

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Canon Medical Informatics A/S Vitrea Read 8.4 2022.03.050 10-Mar-2022

	_		
Question ID	Question		See note
DOC-1	Manufacturer Name	Canon Medical Informatics A/S	_
DOC-2	Device Description	Software	_
DOC-3	Device Model	Vitrea Read 8.4	
DOC-4	Document ID	2022.03.050	
			_
		Krumtappen 4, Etage 3, 2500 Valby,	
DOC-5	Manufacturer Contact Information	Denmark Marcel Lantinga	
2003	Intended use of device in network-connected	Denmark Marcer Zantinga	_
DOC-6	environment:	See Notes	Note 22
DOC-7	Document Release Date	2022-03-10	
2007	Coordinated Vulnerability Disclosure: Does the	2022 03 10	-
	manufacturer have a vulnerability disclosure program		
DOC-8	for this device?	Yes	
DOC-8	ioi tilis device:	163	_
	ISAO: Is the manufacturer part of an Information		
DOC-9		Ne	
DOC-9	Sharing and Analysis Organization?	No	_
	Discussion to a material and data flow discussion and label.		
	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	
DOC-11.4	is the Salvid hosted by the customer:	les	_
		Voc No	
		Yes, No,	
		N/A, or See Note	Note #
	MANAGEMENT OF PERSONALLY IDENTIFIABLE	see Note	Note #
	INFORMATION		
	Can this device display, transmit, store, or modify		
	personally identifiable information (e.g. electronic		
MPII-1	Protected Health Information (ePHI))?	Yes	_
	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
	Does the device store personally identifiable		
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	
	Ç		_
	Does the device import/export personally identifiable		
	information with other systems (e.g., a wearable		
	monitoring device might export personally		
MPII-2.6	identifiable information to a server)?	Yes	
11 2.0	Does the device maintain personally identifiable		_
	information when powered off, or during power		
MPII-2.7	service interruptions?	Yes	
ivii (I ⁻ ∠./	Does the device allow the internal media to be	165	_
	removed by a service technician (e.g., for separate	Yes	
MDII 2 0			
MPII-2.8	destruction or customer retention)?	163	_

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2022.03.050 Canon Medical Informatics A/S Vitrea Read 8.4 10-Mar-2022 Does the device allow personally identifiable information records be stored in a separate location from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote MPII-2.9 storage location)? Yes Does the device have mechanisms used for the 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 Does the device generate hardcopy reports or images MPII-3.2 containing personally identifiable information? Yes Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable-HDD, USB memory, DVD-R/RW,CD-R/RW, tape, MPII-3.3 CF/SD card, memory stick, etc.)? Yes 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 No Does the device transmit/receive personally identifiable information via a wired network MPII-3.5 connection (e.g., RJ45, fiber optic, etc.)? Yes Does the device transmit/receive personally identifiable information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared, MPII-3.6 Inherited from customer network configuration cellular, etc.)? Yes Does the device transmit/receive personally identifiable information over an external network MPII-3.7 (e.g., Internet)? Yes Inherited from customer network configuration Does the device import personally identifiable MPII-3.8 No information via scanning a document? Does the device transmit/receive personally MPII-3.9 identifiable information via a proprietary protocol? Yes Does the device use any other mechanism to transmit, import or export personally identifiable MPII-3.10 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 autologoff/screen lock user or administrator ALOF-2 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 Does the audit log record a USER ID? AUDT-1.1 Yes Does other personally identifiable information exist AUDT-1.2 in 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

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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	_
AODI 2.4	creation/modification/deletion of daers:	140	_
AUDT-2.5	Presentation of clinical or PII data (e.g. display, print)?	Ves	
AUDT-2.6	Creation/modification/deletion of data?	Yes	_
AUD1-2.0		res	_
AUDT 2.7	Import/export of data from removable media (e.g.	V	
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		
AUDT-3	events are recorded in the audit log?	No	
7.65. 5	Is a list of data attributes that are captured in the		
AUDT-4	audit log for an event available?	See Notes	Note 2
	-		Note 2
AUDT-4.1	Does the audit log record date/time?	Yes	—
	Can date and time be synchronized by Network Time		
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	Yes	_
AUDT-5	Can audit log content be exported?	See Notes	Note 3
AUDT-5.1	Via physical media?	Yes	_
	Via IHE Audit Trail and Node Authentication (ATNA)		
AUDT-5.2	profile to SIEM?	See Notes	Note 4
	Via Other communications (e.g., external service		
AUDT-5.3	device, mobile applications)?	No	_
	Are audit logs encrypted in transit or on storage		
AUDT-5.4	media?	Yes	_
	Can audit logs be monitored/reviewed by		
AUDT-6	owner/operator?	See Notes	Note 5
AUDT-7	Are audit logs protected from modification?	Yes	
AUDT-7.1	Are audit logs protected from access?	Yes	
AUDT-8	Can audit logs be analyzed by the device?	No	
A001 0	can addit logs be allaryzed by the device:	No	
	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		
	credentials management of users for authorization		
AUTH-1.1	(e.g., LDAP, OAuth)?	Yes	_
	Can the customer push group policies to the device		
AUTH-1.2	(e.g., Active Directory)?	See Notes	Note 6
	Are any special groups, organizational units, or group		
AUTH-1.3	policies required?	Yes	
	Can users be assigned different privilege levels based		
	on 'role' (e.g., user, administrator, and/or service,		
AUTH-2	etc.)?	Yes	
	/-		_
	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)?	Vos	
AUTII-3	•	Yes	_
ALITH A	Does the device authorize or control all API access	See Notes	Note 7
AUTH-4	requests?	See Notes	Note 7

