## Xerox<sup>®</sup> Security Guide



# Office Class Multi-Function Products & Single-Function Printers

AltaLink <sup>®</sup> Multi-	VersaLink <sup>®</sup> Multi-	VersaLink◎
Function Products	Function Products	Printers
B8045, B8055, B8065, B8075, B8090	B405, B605, B615, B7025, B7030, B7035	B400, B600, B610
C8030, C8035, C8045,	C405, C505, C605,	C400, C500, C600,
C8055, C8070	C7020, C7025, C7030	C7000, C8000, C9000

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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

The purpose of this document is to disclose information for the Xerox <sup>®</sup> Office Class printers and multifunction products (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.

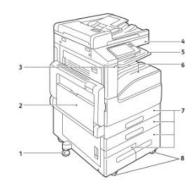
## Disclaimer

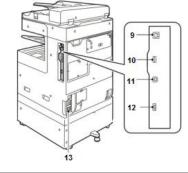
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## 2 Product Description

## **Physical Components**

AltaLink® and VersaLink® products consist of an input document handler and scanner, marking engine, controller, and user interface. A typical configuration is depicted below. Please note that options including finishers, paper trays, document handers, etc. may vary configuration, however, they are not relevant to security and are not discussed.



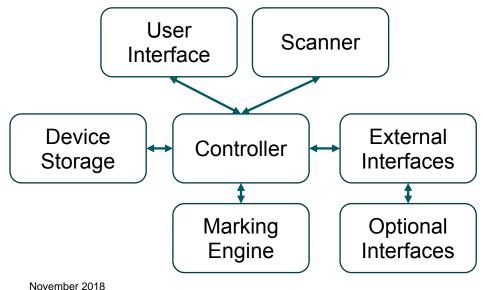


- 1. Stabilizer.
- 2. Bypass paper feed tray.
- 3. Front USB Port(s)\*
- 4. Touch screen user interface.
- 5. Upper paper tray.
- 6. Lower paper tray.
- 7. Paper feed trays.

- 8. Caster wheels.
- 9. Rear USB Port(s)\*
- 10. Optional Wi-Fi dongle port\*
- 11. RJ45 Ethernet connection\*
- 12. Service port (May require disassembly to access).
- 13. AC Power.
- \*Denotes a security related component

## Architecture

AltaLink® and VersaLink® products share a common architecture which is depicted below. The following sections describe components in detail.



## **User Interface**

The user interface detects soft and hard button actuations and provides text and graphical prompts to the user. The user interface is sometimes referred to as the Graphical User Interface (GUI) or Local UI (LUI) to distinguish it from the remote web server interface (WebUI).

The user interface allows users to access product services and functions. Users with administrative privileges can manage the product configuration settings. User permissions are configurable through Role Based Access Control (RBAC) policies, described in section 7 Identification, Authentication, and Authorization

#### Scanner

The scanner converts documents from hardcopy to electronic data. A document handler moves originals into a position to be scanned. The scanner provides enough image processing for signal conditioning and formatting. The scanner does not store scanned images.

## Marking Engine

The Marking Engine performs copy/print paper feeding and transport, image marking, fusing, and document finishing. The marking engine is comprised of paper supply trays and feeders, paper transport, LED scanner, xerographics, and paper output and finishing. The marking engine is only accessible to the Controller via inter-chip communication with no other access and does not store user data.

## Controller

The controller manages document processing using proprietary hardware and algorithms to process documents into high-quality electronic and/or printed reproductions. Documents may be temporarily buffered in RAM during processing. Some models may be equipped with additional storage options such as magnetic Hard Disk Drive (HDD), Solid State Disk (SSD), SD Card, or Flash media. For model specific details please see Appendix A: Product Security Profiles. AltaLink® and VersaLink® products encrypt user data and include media sanitization (overwrite) options that ensure that erased data cannot be recovered, described further in section 3 User Data Protection.

In addition to managing document processing the controller manages all network functions and services. Details can be found in section Network Security.

The controller handles all I/O communications with connected products. The following section provides a description of each interface. Please note that not all interfaces are supported on all models; details about each model can be found in Appendix A: Product Security Profiles.

#### **Controller External Interfaces**

#### Front Panel USB (Type A) port(s)

One or more USB ports may be located on the front of the product, near the user interface. Front USB ports may be enabled or disabled by a system administrator. The front USB port supports the following:

 Walk-up users may insert a USB thumb drive to store or retrieve documents for scanning and/or printing from a FAT formatted USB device. The controller will only allow reading/writing of a limited set of known document types (such as DOC, PDF, PNG, JPEG, TIFF, etc.). Other file types including binary executables are not supported.

Note that features that use the front USB ports (such as Scan To USB) can be disabled independently or restricted using role-based access controls.

- Connection of optional equipment such as NFC or CAC readers.
- Firmware updates may be submitted through the front USB ports. (Note that the product must be configured to allow local firmware updates, or the update will not be processed.

#### 10/100/1000 MB Ethernet RJ-45 Network Connector

This is a standard RJ45 Ethernet network connector and confirms to IEEE Ethernet 802.3 standards.

#### Rear USB (Type B) Target port

A USB type B port located on the controller board at the rear of the product. This port supports the following:

• USB target connector used for printing

Note: This port can be disabled completely by a system administrator.

## **Optional Equipment**

#### **RJ-11 Analog Fax and Telephone**

The analog fax module connects to the controller. The fax connection supports the Fax Modem T.30 protocol only and will not accept data or voice communication attempts. An external (EXT) is available to connect an external handset. In this configuration, the FAX card acts as a passive relay.

#### Wireless Network Connector

VersaLink® products accept an optional wireless module via a proprietary port.

AltaLink® products accept an optional wireless kit that can be installed in the rear USB port.

#### Near Field Communications (NFC) Reader

The system supports an installable RFID reader for authentication and convenience in certain configurations. VersaLink® products accept the RFID reader via USB on the front of the product. AltaLink® products come standard with an RFID reader built into the front panel. This communication cannot write or change any settings on the system. The data exchanged is not encrypted and may include information including system network status, IP address and product location. NFC functionality can be disabled using the embedded web server of the product. NFC functionality requires a software plugin that can be obtained from Xerox sales and support. NFC functionality is supported via optional touch screen user interface or optional dedicated NFC USB dongle.

Information shared over NFC includes: IPv4 Address, IPv6 Address, MAC Address, UUID (a unique identifier on the NFC client), and Fully qualified domain name

#### SMART CARD – CAC/PIV

All VersaLink® products support CAC/PIV login by enabling the VersaLink® Plug-in feature and then enabling the appropriate plug-in. Additional plug-ins can be downloaded from Xerox.com in the product Support area online.

All VersaLink® products support SIPR network access through a plug-in. The SIPR network plug-in is restricted only to users who have purchased the SIPR kit from Xerox. Contact your Xerox sales representative for details.

#### Foreign Product Interface

This port is used to connect optional equipment to control access to the machine. A typical application is a coin-operated product where a user must deposit money to enable the machine to print. The information available via the Foreign Product Interface is limited to optically-isolated pulses that can be used to count impressions marked on hardcopy sheets. No user data is transmitted to or from this interface.

## 3 User Data Protection

Xerox printers and multifunction products receive, process, and may optionally store user data from several sources including as local print, scan, fax, or copy jobs or mobile and cloud applications, etc. Xerox products protect user data being processed by employing strong encryption. When the data is no longer needed, the Image Overwrite (IIO) feature automatically erases and overwrites the data on magnetic media, rendering it unrecoverable. As an additional layer of protection, an extension of IIO called On-Demand Image Overwrite (ODIO) can be invoked to securely wipe all user data from magnetic media.

### User Data protection while within product

This section describes security controls that protect user data while it is resident within the product. For a description of security controls that protect data in transit please refer to the following section that discusses data in transit; also the Network Security section of this document.

#### **Encryption**

All user data being processed or stored to the product is encrypted by default. Note that encryption may be disabled to enhance performance on AltaLink® products (though this is not recommended in secure environments). Xerox VersLink products do not have such an option.

The algorithm used in the product is AES-256. The encryption key is automatically created at start up and stored in the RAM. The key is deleted by a power-off, due to the physical characteristics of the RAM.

#### **TPM Chip**

Some models include a Trusted Platform Module (TPM). The TPM is compliant with ISO/IEC 11889, the international standard for a secure cryptoprocessor, dedicated to secure cryptographic keys. The TPM is used to securely hold the product storage encryption key. Please refer to Appendix A: Product Security Profiles for model specific information.

#### Media Sanitization (Image Overwrite)

AltaLink® and VersaLink® products equipped with magnetic hard disk drives are compliant with NIST Special Publication 800-88 Rev1: Guidelines for Media Sanitization. User data is securely erased using a three-pass algorithm as described in the following link:

https://nvlpubs.nist.gov/nistpubs/specialpublications/nist.sp.800-88r1.pdf

Note: Solid State storage media such as Solid-State Disk, eMMC, SD-Card, and Flash media cannot be completely sanitized by multi-pass overwriting methods due to the memory wear mapping that occurs. (Additionally, attempts to do so would also greatly erode the operational lifetime of solid state media). Solid State media is therefore not recommended for use in highly secure environments. Please refer to NIST-800-88 "Table A-8: Flash Memory-Based Storage Product Sanitization" for technical details.

#### Immediate Image Overwrite

When enabled, Immediate Image Overwrite (IIO) will overwrites any temporary files that were created on the magnetic hard disk that may contain user data. The feature provides continuous automatic overwriting of sensitive data with minimal impact to performance, robust error reporting, and logging via the Audit Log.

#### **On-Demand Image Overwrite**

Complementing the Immediate Image Overwrite is On-Demand Overwrite (ODIO). While IIO overwrites individual files, ODIO overwrites entire partitions. The ODIO feature can be invoked at any time and optionally may be scheduled to run automatically.

## User Data in transit

This section focuses on the protection of user data (print/scan/other jobs) in transit as they are submitted to the product for processing and/or are sent from the product to other systems. Additional protections are also discussed in the Network Security section of this document.

#### Inbound User Data

#### **Print Job Submission**

In addition to supporting network level encryption including IPSec and WPA Xerox products also support encryption of print job data at the time of submission. This can be used to securely transmit print jobs over unencrypted connections or to enhance existing network level security controls.

Encrypted Transport	Description
IPPS (TLS)	Submit print jobs via Secure Internet Printing Protocol. This protocol is based on HTTP and utilizes the TLS suite to encrypt data.
HTTPS (TLS) Securely submit a print job directly to product via the built-in web serv	
Xerox Print StreamThe Xerox Global Print Driver® supports document encryption when submitting Secure Print jobs to enabled products. Simply check the Enable Encryption when adding the Passcode to the print job.	

#### Outbound User Data

#### Scanning to Network Repository, Email, Fax Server

AltaLink® and VersaLink® multifunction products support scanning of hardcopy documents to external network locations including file repositories and email and facsimile services. In addition to supporting network level encryption including IPSec and WPA Xerox products support the following.

Protocol	Encryption	Description
HTTP	N/A	Unencrypted HTTP protocol.
HTTPS (TLS)	TLS	HTTP encrypted by TLS
FTP	N/A	Unencrypted FTP.
SFTP (SSH)	SSH	FTP encrypted by SSH
SMBv3	Optional	Encryption may be enabled on a Windows share. AltaLink® products currently support SMB encryption. VersaLink® products do not currently support SMB encryption.
SMBv2	N/A	Unencrypted SMB
SMBv1	N/A	(Not used as a transport protocol. Used for network discovery only)
SMTP (email)	S/MIME	The product uses SMTP to transmit data to the email server. Email authentication, encryption, and signing are supported. Please refer to the Network Security section of this document for details.

#### Scanning to User Local USB Storage Product

Scan data is transferred directly to the user's USB product. Filesystem encryption of user products are not supported.

