# Security Guide

Xerox<sup>®</sup> Baltoro<sup>™</sup> HF Production Inkjet Press





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# 1. Introduction

# Purpose

The purpose of this document is to disclose information for the Xerox<sup>®</sup> Baltoro<sup>™</sup> HF Production Inkjet 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.

# Overview

This document is provided to assist the Xerox customer with understanding the mechanisms that have been put in place to protect their Personally Identifiable Information (PII) and Protected Health Information (PHI) as well as the customer image information being printed.

# **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.

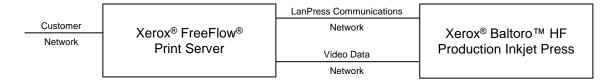
# 2. Product Description

The Xerox<sup>®</sup> Baltoro HF Production Inkjet Press is a print engine used for high volume, inkjet production printing. It contains specialized applications, firmware, software and hardware that run on either Linux based or WindRiver VXWorks operations systems. The applications and firmware software is responsible for all control of the Baltoro HF Production Inkjet Press as well as communicating with the Xerox<sup>®</sup> FreeFlow<sup>®</sup> Print Server.

The Baltoro HF Production Inkjet Press does not connect directly to the customer network. Rather, it is front ended by a Xerox<sup>®</sup> FreeFlow Print Server. The Xerox<sup>®</sup> FreeFlow Print Server isolates the Baltoro HF Production Inkjet Press from the customers' network and by doing so provides security from the customers' network.

There are two separate physical connections between the Baltoro HF Production Inkjet Press and the Xerox<sup>®</sup> FreeFlow Print Server. One connection, referred to as the Video Data Network, is used to transfer video data from Xerox<sup>®</sup> FreeFlow Print Server to the Baltoro HF Production Inkjet Press. The other network, referred to as the LanPress Communications Network, is used to communicate boot up and initialization information, shutdown information, and schedule print job related information between the Baltoro HF Production Inkjet Press and the Xerox<sup>®</sup> FreeFlow Print Server.

# **Physical Partitioning**



## Subsystem Associated Security Functions

The Baltoro HF Production Inkjet Press does not implement any specific security functions such as IP filtering, disk encryption, antivirus protection, firewall, etc. There are two reasons for this. First, the Baltoro HF Production Inkjet Press is front ended and isolated from the customers' network by the Xerox<sup>®</sup> FreeFlow Print Server. Second, no customer PII/PHI or customer image data is ever stored in non-volatile memory within the Baltoro HF Production Inkjet Press. Portions of image data are temporarily stored in video/volatile memory while printing a customer submitted job.

For details on security features and capabilities implemented by the Xerox<sup>®</sup> FreeFlow Print Server refer to the official document titled "Xerox<sup>®</sup> FreeFlow Print Server Information Assurance Disclosure".

## Xerox<sup>®</sup> Baltoro HF Production Inkjet Press Purpose

The purpose of the Baltoro HF Production Inkjet Press is to take images from the Xerox<sup>®</sup> FreeFlow Print Server and transfer them to the print engine for the purpose of marking the hard copy media.

Customers submit documents to the Xerox<sup>®</sup> FreeFlow Print Server. The Print Server then schedules printing of documents by decomposing and rendering them to a Xerox propriety format and transferring raster image pages to the Baltoro HF Production Inkjet Press. When the Press is ready, the Print Server transfers those images in real time to the Press to be printed. The Baltoro

HF Production Inkjet Press only contains several images of the complete job at any one time, which is stored in memory while processing, and never stores the digital image to any permanent media such as disk, flash, or any other non-volatile memory. Once a job is complete, there is no image or personally identifiable job data retained within the Baltoro HF Production Inkjet Press.

#### **Memory Components**

Refer to the Statements of Volatility section of this document.

