

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Canon Medical Informatics A/S Vitrea Read 8.5 2023.03.017 20-Mar-2023

Overtion ID	Quarties		Saamata
Question ID	Question	Con an Madical Information A/C	See note
DOC-1	Manufacturer Name	Canon Medical Informatics A/S Software	_
DOC-2	Device Description		_
DOC-3 DOC-4	Device Model	Vitrea Read 8.5	_
DOC-4	Document ID	2023.03.017	_
		Krumtappen 4, Etage 3, 2500 Valby,	
DOC-5	Manufacturer Contact Information	Denmark - Marcel Lantinga	
	Intended use of device in network-connected		_
DOC-6	environment:	See Notes	Note 22
DOC-7	Document Release Date	2023-03-20	_
	Coordinated Vulnerability Disclosure: Does the		
	manufacturer have a vulnerability disclosure program		
DOC-8	for this device?	Yes	_
DOC 0	ISAO: Is the manufacturer part of an Information	No	
DOC-9	Sharing and Analysis Organization?	No	_
	Diagram: Is a network or data flow diagram available		
	that indicates connections to other system		
DOC-10	components or expected external resources?	Yes	
	SaMD: Is the device Software as a Medical Device (i.e.		_
DOC-11	software-only, no hardware)?	Yes	_
DOC-11.1	Does the SaMD contain an operating system?	No	_
	Does the SaMD rely on an owner/operator provided		
DOC-11.2	operating system?	Yes	_
	Is the SaMD hosted by the manufacturer?		
DOC-11.3		No	
DOC-11.4	Is the SaMD hosted by the customer?	Yes	_
		Yes, No,	
		N/A, or	
	MANAGEMENT OF PERSONALLY IDENTIFIABLE	See Note	Note #
	INFORMATION		
	INFORMATION		
	Can this device display, transmit, store, or modify		
	personally identifiable information (e.g. electronic		
MPII-1	Protected Health Information (ePHI))?	Yes	
2	Does the device maintain personally identifiable		_
MPII-2	information?	No	
	Does the device maintain personally identifiable		
	information temporarily in volatile memory (i.e., until		
MPII-2.1	cleared by power-off or reset)?	Yes	_
	Does the device store personally identifiable		
MPII-2.2	information persistently on internal media?	Yes	
	Is personally identifiable information preserved in the		
MPII-2.3	device's non-volatile memory until explicitly erased?	No	Note 23
2.5	Does the device store personally identifiable		1000 25
MPII-2.4	information in a database?	Yes	
	Does the device allow configuration to automatically		
	delete local personally identifiable information after		
MPII-2.5	it is stored to a long term solution?	No	_
	Bookhadada tara da a a a a a a a a a a a a a a a a a		
	Does the device import/export personally identifiable		
	information with other systems (e.g., a wearable		
MPII-2.6	monitoring device might export personally identifiable information to a server)?	Yes	
WII 11-2.0	Does the device maintain personally identifiable	163	_
	information when powered off, or during power		
MPII-2.7	service interruptions?	Yes	_
	Does the device allow the internal media to be		
	removed by a service technician (e.g., for separate		
MPII-2.8	destruction or customer retention)?	Yes	_
	Does the device allow personally identifiable		
	information records be stored in a separate location		
	from the device's operating system (i.e. secondary		
MPII-2.9	internal drive, alternate drive partition, or remote storage location)?	Yes	
11 2.3	Does the device have mechanisms used for the	.03	
	transmitting, importing/exporting of personally		
MPII-3	identifiable information?	Yes	_
	Does the device display personally identifiable		
MPII-3.1	information (e.g., video display, etc.)?	Yes	_