#### Add on Apps- Cloud, Google, DropBox, and others

The Xerox App Gallery® contains several additional applications that extend the capabilities of Xerox products. Discussion of App security is beyond the scope of this document. Xerox Apps utilize the security framework provided by the 3<sup>rd</sup> party vendor. (For example, Microsoft O365 or Google apps would utilize Microsoft & Google's security mechanisms respectively). Please consult documentation for individual Apps and 3<sup>rd</sup> party security for details.

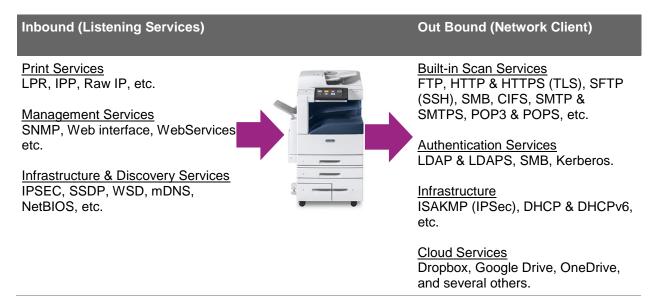
	AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
	B8045, B8055, B8065, B8075, B8090, C8030, C8035, C8045, C8055, C8070	B405, B605, B615, B7025, B7030, B7035, C405, C505, C605, C7020, C7025, C7030	B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Local Data Encryption (HDD, SDD, IC, SD Card)	AES-256	AES-256	AES-256
Federal Information Protection Standard 140-2	Yes	Yes	Yes
Media Sanitization NIST 800-171 (Image Overwrite)	All models use magnetic HDD	Models with magnetic HDD. See Appendix A: Product Security Profiles	Models with magnetic HDD. See Appendix A: Product Security Profiles
Print Submission			
IPPS (TLS)	Supported	Supported	Supported
HTTPS (TLS)	Supported	Supported	Supported
Xerox Print Stream Encryption	Supported	(Not currently supported)	(Not currently supported)
Scan to Repository Server		·	
HTTPS (TLS)	1.2	(Not currently supported)	(Not Applicable)
SFTP (SSH)	SSH-2	(Not currently supported)	(Not Applicable)
SMB (unencrypted)	v1, v2, v3	v3	(Not Applicable)
SMB (with share encryption enabled)	V3	(Not currently supported)	(Not Applicable)
HTTP (unencrypted)	Supported	(Not currently supported)	(Not Applicable)
FTP (unencrypted)	Supported	(Not currently supported)	(Not Applicable)
Scan to Fax Server			
HTTPS (TLS)	1.2	(Not currently supported)	(Not Applicable)
SFTP (SSH)	SSH-2	(Not currently supported)	(Not Applicable)
SMB (unencrypted)	v1, v2, v3	v3	(Not Applicable)
SMB (with share encryption enabled)	V3	(Not currently supported)	(Not Applicable)
S/MIME	Supported	Supported	(Not Applicable)
HTTP (unencrypted)	Supported	(Not currently supported)	(Not Applicable)
FTP (unencrypted)	Supported	(Not currently supported)	(Not Applicable)
SMTP (unencrypted)	Supported	Supported	(Not Applicable)
Scan to Email			
S/MIME	Supported	Supported	(Not Applicable)
SMTP (unencrypted)	Supported	Supported	(Not Applicable)

## 4 Network Security

Xerox products are designed to offer a high degree of security and flexibility in almost any network environment. This section describes several aspects of the product related to network security.

## **TCP/IP Ports & Services**

Xerox devices are robust, offering support for a wide array of services and protocols. The devices are capable of hosting services as well as acting as a client for others. The diagram below presents a high-level overview of inbound communications (from other hosts on the network into listening services on the device) and outbound connections initiated by the device (acting as a client to external network services).



#### Listening services (inbound ports)

The following table summarizes all potentially open ports on the product. These ports can be enabled/disabled within the product configuration.

Port	Туре	Service Name
80 or 443	TCP	HTTP including:
		Web User Interface
		UPnP Discovery
		Web Services for Products (WSD)
		WebDAV
631 or 443	TCP	HTTP (IPP)
137	UDP	NETBIOS (Name Service)
138	UDP	NETBIOS (Datagram Service)
161	UDP	SNMP
427	TCP/UDP	SLP

445	TCP	CIFS
500 & 4500	UDP	IPSec
515	TCP	LPR
631	TCP	IPP
1900	UDP	SSDP
3702	TCP	WSD (Discovery)
5353	UDP	mDNS
9100	TCP	Raw IP (also known as JetDirect, AppSocket or PDL-datastream)
5909-5999	TCP	Remote Access to local display panel. Port is randomly selected and communications encrypted with TLS 1.2.
53202	TCP	WSD Transfer
53303	TCP	WSD Print
53404	TCP	WSD Scan

## **Network Encryption**

#### **IPSec**

Internet Protocol Security (IPsec) is a network security protocol capable of providing encryption and authentication at the packet level. AltaLink® and VersaLink® products support IPSec for both IPv4 and IPv6 protocols.

		AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
		B8045, B8055, B8065, B8075, B8090, C8030, C8035, C8045, C8055, C8070	B405, B605, B615, B7025, B7030, B7035, C405, C505, C605, C7020, C7025, C7030	B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
IPSec				
	Supported IP Versions	IPv4, IPv6	IPv4, IPv6	IPv4, IPv6
	Key exchange authentication method	Preshared Key & digital signature, device authentication certificate, server validation certificate	Preshared Key & digital signature	Preshared Key & digital signature
	Transport Mode	Transport & Tunnel mode	Transport mode only	Transport mode only
	Security Protocol	ESP & AH	ESP only	ESP only
	ESP Encryption Method	AES, 3DES, Null	AES, 3DES, DES	AES, 3DES, DES
	ESP Authentication Methods	SHA1, SHA256, None	SHA1, SHA256, None	SHA1, SHA256, None

#### Wireless 802.11 Wi-Fi Protected Access (WPA)

Products equipped with WiFi support WPA2 Personal, WPA2 Enterprise, and Mixed Mode compliant with IEEE 802.11i. The wireless network adapters used in Xerox products are certified by the Wi-Fi Alliance.

	AltaLink® Multifunction	n VersaLink® Multifunction	VersaLink® Printers
	B8045, B8055, B8065, B8075, B8090, C8030, C8035, C8045, C8055, C8070	B405, B605, B615, B7025, B7030, B7035, C405, C505, C605, C7020, C7025, C7030	B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Wi-Fi (802.11)			
No Encryption	Supported	Supported	Supported
WEP	RC4	RC4	RC4
WPA2 Personal (PSK)	CCMP (AES), TKIP, TKIP+CCMP (AES)	CCMP (AES)	CCMP (AES)
WPA2 Enterprise	CCMP (AES), TKIP, TKIP+CCMP (AES)	CCMP (AES) + TKIP 	CCMP (AES) + TKIP 
		PEAPv0 MS-CHAPv2	PEAPv0 MS-CHAPv2
	PEAPv0 MS-CHAPv2	EAP-TLS	EAP-TLS
	EAP-TLS	EAP-TTLS/PAP	EAP-TTLS/PAP
	EAP-TTLS/PAP	EAP-TTLS/CHAP	EAP-TTLS/CHAP
		EAP-TTLS/MS-CHAPv2	EAP-TTLS/MS-CHAPv2
	EAP-TTLS/MS-CHAPv2		
	EAP-TTLS/EAP-TLS		
BSSID Roaming Restriction	Supported	(Not Currently Supported)	(Not Currently Supported)

## <u>TLS</u>

AltaLink® and VersaLink® products support the latest version, TLS 1.2.

		AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
		B8045, B8055, B8065, B8075, B8090, C8030, C8035, C8045, C8055, C8070		B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
TLS Vers	ions Supported		·	
	Product Web Interface	1.2, 1.1, 1.0	1.2, 1.1, 1.0	1.2, 1.1, 1.0
	Product Web Services	1.2, 1.1, 1.0	1.2, 1.1, 1.0	1.2, 1.1, 1.0
	Product IPPS printing	1.2, 1.1, 1.0	1.2, 1.1, 1.0	1.2, 1.1, 1.0
	Remote control	1.2	1.2	1.2

#### Public Key Encryption (PKI)

A digital certificate is a file that contains data used to verify the identity of the client or server in a network transaction. A certificate also contains a public key used to create and verify digital signatures. To prove identity to another product, a product presents a certificate trusted by the other product. The product can also present a certificate signed by a trusted third party and a digital signature proving that it owns the certificate.

A digital certificate includes the following data:

- Information about the owner of the certificate
- The certificate serial number and expiration date
- The name and digital signature of the certificate authority (CA) that issued the certificate
- A public key
- A purpose defining how the certificate and public key can be used

There are four types of certificates:

• A Product Certificate is a certificate for which the printer has a private key. The purpose specified in the certificate allows it to be used to prove identity.

• A CA Certificate is a certificate with authority to sign other certificates.

• A Trusted Certificate is a self-signed certificate from another product that you want to trust.

• A domain controller certificate is a self-signed certificate for a domain controller in your network. Domain controller certificates are used to verify the identity of a user when the user logs in to the product using a Smart Card.

For protocols such as HTTPS, the printer is the server, and must prove its identity to the client Web browser. For protocols such as 802.1X, the printer is the client, and must prove its identity to the authentication server, typically a RADIUS server.

#### **Device Certificates**

AltaLink® and VersaLink® products support both CA signed and self-signed certificates. Product certificates support a bit length of up to 2048 bits.

A CA signed certificate can be created by generating a Certificate Signing Request (CSR), and sending it to a CA or a local server functioning as a CA to sign the CSR. An example of a server functioning as a certificate authority is Windows Server 2008 running Certificate Services. When the CA returns the signed certificate, install it on the printer.

Alternatively, a self-signed certificate may be created. When you create a Product Certificate, the product generates a certificate, signs it, and creates a public key used in SSL/TLS encryption.

	AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
	B8045, B8055, B8065, B8075, B8090, C8030, C8035, C8045, C8055, C8070	B405, B605, B615, B7025, B7030, B7035, C405, C505, C605, C7020, C7025, C7030	B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Device Certificates			
Certificate Length	1024, 2048	1024, 2048	1024, 2048
Supported Hashes	SHA1, SHA256	SHA256, SHA384, SHA512	SHA256, SHA384, SHA512
Product Web Server	Supported	Supported	Supported
IPPS (TLS) Printing	Supported	Supported	Supported
802.1X Client	Supported	Supported	Supported
Email Signing	Supported	Supported	(Not Applicable)
Email Encryption	Supported	Supported	(Not Applicable)
OCSP Signing	Supported	Supported	Supported
IPSec	Supported	(Not currently supported)	(Not currently supported)

SFTP Supported (Not currently supported) (Not	t Applicable)
---	---------------

#### **Trusted Certificates**

Public certificates may be imported to the product's certificate store for validation of trusted external products. The following categories are supported:

• A Trusted Root CA Certificate is a certificate with authority to sign other certificates. These certificates usually are self-signed certificates that come from another product or service that you want to trust.

• An Intermediate CA Certificate is a certificate that links a certificate to a Trusted Root CA Certificate in certain network environments.

• Other Certificates are certificates that are installed on the printer for solution-specific uses.

An administrator can specify the minimum encryption key length required for certificates. If a user attempts to upload a certificate that contains a key that does not meet this requirement, a message appears. The message alerts the user that the certificate they are attempting to upload does not meet the key length requirement.

	AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
	B8045, B8055, B8065, B8075, B8090, C8030, C8035, C8045, C8055, C8070	B405, B605, B615, B7025, B7030, B7035, C405, C505, C605, C7020, C7025, C7030	B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Trusted Certificates			
Minimum Length Restriction Options	None, 1024, 2048	1024, 2048	1024, 2048
Maximum Length	4096	4096	4096
Supported Hashes	SHA1/224/256/384/512	SHA1/224/256/384/512	SHA1/224/256/384/512
Supported Formats	.cer, .crt, .der, .pem, PKCS#7 (.p7b), PKCS#12 (.pfx, .p12)		.cer, .der, PKCS#7, PKCS#12 (.pfx, .p12)
IPSec	Supported	Supported	Supported
LDAP	Supported	Supported	Supported
Scanning (HTTPS/TLS)	Supported	(Not currently supported)	(Not Applicable)
Scanning (SFTP/SSH)	Used for audit log transfer	(Not currently supported)	(Not Applicable)
802.1X Client	Supported	Supported	Supported
Email Signing	Supported	Supported	(Not Applicable)
Email Encryption	Supported	Supported	(Not Applicable)
OCSP Signing	Supported	Supported	Supported

#### **Certificate Validation**

AltaLink® and VersaLink® devices support certificate validation with configurable checks for OSCP and CRL. Validation checks include:

- Validation of certificate path
- Certificate expiration
- Validation of trusted CA
- Signature validation

#### Email Signing and Encryption using S/MIME

S/MIME (Secure/Multipurpose Internet Mail Extensions) provides Authentication, Message integrity, Non-repudiation, and encryption of email.

		AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
		B8090, C8030, C8035, C8045,		B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Email S/	MIME			
	Versions	v3	v2, v3, v3.2	(Not Applicable)
	5	SHA1, SHA256, SHA384, SHA512	MD5, SHA1, SHA256	(Not Applicable)
			3DES, RC2, AES128, AES192, AES256	(Not Applicable)

#### SNMPv3

SNMPv3 is the current standard version of SNMP defined by the Internet Engineering Task Force (IETF). It provides three important security features:

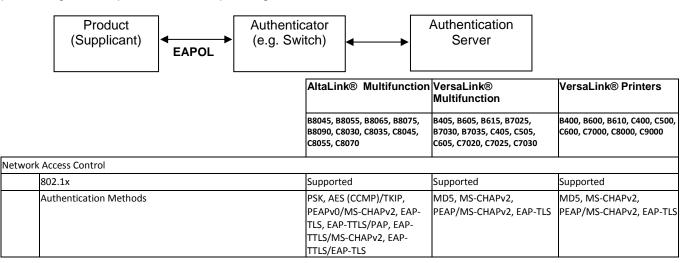
- · Message integrity to ensure that a packet has not been tampered with in transit
- Authentication to verify that the message is from a valid source
- Encryption of packets to prevent unauthorized access

		AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
				B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
SNMPv3				
	Digest	SHA1, MD5	SHA1, MD5	SHA1, MD5
	Encryption	DES, AES128	DES, AES128	DES, AES128

## **Network Access Control**

#### <u>802.1x</u>

In 802.1X authentication, when the product is connected to the LAN port of Authenticator such as the switch as shown below, the Authentication Server authenticates the product, and the Authenticator controls access of the LAN port according to the authentication result. The product starts authentication processing at startup when the startup settings for 802.1X authentication are enabled.



#### Cisco Identity Services Engine (ISE)

Cisco ISE is an intelligent security policy enforcement platform that mitigates security risks by providing a complete view of which users and what products are being connected across the entire network infrastructure. It also provides control over what users can access your network and where they can go. Cisco's ISE includes over 200 Xerox product profiles that are ready for security policy enablement. This allows ISE to automatically detect Xerox products in your network. Xerox products are organized in Cisco ISE under product families, such as AltaLink® and VersaLink®, enabling Cisco ISE to automatically detect and profile new Xerox products from the day they are released. Customers who use Cisco ISE find that including Xerox products in their security policies is simpler and requires minimal effort.

Cisco ISE Profiling Services provides dynamic detection and classification of endpoints connected to the network. ISE collects various attributes for each network endpoint to build an endpoint database. The classification process matches the collected attributes to prebuilt or user-defined conditions, which are then correlated to an extensive library of product profiles. These profiles include a wide range of product types, including tablets, smartphones, cameras, desktop operating systems (for example, Windows®, Mac OS® X, Linux® and others), and workgroup systems such as Xerox printers and MFPs.

Once classified, endpoints can be authorized to the network and granted access based on their profile signature. For example, guests to your network will have different level of access to printers and other end points in your network. As an example, you and your employees can get full printer access when accessing the network from a corporate workstation but be granted limited printer access when accessing the network from your personal Apple® iPhone®.

Cisco ISE allows you to deploy the following controls and monitoring of Xerox products:

 Automatically provision and grant network access rights to printers and MFPs to prevent inappropriate access (including automatically tracking new printing products connecting to the network):

Block non-printers from connecting on ports assigned to printers
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- o Prevent impersonation (aka spoofing) of a printer/MFP
- o Automatically prevent connection of non-approved print products
- o Smart rules-based policies to govern user interaction with network printing products
- Provide simplified implementation of security policies for printers and MFPs by:
  - Providing real time policy violation alerts and logging
    - Enforcing network segmentation policy
  - Isolating the printing products to prevent general access to printers and MFPs in restricted areas
- Automated access to policy enforcement
- Provide extensive reporting of printing product network activity

		AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
		B8090, C8030, C8035, C8045,		B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Networl	Access Control	•		
	Cisco ISE	Supported	Supported	Supported

## **Contextual Endpoint Connection Management**

Traditionally network connection management has been limited to managing endpoints by IP address and use of VLANs and firewalls. This is effective, but highly complex to manage for every endpoint on a network. Managing, maintaining, and reviewing the ACLs (and the necessary change management and audit processes to support them) quickly become prohibitively expensive. It also lacks the ability to manage endpoints contextually.

Connectivity of AltaLink® and VersaLink® devices can be fully managed contextually by Cisco TrustSec. TrustSec uses Security Group Tags (SGT) that are associated with an endpoint's user, device, and location attributes. SG-ACLs can also block unwanted traffic so that malicious reconnaissance activities and even remote exploitation from malware can be effectively prevented.

## **FIPS140-2** Compliance Validation

When enabled, the product will validate its current configuration to identify cryptographic modules in use. Modules which are not FIPS 140-2 (Level 1) compliant will be reported.

AltaLink® products include FIPS compliant algorithms of SNMPv3 and Kerberos, however an exception can be approved to run these in non-FIPS compliant mode when configured for non-FIPS algorithms.

VersaLink® products use encryption algorithms for Kerberos, SMB, SNMPv3, and PDF Direct Print Service that are not approved by FIPS140-2. They can however operate in FIPS140-2 approved Mode in order to maintain compatibility with conventional products after an exception is approved by a system administrator. They do not use FIPS compliant algorithms when in this configuration.

## **Additional Network Security Controls**

Additional network security controls are discussed in the following sections.

#### Endpoint Firewall Options

	AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
	B8090, C8030, C8035, C8045,		8400, 8600, 8610, C400, C500, C600, C7000, C8000, C9000
Firewall	Stateful Packet Filter	IP Whitelisting	IP Whitelisting

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Stateful Firewall	Supported	(Not currently supported)	(Not currently supported)
IP Whitelist	Supported	Supported	Supported

#### IP Whitelisting (IP Address Filtering)

VersaLink® products support IP Whitelisting only.

When enabled all traffic is prohibited regardless of interface (wired/wireless) unless enabled by IP filter rule. IPv4 and IPv6 are enabled separately. If IP Filter and IPsec are both enabled, IPsec is evaluated first. Up to 25 addresses can be enabled for IPv4 and an additional 25 for IPv6. Addresses include IP and subnet allowing individual system or subnets to be enabled. A system administrator can disable this feature using the embedded web server.

#### Stateful Firewall (Advanced IP Filtering)

AltaLink® products support stateful packet inspection that it tracks connections and packet flows. Rules may be configured that examine incoming and outgoing packets. Packets are matched against each rule in order until a match occurs and allows the packet to be accepted, rejected, or dropped.

## 5 Device Security: BIOS, Firmware, OS, Runtime, and Operational security controls

AltaLink® and VersaLink® products have robust security features that are designed to protect the system from a wide range of threats. Below is a summary of some of the key security controls.

#### Pre-Boot BIOS Protection

#### BIOS

- The BIOS is inaccessible and cannot be cleared or reset.
- The BIOS can only be modified by a firmware update, which is digitally signed.
- BIOS will fail secure, locking the system if integrity is compromised.

#### Embedded Encryption

- Configuration Settings (including security settings) and User Data are encrypted by AES.
- Each device is encrypted using its own unique key.

#### **Boot Process Integrity**

#### Firmware Integrity & Verification

- Firmware is digitally signed.
- Firmware is verified against a whitelist using cryptographic hashing.

#### **Runtime Intrusion Prevention & Detection**

Runtime Executable Control

 McAfee Embedded Control prevents unauthorized software from executing. This prevents worms, viruses, spyware, and other malware that install themselves from executing illegitimately.

#### Runtime Intrusion Detection – Memory Control

 McAfee Embedded Control ensures that running processes are protected from malicious attempts to hijack them. Unauthorized code injected into a running process is detected and prevented.

#### **Event Monitoring & Logging**

• The Audit Log feature records security-related events.

#### **Continuous Operational Security**

Firmware and Diagnostic Security Controls

- Firmware installation controls limit who can install firmware and from where.
- Customer defined service technician (CSE) restrictions add an additional layer of protection to prevent unauthorized access and/or modification of AltaLink® and VersaLink® products.
- Continuous logging

## Fail Secure Vs Fail Safe

AltaLink® and VersaLink® products are designed to fail secure.

When a security control is compromised, the control is no longer trustworthy, and a system is at risk of further compromise. In such a scenario, security products may either fail safe [open] or fail secure [closed].

An example from physical security is a door. If power is lost the door may either:

- Unlock and 'fail safe' to an open state (likely for safety reasons such as in a public building).
- Lock and 'fail secure' for security reasons (such as a bank vault).

## **Pre-Boot Security**

#### BIOS

The BIOS used in AltaLink® and VersaLink® products is embedded and cannot be accessed directly. Unlike devices such as Desktop and Laptop computers that have a BIOS that can be accessed via a keystroke on startup, the BIOS of AltaLink® and VersaLink® products is not accessible.

Many devices can be cleared to factory defaults (including passwords and security settings) by depressing a reset button using a paperclip or similar method. For security reasons, AltaLink® and VersaLink® products do not offer such a method to clear or reset the BIOS. (Note that configuration settings may be reset to factory defaults by an authorized administrator, however this does not impact BIOS settings).

BIOS updates are applied by device firmware updates. Firmware is protected from tampering by use of digital signatures (discussed later in this section).

The BIOS is designed to fail secure. An integrity check is performed immediately when power is applied. If verification is successful, the system proceeds with OS kernel boot. If the integrity check fails, the system will fail secure.

#### Embedded Encryption

AES encryption is used to protect the system, user data, and configuration (including security settings) from being retrieved or modified. Each device uses its own unique key that is securely generated. Encryption is enabled by default. Media encryption and sanitization are discussed in Section 3 User Data Protection.

#### **Boot Process Security**

#### Firmware Integrity

Unlike open operating systems such as servers and user workstations in which software may be installed by users, Xerox products are based on embedded systems and the contents are managed by Xerox. The only means of modifying the contents of a device is by applying a firmware update package.

Firmware updates use a special format and each firmware update is digitally signed to protect the integrity of the contents. Firmware that is corrupt or has been illicitly modified will be rejected. This security control cannot be disabled.

AltaLink® and VersaLink® products include a built-in firmware software validation. This is a file integrity monitor that compares the security hashes of currently installed firmware to a secured whitelist that was installed when the signed firmware was installed.

#### **Runtime Security**

Each AltaLink® device comes with McAfee Embedded Control built-in and enabled by default. McAfee Embedded Control is used to protect a variety of endpoints that range from wearable devices to critical systems controlling electrical generation.

Executable control prevents unauthorized code from executing. Xerox has defined a whitelist of executable programs; software that is not on the secure whitelist is not allowed to execute.