#### **External Connections**

There are no direct connections between the customer network and the Baltoro HF Production Inkjet Press. As can be seen in the diagram in 2.1, there is a video connection for the transfer of video data from the Xerox<sup>®</sup> FreeFlow Print Server to the Baltoro HF Production Inkjet Press and a communications network to communicate job information and status information from the Xerox<sup>®</sup> FreeFlow Print Server to the Baltoro HF Production Inkjet Press. The customers' image data, that is to be printed, is sent over the video communications network. There is no interconnection between the video network and the communications network. They are completely separate isolated networks.

#### Peripheral Devices (DVD Drive and USB Ports)

Refer to the Statements of Volatility section of this document.

# Print Station Interface Platform

#### **Print Station Platform Purpose**

The Baltoro HF Production Inkjet Press Print Station Interface Platform User Interface, referred to as the PSIP UI, is a Java application that runs under Cent OS. It is only accessible locally to the press. The main purpose of PSIP UI is to manage setup (e.g., Stock definitions) and control of the Baltoro HF Production Inkjet Press.

#### **Password Security**

Default passwords are set for each of the user logins after installing the Baltoro HF Production Inkjet Press software. It is recommended that the customer define unique user accounts and passwords to ensure audit traceability.

#### **Subsystem Associated Security Functions**

The Baltoro HF Production Inkjet Press stores all user login/logout activity as well as information associated with changes made to options or parameters while the user was logged in.

# Baltoro HF Production Inkjet Press Communication Interfaces

This section describes, at a high level, the communications interfaces between the Baltoro HF Production Inkjet Press and the Xerox<sup>®</sup> FreeFlow Print Server.

There are two separate communications interfaces between the Xerox<sup>®</sup> FreeFlow Print Server and the Baltoro HF Production Inkjet Press. The Xerox<sup>®</sup> FreeFlow Print Server uses a "private" network interface to send video data to the Baltoro HF Production Inkjet Press, referred to as the Video Data Network. The Xerox<sup>®</sup> FreeFlow Print Server uses the other interface to communicate job setup and sequencing information to the Baltoro HF Production Inkjet Press, referred to as the LAN Press Network.

## LAN Press Network Purpose

The Xerox<sup>®</sup> FreeFlow Print Server communicates to the Baltoro HF Production Inkjet Press over a private network, referred to as the LAN Press Network. The LAN Press Network interface is isolated by the Xerox<sup>®</sup> FreeFlow Print Server platform front-end network interface connected to the "public" customer network. A proxy can be setup on the Xerox<sup>®</sup> FreeFlow Print Server to provide the Baltoro HF Production Inkjet Press access to a Xerox server on the internet to use Remote Services to upload CFA data (print engine debug information) and for Automatic Meter Read (AMR) services.

The main purpose of the LAN Press Network interface is for secure communications between Xerox<sup>®</sup> FreeFlow Print Server and the Baltoro HF Production Inkjet Press print engine to coordinate and schedule job pages to be printed on physical pages by the press.

## Video Data Network Purpose

The Xerox<sup>®</sup> FreeFlow Print Server renders and rasterizes job pages, in Xerox proprietary format, and sends them over the Video Data Network to the Baltoro HF Production Inkjet Press. The raster images are not readable by industry standard image applications.

The Video Data Network is isolated from the Xerox<sup>®</sup> FreeFlow Printer Server platform front-end network.

# Software Structure and Technologies

This section defines the network technologies available on the Baltoro HF Production Inkjet Printer platform.