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2023.03.017 20-Mar-2022 Canon Medical Informatics A/S Does the device generate hardcopy reports or images MPII-3.2 containing personally identifiable information? Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable- ${\rm HDD,\, USB\,\, memory,\, DVD\text{-}R/RW, CD\text{-}R/RW,\, tape,\, CF/SD}$ MPII-3.3 card, memory stick, etc.)? Does the device transmit/receive or import/export personally identifiable information via dedicated cable connection (e.g., RS-232, RS-423, USB, FireWire, MPII-3.4 etc.)? Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)? MPII-3.5 Yes Does the device transmit/receive personally identifiable information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared, MPII-3.6 cellular, etc.)? Yes Inherited from customer network configuration Does the device transmit/receive personally identifiable information over an external network MPII-3.7 (e.g., Internet)? Inherited from customer network configuration Yes Does the device import personally identifiable MPII-3.8 information via scanning a document? No Does the device transmit/receive personally MPII-3.9 identifiable information via a proprietary protocol? Does the device use any other mechanism to transmit, import or export personally identifiable MPII-3.10 information? Yes Note 20 Management of Private Data notes: AUTOMATIC LOGOFF (ALOF) The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password ALOF-1 protected screen saver)? Yes Is the length of inactivity time before auto-ALOF-2 logoff/screen lock user or administrator configurable? Yes **AUDIT CONTROLS (AUDT)** The ability to reliably audit activity on the device.

	Can the medical device create additional audit logs or		
AUDT-1	reports beyond standard operating system logs?	Yes	
AUDT-1.1	Does the audit log record a USER ID?	Yes	_
	Does other personally identifiable information exist in		
AUDT-1.2	the audit trail?	Yes	
	Are events recorded in an audit log? If yes, indicate		
	which of the following events are recorded in the		
AUDT-2	audit log:	Yes	_
AUDT-2.1	Successful login/logout attempts?	Yes	
AUDT-2.2	Unsuccessful login/logout attempts?	Yes	_
AUDT-2.3	Modification of user privileges?	No	
AUDT-2.4	Creation/modification/deletion of users?	No	
AUDT-2.5	Presentation of clinical or PII data (e.g. display, print)?	Yes	
AUDT-2.6	Creation/modification/deletion of data?	Yes	
	Import/export of data from removable media (e.g.		
AUDT-2.7	USB drive, external hard drive, DVD)?	Yes	
	Receipt/transmission of data or commands over a		
AUDT-2.8	network or point-to-point connection?	Yes	
AUDT-2.8.1	Remote or on-site support?	No	
	Application Programming Interface (API) and similar		
AUDT-2.8.2	activity?	No	_
AUDT-2.9	Emergency access?	No	
AUDT-2.10	Other events (e.g., software updates)?	Yes	_
AUDT-2.11	Is the audit capability documented in more detail?	See Notes	Note 1
	Can the owner/operator define or select which events		
AUDT-3	are recorded in the audit log?	No	

