Letter of Volatility							
Model Number:	Part Numbe	r:	Manufacturer:				
HP PageWide Pro MFP 477dn	D3Q19		Street Address:				
•			HP, Inc.				
			1115 SE 165 th Ave, Suite 210				
			Vancouver, WA 98683				
		Volatile Memory					
Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)?							
✓ Yes □ No							
If the answer is "Yes", please provide		information for each tyr	oe (use additional sheets if require	ed)			
Type (SRAM, DRAM, etc.):	Size:	User Modifiable:	Function:	Process to Sanitize:			
Type (Ord twi, Drd twi, etc.).	0120.	OSCI WOGINGSIC.	i dilodon.	1 100033 to Odintizo.			
DDR3 DRAM	512MB	☐ Yes	Contains decompressed system	Power Off printer			
DDR3 DRAIN	SIZIVID	☑ res ☑ No	firmware and print data during				
		I V NO	printing.				
	L	Non-Volatile Memo					
Does the item contain non-volatile me	emory (i.e. me		•				
	No	oniory whose contents t	are retained when power to remo-	rouj:			
Type (eMMC, Flash, EEPROM,	Size:	User Modifiable:	Function:	Process to Sanitize:			
• •	Size.	Osei Modillable.	i unction.	F100633 to Sanitize.			
etc):	256MB	□Vaa	System Firmware including	User preferences cleared			
NAND Flash	230IVID	Yes	firmware updates, system control	by performing various			
NAND FIASII		☑ No	data, user preferences, and	resets via "Support"			
			stored print and FAX jobs.	menu. Access from Home			
			, ,	menu by pressing "back,			
			This function can be disabled	back, back, back".			
			and settings locked using				
			admin password.	Stored print and FAX jobs			
				cleared through printer			
				embedded Web server			
				functions.			
				On the Administrated			
				See the Administrator's			
Type (eMMC Fleeb FFDDOM	Size:	User Modifiable:	Function:	Guide for more details.			
Type (eMMC, Flash, EEPROM,	Size.	Oser Modifiable.	Function.	Process to Sanitize:			
etc):	32KB		Contains system control data,	Cleared by performing			
FEDDOM (0 to decises)	and 32KB	Yes	user preferences, and variables.	various resets via			
EEPROM (2 separate devices)	and ozikb	☑ No	user preferences, and variables.	"Support" menu. Access			
				from Home menu by			
				pressing "back, back,			
				back, back".			
				See the Administrator's			
				Guide for more details.			
Type (eMMC, Flash, EEPROM,	Size:	User Modifiable:	Function:	Process to Sanitize:			
etc):							
	64KB	☐ Yes	Contains backup of critical	N/A, no user data stored.			
EEPROM		☑ No	system control data and critical				
			user preferences.				
Type (eMMC, Flash, EEPROM,	Size:	User Modifiable:	Function:	Process to Sanitize:			
etc):			Contains secure internal printer	N/A, no user info stored			
	17KB	☐ Yes	data.	here.			
Secure EEPROM		☑ No					
NA P							
Media No. 10 Media							
Does the item contain media storage capability (i.e., removable or non-removable disk drives, tape drives, memory cards, etc.)?							
✓ Yes □ No							

Type (Disk, Tape, Memory Card,	Size:	User Modifiable:	Function:	Process to Sanitize:		
etc): USB thumb drive (user supplied) Removable: ☑ Yes ☐ No	User supplied	☐ Yes ☑ No	Optionally supplied by the user. Stored print and FAX jobs can be stored onto an external thumb drive. Stored jobs are encrypted using keys unique to the individual printer.	Stored print and FAX jobs cleared through printer embedded Web server functions.		
			This function can be disabled and settings locked using admin password.			
Additional Information:						
		USB				
Does the item accept USB input and if so, for what purpose (i.e., Print Jobs, device firmware updates, scan upload)? ☑ Yes If yes, describe below ☐ No						
Additional information:						
The rear type B USB port can accept print and FAX jobs, printer configuration, and return printer status. The front, type A USB post can be used for providing files and photos to be printed, and to stored scan data. The function of the USB ports can be disabled and settings locked using admin password.						
Can any data other than scan upload			3			
✓ Yes If yes, describe below □ No						
Additional Information:						
A thumb-drive can be added to the rear USB A port and the printer configured to use it to store stored print jobs. The files are encrypted using AES 256 encryption and cipher keys unique to the individual printer.						
This function can be disabled and settings locked using admin password. The function of the USB ports can be disabled and settings locked using admin password.						
		RF/RFID				
Does the item use RF or RFID for red	eive or transn	nit any data including re	emote diagnostics (e.g., Cellular F	Phone, WIFI, or		
Bluetooth)? ☑ Yes If yes, describe below □ No						
Purpose:						
Wireless information string			T =			
Frequency:			Bandwidth:			
13.56MHz			106 – 424Kbs			
Modulation:			Effective Radiated Power (ERP	'):		
Manchester, 10% ASK			Not an intentional radiator. Loa tag emulation.	nd modulation as passive		
Additional Information:						
	(Other Transmission Cap	pabilities			
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 If yes, describe below							
☑ No							
Frequency:		Bandwidth:					
Modulation:		Effective Radiated Power (ERP):					
Additional Information:							
Other Capabilities							
Does the device employ any other method of communications such as a Modem to transmit or receive any data whatsoever? ✓ Yes If yes, describe below							
Purpose:							
FAX							
Specifications:							
T.30 FAX protocol standard for FAX communication.							
Within T.30 – V.21 protocol as control channel							
Within T.30 V.23, V.32, and V.34 as data transfer protocols							
Additional Information:							
This product can send and receive FAX transmissions over a standard telephone line.							
·							
Vendor Engineer/SME Representative Information							
Name:	Title:	Email:	Business Unit:				
Sing Wah Chew	Technical Marketing Engineer	technical.marketing@hp.com	IPG				
Name:	Title:	Email:	Business Unit:				
David Gembala	Lead Electrical Engineer	technical.marketing@hp.com	IPG				
Name:	Title:	Email:	Business Unit:				
Carl Peterson	Firmware Program Manager technical.marketing@hp.com IPG						
Date Completed – November 9, 2018 rev. 2							