#### **Open Source Components**

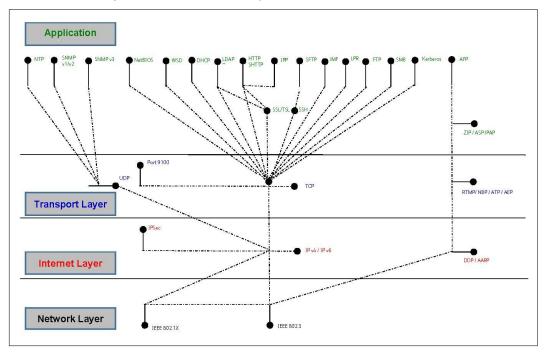
Open-source components in the connectivity layer implement high-level protocol services. The security-relevant connectivity layer components for the Baltoro HF Production Inkjet Press are:

- 1. Apache HTTP 2.4.25
- 2. OpenSSH 7.3p1
- 3. OpenSSL 1.0.2k
- 4. NetSNMP 5.7.3 (SNMPv3)
- 5. Apache Tomcat 6.0.45
- 6. NTP 4.2.8p10

These Open-source components are updated in Baltoro HF Production Inkjet Press software releases when necessary (e.g., maintain updated technology, Security improvements, etc.), and the version number is updated.

#### **Network Protocols**

Refer to the diagram below that illustrates the IPv4/IPv6 protocol stacks supported by the Baltoro HF Production Inkjet Press and annotated per the DARPA model.



# 3. General Security Features / Capabilities

# **Password Security**

The "built-in" Print Station Interface Platform (PSIP) defines several well-known passwords after the initial install or scape install of the Baltoro HF Production Inkjet Press software. The user has the capability, and should, change the built–in default passwords for the System Administrator and Operator. The user also has the capability to change the default password for the Principal Service Provider used by the service provider, the Xerox Internal Engineering password, which is used internally within Xerox, and the Independent Service Operator, which is used by independent service providers.

Please refer the Baltoro HF Production Inkjet Press User Manual for details describing methods to access the press, login capabilities, and how to change the password.

# Firewall & Protocol Filtering

The Baltoro HF Production Inkjet Press does not specifically implement any firewall or protocol filtering. The Baltoro HF Production Inkjet Press is front ended by the Xerox<sup>®</sup> FreeFlow Print Server which provides these capabilities.

For details on security features and capabilities implemented by the Xerox<sup>®</sup> FreeFlow Print Server refer to the official document titled "Xerox<sup>®</sup> FreeFlow Print Server V2 - Information Assurance Disclosure" document.

# Anti-Virus Software Protection

The Baltoro HF Production Inkjet Press does not specifically implement any Anti-Virus protection. The Baltoro HF Production Inkjet Press is front ended by the Xerox<sup>®</sup> FreeFlow Print Server which provides this capability.

For security features and capability details implemented by the Xerox<sup>®</sup> FreeFlow Print Server refer to the official document titled "Xerox<sup>®</sup> FreeFlow Print Server V2 - Information Assurance Disclosure".

# Logging

The Baltoro HF Production Inkjet Press does internal data logging to the hard disk located in the Print Station Interface Platform. The logging contains information relating to the internal functionality of the press and is used for diagnostic and problem investigation of the print engine. The logs do not contain any customer PII/PHI or customer image data.

# Logging

The Baltoro HF Production Inkjet Press does internal data logging to the hard disk located in the Print Station Interface Platform. The logging contains information relating to the internal functionality of the press and is used for diagnostic and problem investigation of the print engine. The logs do not contain any customer PII/PHI or customer image data.

# Hard Drive Security

A very important security consideration is the protection of any and all customer data that may be written on to hard disks or other non-volatile memory within the system. This is extremely important when printing PII/PHI data on Xerox printer devices. The Baltoro HF Production Inkjet Press does not, at any time, store any customer image data, job name or any other PII/PHI data.

## Hard Drive Access Restriction

The hard drives in the Baltoro HF Production Press are not accessible from the customers' network. They are only accessible by software within the Baltoro HF Production Inkjet Press. The Xerox<sup>®</sup> FreeFlow Print Server acts as a buffer between the customer network and the Baltoro HF Production Inkjet Press so that data on the press is protected, and not accessible to any host or user from the customer network.

## Data Overwrite

The Baltoro HF Production Press does not support data overwrite as no customer image or PII/PHI data is ever stored on the hard drive or any other non-volatile memory within the system.