Memory control monitors memory and running processes. If unauthorized code is injected into a running process, it is detected and prevented.

When an anomaly is detected it is logged to the device audit log and optional alerts are immediately sent via email. Events are also reportable through CentreWare® Web or Xerox Device Manager, and McAfee® ePolicy Orchestrator® (ePO).

## Event Monitoring & Logging

#### Audit Log

The Audit Log feature records security-related events. The Audit Log contains the following information:

Field	Description			
Index	A unique value that identifies the event.			
Date	The date that the event happened in mm/dd/yy format.			
Time	The time that the event happened in hh:mm:ss format.			
ID	The type of event. The number corresponds to a unique description.			
Description	An abbreviated description of the type of event.			
Additional Details	Columns 6–10 list other information about the event, such as: Identity: User Name, Job Name, Computer Name, Printer Name, Folder Name, or Accounting Account ID display when Network Accounting is enabled. Completion Status Image Overwrite Status: The status of overwrites completed on each job. Immediate Image must be enabled.			

AltaLink® products currently support 159 unique security events. VersaLink® products currently support 52 unique events.

A maximum of 15,000 events can be stored on the device. When the number of events exceeds 15,000, audit log events will be deleted in order of timestamp, and then new events will be recorded. The audit log be exported at any time by a user with administrative privileges. Note that as a security precaution, audit log settings and data can only be accessed via HTTPS.

#### **Operational Security**

#### **Firmware Restrictions**

The list below describes supported firmware delivery methods and applicable access controls.

• Local Firmware Upgrade via USB port:

Xerox service technicians can update product firmware using a USB port and specially configured USB

thumb drive. This ability can be restricted by enabling the Customer Service Engineer Restriction feature which will require entry of a unique, customer designated password in order to accept the update.

• Network Firmware Update:

Product system administrators can update product firmware using the Embedded Web Server. The ability to apply a firmware update is restricted to roles with system administrator or Xerox service permissions. Firmware updates can be disabled by a system administrator.

• Xerox Remote Services Firmware Update:

Xerox Remote Services can update product firmware securely over the internet using HTTPS. This feature can be disabled, scheduled, and includes optional email alerts for system administrators.

#### Service Technician (CSE) Access Restriction

The CSE (Customer Service Engineer) Access Restriction allows customers to create an additional password that is independent of existing administrator passwords. This password must be supplied to allow service of the product. This password is not accessible to Xerox support and cannot be reset by Xerox service personnel.

#### Additional Service Details

Xerox products are serviced by a tool referred to as the Portable Service Workstation (PWS). Only Xerox authorized service technicians are granted access to the PSW. Customer documents or files cannot be accessed during a diagnostic session, nor are network servers accessible through this port. If a network connection is required while servicing a Xerox device, service technicians will remove the device from any connected networks. The technician will then connect directly to the device using an Ethernet cable, creating a physically secure and isolated network during service operations.

## Backup & Restore (Cloning)

Certain system settings can be captured in a 'clone' file that may be applied to other systems that are the same model. Clone files are encoded but not encrypted and have the potential to contain sensitive information depending on which product feature setting is selected. Access to both create and apply a clone file can be restricted using role-based access controls. Clone files can only be created and applied through the Embedded Web Server.

## **EIP Applications**

Xerox products can offer additional functionality through the Xerox Extensible Interface Platform (EIP). Third party vendors can create Apps that extend the functionality of a product. Xerox signs EIP applications that are developed by Xerox or Xerox partners. Products can be configured to prevent installation of unauthorized EIP applications.

## **XCP (eXtensible Customizable Platform)**

VersaLink® products offer additional functionality through the eXtensible Customizable Platform (XCP) plug-in interface. Plug-ins can alter current functionality and add new functionality that may impact the security of the product. XCP Plug-ins are signed and encrypted by Xerox; products can be configured to reject unsigned plug-ins. XCP plug-ins are used to support USB peripherals and alternative login methods (such as Smart Card login). The XCP plug-in feature is disabled by default and must be manually enabled by a system administrator using the embedded web server.

## 6 Configuration & Security Policy Management Solutions

Xerox Device Manager and Xerox CentreWare® Web (available as a free download) centrally manage Xerox Devices. Additionally, AltaLink® products come with McAfee built in and can be managed with McAfee ePO<sup>™</sup> providing an enhanced security posture supporting proactive monitoring, threat detection, and remediation capabilities.

For details please visit Xerox.com or speak with a Xerox representative.

## 7 Identification, Authentication, and Authorization

AltaLink® and VersaLink® products offer a range of authentication and authorization options to support various environments.

Single Factor authentication is supported locally on the product or via external network authentication servers (e.g. LDAP, Kerberos, ADS). Multi Factor authentication is supported by addition of card reader hardware. (Where ease of access is desired, open access and simple user identification modes also exist, however these are not recommended for secure environments.)

In all modes, product administrator accounts always require authentication. This cannot be disabled.

A flexible RBAC (Role Based Access Control) security model supports granular to assign of user permissions. Once a user has been authenticated, the product grants (or denies) user permissions based upon the role(s) they have been assigned to. Pre-defined roles that may be used or custom roles may be created as desired.

## Authentication

AltaLink® and VersaLink® devices support the following authentication mode:

- Local Authentication
- Network Authentication
- Smart Card Authentication (CAC, PIV, SIPR, .Net)
- Convenience Authentication

#### Local Authentication

The local user database stores user credential information. The printer uses this information for local authentication and authorization, and for Xerox ® Standard Accounting. When you configure local authentication, the printer checks the credentials that a user provides against the information in the user database. When you configure local authorization, the printer checks the user database to determine which features the user is allowed access.

Note: User names and passwords stored in the user database are not transmitted over the network

#### **Password Policy**

The following password attributes can be configured:

		VersaLink® Multifunction	VersaLink® Printers
	B8090, C8030, C8035, C8045,	B7030, B7035, C405, C505,	B400, B600, B610, C400, C500, C600, C7000, C8000, C9000
Password Policy			
Minimum Length	1	1	1
Maximum Length	63	63	63
Password cannot contain User Name	Supported	Supported	Supported
Password complexity options (in addition to alphabetic characters)		•	Require a number Require non-alphabetic

#### **Network Authentication**

When configured for network authentication, user credentials are validated by a remote authentication server.

	AltaLink® Multifunction	VersaLink® Multifunction	VersaLink® Printers
		B405, B605, B615, B7025, B7030, B7035, C405, C505, C605, C7020, C7025, C7030	8400, 8600, 8610, C400, C500, C600, C7000, C8000, C9000
Network Authentication Providers			
Kerberos (Microsoft Active Directory)	Supported	Supported	Supported
Kerberos (MIT)	Supported	Supported	Supported
SMB NTLM Versions Supported	NTLMv2	NTLMv2	NTLMv2
LDAP Versions Supported	Version 3 (including TLS 1.2)	Version 3 (including TLS 1.2)	Version 3 (including TLS 1.2)

#### Smart Card Authentication

Two-factor security - Smart Card plus User Name/Password combination. Requires optional card reader hardware and software plugin. Authentication is handled by a remote server. Supported remote authentication methods include Kerberos, SMB and LDAP.

Smart Card authentication is considered very secure due to the nature of the Smart Card architecture and potential levels of encryption of data on the card itself.

Support for the SIPR network is provided using the XCP Plug-in architecture and a Smart Card authentication solution created by 90meter under contract for Xerox.

Details regarding 90meter can be found online here: http://www.90meter.com/

Other Smart Card authentication solutions are offered including support for CAC/PIV and .NET compatible cards leveraging XCP Plug-ins.

		VersaLink® Multifunction	VersaLink® Printers	
	B8090, C8030, C8035, C8045,		B400, B600, B610, C400, C500, C600, C7000, C8000, C9000	
Smart Cards				
Common Access Card (CAC)	Supported	Supported	Supported	
PIV / PIV II	Supported	Supported	Supported	
Net (Gemalto .Net v1, Gemalto .Net v2)	Supported	Supported	Supported	
Gemalto MD	Supported	(Not Currently Supported)	(Not Currently Supported)	

#### **Convenience Authentication**

Convenience authentication offloads authentication to a third-party solution which may offer more or less security than native security implementations. Users swipe a pre-programmed identification card or key fob to access the device.

For example, employees may be issued key fobs for access to facilities. Convenience mode may be configured to allow an employee to authenticate using their fob or require the fob in a multi-factor manor. The level of security provided is dependent upon the chosen implementation.

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Some examples of third party convenience authentication providers include:

- Pharos print management solutions: https://pharos.com/
- YSoft SafeQ: https://www.ysoft.com/en

Contact your Xerox sales representative for details and other options.

#### Simple Authentication (non-secure)

Simple authentication is mentioned here for completeness. It is intended for environments where authentication is not required. It is used for customization only. When in this mode, users are not required to enter a password. (The device administrator account always requires a password).

## Authorization (Role Based Access Controls)

AltaLink® and VersaLink® products offer granular control of user permissions. Users can be assigned to pre-defined roles or customers may design highly flexible custom permissions. A user must be authenticated before being authorized to use the services of the product. Authorization ACLs (Access Control Lists) are stored in the local user database. Authorization privileges (referred to as permissions) can be assigned on a per user or group basis.

Please note that Xerox products are designed to be customizable and support various workflows as well as security needs. User permissions include security-related permissions and non-security related workflow permissions (e.g. walkup user options, copy, scan, paper selection, etc.). Only security-related permissions are discussed here.

#### Remote Access

Without RBAC permissions defined basic information such as Model, Serial number, and Software Version can be viewed by unauthenticated users. This can be disabled by restricting access to the device website pages for non-logged-in users.

By default, users are allowed to view basic status and support related information, however they are restricted from accessing device configuration settings. Permission to view this information can be disallowed.

#### Local Access

Without RBAC permissions defined basic information such as Model, Serial number, Software Version, IP address, and Host Name can be viewed without authentication. This can be disabled by disallowing access to device settings for unauthenticated.

By default, users are allowed to access the local interface, however they are restricted from accessing device configuration settings. Roles can be configured to allows granular access to applications, services, and tools. Users can be also restricted from accessing the local interface completely.

## 8 Additional Information & Resources

## Security @ Xerox®

Xerox maintains an evergreen public web page that contains the latest security information pertaining to its products. Please see <a href="http://www.xerox.com/security">http://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: http://www.xerox.com/information-security/information-security-articles-whitepapers/enus.html

## **Additional Resources**

Below are additional resources.

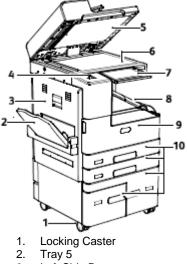
Security Resource	URL
Frequently Asked Security Questions	https://www.xerox.com/en-us/information- security/frequently-asked-questions
Common Criteria Certified Products	https://security.business.xerox.com/en- us/documents/common-criteria/
Current Software Release Quick Lookup Table	http://www.xerox.com/security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

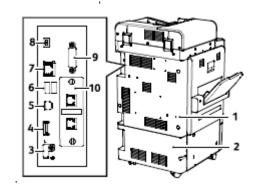
## Appendix A: Product Security Profiles

This appendix describes specific details of each AltaLink® and VersaLink® product.

## AltaLink® B8045/B8055/B8065/B8075/B8090

#### **Physical Overview**





- Left Side Door 3.
- USB Port 4.
- 5. **Document Cover**
- 6. **Document Glass**
- **Control Panel** 7.
- 8. Center Output Tray
- Front Door 9.
- 10. Trays 1-4



- Upper Rear Cover 1.
- Lower Rear Cover 2. 3.
- USB Memory Port, for service only USB Memory Card Connections
- 4.
- 5.
- USB Port, Type B USB Ports, Type A Ethernet Connection 6.
- 7. 8.
  - Status Indicator
- Foreign Device Interface (optional) 9.
- 10. Fax Connections (optional)

## Security Related Interfaces

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional USB2.0 (Type A) port(s)	Users may insert a USB thumb drive to print from or store scanned files to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls. Firmware upgrades may be applied using this port. Connection of optional equipment such as NFC or CAC readers. Note: This port can be disabled completely by a system administrator.

