Letter of Volatility							
Model Number:	Part Nun		Manufacturer:				
HP PageWide Pro 750dw	Y3Z46A		Street Address	S:			
			HP, Inc.				
			1115 SE 165 th	Ave, Suite 210			
			Vancouver, WA 98683				
		Volatile l					
Yes_	Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)?						
				type (use additional sheets if required)			
Type (SRAM, DRAM,	Size	User Modifiable:	Function:	Process to Sanitize:			
etc):	512MB	☐ Yes	Contains	Power Off printer			
DDR3 DRAM (3 devices)	+	■ No	decompressed				
	512MB,		system firmware and				
	and		print data				
	512MB		during printing				
Type (SRAM, DRAM,	Size:	User Modifiable:	Function:	Process to Sanitize:			
etc):	0,20.	☐ Yes	i dilodon.	. 100000 to Caritize.			
Cio).		□ No					
		Non-Volati	le Memorv				
Does the item contain non-	volatile me			s are retained when power is			
removed)?		□ No	,				
Type (eMMC, Flash,	Size:	User Modifiable:	Function:	Process to Sanitize:			
EEPROM, etc):eMMC (1	8GB	Yes	System	On units with older versions of Firmware			
device)	eMMC	□ No	Firmware and	(versions LIMOFWPP1N002 through			
,			firmware	1N005), User preferences and user			
			upgrade,	variables, image data, and encrypted job			
			system control	storage and PIN printing cleared by			
			data, user	performing a reset via "Restore Factory Defaults". Access to this function can be			
			preferences, user variables,	found under:			
			image data,	Home menu			
			and encrypted	Support tools			
			job storage	Maintenance			
			and PIN	"Restore Factory Defaults"			
			printing.				
				On units with newer versions of Firmware			
				(version LIMOFWPP1N006 or greater),			
				User preferences and user variables,			
				image data, and encrypted job storage and PIN printing cleared by performing a			
				reset via the "Cold Reset"			
				function. Access to this function can be			
				found under:			
				Home menu			
				Support tools			
				Service (Note: the user needs to			
				enter the Service pin			
				number at this screen and after, the unit will			
				boot into the Service			
				mode screen)			
				Maintenance			
				Restore Factory Defaults			
				Cold Reset			

				A second method to sanitize Image data, encrypted job storage and PIN printing can be performed using the printer's Embedded Web Server (EWS). Using a web browser on the same network as the printer, browse to the printer's IP address. Select the "Settings" tab at the top, and then from the left navigation bar, select the "Security->Protect Stored Data" menu items. Near the bottom of the page will be the section called "Erase Job Data". Click on the "Erase Now" button. See the Administrator's Guide for more details.
Type (eMMC, Flash, EEPROM, etc): EEPROM (2 devices)	Size: 64kB 32kB	User Modifiable: Yes No	Function: Contains system control data, user preferences, and variables.	Process to Sanitize: User preferences and variables are cleared the following way: Unplug AC power cord. While pressing the front of the unit's On/Off button, plug in the AC power cord. Hold the ON/OFF button until the unit boots up into a special mode with the screen blank and only "Home" and "Back" LED buttons lit on the front panel. Press "home, back, home, home", then "menu", then press "next" two times, then press "OK" to initiate a full reset. Please be aware you may want to do a "Restore Factory Defaults" from the Printer Maintenance screen after you do the full reset.
Type (eMMC, Flash, EEPROM, etc): EEPROM (2 devices)	Size: 64kB, and 64kB	User Modifiable: ☐ Yes ☐ No	Function: Contains backup of critical system control data.	Process to Sanitize: N/A, no user info stored here.
Type (eMMC, Flash, EEPROM, etc): Secure EEPROM	Size: 18kB	User Modifiable: ☐ Yes ☐ No	Function: Contains secure internal printer data.	Process to Sanitize: N/A, no user info stored here.
Type (eMMC, Flash, EEPROM, etc): EEPROM (1 device)	Size: 1kB,	User Modifiable: ☐ Yes ☐ No	Function: Contains internal printer data.	Process to Sanitize: N/A, no user info stored here.

Does the item contain media storage capability (i.e., removable or non-removable disk drives, tape drives, memory cards, etc.)? Type (Disk, Tape, Memory Card, etc): Memory Card; et/MC module Removable: Yes No User Ugrade, option= 1289B No User Ugrade, vestioned limitimare upgrade, system control data, user preferences, variables and Encrypted job storage and PIN printing. On units with newer versions of Firmw (versions LIMOFWPP1N002 through 1N005), User preferences and user variables, image data, and encrypted pob storage and PIN printing. On units with newer versions of Firmw (versions LIMOFWPP1N006 or greate User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performir reset via the "Cold Reset" function. Access to this function can to found under: Home menu Support tools Maintenance User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performir reset via the "Cold Reset" function. Access to this function can to found under: Home menu Support tools Service (Note: the user needs enter the Service pin number at this screen and after, the unit will boot into the Service mode screen) Maintenance Restore Factory Defaults Cold Reset A second method to sanitize: On units with lolder versions of Firmw (versions LIMOFWPP1N006 or greate User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performir reset via the "Cold Reset" A second method to sanitize Image de encrypted job storage and PIN printin can be performed using the printer's Embedded Web Server (EWS). Usin web browser on the same network as printer, brows to the printer's IP add Select the "Security->Protect Stored Data'n items. Near the bottom of the page with the page with the printer's IP add Select the "Security->Protect Stored Data'n items. Near the bottom of the page with the printer's IP add Select the "Security->Protect Stored Data'n items. Near the bottom of the page with the printer's IP add S	Media					
Type (Disk, Tape, Memory Card, etc): Memory Card; eMMC module Removable: Yes						
Memory Card; etNMC module Memory Card: eMMC gotion = 128GB No	memory cards, etc.)?	<u>Yes</u>		□ No		
Click off the Liase Now Button.	memory cards, etc.)? Type (Disk, Tape, Memory Card, etc): Memory Card: eMMC module Removable: Yes	Yes Size: Upgrade option =	User Modifiable:	Function: System Firmware and firmware upgrade, system control data, user preferences, variables and Encrypted job storage and	Process to Sanitize: On units with older versions of Firmware (versions LIMOFWPP1N002 through 1N005), User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performing a reset via "Restore Factory Defaults". Access to this function can be found under: Home menu Support tools Maintenance "Restore Factory Defaults" On units with newer versions of Firmware (version LIMOFWPP1N006 or greater), User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performing a reset via the "Cold Reset" function. Access to this function can be found under: Home menu Support tools Service (Note: the user needs to enter the Service pin number at this screen and after, the unit will boot into the Service mode screen) Maintenance Restore Factory Defaults Cold Reset A second method to sanitize Image data, encrypted job storage and PIN printing can be performed using the printer's Embedded Web Server (EWS). Using a web browser on the same network as the printer, browse to the printer's IP address. Select the "Settings" tab at the top, and then from the left navigation bar, select the "Security->Protect Stored Data" menu items. Near the bottom of the page will be the section called "Erase Job Data".	
See the Administrator's Guide for mo					be the section called "Erase Job Data".	