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AUDT-4 AUDT-4.1	Is a list of data attributes that are captured in the audit log for an event available? Does the audit log record date/time?	See Notes Yes	Note 2	
AUDT-4.1.1 AUDT-5	Can date and time be synchronized by Network Time Protocol (NTP) or equivalent time source?	Yes See Notes	— Note 3	
AUDT-5.1	Can audit log content be exported? Via physical media?	Yes	Note 5	
	Via IHE Audit Trail and Node Authentication (ATNA)		_	
AUDT-5.2	profile to SIEM? Via Other communications (e.g., external service	See Notes	Note 4	
AUDT-5.3	device, mobile applications)?	No	_	
ALIDT 5.4	Are audit logs encrypted in transit or on storage	Ver		
AUDT-5.4	media? Can audit logs be monitored/reviewed by	Yes	_	
AUDT-6	owner/operator?	See Notes	Note 5	
AUDT-7	Are audit logs protected from modification?	Yes		
AUDT-7.1 AUDT-8	Are audit logs protected from access? Can audit logs be analyzed by the device?	Yes No		
AUDI-0	can addit logs be analyzed by the device:	INO		
	AUTHORIZATION (AUTH) The ability of the device to determine the			
	authorization of users.			
	Does the device prevent access to unauthorized users through user login requirements or other			
AUTH-1	mechanism?	Yes	_	
	Can the device be configured to use federated			
AUTH-1.1	credentials management of users for authorization (e.g., LDAP, OAuth)?	Yes		
	Can the customer push group policies to the device		_	
AUTH-1.2	(e.g., Active Directory)? Are any special groups, organizational units, or group	See Notes	Note 6	
AUTH-1.3	policies required?	Yes	_	
	Can users be assigned different privilege levels based			
AUTH-2	on 'role' (e.g., user, administrator, and/or service, etc.)?	Yes		
A0111-2	etc.j:	163	-	
	Can the device owner/operator grant themselves			
	unrestricted administrative privileges (e.g., access operating system or application via local root or			
AUTH-3	administrator account)?	Yes	_	
ALITU A	Does the device authorize or control all API access	Con Notos	Note 7	
AUTH-4	requests? Does the device run in a restricted access mode, or	See Notes	Note 7	
AUTH-5	'kiosk mode', by default?	No	_	
	CYBER SECURITY PRODUCT UPGRADES (CSUP) The ability of on-site service staff, remote service			
	staff, or authorized customer staff to install/upgrade device's security patches.			
	Does the device contain any software or firmware			
	which may require security updates during its operational life, either from the device manufacturer			
	or from a third-party manufacturer of the			
CSUP-1	software/firmware? If no, answer "N/A" to questions in this section.	Yes		
C30L-1	Does the device contain an Operating System? If yes,	163	_	
CSUP-2	complete 2.1-2.4.	Yes	_	
	Does the device documentation provide instructions for owner/operator installation of patches or			
CSUP-2.1	software updates?	Yes	_	
CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	No		
	22 22 mazzar paterios or sortifare apartes.		_	
CCLID 2 2	Does the device have the capability to receive remote			
CSUP-2.3	installation of patches or software updates? Does the medical device manufacturer allow security	Yes	-	
	updates from any third-party manufacturers (e.g.,			
CCLID 2.4	Microsoft) to be installed without approval from the	Vee		
CSUP-2.4	manufacturer? Does the device contain Drivers and Firmware? If yes,	Yes	-	
CSUP-3	complete 3.1-3.4.	No	Note 24	
	Does the device documentation provide instructions			
CSUP-3.1	for owner/operator installation of patches or software updates?	N/A		
			_	

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	Does the device require vendor or vendor-authorized		
CSUP-3.2	service to install patches or software updates?	N/A	_
	Does the device have the capability to receive remote		
CSUP-3.3	installation of patches or software updates?	N/A	
	Does the medical device manufacturer allow security		_
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-3.4	manufacturer?	N/A	_
00115.4	Does the device contain Anti-Malware Software? If		
CSUP-4	yes, complete 4.1-4.4. Does the device documentation provide instructions	No	_
	for owner/operator installation of patches or		
CSUP-4.1	software updates?	N/A	
			_
	Does the device require vendor or vendor-authorized		
CSUP-4.2	service to install patches or software updates?	N/A	_
	Does the device have the capability to receive remote		
CSUP-4.3	installation of patches or software updates?	N/A	_
	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-4.4	manufacturer?	N/A	
	Does the device contain Non-Operating System		_
	commercial off-the-shelf components? If yes,		
CSUP-5	complete 5.1-5.4.	Yes	_
	Does the device documentation provide instructions		
0010 5 4	for owner/operator installation of patches or		
CSUP-5.1	software updates?	See Notes	Note 8
	Does the device require vendor or vendor-authorized		
CSUP-5.2	service to install patches or software updates?	Yes	
			_
	Does the device have the capability to receive remote		
CSUP-5.3	installation of patches or software updates?	Yes	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g.,		
CCUD E 4	Microsoft) to be installed without approval from the	Voc	
CSUP-5.4	manufacturer?	Yes	_
	Does the device contain other software components		
	(e.g., asset management software, license		
	management)? If yes, please provide details or		
CSUP-6	refernce in notes and complete 6.1-6.4.	No	_
	Does the device documentation provide instructions		
CCUD C 1	for owner/operator installation of patches or	N/A	
CSUP-6.1	software updates?	N/A	_
	Does the device require vendor or vendor-authorized		
CSUP-6.2	service to install patches or software updates?	N/A	_
	Does the device have the capability to receive remote		
CSUP-6.3	installation of patches or software updates?	N/A	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the		
CSUP-6.4	manufacturer?	N/A	
	Does the manufacturer notify the customer when	.,	_
CSUP-7	updates are approved for installation?	See Notes	Note 9
	Does the device perform automatic installation of		
CSUP-8	software updates?	See Notes	Note 10
	Describe and factorists		
CCLID O	Does the manufacturer have an approved list of third-	No	
CSUP-9	party software that can be installed on the device? Can the owner/operator install manufacturer-	No	_
	approved third-party software on the device		
CSUP-10	themselves?	Yes	
	Does the system have mechanism in place to prevent		_
CSUP-10.1	installation of unapproved software?	No	_
	Does the manufacturer have a process in place to		
CSUP-11	assess device vulnerabilities and updates?	Yes	_
CCLID 11 1	Does the manufacturer provide customers with	No	
CSUP-11.1 CSUP-11.2	review and approval status of updates? Is there an update review cycle for the device?	No No	_
	is allere all aparate review cycle for the device:		_