#### **Encryption and Overwrite**

Encryption	AES-256
TPM Chip	(Not Currently Supported)
Media Sanitization	Immediate and On-Demand Image Overwrite.

#### **Controller Non-Volatile Storage**

	IC	HDD	SSD	SD Card
	N/A	Optional	N/A	Required
Contains User Data (E.g. Print, Scan, Fax)		Yes		Yes
Encryption Support		Configurable		Always-On
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings		Yes		Yes
Encryption Support		Configurable		Always-On
Customer Erasable		Factory Reset		Factory Reset

Note: Configuration settings may be erased by the reset to factory defaults feature. IC- Integrated Circuit, soldered to circuit board SSD- Solid State Disk HDD- Magnetic Hard Disk Drive

SD Card- Secure Digital Card

#### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
4GB	DDR3 SDRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

#### Marking Engine Non-Volatile Storage

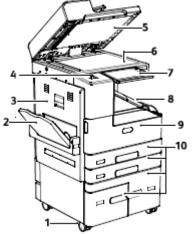
N/A. The marking engine does not contain any non-volatile storage.

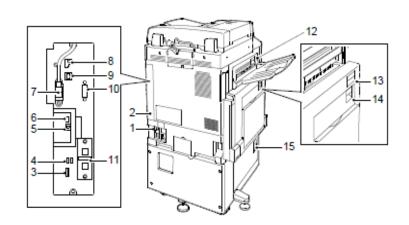
#### Marking Engine Volatile Memory

N/A. The marking engine volatile memory does not store or process user data.

## AltaLink® C8030 / C8035 / C8045 / C8055 / C8070

#### **Physical Overview**





- Leveler Foot 1.
- Tray 5 2.
- Left Tray 3.
- USB Port 4.
- 5. **Document Cover**
- 6. **Document Glass**
- Power/Wake Button 7.
- 8. **Control Panel**
- Center Output Tray 9.
- 10. Center Bottom Tray
- 11. Main Power Switch behind Front Door
- 12. Trays 1-4
- 13. Locking Casters

- **Circuit Breaker** 1.
- Rear Right Cover 2.
- USB Memory Card Connections and SIM Slot 3.
- USB Port, Type A USB Port, Type B Status Indicator 4.
- 5.
- 6.
- Side 2 Scan Cable 7.
- Data Port, for service only Ethernet Connection 8.
- 9.
- 10. Foreign Device Interface (optional)
- 11. Fax Connections (optional)
- 12. Door D Release Lever
- 13. Door A Release Lever
- 14. Door B Release Lever
- 15. Door C Release Lever

#### Security Related Interfaces

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional	Users may insert a USB thumb drive to print from or store scanned files
USB2.0 (Type A) port(s)	to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls.
	Firmware upgrades may be applied using this port.
	Connection of optional equipment such as NFC or CAC readers. Note: This port can be disabled completely by a system administrator.

#### **Encryption and Overwrite**

Encryption	AES-256
TPM Chip	(Not Currently Supported)
Media Sanitization	Immediate and On-Demand Image Overwrite.

#### **Controller Non-Volatile Storage**

	IC	HDD	SSD	SD Card
	N/A	Optional	N/A	Required
Contains User Data (E.g. Print, Scan, Fax)		Yes		Yes
Encryption Support		Configurable		Always-On
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings		Yes		Yes
Encryption Support		Configurable		Always-On
Customer Erasable		Factory Reset		Factory Reset

Note: Configuration settings may be erased by the reset to factory defaults feature.

IC- Integrated Circuit, soldered to circuit board HDD- Magnetic Hard Disk Drive SSD- Solid State Disk SD Card- Secure Digital Card

#### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
4GB	DDR3 SDRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

#### Marking Engine Non-Volatile Storage

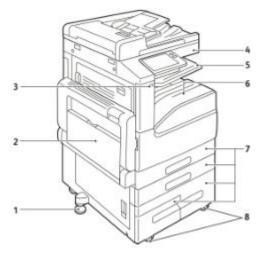
N/A. The marking engine does not contain any non-volatile storage.

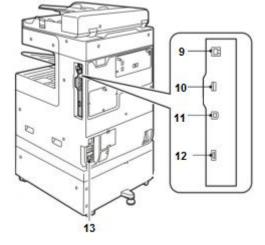
#### Marking Engine Volatile Memory

N/A. The marking engine volatile memory does not store or process user data.

# VersaLink® B7025, B7030 B7035

# **Physical Overview**





- 11. Stabilizer
- 12. Bypass paper feed tray
- 13. USB2.0 (Host Type A)\*14. Touch screen user interface.
- 15. Upper paper tray
- 16. Lower paper tray
- 17. Paper feed trays

- 18. Caster wheels
- 19. USB3.0 (Target Type B)\*
- Optional Wi-Fi dongle port\*
   RJ45 Ethernet connection\*
- 22. Debug serial port (DIN)\* (Located under steel plate)
- 23. AC Power

### **Security Related Interfaces**

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional	Users may insert a USB thumb drive to print from or store scanned files
USB2.0 (Type A) port(s)	<ul> <li>to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls.</li> <li>Firmware upgrades may be applied using this port.</li> </ul>
	Connection of optional equipment such as NFC or CAC readers.
	Note: This port can be disabled completely by a system administrator.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	N/A	Optional	N/A	Required
Contains User Data (E.g. Print, Scan, Fax)		Yes		Yes
Encryption Support		Always-On		Always-On
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings		Yes		Yes
Encryption Support		Always-On		Always-On
Customer Erasable		Factory Reset		Factory Reset

Note: Configuration settings may be erased by the reset to factory defaults feature.IC- Integrated Circuit, soldered to circuit boardSSD- Solid State DiskHDD- Magnetic Hard Disk DriveSD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
2GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

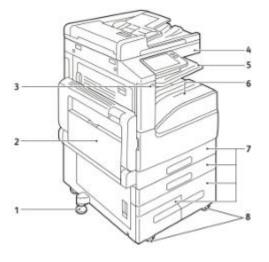
### Marking Engine Non-Volatile Storage

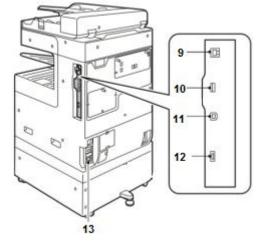
N/A. The marking engine does not contain any non-volatile storage.

# Marking Engine Volatile Memory

# VersaLink® C7000, C7020, C7025, C7030

# **Physical Overview**





- Stabilizer 1.
- 2. Bypass paper feed tray
- USB2.0 (Host Typ
   Touch screen use
   Upper paper tray
- USB2.0 (Host Type A)\* Touch screen user interface.
- 6. Lower paper tray
- 7. Paper feed trays

- Caster wheels 8.
- USB3.0 (Target Type B)\*
   Optional Wi-Fi dongle port\*
   RJ45 Ethernet connection\*

- 12. Debug serial port (DIN)\* (Located under steel plate)
- 13. AC Power

### **Security Related Interfaces**

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional	Users may insert a USB thumb drive to print from or store scanned files
USB2.0 (Type A) port(s)	to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls.
	Firmware upgrades may be applied using this port.
	Connection of optional equipment such as NFC or CAC readers.
	Note: This port can be disabled completely by a system administrator.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	N/A	Optional	N/A	Required
Contains User Data (E.g. Print, Scan, Fax)		Yes		Yes
Encryption Support		Always-On		Always-On
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings		Yes		Yes
Encryption Support		Always-On		Always-On
Customer Erasable		Factory Reset		Factory Reset

Note: Configuration settings may be erased by the reset to factory defaults feature. IC- Integrated Circuit, soldered to circuit board SSD- Solid State Disk HDD- Magnetic Hard Disk Drive

SD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
2/4GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

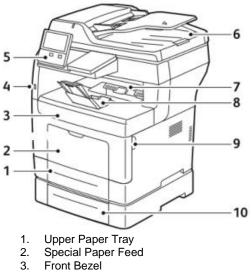
# Marking Engine Non-Volatile Storage

N/A. The marking engine does not contain any non-volatile storage.

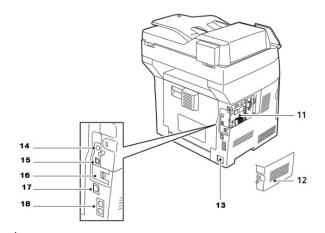
# Marking Engine Volatile Memory

# VersaLink® B400, B405

# **Physical Overview**



- 4. USB 2.0 (A) 5. Touch Screen User Interface , Power
- Button and Optional NFC 6. Document Feeder
- Catch Tray 7.
- Catch Tray Extension 8.
- 9. Jam Clearance Open



- 10. Lower Paper Tray
- 11. Optional SSD Install Location
- 12. SSD Install Location Cover
- 13. AC Power
- 14. Foreign Device Interface
- 15. USB 3.0 (B)
- 16. Optional Wireless Adapter Connector
- 17. RJ-45 Ethernet Connector
- 18. RJ-11 Fax and Telephone Connector

#### **Security Related Interfaces**

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional USB2.0 (Type A) port(s)	Users may insert a USB thumb drive to print from or store scanned files to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls. Firmware upgrades may be applied using this port. Connection of optional equipment such as NFC or CAC readers. Note: This port can be disabled completely by a system administrator.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	Required	N/A	Optional	N/A
Contains User Data (E.g. Print, Scan, Fax)			Yes	
Encryption Support			Always-On	
NIST 800-171 Overwrite Support			Yes	
Contains Configuration Settings	Yes		Yes	
Encryption Support	Always-On		Always-On	
Customer Erasable	Factory Reset		Factory Reset	

Note: Configuration settings may be erased by the reset to factory defaults feature. IC- Integrated Circuit, soldered to circuit board SSD- Solid State Disk HDD- Magnetic Hard Disk Drive

SD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
2GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

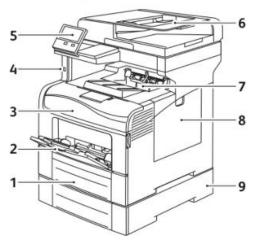
### Marking Engine Non-Volatile Storage

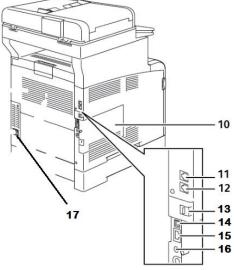
N/A. The marking engine does not contain any non-volatile storage.

# Marking Engine Volatile Memory

# VersaLink® C400, C405

### **Physical Overview**





- 1.
- Upper Paper Tray Special Paper Feed 2.
- 3. Front Bezel
- 4. USB 2.0 (A)
- 5. Touch Screen User Interface, Power Button and Optional NFC
- 6. Document Feeder
- 7. Catch Tray
- 8. Side Panel

- 9. Lower Paper Tray
- 10. Service Panel
- 11. RJ-11 Fax and Telephone Connector
- 12. RJ-11 Fax and Telephone Connector
- 13. Optional Wireless Adapter Connector
- 14. USB 3.0 (B)
- 15. RJ-45 Ethernet Connector
- 16. Foreign Device Interface
- 17. AC Power

### **Security Related Interfaces**

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional	Users may insert a USB thumb drive to print from or store scanned files
USB2.0 (Type A) port(s)	to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls.
	Firmware upgrades may be applied using this port.
	Connection of optional equipment such as NFC or CAC readers.
	Note: This port can be disabled completely by a system administrator.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	Required	Optional	N/A	N/A
Contains User Data (E.g. Print, Scan, Fax)		Yes		
Encryption Support		Always-On		
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings	Yes	Yes		
Encryption Support	Always-On	Always-On		
Customer Erasable	Factory Reset	Factory Reset		

Note: Configuration settings may be erased by the reset to factory defaults feature.