# Hard Disk Purge

The main purpose of the hard disk purge is to sanitize the hard drive(s) per the U.S. DoD 5220.22-M standard so that user and print data is not recoverable. A customer requires this when hard drive(s) need to be replaced or when they are turning in the printer and want the user/print data sanitized from the hard drive(s). Alternatively, the user can use the 3.5.5 "Hard Disk Removal and Purchase" process and take personal responsibility to destroy the hard drive(s).

A U.S. DoD 5220.22-M compliant hard disk purge is not implemented on the Baltoro HF Production Inkjet Press. In the event of hard disk failure, corruption of the hard disk or any other incident, the hard disk may be formatted or replaced, and the software reloaded from the Baltoro HF Production Inkjet Press software release DVDs.

## **Removable Drive Kit**

This is a unique feature for the Xerox<sup>®</sup> FreeFlow Print Server. XSIS delivers a removable hard drive kit that has a lock and key for the customer to easily remove and install the hard drive as required.

Xerox offers an optional removable hard disk kit to facilitate securing or locking the hard disk in the PSIP. This kit provides a quick and easy removal of the Baltoro PSIP hard drive. As an example, the U.S. Government commonly requires the customer to remove the hard drives after printing classified information and when the machine is not in use.

#### Hard Disk Removal and Purchase

Whenever a customer needs to dispose of or destroy the hard drive(s), Xerox Service provides an optional service to remove any hard drive contained within the system and deliver this to the customer. The customer is responsible for protection or destruction of any data on the hard disk(s).

# **PII/PHI Security Compliance Standards**

The customer is responsible to ensure that any device (such as Xerox<sup>®</sup> FreeFlow Print Server or Baltoro HF Production Inkjet Press) they introduce onto their network environment is compliant with the security guidelines and best-practice recommendations to protect the data they submit to the printer and that is processed / stored on that device.

The Baltoro HF Production Inkjet Press does not store any customer PII/PHI or customer image data.

For more information on PII/PHI Security Compliancy Standards for the Xerox<sup>®</sup> FreeFlow Print Server see the document titled "Xerox<sup>®</sup> FreeFlow Print Server V2 - Information Assurance Disclosure" document.

## Federal Information Processing Standard (FIPS)

The Xerox<sup>®</sup> FreeFlow Print Server is FIPS 140-2 compliant. The Baltoro HF Production Inkjet Press is isolated from the customer network by the Xerox<sup>®</sup> FreeFlow Print Server. Additionally, the Baltoro HF Production Inkjet Press does not store any customer PII/PHI or customer image data. As a result, there is no need for the Baltoro HF Production Inkjet Press to be FIPS 140-2 compliant.

For more information on the Xerox<sup>®</sup> FreeFlow Print Server FIPS information please refer to the official document titled "Xerox<sup>®</sup> FreeFlow Print Server Information Assurance Disclosure".

# 4. Statements of Volatility

The main function of the Statement of Volatility is to describe the volatile and non-volatile nature of the memory on the device, and more specifically the locations, capacities and contents of volatile and non-volatile memory devices. A customer that installs a device in their facility environment and/or on their network requires knowledge of whether memory can store data when the device is powered off (non-volatile) or not (volatile).

It is common policy for customers that print highly sensitive data such as Personally Identifiable Information (PII), Personal Health Information (PHI), and Government Top Secret Classified Information, to require a SoV for the printer device installed at their facility and on their network. The SoV provides these customers with the information they need to make Security decisions about how they want to handle a printer device. The devices for a Xerox printer include the print engine (Ex. Baltoro HF Production Inkjet Press), Xerox<sup>®</sup> FreeFlow Print Server, and other devices interfaces such as a Print Station Interface Platform (PSIP) for the print engine, and workflow device such as Xerox<sup>®</sup> FreeFlow Core, etc.

This section describes the locations, capacities and contents of volatile and non-volatile memory devices within the Baltoro Press.