CYBER SECURITY PRODUCT UPGRADES (CSUP)

Does the device run in a restricted access mode, or

'kiosk mode', by default?

AUTH-5

The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.

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No



	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		
	software/firmware? If no, answer "N/A" to questions		
CSUP-1	in this section.	Yes	
	Does the device contain an Operating System? If yes,		_
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	
2.1	software apaates.	163	_
	Does the device require vendor or vendor-authorized		
CSUP-2.2	service to install patches or software updates?	No	
2.2	service to instail pateries or software aparates:	140	_
	Does the device have the capability to receive remote		
CSUP-2.3	installation of patches or software updates?	Yes	
C301 2.3	Does the medical device manufacturer allow security	163	_
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-2.4	manufacturer?	Yes	
C30F-2.4	Does the device contain Drivers and Firmware? If yes,	163	_
CSLID 3	complete 3.1-3.4.	No	Note 24
CSUP-3	•	No	Note 24
	Does the device documentation provide instructions		
CCLID 2.4	for owner/operator installation of patches or	N1/A	
CSUP-3.1	software updates?	N/A	_
COLUB 2 2	Does the device require vendor or vendor-authorized	21/2	
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	_
	Does the device contain Anti-Malware Software? If		
CSUP-4	yes, complete 4.1-4.4.	No	_
	Does the device documentation provide instructions		
	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		
	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.,		
	Microsoft) to be installed without approval from the		
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	
	p		_

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DIDT-1

DIDT-1.1

DTBK-1

DTBK-2

DTBK-3

DTBK-4

DTBK-5

DTBK-6

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	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
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	
	Does the manufacturer have an approved list of third-		
CSUP-9	party software that can be installed on the device?	No	
	Can the owner/operator install manufacturer-		
	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	
	Does the manufacturer provide customers with		
CSUP-11.1	review and approval status of updates?	No	
CSUP-11.2	Is there an update review cycle for the device?	No	

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 deidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for de-

DATA BACKUP AND DISASTER RECOVERY

identification?

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

See Notes Note 11

No No No

EMERGENCY ACCESS (EMRG)

integrity and authenticity of a backup?

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No

No

EMRG-1

IGAU-1

IGAU-2

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No

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 (IGAU)

How the device ensures that the stored data on the device has not been altered or destroyed in a non-authorized 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., RAID-5)?

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		
MLDP-2.1	default?	No	_
	Does the device have anti-malware software		
MLDP-2.2	available as an option?	No	_
	Does the device documentation allow the		
	owner/operator to install or update anti-malware		
MLDP-2.3	software?	No	_
	Can the device owner/operator independently (re-		
MLDP-2.4)configure anti-malware settings?	No	_
	Does notification of malware detection occur in the		
MLDP-2.5	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	
	Are there any restrictions on anti-malware (e.g.,		
MLDP-2.8	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 ampley application whitelisting that		
	Does the device employ application whitelisting that		
MLDP-4	restricts the software and services that are permitted to be run on the device?	No	
MILDP-4		No	_
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	See Notes	Note 13
MILDP-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	
J.1	system be comigured by the customer:	163	
	Can a host-based intrusion detection/prevention		
MLDP-5.2	system be installed by the customer?	Yes	
3.2	System se instance by the customer.		_

NODE AUTHENTICATION (NAUT)

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NAUT-1

NAUT-2

NAUT-2.1

NAUT-3

CONN-1

CONN-1.1

CONN-4

PAUT-1

PAUT-1.1

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Yes

Yes

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. Web APIs, SMTP, SNMP)?

Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)? No Is the firewall ruleset documented and available for review? N/A Does the device use certificate-based network connection authentication? No

CONNECTIVITY CAPABILITIES (CONN)

The ability of the device to authenticate

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.

