

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Canon Medical Informatics A/S Vitrea Read 9.1

2024.10.001

Canon Medical Informatics A/S		2024.10.001	10 000 2024
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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 9.1	
DOC-4	Document ID	2024.10.001	_
		Krumtappen 4, Etage 3, 2500 Valby,	
		Denmark	
DOC-5	Manufacturer Contact Information	Marcel Lantinga	
	Intended use of device in network-connected	0	—
DOC-6	environment:	See Notes	Note 22
DOC-7	Document Release Date	2024-10-18	
	Coordinated Vulnerability Disclosure: Does the		—
	manufacturer have a vulnerability disclosure program		
DOC-8	for this device?	Yes	
	ISAO: Is the manufacturer part of an Information		Manufacturer monitors Common Vulnerability and
DOC-9	Sharing and Analysis Organization?	Yes	Exposures (CVE) publications
000-9	Sharing and Analysis Organization:		Exposures (CVE) publications
	Diagramy Is a notwork or data flow diagram available		
	Diagram: Is a network or data flow diagram available		
500.10	that indicates connections to other system	N	
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 bested by the sustemar?	Yes	
000-11.4	Is the SaMD hosted by the customer?	165	—
		Voc. No	
		Yes, No,	
		N/A, or	Neto #
	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	
	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	
WI II 2.0	Does the device maintain personally identifiable		—
	information when powered off, or during power		
	service interruptions?	Yes	
MPII-2.7	Does the device allow the internal media to be		-
MDU 2.0	removed by a service technician (e.g., for separate	Vec	
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		
	internal drive, alternate drive partition, or remote		
MPII-2.9	storage location)?	Yes	

18-Oct-2024



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001	18-Oct-2024
	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, CF/SD		
MPII-3.3	card, memory stick, etc.)?	Yes	
1111 3.5	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.)?	No	
Wi ii 3.4	Does the device transmit/receive personally		_
	identifiable information via a wired network		
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	Yes	
1411 11 5.5	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
MFII-3.0	Does the device transmit/receive personally	103	interfed non editorier network comparation
	identifiable information over an external network		
MPII-3.7	(e.g., Internet)?	Yes	Inherited from customer network configuration
WIF II-3.7	Does the device import personally identifiable		interfed non editoriel network comparation
MPII-3.8	information via scanning a document?	No	
WIF II-3.8	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	information?	Yes	Note 20
Management of Private Data not	es:		
3			

AUTOMATIC LOGOFF (ALOF)

	The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.	
ALOF-1	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 protected screen saver)? Is the length of inactivity time before auto-	Yes
ALOF-2	logoff/screen lock user or administrator configurable?	Yes

on f Yes ___ 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



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001	:	18-Oct-2024
	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		
	Is a list of data attributes that are captured in the			
AUDT-4	audit log for an event available?	See Notes	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		

AUTHORIZATION (AUTH)

The ability of the authorization of	e device to determine the users.
Does the device	prevent access to unauthorized users in requirements or other
AUTH-1 mechanism?	
	be configured to use federated agement of users for authorization
AUTH-1.1 (e.g., LDAP, OAu	-
Can the custome	er push group policies to the device
AUTH-1.2 (e.g., Active Dire	
Are any special g AUTH-1.3 policies required	groups, organizational units, or group 1?
Can users be ass	igned different privilege levels based
	ser, administrator, and/or service,
AUTH-2 etc.)?	
	owner/operator grant themselves
	ninistrative privileges (e.g., access n or application via local root or
AUTH-3 administrator ad	
Does the device	authorize or control all API access
AUTH-4 requests?	:
	run in a restricted access mode, or
AUTH-5 'kiosk mode', by	default?

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.	
CSUP-1	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 in this section.	١
CSUP-2	Does the device contain an Operating System? If yes, complete 2.1-2.4.	١
CSUP-2.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	١

ers		
	Yes	_
	Yes	-
	See Notes	Note 6
ıp	Yes	_
d		
	Yes	_
	Yes	
	See Notes	Note 7
	No	_