The context of the information in this section 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 using extraordinary resources and measures or specialty equipment not normally available in the industry or to the public.

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# SoV Introduction

The Xerox® Baltoro HF Production Inkjet Press is used to perform the following tasks:

High Speed Production Color Printing

A Xerox<sup>®</sup> Baltoro HF Production Inkjet Press consists of:

- Print Engine
- Print Station Interface Platform
- Feeder Modules
- Finishing Modules

These modules provide the basic configuration. Depending on what is purchased, the number and types of feeder modules and finisher modules 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 and may cause the press to not function properly.

## **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 and may cause the press to not function properly.

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

# Print Station Interface Platform (PSIP) Description and Signature Block

This evaluation and summary was completed on 6/14/19 by Dale Platteter – Technical Program Manager and Controls Architect, Control System Architect.

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Baltoro HF Production Inkjet Press.

The Print Station Interface Platform (PSIP) is a PC-type motherboard. It is equipped with a BIOS, main RAM and Video memory. The PSIP also contains an image capture card which is used to capture diagnostic images for image quality adjustment. The PSIP does not save any customer image data but does have the capability to save diagnostic image data to the PSIP hard disk for diagnostic purposes.

## **Volatile Memory Description**

Type (SRAM, Size DRAM, etc.)		User Modifiable (Y/N)	Function or Use	Process to Clear	
SDRAM	16GB	Ν	Executable code	Power Off System	
SDRAM	Shared	Ν	Video Memory	Power Off System	

# **Non-Volatile Memory Description**

Type (Flash, EEPROM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear	
Flash Memory	32MB	N	System BIOS	Diagnostic	

# Hard Drive Information

The data table below details the hard disk information for the Baltoro HF Production Inkjet Press Print Station Interface Platform.

## **Hard Disk Description**

Drive / Partition (System, Image)	Removable (Y / N)	Size	User Modifiable (Y / N)	Function	Process to Clear
System	No*	1TB	N with normal operation	Operating System, Fonts, configuration, file storage	Diagnostic Procedure

\* Can be removed when Removable Drive Option is purchased.

Additional Information: This disk contains the Operating System and stores executables, fonts, and settings files. During normal operation, job files do not remain stored on this disk.

# Print Engine (Marking Module) Descriptions and Signature Block

This evaluation and summary was completed on 6/14/19 by Dale Platteter – Technical Program Manager and Controls Architect, Control System Architect.

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Baltoro HF Production Inkjet Press print engine.

The Print Engine is powered by a custom motherboard (MIOP-QT), with multiple additional custom boards (MCON-QT(3), YREG, CIP-QT(2-3), BIP-QT(4-6)). Each can be equipped with a BIOS, main RAM and Non-Volatile memory, as described below. The remaining modules in the engine are run with integrated microcontrollers.

Type (SRAM, DRAM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
SDRAM	4GB	N	Executable code, Printer control data [MIOP-QT]	Power Off System
SDRAM	4GB	N	Executable code, Printer control data [MCON-QT]	Power Off System
SDRAM	4GB	Ν	Executable code, Printer control data [YREG-QT]	Power Off System
SDRAM	8GB	Ν	Executable code, Printer control data [CIP-QT]	Power Off System
SDRAM	8GB	Ν	Executable code, Printer control data [BIP-QT]	Power Off System

## **Volatile Memory Description**

Additional Information: Memory above is used for code for execution and configuration information. No PII or user job data is stored in these locations.