Does the device have hardware connectivity capabilities?

Does the device support wireless connections?

CONN-1.1.1 Does the device support Wi-Fi? CONN-1.1.2 Does the device support Bluetooth? Does the device support other wireless network CONN-1.1.3 connectivity (e.g. LTE, Zigbee, proprietary)?

Does the device support other wireless connections CONN-1.1.4 (e.g., custom RF controls, wireless detectors)? CONN-1.2 Does the device support physical connections? CONN-1.2.1 Does the device have available RJ45 Ethernet ports?

CONN-1.2.2 Does the device have available USB ports? Does the device require, use, or support removable CONN-1.2.3 memory devices?

CONN-1.2.4 Does the device support other physical connectivity? Yes Does the manufacturer provide a list of network ports and protocols that are used or may be used on CONN-2 the device? Can the device communicate with other systems CONN-3

within the customer environment? Can the device communicate with other systems external to the customer environment (e.g., a service host)?

CONN-5 Does the device make or receive API calls? Does the device require an internet connection for its CONN-6 intended use? Does the device support Transport Layer Security CONN-7 (TLS)?

CONN-7.1 Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g.,

CONN-8

telemedicine)?

PERSON AUTHENTICATION (PAUT)

The ability to configure the device to authenticate

Does the device support and enforce unique IDs and passwords for all users and roles (including service

and passwords for all users and roles (including service accounts)?

Note 27

Yes No No

No Yes Yes

Yes Yes

Yes Yes

Yes No

Yes Yes

Yes

Does the device enforce authentication of unique IDs

Yes

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PLOK-2

PLOK-3

PLOK-4

RDMP-1

RDMP-2

RDMP-3

RDMP-4

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	Is the device configurable to authenticate users		
PAUT-2	through an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	Yes	_
PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	No	Note 25
FA01-3	Are all default accounts (e.g., technician service	NO	Note 25
DALIT 4	accounts, administrator accounts) listed in the	V	
PAUT-4 PAUT-5	documentation?	Yes Yes	_
PAUT-5	Can all passwords be changed?	res	_
	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	Can user accounts be disabled/locked on the device?	No	Note 25
PAUT-11	Does the device support biometric controls?	No	_
	Does the device support physical tokens (e.g. badge		
PAUT-12	access)?	No	_
	Does the device support group authentication (e.g.		
PAUT-13	hospital teams)?	No	_
DALIT 4.4	Does the application or device store or manage	C N-t	N-4- 45
PAUT-14	authentication credentials?	See Notes	Note 15
PAUT-14.1	Are credentials stored using a secure method?	See Notes	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		
	Is the device software only? If yes, answer "N/A" to		
PLOK-1	remaining questions in this section.	Yes	_
	Are all device components maintaining personally		

remaining questions in this section.

Are all device components maintaining personally identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)?

Are all device components maintaining personally.

Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually keyed locking device?

Does the device have an option for the customer to

attach a physical lock to restrict access to removable media?

N/A ___

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. Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?

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 source of information on software support dates and updates?

Does the manufacturer have a plan for managing third-party component end-of-life?

Yes __

Yes ____
Yes ___

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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 RDMP section.

SBOM-1	Is the SBoM for this product available?	Yes	_
	Does the SBoM follow a standard or common		
SBOM-2	method in describing software components?	Yes	_
SBOM-2.1	Are the software components identified?	Yes	_
	Are the developers/manufacturers of the software		
SBOM-2.2	components identified?	Yes	_
	Are the major version numbers of the software		
SBOM-2.3	components identified?	Yes	_
SBOM-2.4	Are any additional descriptive elements identified?	Yes	_
	Does the device include a command or process		
	method available to generate a list of software		
SBOM-3	components installed on the device?	No	_
SBOM-4	Is there an update process for the SBoM?	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?	No	
	Has the device received any cybersecurity		_
CALID 2	, , , , , , , , , , , , , , , , , , ,	NI-	
SAHD-2	certifications?	No	_
	Does the device employ any mechanisms for		
SAHD-3	software integrity checking	Yes	_
	Does the device employ any mechanism (e.g., release-		
	specific hash key, checksums, digital signature, etc.)		
	to ensure the installed software is manufacturer-		
64110.04			
SAHD-3.1	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			
3AHD-3.2	authorized updates?	No	_
	Can the owner/operator perform software integrity		
	checks (i.e., verify that the system has not been		
SAHD-4	modified or tampered with)?	See Notes	Note 16
	Is the system configurable to allow the		
	implementation of file-level, patient level, or other		
CALIB			
SAHD-5	types of access controls?	No	_
SAHD-5.1	Does the device provide role-based access controls?	Yes	_
	Are any system or user accounts restricted or		
SAHD-6	disabled by the manufacturer at system delivery?	No	
5, 5	Are any system or user accounts configurable by the		_
SAHD-6.1	end user after initial configuration?	Yes	_
	Does this include restricting certain system or user		
	accounts, such as service technicians, to least		
SAHD-6.2	privileged access?	See Notes	Note 21
	Are all shared resources (e.g., file shares) which are		
	not required for the intended use of the device		
CALID 7	•	V	
SAHD-7	disabled?	Yes	_
	Are all communication ports and protocols that are		
	not required for the intended use of the device		
SAHD-8	disabled?	Yes	_
	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		
SAHD-9	deleted/disabled?	Yes	_
	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		
SAHD-10	device deleted/disabled?	No	
20110-10	acvice acietea/aisabiea:	140	_

