc.):	Size:	User Modifiable:	Function:	Steps to clear memory:	
Optional Formatter HDD 500	500GB	⊠ Yes □ No	Stores customer data,	Erase and Unlock Encrypted	
GB FIPS Encrypted HDD			OS, applications, digitally signed firmware	Disk – This changes the	
			images, persistent data,	Encryption keys rendering all data unreadable.	
			and temporary data	2. Secure Storage Erase –	
			used for processing and	Areas temporary files and job	
			system functions.	data by overwriting information	
				overwriting information one or	
				three times.	
				3. Secure Disk Erase – Erases files when jobs finish processing	
				by overwriting them one or three	
				times.	
				4. Secure File Erase – Erases	
				files when jobs finish processing	
				by overwriting them one or three	
				times.	
		L	ISB		
Does the item accept USB in			(i.e Print Jobs, device firmwa	are updates, scan upload)?	
☐ Yes ☐ No If Yes pleas			application loading. LISP por	to oon he disabled	
Print jobs, HP digitally signed Can any data other than scar				is can be disabled.	
Yes No If Yes please			vice):		
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:			Dondwidth:		
Frequency: Modulation:			Bandwidth: Effective Radiate Power (I	=RP)·	
Specifications:			LITECTIVE NATIONE FUMER (-IXI J.	
-					
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: WiFi Direct Print	
Frequency: 2.4 GHz, 5GHz	Bandwidth: 2401 - 2495 MHz; depending on selected channel in 2.4GHz band. 5180 - 5825 MHz; depending on selected channel in 5GHz band.
Modulation:	Effective Radiate Power (ERP):
Specifications: 802.11 b/g/n	

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: Device Beaconing, Secure Print Apps			
Frequency: 2.4 GHz	Bandwidth: 2400-2483.5 MHz; depending on selected		
	channel.		
Modulation:	Effective Radiate Power (ERP):		
Specifications: BTLE4.0 compliant			

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:

Author Information					
Name	Title	Email	Business Unit		
John Mast	Technical Marketing Engineer	Technical.Marketing@hp.com	IPG		
Robert Mejia	System Engineer	Technical.Marketing@hp.com	IPG		
Date Prepared: 9/14/2018					