

# Xerox® Iridesse® Production Press Security Guide

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Changes are periodically made to this document. Changes, technical inaccuracies, and typographic errors will be corrected in subsequent editions.

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# 1. Introduction

## Purpose

This document describes the locations, capacities, and contents of volatile and non-volatile memory devices within the Xerox® Iridesse® Press.

The context of the information in this document is that normal means of access or data extraction are being attempted 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 using 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.

The purpose of this document is to disclose information for the Iridesse Press (hereinafter called as “the product” or “the system”) with respect to product security. Product Security, for this paper, is defined as how image data is stored and transmitted, how the product behaves in a network environment, and how the product may be accessed both locally and remotely. The purpose of this document is to inform Xerox customers of the design, functions, and features of the product with respect to Information Assurance. This document does not provide tutorial level information about security, connectivity, or the product’s features and functions. This information is readily available elsewhere. We assume that the reader has a working knowledge of these types of topics.

## Target Audience

The target audience for this document is Xerox field personnel and customers concerned with IT security.

## Disclaimer

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.

## 2. Statement of Volatility

The product provides the print functions and features and consists of the following subsystems: a controller module, marking engine, user interface, and scanner.

The Xerox® Iridesse® Press 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.

The Xerox® Iridesse® Press consists of up to several sub-modules:

- Print Engine which is divided in 2 modules (Engine left and Engine right)
- User Interface Controller (PCUI)
- Offset Catch Tray (OCT)
- High Capacity Feeder Module (HCF) (option for a second Feeder)
- Inserter Module (INT) (option)
- Optional High Capacity Stacker (HCS) (option for a second Stacker)
- Cooling Decurler Module (CDM) (option)
- Optional Multifunction Type Finishers (option)
- 2-Sided Trimmer and Creaser Module (TCBM) (option)

These modules provide the basic configuration. Depending on what is purchased, the number and types of feeders and finishers can change.

The engine can be connected to one of the following Print Server:

- Xerox® EX-P6 Iridesse® Print Server

The Product Security Guide containing information regarding Print Server Security can be found on the [Fiery Documentation Support Center](#).

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 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.

### 3. User Interface Controller (PCUI) Description

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press.

The User Interface Controller (PCUI) is a PC-type motherboard. It is equipped with a BIOS, main RAM and Video memory. These are equipped with main RAM and Non-Volatile memory, as described below.

The PCUI is communicating to the Controller via an Ethernet cable but do not communicate directly with the external web.

#### VOLATILE MEMORY DESCRIPTION

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
SDRAM (DDR3)	4GB	N	Temporary storage of variables	SRAM is erased when machine is powered off.

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

#### NON-VOLITILE MEMORY DESCRIPTION

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
EEPROM	128KB	N	System BIOS	Not customer alterable - Diagnostics

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

**HARD DRIVE INFORMATION**

Drive / Partition (System, Image):	Removable (Y/N)	Size	User Modifiable (Y/N)	Function	Process to Clear
Hard Disk	No	500GB	Via Diagnostics	OS, Boot code, Application code, Program constant data. Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters). Contains machine specific data (System Admin password, user preferences). May temporarily contain non-image job specific (job name, size, etc)	Content can be initialized to factory default values.

This disk contains the Windows Operating System and stores executables, fonts, and settings files. Job files do not reside on this disk.



## 4. Print Engine Modules Descriptions

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press.

The Print Engine (Left and Right Engine) is powered by several System boards (IOT MAIN (1), MD (7), Halftone (2 or 3) and CORE (4) pwba's).

### VOLATILE MEMORY DESCRIPTION

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
SDRAM	540MB	via Diagnostics	Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters)	Power Off System
SDRAM (CPU-IC On Chip Memory)	64K	N	Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters) [CPU IC]	Power Off System

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

**NON-VOLATILE MEMORY DESCRIPTION**

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
Flash	80MB	via Diagnostics	OS, Boot code, Application code, Program constant data. Contains no user or job specific data.	Content is erased and reloaded when system software is upgraded or reinstalled.
ROM embedded in CPU IC	1.03mB	via Diagnostics	OS, Boot code, Application code, Program constant data. Contains no user or job specific data.	Content is erased and reloaded when system software is upgraded or reinstalled.
Flash	24MB	N	FPGA Configuration	Content cannot be modified in the field.
Battery RAM	8MB	via Diagnostics	Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters)	Content can be initialized to factory default values.

