Statement of Volatility

Xerox® iGen® 5 Press FreeFlow® Print Server

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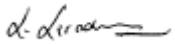
Signature	
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Notice

This document describes the locations, capacities and contents of volatile and non-volatile memory devices within the FreeFlow® Print Server.

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Statement of Volatility

Xerox® iGen®5 Press FreeFlow® Print Server

Introduction

The Xerox® iGen® 5 Press FreeFlow® Print Server is used to perform the following tasks:

High Speed Production Printing

The FreeFlow® Print Server is intended to be connected to:

Xerox Print Engine

Xerox Print Station Interface Platform ("PSIP")

These modules provide the basic configuration. Depending on what is purchased, the number and types of feeders and finishers contained in the completed system can change.

This document describes the amounts and types of memory contained in the device in an easy to read tabular format. To allow security issues to be addressed as needed, specific commentary has been included about job data and where Personally Identifiable Information (PII) can be found in the system.

The information contained in this document has been verified at the time the product is released for sale. Manufacturing process changes may require that memory amounts are increased, but the purpose or contents of the memory should not change.

General Memory Information

Volatile Memory

All volatile memory listed is cleared after power is removed (decay occurs generally within 20 seconds at room temperature).

All volatile memory listed is required for normal system operation and during service and diagnostic procedures.

Removal of any volatile memory will void the warranty.

Non-Volatile Memory

All non-volatile memory listed is required for normal system operation and during service and diagnostic procedures.

Removal of any non-volatile memory will void the warranty.

None of the non-volatile memory in the system can be accessed by accidental keystrokes.

Xerox® FreeFlow® Print Server (Digital Front End) System Descriptions

The data tables below detail the information regarding the volatile and non-volatile memory contained in the FreeFlow Print Server used on the Xerox® iGen® 5 Press FreeFlow® Print Server based on Dell Power Edge T630 (E5-2687 v3)

The Free Flow Print Server Digital Front End is a PC-type motherboard and an interface card. It is equipped with a BIOS, main RAM and Video memory.

Volatile Memory Descriptions

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
DDR4 System Memory	64GB	N	System OS RAM to contain executable code. No job data stored here persistently.	Reboot or power down system.
DRAM	25MB	N	CPU Smart Cache Memory per	Reboot or power down the system
System CPLD RAM	1KB	N	Not utilized or accessible by the Host	Reboot or power down the system
SDRAM	512MB	N	Storage controller executable code	Reboot or power down the system
DRAM	512MB	N	Video Display Memory, No job data stored here persistently	Reboot or power down system

Non-Volatile Memory Descriptions

Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
LOM EEPROM	8Mb	Y with vendor-provided tool.	System BIOS. No job data stored here.	Not possible, system not functional if corrupted/removed.
CMOS RAM	256Bytes	N	Battery Backed-up storage No job data stored here	Diagnostic or remove battery
LOM Flash	512kb	Y	Contains Boot and configuration data for Network on motherboard	Loader program
SPI Flash	4MB	N	iDRAC Boot code , Server management persistent storage, Lifecycle logs, Virtual Planar FRU, System event log,	Not possible
eMMC NAND Flash	4GB	N	Operational iDRAC Firmware, Lifecycle USC partition, Lifecycle service diagnostics, Lifecycle OS drivers, USC firmware.	BMC Controller program
Backplane Flash	32KB	N	Backplane firmware and FRU data storage	Not possible
NVSRAM	128KB	N	Storage controller configuration data	Not possible
EEPROM	128B	N	1-Wire Memory for configuration data	Not possible
Flash	16MB	N	Contains boot code for storage controller	Not possible

FFPS Interface Card:

Non-Volatile Memory Descriptions

Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash EEPROM	8MB	N	Programmable logic configuration information. No job data stored here.	Not possible, system not functional if corrupted/removed.

Xerox® FreeFlow® Print Server (Digital Front End) System Descriptions (continued)

The data tables below detail the information regarding the storage devices contained in the FreeFlow® Print Server.

Hard Disk Descriptions

Complete this table if the device has media storage capability

Drive / Partition (System, Image):	Removable Y / N	Size:	User Modifiable: Y / N	Function:	Process to Clear:
System Disk	Y	1.2TB	N with normal operation	Operating System, Fonts, configuration file storage	Diagnostic Procedure
Image Disk	Y	1.2TB	N with normal operation	Job Images	Diagnostic Procedure
Image Disk	Y	1.2TB	N with normal operation	Job Images	Diagnostic Procedure
Image Disk	Y	1.2TB	N with normal operation	Job Images	Diagnostic Procedure

Additional Information:

The System Disk (C drive) contains the Windows Operating System and store Executable, Fonts, and Settings files. During normal operation, job files remain stored on the data partition (D drive) until completed or removed. Under typical system usage job images may also be stored temporarily on the data partition. The total size of the HDD is 4.8TB and the approximate usage of the disk by Operating System and application software is 970GB. The approximate usage size for "data" is 1.14TB and for "outQ" is 2.12TB, The approximate recovery partition size is 150GB. However the usage size for "data" and "outQ" partition can increase while running the Free Flow® Software.

Images are stored in a proprietary encoded format and fragments of the job data are stored at random locations in the data partition. Free Flow® has a data overwrite tool and not a disk overwrite tool. The data overwrite tool wipes out only customer Job image and data. It is based on "DoD 5220.22-M" algorithm and it will not wipe out the entire disk, merely area that contains job images.

Media and Storage Descriptions

Type (disk drives, tape drives, CF/SD/XD memory cards, etc.):	Removable Y / N	Size:	User Modifiable: Y / N	Function:	Process to Clear:
DVD/CD Drive	Y	8.5GB	Yes File storage	Backup Device	Destroy media Overwrite RW media

Additional Information:

Print Jobs can be stored on removable media which can be used to back up or store desired jobs. Once copied to media, that information must be physically secured by the user to prevent data loss.

USB Port(s)

Complete an entry for each USB port

USB port and location	Purpose
Front of FreeFlow® Print Server: 1 USB 2.0 and 1 USB 3.0 ports	User stores scanned files of job files on Flash Media. Physical security of this information is the responsibility of the user or operator.
Back of FreeFlow® Print Server: 4 USB 2.0 and 2 USB 3.0 ports	User stores scanned files of job files on Flash Media. Physical security of this information is the responsibility of the user or operator.

Additional Information:

A number of devices can be connected to USB ports on the FreeFlow Print Server system. Once information has been copied (either as a back-up data set or as a transfer medium), physical security of this information is the responsibility of the user or operator.