# Non-Volatile Memory Description

Type (Flash, EEPROM, etc.)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear
SRAM	1MB	via Diagnostics	Configuration Data [MIOP-QT]	Pull Battery
Flash	32MB	via Diagnostics	Firmware [MIOP-QT]	Diagnostic
SRAM	1MB	via Diagnostics	Configuration Data [MCON- QT]	Diagnostic
Flash	32MB	via Diagnostics	Firmware [MCON-QT]	Diagnostics
SRAM	1MB	via Diagnostics	Configuration Data [YREG- QT]	Diagnostics
Flash	32MB	via Diagnostics	Firmware [YREG-QT]	Diagnostics
SRAM 1MB		via Diagnostics	Configuration Data [CIP-QT]	Diagnostics
Flash	32MB	via Diagnostics	Firmware [CIP- QT]	Diagnostics
SRAM	1MB	Via Diagnostics	Configuration Data [BIP-QT]	Diagnostics
Flash	32MB	via Diagnostics	Firmware [BIP- QT]	Diagnostics

Additional Information: Memory above is used for code for execution and configuration information. No PII or user job data is stored in these locations.

# Feeder Module Description and Signature Block

This evaluation and summary was completed on 6/14/19 by Dale Platteter – Technical Program Manager and Controls Architect, Control System Architect.

The text below details the information regarding the volatile and non-volatile memory contained in the Baltoro HF Production Inkjet 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 store any job data or Personally Identifiable Information in electronic form.

#### Xerox Two Tray High Capacity Digital Press Feeder (with Top Tray)

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.

#### Xerox Two Tray High Capacity Digital Press Feeder (without Top Tray)

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.

#### **Tecnau Sheet Feeder BV (Third Party)**

The Tecnau Sheet Feeder BV 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.

# Finisher Module Description and Signature Block

This evaluation and summary was completed on 6/14/19 by Dale Platteter – Technical Program Manager and Controls Architect, Control System Architect.

The text below details the information regarding the volatile and non-volatile memory contained in the Baltoro HF Production Inkjet 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 store any job data or Personally Identifiable Information in electronic form.

#### **Xerox Production Stacker**

The high capacity Xerox Production 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 Finishing Interface Kit**

The Xerox Finishing Interface Kit is required to connect in-line third party finishing devices. This kit is the Document Finishing Architecture (DFA) interface. The interface device never contains 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.

#### CP Bourg 3202 Perfect Binder (Third Party)

The Bourg 3202 Perfect Binder 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 Fusion Punch II (Third Party)**

The Fusion II Punch GBC 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.

#### Watkiss Power Square 224 Booklet Maker (Third Party)

The Watkiss Power Square 224 Booklet Maker 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.

# CP Bourg Feeder and Bookletmakers Models BSFEx, BDFEx, BDFNx, and BMEx (Third-Party)

The CP Bourg Feeder and Booklet Makers never contain any 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.

#### Multigraf Stacker (Third-Party)

The Multigraf 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<sup>®</sup> Tape Binder (Third-Party)

The Xerox<sup>®</sup> Tape Binder 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.

## Tecnau TC 1530 CX Daynamic Perforator w/Tecnau TC 1537 Punch Option (Third-Party)

The Tecnau Dynamic Perforator TC 1530 CX w/Punch Option 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.

# Media/Storage and Signature Block

This evaluation and summary was completed on 6/14/19 by Dale Platteter – Technical Program Manager and Controls Architect, Control System Architect.

## **Media Storage**

Type (disk drives, tape drives, CF/SD/XD memory cards, etc.):	Removable (Y / N)	Size	User Modifiable (Y / N)	Function	Process to Clear
None	None	None	None	None	None

# **RFID Device Descriptions and Signature Block**

This evaluation and summary was completed on 6/14/19 by Dale Platteter – Technical Program Manager and Controls Architect, Control System Architect.

## **RFID Devices**

RFID Tag Location	Purpose
None	None

# 5. 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 <a href="https://www.xerox.com/security">https://www.xerox.com/security</a>.

# 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	https://www.xerox.com/en-us/information- security/frequently-asked-questions
Common Criteria Certified Products	https://security.business.xerox.com/en- us/documents/common-criteria/
Current Software Release Quick Lookup Table	https://www.xerox.com/security
Bulletins, Advisories, and Security Updates	https://www.xerox.com/security
Security News Archive	https://security.business.xerox.com/en-us/news/