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DIDT-1.1

DTBK-1

DTBK-2

DTBK-3

DTBK-4

DTBK-5

DTBK-6

EMRG-1

IGAU-1

IGAU-2

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No

No

No

No

Nο

HEALTH DATA DE-IDENTIFICATION (DIDT)

The ability of the device to directly remove information that allows identification of a person.

Does the device provide an integral capability to de-DIDT-1 identify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for de-

identification?

Yes See Notes Note 11

DATA BACKUP AND DISASTER RECOVERY (DTBK)

The ability to recover after damage or destruction of device data, hardware, software, or site configuration

Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)? Does the device have a "factory reset" function to restore the original device settings as provided by the

manufacturer? Does the device have an integral data backup capability to removable media?

Does the device have an integral data backup capability to remote storage? Does the device have a backup capability for system

configuration information, patch restoration, and software restoration?

Does the device provide the capability to check the integrity and authenticity of a backup?

No

EMERGENCY ACCESS (EMRG)

The ability of the device user to access personally identifiable information in case of a medical emergency situation that requires immediate access to stored personally identifiable information. Does the device incorporate an emergency access (i.e.

"break-glass") feature?

HEALTH DATA INTEGRITY AND AUTHENTICITY

How the device ensures that the stored data on the device has not been altered or destroyed in a nonauthorized manner and is from the originator. Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)? Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g.,

N/A N/A

MALWARE DETECTION/PROTECTION (MLDP)

The ability of the device to effectively prevent, detect and remove malicious software (malware).

MLDP-1 Is the device capable of hosting executable software? Yes Does the device support the use of anti-malware software (or other anti-malware mechanism)? MLDP-2 Provide details or reference in notes. See Notes Note 12 Does the device include anti-malware software by MI DP-2 1 default? Nο Does the device have anti-malware software available MLDP-2.2 as an option? Does the device documentation allow the

owner/operator to install or update anti-malware MLDP-2.3 software? Can the device owner/operator independently (re-MLDP-2.4)configure anti-malware settings?

RAID-5)?