## 5. Print Engine Electrical Box Module Description

The Print Engine is also powered by a System board (IOT SYS pwba) located in the Electrical box on the Right Engine. It is equipped with main RAM and Non-Volatile memory, as described below.

### VOLATILE MEMORY DESCRIPTION

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
SDRAM (IOT SYS pwba)	18MB	N	OS, Executable code, Application code, Machine Specific data for real time control of the print engine. May temporarily contain non-image job specific (job name, size, etc)	Power Off System
SDRAM (IOT SYS pwba)	8MB + 160KB	N	Contains no user or job specific data [CPU IC]	Power Off System

### NON-VOLATILE MEMORY DESCRIPTION

Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
EEPROM	80MB	N	MAC Address Data	Content cannot be modified in the field.
Flash ROM	2MB	N	OS, Boot code, Application code, Program constant data. Contains no user or job specific data	Content is erased and reloaded when system software is upgraded or reinstalled.
Flash (CPU-IC on chip memory)	1MB	via Diagnostics	OS, Executable code, Application code, Contains no user or job specific data. CPU Boot / Firmware Download Control Code	Content is erased and reloaded when system software is upgraded or reinstalled.
Flash	2MB	N	FPGA Configuration	Content cannot be modified in the field.

Battery RAM	2MB	via Diagnostics	Contains no user or job specific data.	Content can be initialized to factory default values.
Flash RAM	16MB	N	OS, Boot code, Application code, Program constant data. Contains no user or job specific data	Content is erased and reloaded when system software is upgraded or reinstalled.

## 6. Feeder Module Descriptions

The text below details the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press supported feeders. This document lists the available options. Depending on the configuration purchased, your system will contain on or more of these devices. NOTE: None of these devices stores any job data in electronic form.

### **TWO TRAY HIGH-CAPACITY FEEDER**

The Feeder device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

## 7. Finisher Module Descriptions

The text below details the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press supported finishers. This document lists the available options. Depending on the configuration purchased, your system will contain one or more of these devices.

NOTE: None of these devices stores any job data in electronic form.

### Xerox® Interface Decurler Module

The Decurler Module device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

### Xerox® High-Capacity Stacker

The High-Capacity Stacker finishing device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

### Xerox® Crease Two-sided Trimmer

The Two-sided Creaser Trimmer device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

### Xerox® Production Ready Booklet Maker Finisher, Xerox® Production Ready Plus Finisher, Xerox® Production Ready Finisher, Xerox® Basic Punch, Xerox® Inserter and Xerox® C/Z Folder

All the above finisher devices never contain job data or Personally Identifiable Information. All memory inside the devices is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

### Xerox® SquareFold® Trimmer

The SquareFold® Trimmer Booklet finisher device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

### GBC® AdvancedPunch™ Pro

The GBC® AdvancedPunch™ Pro device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

# Additional Information and Resources

## Security @ Xerox®

Xerox maintains an evergreen public web page that contains the latest security information pertaining to its products. Please see <https://www.xerox.com/security>

## Responses to Known Vulnerabilities

Xerox has created a document which details the Xerox Vulnerability Management and Disclosure Policy used in discovery and remediation of vulnerabilities in Xerox software and hardware. It can be downloaded from this page: <https://www.xerox.com/information-security/information-security-articles-whitepapers/enus.html>

## Additional Resources

Below are additional resources.

Security Resource	URL
Frequently Asked Security Questions	<a href="https://www.xerox.com/en-us/information-security/frequently-asked-questions">https://www.xerox.com/en-us/information-security/frequently-asked-questions</a>
Common Criteria Certified Products	<a href="https://security.business.xerox.com/en-us/documents/common-criteria/">https://security.business.xerox.com/en-us/documents/common-criteria/</a>
Current Software Release Quick Lookup Table	<a href="https://www.xerox.com/security">https://www.xerox.com/security</a>
Bulletins, Advisories, and Security Updates	<a href="https://www.xerox.com/security">https://www.xerox.com/security</a>
Security News Archive	<a href="https://security.business.xerox.com/en-us/news/">https://security.business.xerox.com/en-us/news/</a>
Trust Center	<a href="https://trust.corp.xerox.com">https://trust.corp.xerox.com</a>