



Statement of Volatility

Xerox Versant 2100 Color Press FreeFlow[®] Print Server

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Statement of Volatility

Xerox Versant 2100 Press FreeFlow[®] Print Server

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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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Xerox Versant 2100 FreeFlow[®] Print Server

Introduction

The Xerox Versant 2100 Press FreeFlow[®] Print Server is used to perform the following tasks:

- High Speed Production Color Printing

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

- Print Engine

- Feeder Modules

- Finishing Modules

These modules provide the basic configuration. Depending on what is purchased, the number and types of feeders and finishers 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 Color 2100 Press based on Dell PowerEdge T320i (E5-2440).

The Free Flow Print Server Digital Front End is a PC-type motherboard. 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:
DDR3 DRAM	48GB	N	System OS RAM to contain executable code. No job data stored here persistently.	Reboot or power down system.
DRAM	15MB	N	CPU cache	Reboot or power down system

Non-Volatile Memory Descriptions				
Type (Flash, EEPROM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash 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	1MB	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
Power Supply EEPROM	2MB	N	Power Supply operation, Power management data and fault behaviors	Specific tool by Manufacturer
Backplane Flash	36KB	N	Backplane firmware and FRU data storage	Loader program

FFPS Interface Card:

Non-Volatile Memory Descriptions				
Type (Flash, EEPROM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash EEPROM	64MB	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	500GB	N with normal operation	Operating System, Fonts, configuration file storage	Diagnostic Procedure
Image Disk	Y	500GB	N with normal operation	Job Images	Diagnostic Procedure
Image Disk	Y	500GB	N with normal operation	Job Images	Diagnostic Procedure
Image Disk	Y	500GB	N with normal operation	Job Images	Diagnostic Procedure

Additional Information:
 The System Disks contain the Solaris Operating System and store executables, fonts, and settings files. During normal operation, job files remain stored on the disk until completed or removed. Under typical system usage job images may also be stored temporarily on the System disk in the Solaris-managed “swap partition”. Images are stored in a proprietary encoded format and fragments of the job data are stored at random locations in the swap partition. Reverse engineering of the swap partition area would be needed to retrieve the encoded image which would then need to be decoded for viewing.

The Image Disks store images in a proprietary encoded format in non-contiguous blocks. User data and image data may be completely erased if optional Disk Overwrite kit is installed and enabled. These disks are cleared using a three-pass algorithm which conforms to U.S. Department of Defense Directive 5200.28-M. NOTE: For even greater security, Xerox provides a “Removable Hard Drive” (RHD) option so that disk drives may be removed from the system and physically secured elsewhere.

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	4.7GB	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)	
USB port and location	Purpose
Front of FreeFlow [®] Print Server: 2 USB2.0 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: 6 USB2.0 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.