Versant 80 Press FreeFlow® Print Server

Statement of Volatility
Version 1.2
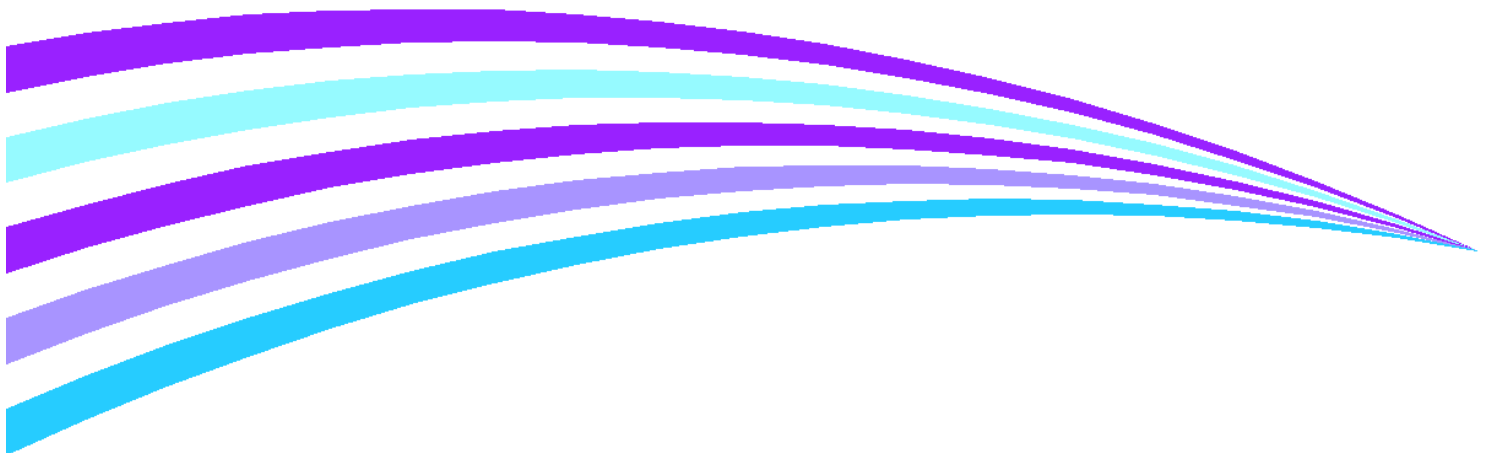
Notice

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

The context of the information in this document is that normal means of access or data extraction are being attempted in order to reproduce, read, or extract stored or latent data. This does not include attempts to reproduce, read or extract data or reverse engineer storage methods by individuals or organizations with advanced skills or with extraordinary resources and measures or specialty equipment not normally available in the industry or to the public.

The content of this document is provided for information purposes only. Performance of the products referenced herein is exclusively subject to the applicable Xerox Corporation terms and conditions of sale and/or lease. Nothing stated in this document constitutes the establishment of any additional agreement or binding obligations between Xerox Corporation and any third party.

Introduction

The Xerox Versant 80 Press FreeFlow® Print Server is used to perform the following tasks:

High Speed Production Printing

The FreeFlow® Print Server can 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 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 potential locations of job data and Personally Identifiable Information (PII).

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.

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 Versant 80 Press Printer based on Dell OptiPlex XE2 MT (i7-4770S)

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				
Type (SRAM, DRAM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
DDR3 DRAM	32GB	N	System OS RAM to contain executable code. No job data stored here persistently.	Reboot or power down system.
DRAM	8MB	N	CPU cache	Reboot or power down system

Non-Volatile Memory				
Type (Flash, EEPROM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash EEPROM	12MB	Y with vendor-provided tool.	System BIOS. Boot code. System configuration information. No job data stored here.	Not possible, system not functional if corrupted/removed.
Battery backed (CMOS) RAM	256KB	N	BIOS settings No job data stored here.	Motherboard jumper, OR Remove power; remove battery, wait, and replace.
TPM Chip	4KB	N	Trusted Platform Module. No job data stored here.	Not possible, system not functional if corrupted/removed.

Interface Card:

Non-Volatile Memory				
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.

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

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 four-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)

Complete an entry for each USB port

USB port and location	Purpose
Front of FreeFlow® Print Server: 2 USB2.0 ports, 2 USB3.0 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 USB2.0 ports, 2 USB3.0 ports	User stores scanned files of job files on Flash Media. Physical security of this information is the responsibility of the user or operator.
Internal FreeFlow® Print Server: 2 USB2.0 port	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.