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No

No



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MLDP-2.5	Does notification of malware detection occur in the device user interface?	No	
	Can only manufacturer-authorized persons repair		
MLDP-2.6	systems when malware has been detected?	Yes	
MLDP-2.7	Are malware notifications written to a log?	N/A	
MLDP-2.8	Are there any restrictions on anti-malware (e.g., purchase, installation, configuration, scheduling)?	Yes	
	If the answer to MLDP-2 is NO, and anti-malware		
	cannot be installed on the device, are other		
MLDP-3	compensating controls in place or available?	No	
	, ,		_
	Does the device employ application whitelisting that		
	restricts the software and services that are permitted		
MLDP-4	to be run on the device?	No	_
MIDDE	Does the device employ a host-based intrusion	Con Nation	Nate 12
MLDP-5	detection/prevention system?	See Notes	Note 13
	Can the host-based intrusion detection/prevention		
MLDP-5.1	system be configured by the customer?	Yes	
	· ·		
	Can a host-based intrusion detection/prevention		
MLDP-5.2	system be installed by the customer?	Yes	_
	NODE AUTHENTICATION (NAUT)		
	The ability of the device to authenticate		
	communication partners/nodes.		
	Does the device provide/support any means of node		
	authentication that assures both the sender and the		
	recipient of data are known to each other and are		
	authorized to receive transferred information (e.g.		
NAUT-1	Web APIs, SMTP, SNMP)?	Yes	_
	A so make and a second southern the second s		
	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use		
NAUT-2	a network connection white list)?	No	_
	Is the firewall ruleset documented and available for		
NAUT-2.1	review?	N/A	_
NAUT-3	Does the device use certificate-based network connection authentication?	No	
NAUT-3	connection authentication:	NO	_
	CONNECTIVITY CAPABILITIES (CONN)		
	All network and removable media connections must		
	be considered in determining appropriate security		
	controls. This section lists connectivity capabilities		
	that may be present on the device.		
CONN-1	Does the device have hardware connectivity capabilities?	Yes	Note 27
CONN-1.1	Does the device support wireless connections?	Yes	_
CONN-1.1.1	Does the device support Wi-Fi?	Yes	_
CONN-1.1.2	Does the device support Bluetooth?	No	_
	Does the device support other wireless network		
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	No	
	, (1.g. 1.2, 2.5x20, p. oprictory).		
	Does the device support other wireless connections		
CONN-1.1.4	(e.g., custom RF controls, wireless detectors)?	No	_
CONN-1.2	Does the device support physical connections?	Yes	_
CONN 1 2 1	Door the device have evellable BIAS 5th and the Co.	Voc	
CONN-1.2.1 CONN-1.2.2	Does the device have available RJ45 Ethernet ports? Does the device have available USB ports?	Yes Yes	_
001111 I.L.L	Does the device require, use, or support removable		_
CONN-1.2.3	memory devices?	Yes	_
CONN-1.2.4	Does the device support other physical connectivity?	Yes	_
	Does the manufacturer provide a list of network ports		
CONN-2	and protocols that are used or may be used on the device?	Yes	
-	Can the device communicate with other systems		_
CONN-3	within the customer environment?	Yes	_
	Can the device communicate with other systems		
CONN-4	external to the customer environment (e.g., a service host)?	Voc	
CONN-5	Does the device make or receive API calls?	Yes Yes	_
-	 		_

