



Xerox<sup>®</sup> Versant<sup>®</sup> 180 Press

Xerox<sup>®</sup> FreeFlow<sup>®</sup> Print Server

Statement of Volatility

Version 1.0

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Document Version: 1.0 (April 2017).

FreeFlow® Print Server Statement of Volatility

## 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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## Introduction

This report presents the information regarding the volatile and non-volatile memory contained in the FreeFlow Print Server used on the Xerox Versant 180 Color Press (Product Code 4BP). The FreeFlow Printer Server is based on Dell Optiplex XE2 MT with customization on processor, memory and custom interface card.

The Xerox® Versant® 180 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:

- 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 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.

## 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® 180 Color Press 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	3MB	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	256Bytes	N	Real-time clock and BIOS configuration settings. No job data stored here.	Through Motherboard jumper settings, OR Remove power; remove battery for 30 seconds
Embedded Flash memory in embedded controller	96KB + 2KB	N	ARC625D - FAN control and Pre-boot diagnostic function 8042 Keyboard Controller	Not possible, system not functional if corrupted/removed.
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.

<b>Hard Disk Descriptions</b>					
<b>Complete this table if the device has media storage capability</b>					
<b>Drive / Partition (System, Image):</b>	<b>Removable Y / N</b>	<b>Size:</b>	<b>User Modifiable: Y / N</b>	<b>Function:</b>	<b>Process to Clear:</b>
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
<p><b>Additional Information:</b></p> <p>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.</p> <p>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.</p> <p>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.</p>					

<b>Media and Storage Descriptions</b>					
<b>Type (disk drives, tape drives, CF/SD/XD memory cards, etc.):</b>	<b>Removable Y / N</b>	<b>Size:</b>	<b>User Modifiable: Y / N</b>	<b>Function:</b>	<b>Process to Clear:</b>
DVD/CD Drive	Y	4.7/8.5 GB	Yes File storage	Backup Device	Destroy media. Overwrite RW media 4.7 – Single-Layer Disc 8.5 – Double-Layer Disc
<p><b>Additional Information:</b></p> <p>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.</p>					

<b>USB Port(s)</b>	
<b>USB port and location</b>	<b>Purpose</b>
Front of FreeFlow® Print Server: 2 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.
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.
<p><b>Additional Information:</b></p> <p>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.</p>	