Letter of Volatility					
Model Number:	Part Nun				
HP PageWide Managed P75050dw	Y3Z47A		Street Address: HP, Inc. 1115 SE 165 th Ave, Suite 210 Vancouver, WA 98683		
		Volatile	Memory		
Yes		No		e lost when power is removed)?	
				type (use additional sheets if required)	
Type (SRAM, DRAM, etc): DDR3 DRAM (3 devices)	Size 512MB + 512MB, and 512MB	User Modifiable: □ Yes <mark>□ No</mark>	Function: Contains decompressed system firmware and print data during printing	Process to Sanitize: Power Off printer	
Type (SRAM, DRAM, etc):	Size:	User Modifiable: Yes No	Function:	Process to Sanitize:	
		Non-Volati			
Does the item contain non- removed)?	volatile me	emory (i.e., memor <u>y</u> D No	y whose content	ts are retained when power is	
Type (eMMC, Flash, EEPROM, etc):eMMC (1 device)	Size: 8GB eMMC	User Modifiable: Ves No	Function: System Firmware and firmware upgrade, system control data, user preferences, user variables, image data, and encrypted job storage and PIN printing.	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". 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 <mark>☐ No</mark>	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 <mark>■ No</mark>	Function: Contains internal printer data.	Process to Sanitize: N/A, no user info stored here.

emory cards, etc.)?	Yes		🗖 No	
		User Modifiable: Yes No		emovable disk drives, tape drives, Process to Sanitize: On units with older versions of Firmware (versions LIMOFWPP1N002 through 1N005), User preferences and user variables, image data, and encrypted jot 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 Firmwar (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 th 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" meri- items. Near the bottom of the page will 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 <u>2.4GHz ISM band (2400-2500MHz) and 5GHz U-NII-1,2,3 band (5.1-5.9GHz)</u>			
Bandwidth 20MHz and 40MHz; Typical speed for 20MHz BW = 50Mbps/ 40MHz BW = 100Mbps			
ModulationDSSS(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 <u>~2 MHz</u>			
Modulation <u>1 Mbps GFSK</u> Effective Radiate Power (EIRP)less than 10 dbm			
SpecificationsBT 4.0 compliant			
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: <u>Near-Field Authentication (NFC) with printer Networking subsystems</u>			
If yes, what is the frequency_ <u>13.56 MHz; Bandwidth_848 kbit/s max</u> :			
Modulation: ISO/IEC 14443B; Effective Radiate Power (ERP): 0 Watts (passive writer only).			
Specifications <u>RF Standard ISO/IEC 14443B and NFC Tag Type 4B</u>			
Additional Information: This product uses NFC connectivity for Authentication with printer Networking subsytems			
Additional information. This product accorts o connectivity for Addientication with printer retworking subsytems			

Other Capabilities						
Does the device employ any other method of communications such as a Modem to transmit or receive any data whatsoever?						
□ Yes	No					
Additional Information:						
Vendor Engineer/SME Representative Information						
Name:	Title:	Email:	Business Unit:			
Richard Seton	Technical Marketing	technical.marketing@hp.com	IPG			
	Engineer					
Name:	Title:	Email:	Business Unit:			
Paul Bliley	Lead Electrical Engineer	technical.marketing@hp.com	IPG			
Date Completed - 1/30/2018						