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CONN-6	Does the device require an internet connection for its intended use?	No	_
CONN-7	Does the device support Transport Layer Security	Vee	
CONN-7.1	(TLS)? Is TLS configurable?	Yes Yes	_
CONT 7.1	Does the device provide operator control	163	
	functionality from a separate device (e.g.,		
CONN-8	telemedicine)?	Yes	_
	PERSON AUTHENTICATION (PAUT)		
	The ability to configure the device to authenticate users.		
	Does the device support and enforce unique IDs and passwords for all users and roles (including service		
PAUT-1	accounts)?	Yes	_
	Does the device enforce authentication of unique IDs		
	and passwords for all users and roles (including		
PAUT-1.1	service accounts)?	Yes	_
	Is the device configurable to authenticate users		
	through an external authentication service (e.g., MS		
PAUT-2	Active Directory, NDS, LDAP, OAuth, etc.)?	Yes	_
	la blanda via a santiavus bla ballant avib a vasu aftar a		
PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	No	Note 25
17.013	Are all default accounts (e.g., technician service		11010 25
	accounts, administrator accounts) listed in the		
PAUT-4	documentation?	Yes	_
PAUT-5	Can all passwords be changed?	Yes	_
	Is the device configurable to enforce creation of user		
	account passwords that meet established		
PAUT-6	(organization specific) complexity rules?	See Notes	Note 14
	Does the device support account passwords that		
PAUT-7	expire periodically?	No	Note 14
PAUT-8	Does the device support multi-factor authentication?	No	
PAUT-9	Does the device support single sign-on (SSO)?	Yes	_
PAUT-10	•	No	Note 25
PAUT-11	Does the device support biometric controls? Does the device support physical tokens (e.g. badge	No	_
PAUT-12	access)?	No	_
	Does the device support group authentication (e.g.		
PAUT-13	hospital teams)?	No	_
PAUT-14	Does the application or device store or manage authentication credentials?	See Notes	Note 15
PAUT-14.1	Are credentials stored using a secure method?	See Notes	Note 15 Note 15
	PHYSICAL LOCKS (PLOK)		
	Physical locks can prevent unauthorized users with		
	physical access to the device from compromising the integrity and confidentiality of personally identifiable		
	information stored on the device or on removable		
	media		
DI OV. 4	Is the device software only? If yes, answer "N/A" to		
PLOK-1	remaining questions in this section. Are all device components maintaining personally	Yes	_
	identifiable information (other than removable		
	media) physically secure (i.e., cannot remove without		
PLOK-2	tools)?	N/A	_
	Are all device components maintaining personally		
	identifiable information (other than removable media) physically secured behind an individually		
PLOK-3	keyed locking device?	N/A	
	Does the device have an option for the customer to		
	attach a physical lock to restrict access to removable		
PLOK-4	media?	N/A	_

ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)

Manufacturer's plans for security support of thirdparty components within the device's life cycle.

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RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	_
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices? Does the manufacturer maintain a web page or other	Yes	_
RDMP-3	source of information on software support dates and updates? Does the manufacturer have a plan for managing	Yes	_
RDMP-4	third-party component end-of-life?	Yes	_
	SOFTWARE BILL OF MATERIALS (SBoM) A Software Bill of Material (SBoM) lists all the software components that are incorporated into the device being described for the purpose of operational security planning by the healthcare delivery organization. This section supports controls in the		
SBOM-1	RDMP section. Is the SBoM for this product available? Poor the SBoM follows standard or common method.	Yes	-
SBOM-2	Does the SBoM follow a standard or common method in describing software components?	Yes	_
SBOM-2.1	Are the software components identified? Are the developers/manufacturers of the software	Yes	_
SBOM-2.2	components identified? Are the major version numbers of the software	Yes	_
SBOM-2.3	components identified?	Yes	_
SBOM-2.4	Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software	Yes	_
SBOM-3 SBOM-4	components installed on the device? Is there an update process for the SBoM?	No Yes	_
	SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and malware. Is the device hardened in accordance with any		
SAHD-1	industry standards? Has the device received any cybersecurity	No	_
SAHD-2	certifications? Does the device employ any mechanisms for software	No	_
SAHD-3	integrity checking Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.)	Yes	_
SAHD-3.1	to ensure the installed software is manufacturer- authorized?	No	_
	Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer-		
SAHD-3.2	authorized updates?	No	_
SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the implementation of file-level, patient level, or other	See Notes	Note 16
SAHD-5	types of access controls?	No	_
SAHD-5.1	Does the device provide role-based access controls?	Yes	_
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery? Are any system or user accounts configurable by the	No	_
SAHD-6.1	end user after initial configuration? Does this include restricting certain system or user	Yes	_
SAHD-6.2	accounts, such as service technicians, to least privileged access? Are all shared resources (e.g., file shares) which are not required for the intended use of the device	See Notes	Note 21
SAHD-7	disabled? Are all communication ports and protocols that are	Yes	_
SAHD-8	not required for the intended use of the device disabled?	Yes	