Additional Information:

The media storage capability described here is an option where the internal eMMC memory system can be upgraded from the standard 8GB to the optional 128GB. The fact this memory can be upgraded makes it "removable" from the upgrade standpoint, but it is not "removable" in the same fashion as is a USB thumb drive. Job storage data, Pin Printing data and Digital send data are encrypted using an AES 256 encryption algorithm. User private data and Fax data use an AES 128 encryption algorithm. While all user data, job storage data, Pin Printing data, Digital send data, and Fax data are encrypted on the eMMC memory (standard or upgrade sizes), the process of encryption is a software process which provides the encryption capabilities.

USB
Does the item accept USB input and if so, for what purpose (i.e Print Jobs, device firmware updates, scan upload)?
Yes - Purpose is for Print Jobs, Device FW updates, scan uploads and 3 rd part application loading.
Can any data other than scan upload be sent to the USB device?
Yes -Diagnostic service logs can be uploaded. Back-up of encrypted system settings. Supports Hardware Integration Pocket (HIP) devices.
Additional Information: This product has both a USB device port and 2 USB host ports. Data on the USB host ports
can be accessed from the device port. Also, an internal mini-B USB port enables an accessory option where a Hardware Integration Pocket (HIP) device can be added. The HIP option conforms to the HIP protocol and enables both HP and 3 rd party hardware/software. The HIP device does not ship with the product and is added by the user as an option.
RF/RFID
Does the item use RF or RFID for receive or transmit of any data including remote diagnostics. (e.g. Cellular
Phone, Wifi, Bluetooth)
■ Yes - Wifi ■ No
If yes, what is the purpose_ <u>WiFi connectivity for printer activity such as print jobs and printer configuration</u>
If yes, what is the frequency 2.4GHz ISM band (2400-2500MHz) and 5GHz U-NII-1,2,3 band (5.1-5.9GHz)
Bandwidth 20MHz and 40MHz; Typical speed for 20MHz BW = 50Mbps/ 40MHz BW = 100Mbps Modulation DSSS(Direct sequence spread spectrum), DBPSK, DQPSK, CCK, OFDM
Effective Radiate Power (EIRP) _20.5 dbm
Specifications_802.11a/n
Additional Information: This product uses WiFi connectivity for printer activity such as print jobs and printer
configuration.
RF/RFID
Does the item use RF or RFID for receive or transmit of any data including remote diagnostics. (e.g. Cellular
Phone, Wifi, Bluetooth)
Yes - Bluetooth 4.0
If yes, what is the purpose_Bluetooth 4.0 connectivity for easier attachment with printer Networking subsytems
If yes, what is the frequency 2.4-2.5 GHz
Bandwidth ~2 MHz
Modulation1 Mbps GFSK
Effective Radiate Power (EIRP)less than 10 dbm
Specifications <u>BT 4.0 compliant</u>
Additional Information: This product uses Bluetooth 4.0 connectivity for easier attachment with printer Networking
subsytems
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 - NFC No
If yes, what is the purpose: Near-Field Authentication (NFC) with printer Networking subsystems
If yes, what is the frequency <u>13.56 MHz</u> ; Bandwidth <u>848 kbit/s max</u> :
Modulation: ISO/IEC 14443B; Effective Radiate Power (ERP): 0 Watts (passive writer only).
SpecificationsRF Standard ISO/IEC 14443B and NFC Tag Type 4B
Additional Information: This product uses NFC connectivity for Authentication with printer Networking subsytems

Other Capabilities						
Does the device employ any other method of communications such as a Modem to transmit or receive						
any data whatsoever?						
■ <u>No</u>						
Vendor Engineer/SME Representative Information						
Title:	Email:	Business Unit:				
Technical Marketing	technical.marketing@hp.com	IPG				
Engineer						
9						
Title:	Email:	Business Unit:				
Lead Electrical Engineer	technical.marketing@hp.com	IPG				
Date Completed - 1/30/2018						
	Vendor Engineer/SME Re Title: Technical Marketing Engineer	Vendor Engineer/SME Representative Information Title: Technical Marketing Engineer Title: Lead Electrical Engineer Email: technical.marketing@hp.com Email: technical.marketing@hp.com				