IC- Integrated Circuit, soldered to circuit board HDD- Magnetic Hard Disk Drive SSD- Solid State Disk SD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
2GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes

Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.

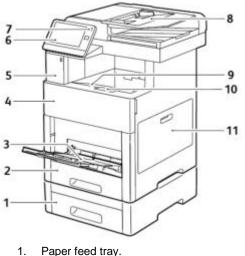
# Marking Engine Non-Volatile Storage

N/A. The marking engine does not contain any non-volatile storage.

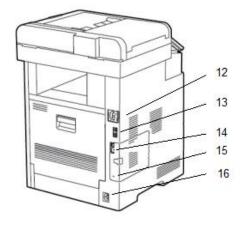
# Marking Engine Volatile Memory

# VersaLink® C500, C600, C505, C605

# **Physical Overview**



- Paper feed tray.
- Paper feed tray. Bypass paper feed tray. 2.
- 3.
- Front bezel. 4.
- USB2.0(A). 5.
- Touch screen user interface. 6.
- 7. System power button.
- 8. Document feeder.



- 9. Document output tray.
- Document output tray extension.
   Jam clearance panel.
- 12. Optional Wi-Fi dongle connection.
- 13. RJ11 Fax
- 14. USB3.0 (B) & RJ45 Ethernet connection.
- 15. Foreign device interface.
- 16. AC Power.

# Security Related Interfaces

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional USB2.0 (Type A) port(s)	Users may insert a USB thumb drive to print from or store scanned files to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls. Firmware upgrades may be applied using this port. Connection of optional equipment such as NFC or CAC readers. Note: This port can be disabled completely by a system administrator.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	Required	Optional	N/A	N/A
Contains User Data (E.g. Print, Scan, Fax)		Yes		
Encryption Support		Always-On		
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings	Yes	Yes		
Encryption Support	Always-On	Always-On		
Customer Erasable	Factory Reset	Factory Reset		

Note: Configuration settings may be erased by the reset to factory defaults feature.IC- Integrated Circuit, soldered to circuit boardSSD- Solid State DiskHDD- Magnetic Hard Disk DriveSD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
2/4GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

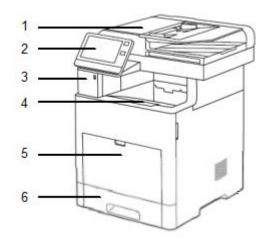
### Marking Engine Non-Volatile Storage

N/A. The marking engine does not contain any non-volatile storage.

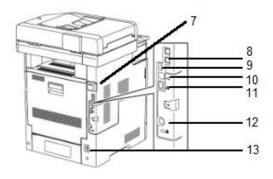
# Marking Engine Volatile Memory

# VersaLink® B600, B605, B610, B615

### **Physical Overview**



- 1. Document feeder.
- Touch screen user interface. 2.
- 3. USB2.0(A).
- Document output tray. 4.
- Bypass paper feed. Paper tray 5. 6.



- Optional Wi-Fi dongle connection. Optional RJ11 Fax 7.
- 8.
- 9. USB2.0(A) 10. USB3.0(B)
- 11. RJ45 Ethernet
- 12. Foreign device interface.
- 13. AC Power.

### **Security Related Interfaces**

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional USB2.0 (Type A) port(s)	Users may insert a USB thumb drive to print from or store scanned files to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls. Firmware upgrades may be applied using this port. Connection of optional equipment such as NFC or CAC readers. Note: This port can be disabled completely by a system administrator.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	Required	Optional	N/A	N/A
Contains User Data (E.g. Print, Scan, Fax)		Yes		
Encryption Support		Always-On		
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings	Yes	Yes		
Encryption Support	Always-On	Always-On		
Customer Erasable	Factory Reset	Factory Reset		

Note: Configuration settings may be erased by the reset to factory defaults feature.IC- Integrated Circuit, soldered to circuit boardSSD- Solid State DiskHDD- Magnetic Hard Disk DriveSD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
2GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

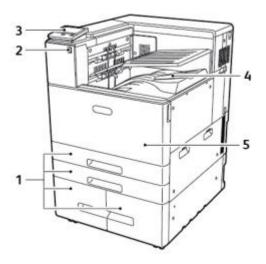
### Marking Engine Non-Volatile Storage

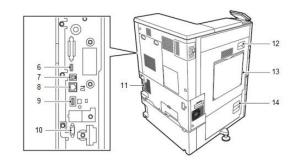
N/A. The marking engine does not contain any non-volatile storage.

### Marking Engine Volatile Memory

# VersaLink® C8000, C9000

# **Physical Overview**





- Paper feed tray. USB2.0(A). 1.
- 2.
- 3. Touch screen user interface.
- Document output tray. 4.
- Jam clearance panel.
   USB2.0(A).
   USB3.0(B).
- USB3.0(B).

- 8. RJ45 Ethernet connection.
- 9. Optional Wi-Fi dongle connection.
- 10. Foreign device interface.
- 11. AC Power.
- 12. Jam clearance panel.
- Special paper tray.
   Jam clearance panel.

#### **Security Related Interfaces**

Ethernet	10/100/1000 MB Ethernet interface.
Optional Wi-Fi Dongle	Supports optional 802.11 Dongle.
Rear USB 3.0 (Type B)	USB target connector used for printing.
	Note: This port can be disabled completely by a system administrator.
Front Panel Optional USB2.0 (Type A) port(s)	Users may insert a USB thumb drive to print from or store scanned files to. (Physical security of this information is the responsibility of the user or operator.) Note that features that leverage USB ports (such as Scan To USB) can be disabled independently or restricted using role based access controls. Firmware upgrades may be applied using this port. Connection of optional equipment such as NFC or CAC readers. Note: This port can be disabled completely by a system administrator.
Product Service Port	Used only by Xerox service technicians. Port is covered by a metal
	plate.

Encryption	AES-256
TPM Chip	TPM chip is standard and cannot be disabled.
Media Sanitization	Immediate and On-Demand Image Overwrite.

	IC	HDD	SSD	SD Card
	N/A	Optional	N/A	Required
Contains User Data (E.g. Print, Scan, Fax)		Yes		Yes
Encryption Support		Always-On		Always-On
NIST 800-171 Overwrite Support		Yes		
Contains Configuration Settings		Yes		Yes
Encryption Support		Always-On		Always-On
Customer Erasable		Factory Reset		Factory Reset

Note: Configuration settings may be erased by the reset to factory defaults feature. IC- Integrated Circuit, soldered to circuit board SSD- Solid State Disk HDD- Magnetic Hard Disk Drive

SD Card- Secure Digital Card

### **Controller Volatile Memory**

Size	Туре	Use	User Data	How to Clear	Volatile
4GB	DDR3 DRAM	Executable code, Printer control data, temporary storage of job data	Yes	Power off system	Yes
Additional Information: The controller operating system memory manager allocates memory dynamically between OS, running processes, and temporary data which includes jobs in process. When a job is complete, the memory pages in use are freed and reallocated as required by the OS.					

# Marking Engine Non-Volatile Storage

N/A. The marking engine does not contain any non-volatile storage.

# Marking Engine Volatile Memory

# Appendix B: Security Events

# Xerox AltaLink® Security Events

ID	Event	Description
1	System startup	Device name
		Device serial number
2	System shutdown	Device name
		Device serial number
3	Manual ODIO Standard started	Device name
		Device serial number
4	Manual ODIO Standard complete	Device name
		Device serial number
		Overwrite Status
5	Print job	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
6	Network scan job	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
		total-number-net-destination
		net-destination.
7	Server fax job	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
		Total-fax-recipient-phone-numbers
		fax-recipient-phone-numbers
0		net-destination.
8	IFAX	Job name User Name
		Completion Status IIO status
		Accounting User ID
		Accounting Account ID
		total-number-of-smtp-recipients
		smtp-recipients

0	Emoil ich	lob nome
9	Email job	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
		total-number-of-smtp-recipients
		smtp-recipients
10	Audit Log Disabled	Device name
	, laan Eeg Dicabica	Device serial number
11	Audit Log Enabled	Device name
11	Addit Log Enabled	Device serial number
40		
12	Сору	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
		Total-fax-recipient-phone-numbers
		fax-recipient-phone-numbers
13	Efax	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
		Total-fax-recipient-phone-numbers
		fax-recipient-phone-numbers
14	Lan Fax Job	Job name
		User Name
		Completion Status
		IIO status
		Accounting User ID
		Accounting Account ID
		Total-fax-recipient-phone-numbers
		fax-recipient-phone-numbers
15	Data Encryption enabled	Device name
		Device serial number
16	Manual ODIO Full started	Device name
		Device serial number
17	Manual ODIO Full complete	Device senai name
		Device serial number
		Overwrite Status
18	Data Encryption disabled	Device name
		Device serial number
20	Scan to Mailbox job	Job name or Dir name
		User Name
		Completion Status
		IIO status
21	Delete File/Dir	Job name or Dir name
		User Name
		Completion Status
		IIO status

23	Scan to Home	UserName
23	Scanto Home	Device name
		Device serial number
24	Seen to Home job	Completion Status (Enabled/Disabled) Job name or Dir name
24	Scan to Home job	User Name
		Completion Status (Normal/Error) IIO status
		Accounting User ID-Name Accounting Account ID-Name
		total-number-net-destination
		net-destination
25	Copy store job	Job name or Dir name
20	Copy store job	User Name
		Completion Status (Normal/Error)
		IIO status
26	PagePack login	Device name
20		Device serial number
		Completion Status:
		Success: (if Passcode is ok)
		Failed: (if Passcode is not ok)
		Locked out (if Max Attempts Exceed 5)
		Time Remaining:
		Hrs (Remaining for next attempt)
		Min (Remaining for next attempt)
27	Postscript Passwords	Device name
		Device serial number
		StartupMode (enabled/disabled)
		System Params Password changed
		Start Job Password changed
29	Network User Login	UsereName
		Device name
		Device serial number
		Completion Status (Success, Failed)
30	SA login	UsereName
	_	Device name
		Device serial number
		Completion Status (Success or Failed)
31	User Login	UserName
		Device name
		Device serial number
		Completion Status (Success or Failed)
32	Service Login	Service name
		Device name
		Device serial number
		Completion status (Success or Failed).
33	Audit log download	UserName
		Device name
		Device Serial Number
		Completion status (Success or Failed).
34	IIO feature status	UserName
		Device name
		Device serial number
		IIO Status (enabled or disabled)

35	SA pin changed	UserName
		Device name
		Device serial number
		Completion status
36	Audit log Saved	UserName
50	Addit log Saved	Device name
		Device serial number
		Completion status
37	SSL	UserName
37	33L	Device name
		Device serial number
20	X509 certificate	Completion Status (Enabled/Disabled/Terminated)
38	X509 Certificate	UserName
		Device name
		Device serial number
		Completion Status (Created/uploaded/Downloaded).
39	IP sec Enable/Disable/Configure	UserName
		Device name
		Device serial number
		Completion Status
		(Configured/enabled/disabled/Terminated)
40	SNMPv3	UserName
		Device name
		Device serial number
		Completion Status (Configured/enabled/disabled).
41	IP Filtering Rules	UserName
		Device name
		Device serial number
		Completion Status (Configured/enabled/disabled).
42	Network Authentication	UserName
	Enable/Disable/Configure	Device name
		Device serial number
		Completion Status (Enabled/Disabled)
43	Device clock	UserName
		Device name
		Device serial number
		Completion Status (time changed/date changed)
44	SW upgrade	Device name
		Device serial number
		Completion Status (Success, Failed)
45	Cloning	Device name
	-	Device serial number
		Completion Status (Success, Failed)
46	Scan Metadata Validation	Device name
		Device serial number
		Completion Status (Metadata Validation Success or
		Failed)
47	Xerox Secure Access	Device name
	Enable/Disable/Configure	Device serial number
		Completion status (Configured/enabled/disabled)
48	Service login copy mode	Service name
		Completion Status (Success, Failed)
48	Service login copy mode	Device name Device serial number

