



Statement of Volatility

WorkCentre 5135/5150 Multi-Function Device

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WorkCentre 5135/5150 Multi-Function Device

Notice

This document describes the locations, capacities and contents of volatile and non-volatile memory devices within the WorkCentre 5135 and WorkCentre 5150

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Statement of Volatility

WorkCentre 5135/5150 Multi-Function Device

Introduction

The WorkCentre 5135/5150 Multi-Function Device is used to perform the following tasks:

- Printing
- Copying
- Scanning
- Faxing

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.

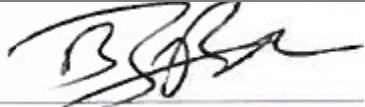
Removal of any non-volatile memory will void the warranty.

None of the non-volatile memory in the system can be accessed by accidental keystrokes.


Device Module Descriptions

Signature Block

This evaluation and summary was completed by:

Signature	
Printed Name	Brian Rook
Job Title	Electronics Module Manager
Job Function	Electronics Module Manager
Preparation Date	2009

This evaluation and summary was reviewed by:

Signature	
Printed Name	Larry Kovnat
Job Title	Product Security Manager
Job Function	Product Security
Preparation Date	2009

The data tables below detail the information regarding the volatile and non-volatile memory contained in the WorkCentre 5135/5150 Multi-Function Device print engine.

Volatile Memory Description					
Type (SRAM, DRAM, etc)	Printing = P Copying = C Faxing = F Scanning = S	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
DRAM	C, F & S	32MB	N	User interface.	Power Off System
SRAM	C, F & S	128KB	N	Scanner Control	Power Off System
DRAM	P, C, F & S	384MB	N	Copy Controller, EPC Image storage	Power Off System
SRAM	P, C, F & S	32MB	N	Copy Controller. Software control	Power Off System
SDRAM	F	80MB	N	FAX. Software Control & Image Transfer	Power Off System
SDRAM	P And S	256MB	N	Network Controller	Power Off System
DRAM	P,C, F, S	256KB	N	Print Engine. Control software	Power Off System
<p>Additional Information: There are also a numbers of RAM buffers in the video path that are used for image manipulation (Reduce/Enlarge, etc.), and all have no data retention capability. When power is removed all data is lost. These buffers are typically built into the ASICs. Typical bleed down time for all volatile memory is 10 seconds.</p>					

Non-Volatile Memory Description					
Type (Flash, EEPROM, etc)	Printing = P Copying = C Faxing = F Scanning = S	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
Flash	P, C, F & S	16MB	N	User Interface Executable Code	None. No user image data stored
Flash	C, F & S	1MB	N	Scanner Executable Code	None. No user image data stored
Flash	P, C, F & S	16MB	N	OS and Copy Controller executable Code	None. No user image data stored
NVRAM	P, C, F & S	128KB	N	Machine Configuration and setup values	None. No user image data stored
Flash	F	4MB	N	FAX Controller executable Code	None. No user image data stored
Flash NVRAM	F	32MB to 512MB	N	FAX image storage	On Demand Image Overwrite .
Flash	P & S	512KB	N	Network Controller Boot Code	None. No user image data stored
HDD	P & S	80GB	N	Network Controller Application software. Image storage and processing	On Demand Image Overwrite .
Flash	P, C, F & S	2MB	N	Print Engine Executable Code	None. No user image data stored
NVRAM	P, C, F & S	32KB	N	Print Engine Configuration and Calibration Data	None. No user image data stored
<p>Additional Information: There are other non-volatile memory devices in the device but these are used solely for low-level I/O control. Some examples of this distributed control are:</p> <ul style="list-style-type: none"> • Power distribution, Photoreceptor and main drive motors control • Raster Output Scanner (ROS) • Paper Registration • Finisher 					