![xerox]

Statement of Volatility
Phaser 4600/4620/4622

Version 1.0 for Phaser 4622

May 16, 2014

Statement of Volatility
Phaser 4600/4620/4622

Notice

This document describes the locations, capacities and contents of volatile and non-volatile memory devices within the Phaser 4600/4620/4622.

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 through the use of 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.

This evaluation and summary was certified by:

Signature	
Printed Name	Ralph H. Stoos Jr.
Job Title	Technical Program Manager
Job Function	Product Security Office
Preparation Date	May 9,2014

This evaluation and summary was completed by:

Signature	
Printed Name	William Williams
Job Title	Senior Program Manager
Job Function	Phaser 4622 Program Manager
Preparation Date	May 9,2014

Statement of Volatility
Phaser 4600/4620/4622

Introduction

The Phaser 4600/4620/4622 is used to perform the following tasks:

Printing

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.

Device Module Descriptions

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Phaser 4600/4620/4622 print engine.

Volatile Memory Description

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
DDR2-SDRAM	256MB/768MB	No	Main Memory	Power Off System

Additional Information:
All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations after job processing.

Non-Volatile Memory Description

Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash	32MB	No	Operating System, PDL Interpreters, Fonts, MIB, Code used for scheduling the marking of jobs, Firmware Upgrades	None. No PII stored here.
S-Flash	4MB	No	Audit log, System data, Downloadable Font	Diagnostic Procedure
EEPROM	32KB	No	System data	Diagnostic Procedure
CryptoMemory	256B	No	MSOK	None

Additional Information:
All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.

Hard Disk Descriptions

Complete this table if the device has media storage capability

Drive / Partition (System, Image):	Removable Y / N	Size: (4622/4620)	User Modifiable: Y / N	Function:	Process to Clear:
HDD	No	160(80)	No with normal operation	Fault History, Backward compatibility	Diagnostic Procedure
HDD_SYS	No	80(40)	No with normal operation	All permanent user and device history data to be encrypted (e.g. Accounting profiles, Audit Log, etc.)	Diagnostic Procedure; Full Image Overwrite
HDD_SECURE	No	16(8)	No with normal operation	All temporary user data to be encrypted and overwritten (e.g. spooled print jobs)	Immediate, Standard and Full Image Overwrite
HDD_SECURE2	No	64(32)	No with normal operation	Saved Jobs(Encrypted)	Immediate and Full Image Overwrite

Additional Information:
This System disk contains the fonts, and settings files. During normal operation, job files do not remain stored on this disk. Under typical system usage job images may also be stored temporarily on the System. Images are stored in a proprietary encoded format and fragments of the job data are stored at random locations. 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 Disk stores 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. Using a four-pass algorithm which conforms to U.S. Department of Defense Directive 5200.28-M (DOD Directive 8500.1 supersedes 5200.28M), images will be removed that are
NOTE: For even greater security, Xerox provides a "Removable Hard Drives (RHD) option.

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:
N/A	N/A	N/A	N/A	N/A	N/A

Additional Information:

USB Port(s)

Complete an entry for each USB port

USB port and location	Purpose
USB port on front of device.	Print from USB drive, Clone from USB drive, create Clone file on USB drive.
USB Target port at rear left side of device	Print from client via USB cable

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.

RFID Devices	
Complete an entry for each RFID device	
RFID Device	**Purpose**
N/A	N/A
Additional Information:	