49	Smartcard (CAC/PIV) access	UserName (if valid Card and Password are entered) Device name Device serial number
		Process Name
50	Process terminated	Device name Device serial number Process name
51	ODIO scheduled	Device name Device serial number ODIO type (Full or Standard) Scheduled time ODIO status (Started/Completed/canceled) Completion Status (Success/Failed/Canceled)
53	CPSR Backup	File Name User Name Completion Status (Normal / Error) IIO Status
54	CPSR Restore	File Name User Name Completion Status (Normal / Error) IIO Status
55	SA Tools Access Admin	Device serial number Completion Status (Locked/Unlocked)
57	Session Timer Logout	Device Name Device Serial Number Interface (Web, LUI) User Name (who was logged out) Session IP (if available)
58	Session Timer Interval Change	Device Name Device Serial Number Interface (Web, LUI)(Timer affected by change) User Name (who made this change) Session IP (if available) Completion Status
59	Feature Access Control Enable/Disable/Configure	User Name Device Name Device Serial Number Completion Status (Enabled/Disabled/Configured) Interface (Web, Local, CAC, SNMP) Session IP address (if available)
60	Device Clock NTP Enable/Disable	Device Name Device serial number Enable/Disable NTP NTP Server IP Address Completion Status (Success/Failed)
61	Grant / Revoke Admin	Device Name Device Serial Number User Name (of target user) Grant or Revoke (the admin right) Completion Status (Success/Failed)
62	Smartcard (CAC/PIV) Enable/Disable/Configure	UserName Device Name Device Serial Number Completion Status (Success/Failed)

63	IPv6	UserName
	Enable/Disable/Configure	Device Name
	5	Device Serial Number
		Completion Status (Success/Failed)
64	802.1x	UserName
	Enable/Disable/Configure	Device Name
		Device Serial Number
		Completion Status (Success/Failed)
65	Abnormal System Termination	Device Name
		Device Serial Number
66	Local Authentication	UserName
		Device Name
		Device Serial Number
		Completion Status (Enabled/Disabled)
67	Web User Interface Authentication	UserName
	(Enable Network or Local)	Device Name
		Device Serial Number
		Authentication Method Enabled (Network/Local)
68	FIPS Mode	UserName
	Enable/Disable/Configure	Device name
		Device Serial Number
		Enable/Disable/Configure
69	Xerox Secure Access Login	UserName
		Device Name
		Device Serial Number
		Completion Status (Success/Failed)
70	Print from USB	User Name
	Enable/Disable	Device Name
		Device Serial Number
- /		Completion Status (Enabled/Disabled)
71	USB Port	User Name
	Enable/Disable	Device Name
		Device Serial Number
		USB Port (Front/Rear)
		Completion Status (Enabled/Disabled)
72	Scan to USB	User Name
	Enable/Disable	Device Name
		Device Serial Number
		Completion Status (Enabled/Disabled)
73	System Log Download	Username
		IP of requesting device (if available)
		File names downloaded
		Destination (IP address or USB device)
74		Completion status (Success/failed)
74	Scan to USB Job	Job Name
		User Name
		Completion Status
		IIO Status
		Accounting User ID-Name
		Accounting Account ID-Name

75	Domoto III footure	Lloor Nome
75	Remote UI feature	User Name
		Device Name
		Device Serial Number
		Completion Status
		(Enabled/Disabled/Configured)
76	Remote UI session	User Name
		Device Name
		Device Serial Number
		Completion Status
		(Initiated/Terminated)
		Remote Client IP Address
77	Remote Scan Feature	User Name
	Enable/Disable	Device Name
	(TWAIN driver)	Device Serial Number
		Competion Status (Enable/Disable)
78	Remote Scan Job Submitted	UserName (at client if available)
	(TWAIN driver)	IP address of submitting client
	· · · · · ·	Device name
		Device serial number
		Job name (if accepted)
		Completion status (accept/reject request)
79	Scan to Web Service Job	Job name
	(Remote Scan Job Competed)	UserName
	(TWAIN driver)	Accounting User ID-Name
		Accounting Account ID-Name
		Completion status
		Destination
80	SMTP Connection Encryption	UserName
00		Device name
		Device serial number
		Completion Status
		(Enabled for STARTLS / Enabled for STARTLS if Avail
		/ Enabled for SSL/TLS / Disabled)
81	Email Domain Filtering Rule	User name
		Device Name
		Device Name Device Serial Number
		Completion Status (Feature Enabled/Feature Disabled,
		Rule Added / Rule Deleted)
82	Software Self Test Started	Device Name
02	Soliware Sell rest Started	
0.2	Software Salf Test Complete	Device Serial Number
83	Software Self Test Complete	Device Name
		Device Serial Number
0.1	MaAfaa Oak di Okai	Completion Status(Success/Failed/Cancelled)
84	McAfee Security State	UserName
	NOTE: ColorQube 8900 ONLY	Device name
		Device serial number
		Security Mode
		(Enhanced Security / Integrity Control)
		Completion Status
1		(Enabled / Disabled / Pending)

95	McAfoo Socurity Event	Davica nama
85	McAfee Security Event	Device name
	NOTE: ColorQube 8900 ONLY	Device serial number
		Type (Bood ( Modify ( Evenute ( Doluge))
		(Read / Modify / Execute / Deluge)
07	Malfaa Agant	McAfee message text
87	McAfee Agent NOTE: ColorQube 8900 ONLY	User name
	NOTE: COORQUBE 8900 ONLY	Device name
		Device serial number
		Completion Status (Enabled / Disabled)
88	Digital Certificate Import Failure	Device name
89	User Name	Device hame Device serial number
09	Add/Delete	Device Senai number
90	User Name Password Change	Security Mode
90	EFax Job Secure Print Passcode	UserName (managing passcodes)
31	ET ax 500 Secure Finit Fasscode	Device name
		Device serial number
		Completion Status (Passcode Created/Changed)
92	Scan2Mailbox Folder Password	UserName (managing passwords)
52	Change	Device name
	Ghange	Device serial number
		Folder Name
		Completion Status (Password was Changed)
93	EFax Mailbox Passcode	UserName (managing passcodes)
00		Device name
		Device serial number
		Completion Status (Passcode
		Created/Changed)
94	FTP/SFTP Filing Passive Mode	User Name
-	3	Device Name
		Device Serial Number
		Completion Status (Enabled / Disabled)
95	EFax Forwarding Rule	User Name
	_	Device Name
		Device Serial Number
		Fax Line 1 or 2 (if applicable)
		Completion Status (Rule Edit / Rule Enabled / Rule
		Disabled)
96	EIP Weblets Allow	UserName
	Install	Device name
		Device serial number
		Completion Status (Enable Installation / Block
		Installation)
97	EIP Weblets Install	UserName
		Device name
		Device serial number
		Weblet Name
		Action (Install / Delete)
		Completion (Success / Fail)
98	EIP Weblets Enable / Disable	UserName
		Device name
		Device serial number
		Weblet Name
		Completion Status (Enable / Disable)

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99	Network Connectivity Enable /	UserName
00	Disable	Device name
		Device serial number
		Completion Status
		(Enable Wireless / Disable Wireless
		(Enable Wired /Disable Wired)
100	Address Book Permissions	UserName
100		Machine Name
		Machine serial number
		Completion Status
		(SA Only/Open Access Enabled WebUI) /
		(SA Only/Open Access Enabled Vebol) /
101	Address Book Export	UserName
101		Machine Name
		Machine serial number
102	SW upgrade enable / disable	UserName
102		Device name
		Device serial number
		Completion Status (Enable Installation / Disable
		Installation)
103	Supplies Plan Activation	Device name
100		Device serial number
		Completion Status:
		Success: (if Passcode is ok)
		Failed: (if Passcode is not ok)
		Locked out (if Max Attempts Exceed 5)
		Time Remaining :
		Hrs (Remaining for next attempt)
		Min (Remaining for next attempt)
104	Plan Conversion	Device name
-		Device serial number
		Completion Status:
		Success: (if Passcode is ok)
		Failed: (if Passcode is not ok)
		Locked out (if Max Attempts Exceed 5)
		Time Remaining :
		Hrs (Remaining for next attempt)
		Min (Remaining for next attempt)
105	IPv4	UserName
	Enable/Disable/Configure	Device name
	5	Device serial number
		Completion Status
		(Enabled Wireless/Disabled Wireless/
		Configured Wireless)
		(Enabled Wired/Disabled Wired/
		Configured Wired)
106	SA PIN Reset	Device serial number
		Completion Status (Success/Failed)
107	Convenience Authentication Login	UserName
	C C	Device name
		Device serial number
		Completion Status (Success or Failed)

108       Convenience Authentication Enable/Disable/Configure       UserName         Device name Device serial number Completion Status (Enabled/Disabled/Configured)       Device name         109       Efax Passcode Length       UserName (managing passcodes) Device name         Device serial number Completion Status (Passcode Length Changed)	
109       Efax Passcode Length       UserName (managing passcodes) Device serial number         Device serial number       Device serial number         Completion Status       Completion Status         Complexity       UserName (managing passcodes)         Device serial number       Device serial number         Completion Status (Passcode Length)       Device name	
109       Efax Passcode Length       UserName (managing passcodes)         Device name       Device serial number         Completion Status (Passcode Length       Completion Status (Passcode Length	
109       Efax Passcode Length       UserName (managing passcodes)         Device name       Device serial number         Completion Status (Passcode Length	
109       Efax Passcode Length       UserName (managing passcodes)         Device name       Device serial number         Completion Status (Passcode Length	
Device name Device serial number Completion Status (Passcode Length	
Device serial number Completion Status (Passcode Length	
Completion Status (Passcode Length	
Changed)	
110 Custom Authentication Login UserName	
Device name	
Device serial number	
Completion Status (Success or Failed)	
111 Custom Authentication UserName	
Enable/Disable/Configure Device name	
Device serial number	
Completion Status	
(Enabled/Disabled/Configured)       112     Billing Impression Mode       UserName	
112 Billing Impression Mode UserName Device name	
Device serial number	
Mode Set to (A4 Mode, A3 Mode	
Completion Status (Success, Failed	
Impression data	
113 Airprint Enable/Disable/Configure UserName	
Device name	
Device serial number	
Completion Status	
(Enabled/Disabled/Configured)	
114 Device cloning UserName	
enable / disable Device name	
Device serial number	
Completion Status	
Enable / Disable	
115 Save for reprint job UserName	
Device name	
Device serial number	
Completion Status	
(Standard Access, Open Access, Restricted)	
116 Web UI Access/Configure UserName Device name	
Device serial number	
Completion Status	
(Standard Access, Open Access, Restricted)	
117   System log push to Xerox   Username if authenticated	
Server destination URL	
Log identifier string (filename)	

119	Scan to WebDAV	lob nomo
119		Job name
	Job	User Name
		Completion Status
		IIO status
		Accounting User ID-Name
		Accounting Account ID-Name
		WebDAV destination.
120	Mopria Print	UserName
	enable / disable	Device name
		Device serial number
		Completion Status
		Enable / Disable
121	PoS credit card API enable /	UserName
	disable	Device name
		Device serial number
		Completion Status
		Enable / Disable
122	PoS CC data transfer	Job name or number
	data transfer	Machine Name
		Machine serial number
		Destination server
		Completion status (Success / Fail)
124	Invalid Login Attempt	Device name
	Lockout	Device serial number
		Interface (Web UI, Local UI)
		Session IP Address if available
125	Protocol audit Log enable/Disable	UserName
_		Device Name
		Device serial number
		Completion Status
		Enable / Disable
126	Display Device information	UserName
.20	configure	Device Name
	gui e	Device serial number
		Completion Status
		(Configured)
127	Invalid Login Lockout	Device name
121	Expires	Device serial number
	Lypnes	Interface (Web UI)
		Session IP Address if available
		Count of invalid attempts: "attempts xx" where xx =
100	Erase Customer Data	the number of attempts.
128	Erase Customer Data	Erase Customer Data
		Device serial number
4.00		Success / Failed
129	Audit log SFTP scheduled	UserName
	Configure	Device Name
		Device serial number
		Completion status (Enable/Disable/Configured)