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SAHD-9	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device deleted/disabled? Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of the	Yes	_
SAHD-10	device deleted/disabled?	No	_
	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal		
SAHD-11	drive or memory component)?	N/A	_
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	Yes	_
SAHD-13	Does the product documentation include information on operational network security scanning by users?	No	_
SAHD-14	Can the device be hardened beyond the default provided state?	Yes	_
SAHD-14.1	Are instructions available from vendor for increased hardening?	No	
SHAD-15	Can the system prevent access to BIOS or other	N/A	
21 IMD-T3	bootloaders during boot?	N/A	
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	_
	SECURITY GUIDANCE (SGUD) Availability of security guidance for operator and		
	administrator of the device and manufacturer sales and service.		
SGUD-1	Does the device include security documentation for the owner/operator?	Yes	Note 26
3G0D-1	Does the device have the capability, and provide	Tes	Note 26
SGUD-2	instructions, for the permanent deletion of data from the device or media?	No	
SGUD-3	Are all access accounts documented?	Yes	_
	Can the owner/operator manage password control		_
SGUD-3.1	for all accounts?	Yes	_
SGUD-4	Does the product include documentation on recommended compensating controls for the device?	No	_
	HEALTH DATA STORAGE CONFIDENTIALITY		
	(STCF)		
	The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information		
CTCE 1	stored on the device or removable media.	No	
STCF-1 STCF-1.1	Can the device encrypt data at rest? Is all data encrypted or otherwise protected?	No No	_
STCF-1.2	Is the data encryption capability configured by default?	No	
	Are instructions available to the customer to		
STCF-1.3	configure encryption?	No	
STCF-2	Can the encryption keys be changed or configured? Is the data stored in a database located on the	N/A	_
STCF-3	device?	Yes	Note 17
STCF-4	Is the data stored in a database external to the device?	Yes	Note 17
	TRANSMISSION CONFIDENTIALITY (TXCF)		
	The ability of the device to ensure the confidentiality of transmitted personally identifiable information.		
71/05 4	Can personally identifiable information be		
TXCF-1	transmitted only via a point-to-point dedicated cable?	No	_
TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media?	Yes	
	If data is not encrypted by default, can the customer		
TXCF-2.1	configure encryption options?	Yes	_

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TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	No	
TXCF-4	Are connections limited to authenticated systems?	See Notes	Note 18
	Are secure transmission methods		
TXCF-5	supported/implemented (DICOM, HL7, IEEE 11073)?	See Notes	Note 19
	TRANSMISSION INTEGRITY (TXIG) The ability of the device to ensure the integrity of transmitted data.		
	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified		
TXIG-1	during transmission?	Yes	Note 19
TXIG-2	Does the device include multiple sub-components connected by external cables?	Yes	_
	REMOTE SERVICE (RMOT)		
	Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.		
	Does the device permit remote service connections		
RMOT-1	for device analysis or repair?	Yes	_
	Does the device allow the owner/operator to		
	initiative remote service sessions for device analysis		
RMOT-1.1	or repair?	Yes	_
	Is there an indicator for an enabled and active remote		
RMOT-1.2	session?	N/A	_

Yes

Yes

No

OTHER SECURITY CONSIDERATIONS (OTHR)

Can patient data be accessed or viewed from the

Does the device permit or use remote service

connections for predictive maintenance data?

Does the device have any other remotely accessible functionality (e.g. software updates, remote training)?

device during the remote session?

NONE

RMOT-1.3

RMOT-2

RMOT-3

Notes:

Note 1	The audit trail follows the IHE ATNA profile
Note 2	The attributes captured in audit records are
	documented in DICOM PS 3.15 section A.5.3 "DICOM
	Specific Audit Messages"
Note 3	Vitrea Read can be configured to use a compliant
	external Audit Record Repository. This is
	recommended. The builtin Audit Record Repository
	has been removed in version 8.5.
Note 4	Audit messages can be routed via syslog RFC-3164 or
	RC-5424 with TLS encryption as per the IHE ATNA
	profile
Note 5	Audit records are sent to an Audit Record Repository
	that is external to the Vitrea Read product. The
	owner/operator of the Audit Record Repository can
N-t- C	view audit messages
Note 6	User privileges can be controlled via Active Directory groups
Note 7	A few select API end points are deliberately
	unauthenticated. For instance to allow uploading
	client logs.
Note 8	The COTS libraries shipped with Vitrea Read are
	updated with Vitrea Read releases and hotfixes.
	Updates of the (DB2) database are handled by Canon
	Medical Informatics CS engineers.
Note 9	OS level updates are generally allowed
Note 10	OS updates are not automatically triggered, but it
	only requires a single command to install all available updates.

