Statement of Volatility
Xerox® D95/D110/D125 Printer
FreeFlow® Print Server

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This evaluation and summary was completed by:

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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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Introduction

The Xerox® D95/D110/D125 Printer 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 ("PC-UI") – optional product-specific feature

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® D95/D110/D125 Printer, Product Code P A 5.

The FreeFlow Print Server Digital Front End is a PC-type motherboard. It is equipped with a BIOS, main RAM and Video memory. A separate board implements the interface between the print server and the print engine and it contains programmable logic configuration memory.

Volatile Memory Descriptions				
Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
DDR3 DRAM	4GB	N	System OS RAM to contain executable code. No job data stored here persistently.	Reboot or power down system.
DRAM	1GB	N	VGA frame buffer (Video Display memory) No job data stored here persistently.	Reboot or power down system
DRAM	3MB	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	2MB	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, then replace.
NIC EEPROM	1MB	N	Programmable logic configuration information. No job data stored here.	Not possible, system not functional if corrupted/removed.

Interface Card:

Volatile Memory Descriptions				
Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
FPGA-implemented RAM	1.12MB	N	Configuration memory loaded from Flash EEPROM. No job data stored here persistently.	Power down system

Non-Volatile Memory Descriptions				
Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash EEPROM	4MB	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/Image Disk	Y	250GB	N with normal operation	Operating System, Fonts, configuration file storage, job images	Diagnostic Procedure

Additional Information:

The System/Image Disk contains the Solaris Operating System and stores executables, fonts, and settings files. The disk stores images in a proprietary encoded format in non-contiguous blocks. During normal operation, files containing customer job data remain stored on the disk until they are eventually over-written in the course of normal processing, or until the Data Overwrite feature is used to "clear or purge" the files.

When the system must be returned to Xerox, the entire HDD can be cleaned or purged by a bootable diagnostic HDD Purge tool that is available to Xerox Service. These disks are cleared using a four-pass algorithm which conforms to U.S. Department of Defense Directive 5200.28-M (DOD Directive 8500.1 supersedes 5200.28M).

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. Xerox Service can also remove the HDDs from the system and hand them over to the customer, for a nominal charge.

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: Two 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. NOTE: These USB ports are not being used for diagnostics.
Back of FreeFlow Print Server: Four USB2.0 ports and one 24V powered 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. NOTE: These USB ports are not being used for diagnostics.
Internal FreeFlow Print Server: Two 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. NOTE: These USB ports are not being used for diagnostics.

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.