400		
130	Audit Log SFTP Transfer	UserName
		Device Name
		Device serial number
		Destination server
		Completion Status
		(File Transmitted)
131	Remote Software	UserName
	Download	Device name
	Enable Disable	Device serial number
		Completion Status (Enable/Disable)
132	Airprint & Mopria Scanning	UserName
	Enable/Disable/Configure	Device Name
		Device serial number
		Completion Status
		(Enable/Disable/Configured)
133	Airprint & Mopria Scan Job	Job name (if accepted)
	Submitted	UserName (if available)
		IP address of submitting client
		Device name
		Device serial number
		Completion status
		(accept/reject request)
134	Airprint & Mopria Scan Job	Job name
	Completed	UserName (if available)
		Completion status
136	Remote Services NVM Write	Device Name
		Device Serial
		Completion Status (Success-Fail)
137	Remote Services FIK Install	Device Name
		Device Serial
		Completion Status (Success-Fail)
		User-readable names for the features being installed
138	Remote Services Data Push	Device Name
100		Device Serial
		Completion Status (Success-Fail)
139	Remote Services	User Name,
		Device Name,
		Device Serial
		Status: ("Enabled" / "Disabled")
140	Restore enable/disable	User Name
		Device name
		Device serial number
		Completion status
		Enable / Disable
141	Backup-Restore	File Name
1 7 1	file downloaded	User Name
		Interface (WebUI)
		IP Address of the destination (if applicable)
		Completion Status (Success or Failed)

4.40	Dealure Deatara	File Nome
142	Backup-Restore	File Name
	restore installed	User name
		Device name
		Device IP address
		Interface (WebUI)
		Completion Status (Success or Failed)
143	Google Cloud Services	User name
		Device name
		Device serial number
		Completion Status-(Enabled / Disabled / Configured)
144	User or Group Role	User name
	Assignment	Device name
	5	Device serial number
		User or group name (assigned)
		Role name
		Action (added/removed)
145	User Permission Role	User name
140		Device name
		Device serial number
		Role name
		Completion status (Created / Deleted / Configured)
146	Admin Deserverd Deliev Configure	
140	Admin Password Policy Configure	User name
		Device name
4.47		Device serial number
147	Local user account password	User name
	policy	Device name
		Device serial number
148	Restricted admin login	User name
		Device name
		Device serial number
		Completion status: "Success" or "Failed"
149	Grant / revoke restricted admin	User name (of user making the change)
	rights	Device name
		Device serial number
		User name (of target user)
		Action: "Grant" or "Revoke"
150	Manual session logout	Device Name
	_	Device Serial Number
		Interface (Web, LUI, CAC)
		User Name (who was logged out)
		Session IP (if available)
151	IPP Enable/Disable/Configure	User name
-		Device name
		Device serial number
		Completion status: ("Enabled" / "Disabled" /
		"Configured")
152	HTTP Proxy Server	User name
152	Enable/Disable/Configure	Device name
		Device serial number
		Completion status: ("Enabled" / "Disabled" /
		"Configured")

150	Domoto Convisoo Cofficiento	Device Name
153	Remote Services Software	Device Name
	Download	Device Serial number
		File Name
154	Restricted Admin Permission Role	User name
		Device name
		Device serial number
		Restricted admin role name
		Completion status (Created / Deleted / Configured)
155	EIP Weblet Installation Security	User name
	Policy	Device name
	, ,	Device serial number
		Policy: ("allow installation of encrypted Weblets" / "
		allow installation of both encrypted and unencrypted
		Weblets"
159	Send Engineering Logs on Data	User name (if available)
100	Push	Device name
		Device serial number
		Current setting ("Enabled" / "Disabled")
160	Allow the Print Submission of	
100		UserName (if available)
	Clone Files	Device name
		Device serial numberCompletion status: ("Enabled" /
		"Disabled")
161	Network Troubleshooting Start,	User name
	Stop	Device Name
		Device Serial Number
		Completion Status ("Started", "Stopped")
162	Network Troubleshooting Data	User name
	Download	File name (of downloaded file)
		Device Name
		Device Serial Number
		Destination (IP address)
		Completion Status ("Success" / "Failed")
163	dns-sd text file download	User name
		File name (of downloaded file)
		Device Name
		Device Serial Number
		Destination (IP address)
		Completion Status ("Success" / "Failed")
164	One-Touch App Management	User Name
		Device name
		Device serial number
		Onetouch application Display Name
		Action ("Install" / "Un-install")
		Completion: ("Success" / "Failed")
165	SMB Browse	User name
105		Device name
		Device serial number
		Completion status: ("Enabled" / "Disabled" /
4.00		"Configured")
166	Job Data Removal Standard	Device name
	started	Device serial number

167	Job Data Removal Standard	Device name
107	complete	Device serial number
	complete	Completion Status ("Success" / "Failed")
		Completion Status ( Success / Tailed )
168	Job Data Removal Full started	Device name
		Device serial number
169	Job Data Removal Full complete	Device name
		Device serial number
		Completion Status ("Success" / "Failed")
170	Scheduled Job Data Removal	User Name
	Configure	Device name
		Device serial number
		Status ("Enable"/"Disable"/"Configured")
171	Cross-Origin-Resource-Sharing	User Name
	(CORS)	Device name
		Device serial number
		Status ("Enable"/"Disable")
172	One-Touch App Export	User name
		Device name
		Device serial number
1=0		Completion Status: ("Success"   "Failed")
173	Device File Distribution Trust	User name
	Operations	Device name
		Device serial number
		Member name
		Member serial number
		TC Lead Device Name TC Lead Serial Number
		Trust operation: ("Grant"   "Revoke")
		Completion status: ("Success"   "Failed")
174	Device File Distribution Feature	User name
1/4	Device The Distribution Teature	Device name
		Device serial number
		Trust operation: ("Enable"   "Disable"   "Configure")
		Completion status: ("Success"   "Failed")
175	Device File Distribution - Store File	User name
	for Distribution	Device name
		Device serial number
		File type: ("SWUP"   "Clone"   "Add-On")
		File name
176	Xerox Configuration Watchdog	User name
		Device Name
		Device Serial number
477	Veren Orefining Metal I	Completion status: ("Enabled"   "Disabled")
177	Xerox Configuration Watchdog	User name (if available. "SYSTEM", if executed as a
	Check Complete	scheduled event)
		Device name Device serial number
		Completion status ("Success"   "Failed")

178	Xerox Configuration Watchdog Remediation Complete	User name (if available. "SYSTEM", if executed as a scheduled event)
		Device name
		Device serial number
		Completion status ("Success"   "Failed")
179	ThinPrint Feature	User Name
		Device name
		Device serial number
		Completion Status: ("Enabled"   "Disabled"   "Configured")
180	Beaconing for "iBeacon for AirPrint	User Name
	Discovery"	Device name
		Device serial number
		Completion Status: ("Enabled"   "Disabled")
181	Network Troubleshooting Install,	User Name
	Uninstall	Device name
		Device serial number
		Completion Status: ("Installed"   "Uninstalled")
182	POP3 Connection Encryption	User Name
	(TLS)	Device name
		Device serial number
		Completion Status: ("Enabled"   "Disabled"   "Configured")
183	FTP Browse	User Name
100		Device name
		Device serial number
		Completion Status: ("Enabled"   "Disabled"
		"Configured")
184	SFTP Browse	User Name
		Device name
		Device serial number
		Completion Status: ("Enabled"   "Disabled"
		"Configured")

# VersaLink® Security Events

ID	Event	Description
101	Started normally (cold boot)	
101	Started normally (warm boot)	
101	Started (NVM initialized)	
101	Started (Hard Disk initialized)	
101	Shutdown requested	
101	Image Overwriting started	Completion: ("Success" / "Failed") Scheduled On Demand
101	Image Overwriting finished	Completion: ("Success" / "Failed")
101	Self-Test	Completion: ("Success" / "Failed") CheckSum of ROM image 1 CheckSum of ROM image 2
201	Login	User name Completion: ("Success" / "Failed Invalid User ID" / "Failed Invalid Password" / "Failed") Host Name or IP Address Method: ("Local" / "Remote" / "Convenience", "Custom") Role: ("System Administrator" / "Customer Engineer" / "Casual Operator")
201	Logout	User name Completion: ("Success" / "Failed")
201	Locked System Administrator Authentication	Count of Remaining Authentication Failures
201	Detected Continuous Authentication Fail	User name Protocol: ("SNMPv3" / "EWS") Count of Remaining Authentication Failures
301	Audit Log	User name Completion: ("Enabled" / "Disabled")
401	Print	User name Completion: ("Completed" / "Completed with Warnings" / "Cancelled by User"/ "Cancelled by Shutdown"/ "Aborted"/ "Unknown") Root Job UUID Relation: ("Related" / "Owned") Job Accounting ID Action Details Host Name or IP Address

		File Name
401	Сору	Action Details
401	Scan	Encrypted, Signed, Destination Name, Sender Name
401	Fax	Action Details, Destination Name, Sender Name
401	Mailbox	Action Details
401	Print Reports	
401	Job Flow Service	
501	Adjust Time	Completion: ("Success" / "Failed")
501	Add User	User name User Role
501	Edit User	User name User Role ID Password CardID Name Permission Role ICCardID Other
501	Delete User	User Name
501	Create Mailbox	Host Name or IP Address Box Number
501	Delete Mailbox	
501	Switch Authentication Mode	Completion: ("Success") New Setting Previous Setting
501	Change Security Setting	Authentication Accounting Image Overwrite HDD Encryption SSL S/MIME IPSEC SNMPv3 802.1x Certificate Verify Mode Maintainer Password SmartCard FIPS140 Self Test

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		Auto Clear Timer Service Rep. Restricted Operation Print Reports Button External Code Integrity Check Authorization NFC
501	View Security Setting	Access Method: ("Local" / "EWS") Host Name or IP Address
501	Change Contract Type	User name Completion: ("Success" / "Failed" / "Aborted")
501	Change Geographic Region	
501	Enter Activation Code	Completion: ("Success")
501	Change Job Setting	Completion: ("Success") Function Name: ("Delay Print" / "Private Print")
601	Change Billing Impression Mode	Completion: ("Success" / "Failed") Designated Mode ("A3 Mode" / "A4 Mode") Billing Meter Values
601	Import Certificate	User name Completion: ("Success" / "Failed") Category: ("RootCA" / "DeviceEE" / "SSCEE") Key Size Issuer DN Serial Number
601	Delete Certificate	
601	Add Address Entry	Host Name or IP Address Registration Number
601	Delete Address Entry	
601	Edit Address Entry	
601	Import Address Book	Host Name or IP Address
601	Export Address Book	
601	Clear Address Book	Host Name or IP Address
601	Export Audit Log	
601	Install Custom Service	Completion: ( "Failed") Host Name or IP Address Custom Service Name
601	Install Embedded Plug-in	Host Name or IP Address Plugin File Name
601	Export Cloning Data	Completion: ("Success" / "Failed")

		Category: ("Apps" / "Contacts" / "Connectivity"/ "Permissions"/ "System")
601	Import Cloning Data	
701	Important Parts	Completion: ("Replaced")
701	Hard Disk	Completion: ("Replaced" / "Installed" / "Removed")
701	Software	Completion: ("Updated") ROM Type: ("IOT" / "UI"/ "Controller"/ "FAX") New Version Previous Version
701	Trusted Communication	Completion: ("Failed") Protocol Name: ("SSL/TLS" / "IPSEC"/ "S/MIME")

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