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Note 11 Compliance with the DICOM standard for de-

identification has not been verified, but said standard has been the guideline for the implementation

Note 12 The customer may on request receive permission to

install anti-malware software on the servers that run

Vitrea Read

Note 13 The RHEL OS provides mechanisms that can be

configured. The Vitrea Read clients are installed on the customers PCs as normal unprivileged Windows applications. The security of these PCs is the

responsibility of the customer.

The system does not enforce any organizationally set Note 14

> password policy for complexity or expiration when configured to use local users. When configured to use Active Directory (the norm) the password policy is managed by Active Directory. Users cannot change

their password via Vitrea Read.

Note 15 Vitrea Read stores credentials for locally created

users, but not for Active Directory users.

The software is installed via MSIs on Windows and via Note 16

RPMs on Linux. The "rpm -V" can be used to check whether the installation has been tampered with, but there is no protection aganist tampering with the rpm

database itself.

Note 17 It is possible to use both a database managed as part

of Vitrea Read and an external database.

Image retrieval is possible from external Note 18

> unauthenticated sources. The Vitrea Read integration APIs is flexible and could be used to communicate with unauthenticated sources. Vitrea Read itself does

not provide unauthenticated access.

Note 19 All external systems accessed using the HTTP protocol

can be configured to use TLS (HTTPS). DICOM image

retrieval over TLS is not supported.

Vitrea Read receives and transmits personally Note 20

identifiable information via the DICOM protocol.

Note 21 Many administrative tasks can be managed via the

graphical user interface. Advanced tasks such as software upgrades and daemon configuration requires shell access. Shell access comes in only two levels - miaccess which can only view and root which

has full unrestricted access.

Note 22 Vitrea Read PACS system is a Diagnostic Softcopy

Reading software package to be used for primary diagnosis and clinical review of digital radiology

images (including digital breast

tomosynthesis/mammography). Vitrea Read allows diagnostic viewing of fused dual modality studies in a

single view.

Vitrea Read software is indicated for use by qualified healthcare professionals including, but not restricted to, radiologists, non-radiology specialists, physicians

and technologists.

The product interfaces to existing imaging equipment using the DICOM standard communication protocol. When viewing mammographic images and other medical images for diagnostic purposes the display monitors used must meet technical specifications and comply with the applicable country specific regulatory approvals and quality requirements. Lossy compressed mammographic images and digitized film

screen images must not be reviewed for primary image interpretations.

Vitrea Read does not permanently store or produce

original medical images or use irreversible

compression methods.

Vitrea Read is not intended to be used on tablets and

smartphones.

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Note 23

Note 24

Vitrea Read does not store patient or image related information in its own database. Only settings and preferences are stored. If Vitrea Read is not configured with Active Directory, Vitrea Read also has

information stored about users in its users database.
Vitrea Read is installed on servers, physical or virtual, acquired by the customer. The servers run RHEL and maintenance is done according to normal best practices. The operating system is not part of the

product.

Note 25 The standard enterprise deployment configuration

uses Active Directory, which may be configured to lock out users after a number of failed authentication attempts and which also has UI to disable user

accounts.

Note 26 The relevant documents are " Vitrea Read

Administration Guide" and "Vitrea Read Security

Manual"

Note 27

Vitrea Read is software and the server installations typically run on servers with wired ethernet. Client installations run on Windows PCs which can have any kind of network connectivity - wired and wireless

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