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	Can the device prohibit boot from uncontrolled or		
	removable media (i.e., a source other than an		
SAHD-11	internal drive or memory component)?	N/A	_
CALID 12	Can unauthorized software or hardware be installed	Voc	
SAHD-12	on the device without the use of physical tools?	Yes	_
	Does the product documentation include information		
SAHD-13	on operational network security scanning by users?	No	
	Can the device be hardened beyond the default		_
SAHD-14	provided state?	Yes	_
	Are instructions available from vendor for increased		
SAHD-14.1	hardening?	No	
	Can the system prevent access to BIOS or other		
SHAD-15	bootloaders during boot?	N/A	
	Have additional hardening methods not included in		
SAHD-16	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.		
COUR 4	Does the device include security documentation for	v	
SGUD-1	the owner/operator?	Yes	Note 26
	Does the device have the capability, and provide instructions, for the permanent deletion of data from		
SGUD-2	the device or media?	No	
3000 2	the device of media.		_
SGUD-3	Are all access accounts documented?	Yes	_
	Can the owner/operator manage password control		
SGUD-3.1	for all accounts?	Yes	_
CCUD 4	Does the product include documentation on	Al-	
SGUD-4	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		
STCE 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	_
5161-1.1	Is the data encryption capability configured by		
STCF-1.2	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?	N/A	_
CTCF 2	Is the data stored in a database located on the	Voc	Note 17
STCF-3	device? Is the data stored in a database external to the	Yes	Note 17
STCF-4	is the data stored in a database external to the device?	Yes	Note 17
J.G. 7	device.	100	1000 17
	TRANSMISSION CONFIDENTIALITY (TXCF)		
	. ,		
	The ability of the device to ensure the confidentiality		
	of transmitted personally identifiable information.		
	Can personally identifiable information be		
	transmitted only via a point-to-point dedicated		
TXCF-1	cable?	No	_
	Is norsonally identifiable information ones inted animal		
TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media?	Yes	
INCL 2	If data is not encrypted by default, can the customer	.03	_
TXCF-2.1	configure encryption options?	Yes	
			_

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	Is personally identifiable information transmission		
TXCF-3	restricted to a fixed list of network destinations?	No	_
TXCF-4	Are connections limited to authenticated systems?	See Notes	Note 18
TXCF-5	Are secure transmission methods 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		
TXIG-1	signatures) intended to ensure data is not modified 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? Does the device allow the owner/operator to	Yes	_
	initiative remote service sessions for device analysis		
RMOT-1.1	or repair? Is there an indicator for an enabled and active	Yes	-
RMOT-1.2	remote session?	N/A	_
	Can patient data be accessed or viewed from the		
RMOT-1.3	device during the remote session? Does the device permit or use remote service	Yes	-
RMOT-2	connections for predictive maintenance data?	Yes	_
	Does the device have any other remotely accessible		
DMOT 2	functionality (e.g. software updates, remote	No	

No

OTHER SECURITY CONSIDERATIONS (OTHR)

NONE

training)?

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
	stores the original XML audit messages in a DB2
	database table and they can be exported using
	standard DB2 database tools
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 messages can only be viewed by
	owner/operator when using the builtin Audit Record
	Repository. The recommendation is to use an
	external ARR.
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.
	-

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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.

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/CentOS 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.

Note 14 The system does not enforce any organizationally set

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.

Note 16 The software is installed via MSIs on Windows and

via 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.

Note 18 Image retrieval is possible from external

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 confgiured to use TLS (HTTPS). DICOM image retrieval over TLS is not supported.

Note 20 Vitrea Read receives and transmits personally

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.

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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.

Note 23 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. If the deprecated Vitrea Read Audit Record Repository is used the audit database will contain information such as patient IDs and user account

names

Note 24 Vitrea Read is installed on servers, physical or virtual,

acquired by the customer. The servers run CenOS/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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