Canon Medical Informatics A/S V

VS Vitrea Read 9.1

2024.10.001

— Note 24

Note 8

18-Oct-2024

	Does the device require vendor or vendor-authorized
SUP-2.2	service to install patches or software updates?
	Does the device have the capability to receive remote
SUP-2.3	installation of patches or software updates? Does the medical device manufacturer allow security
	updates from any third-party manufacturers (e.g.,
	Microsoft) to be installed without approval from the
SUP-2.4	manufacturer?
	Does the device contain Drivers and Firmware? If yes,
SUP-3	complete 3.1-3.4.
	Does the device documentation provide instructions
	for owner/operator installation of patches or coftware undated?
SUP-3.1	software updates?
	Does the device require vendor or vendor-authorized
SUP-3.2	service to install patches or software updates?
	Does the device have the capability to receive remote
SUP-3.3	installation of patches or software updates?
	Does the medical device manufacturer allow security
	updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the
SUP-3.4	manufacturer?
	Does the device contain Anti-Malware Software? If
SUP-4	yes, complete 4.1-4.4.
	Does the device documentation provide instructions
	for owner/operator installation of patches or
SUP-4.1	software updates?
	Does the device require vendor or vendor-authorized
SUP-4.2	service to install patches or software updates?
501 4.2	
	Does the device have the capability to receive remote
SUP-4.3	installation of patches or software updates?
	Does the medical device manufacturer allow security
	updates from any third-party manufacturers (e.g.,
	Microsoft) to be installed without approval from the manufacturer?
SUP-4.4	Does the device contain Non-Operating System
	commercial off-the-shelf components? If yes,
SUP-5	complete 5.1-5.4.
	Does the device documentation provide instructions
	for owner/operator installation of patches or
SUP-5.1	software updates?
SUP-5.1	software updates?
	software updates? Does the device require vendor or vendor-authorized
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:SUP-5.2 :SUP-5.3 :SUP-5.4	software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4. Does the device documentation provide instructions
:SUP-5.2 :SUP-5.3 :SUP-5.4 :SUP-6	software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4. Does the device documentation provide instructions for owner/operator installation of patches or
:SUP-5.2 :SUP-5.3 :SUP-5.4	software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4. Does the device documentation provide instructions
:SUP-5.2 :SUP-5.3 :SUP-5.4 :SUP-6	software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates?
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SUP-5.2 SUP-5.3 SUP-5.4 SUP-6 SUP-6.1 SUP-6.2	software updates?Does the device require vendor or vendor-authorized service to install patches or software updates?Does the device have the capability to receive remote installation of patches or software updates?Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4.Does the device documentation provide instructions for owner/operator installation of patches or software updates?Does the device require vendor or vendor-authorized service to install patches or software updates?Does the device have the capability to receive remote installation of patches or software updates?Does the device have the capability to receive remote installation of patches or software updates?Does the device have the capability to receive remote installation of patches or software updates?Does the device have the capability to receive remote installation of patches or software updates?
SUP-5.2 SUP-5.3 SUP-5.4 SUP-6 SUP-6.1 SUP-6.2	software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturer (e.g., Microsoft) to be installed without approval from the manufacturer? Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4. Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device require vendor or vendor-authorized service to install patches or software updates?



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001		18-Oct-2024
	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 de-		
DIDT-1	identify personally identifiable information?	Yes	_
	Does the device support de-identification profiles		
	that comply with the DICOM standard for de-		
DIDT-1.1	identification?	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 information.	
	Does the device maintain long term primary storage	
	of personally identifiable information / patient	
DTBK-1	information (e.g. PACS)?	No
DIBK-1		NO
	Does the device have a "factory reset" function to	
	restore the original device settings as provided by the	
DTBK-2	manufacturer?	No
	Does the device have an integral data backup	
DTBK-3	capability to removable media?	No
	Does the device have an integral data backup	
DTBK-4	capability to remote storage?	No
	Does the device have a backup capability for system	
	configuration information, patch restoration, and	
DTBK-5	software restoration?	No
	Does the device provide the capability to check the	
DTBK-6	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

 EMRG-1
 (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 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)?

No	-		
No			
No	_		
No	_		
No			
No	_		

No				
		_		

N/A

IGAU-1



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001	18-Oct-2024
IGAU-2	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? Does the device support the use of anti-malware software (or other anti-malware mechanism)?	Yes	_
MLDP-2	Provide details or reference in notes.	See Notes	Note 12
MLDP-2.1	Does the device include anti-malware software by default?	No	_
MLDP-2.2	Does the device have anti-malware software available as an option?	No	
	Does the device documentation allow the		_
MLDP-2.3	owner/operator to install or update anti-malware software?	No	_
MLDP-2.4	Can the device owner/operator independently (re-)configure anti-malware settings?	No	_
MLDP-2.5	Does notification of malware detection occur in the device user interface?	No	
	Can only manufacturer-authorized persons repair		
MLDP-2.6 MLDP-2.7	systems when malware has been detected? Are malware notifications written to a log?	Yes 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? Does the device employ a host-based intrusion	No	_
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? Can a host-based intrusion detection/prevention	Yes	
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)? Are network access control mechanisms supported	Yes	-
NAUT-2	(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		-
NAUT-2.1	review? Does the device use certificate-based network	N/A	—
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 CONN-1.1.1	Does the device support wireless connections? Does the device support Wi-Fi?	Yes Yes	_
CONN-1.1.2	Does the device support Bluetooth?	No	_



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001	18	-Oct-2024
	Does the device support other wireless network			
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	No		
	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	Does the device have available RJ45 Ethernet ports?	Yes	—	
CONN-1.2.2	Does the device have available USB ports?	Yes	—	
	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?	Voc		
CONN-1.2.4	Does the manufacturer provide a list of network	163	—	
	ports and protocols that are used or may be used on			
CONN-2	the device?	Yes		
CONN-2	Can the device communicate with other systems	Tes .	—	
CONN-3	within the customer environment?	Yes		
CONN-S	Can the device communicate with other systems	163	—	
	external to the customer environment (e.g., a service			
CONN-4	host)?	Yes		
CONN-4 CONN-5	Does the device make or receive API calls?	Yes	—	
CONN-5	Does the device require an internet connection for its		—	
CONN-6	intended use?	No		
CONN-0	Does the device support Transport Layer Security	110	—	
CONN-7	(TLS)?	Yes		
CONN-7 CONN-7.1	Is TLS configurable?	Yes	—	
CONN-7.1	Does the device provide operator control	163		
	functionality from a separate device (e.g.,			
CONN-8	telemedicine)?	Yes		
CONN-0	telementer:	103	_	
	PERSON AUTHENTICATION (PAUT)			

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	_
	Is the device configurable to lock out a user after a		
PAUT-3	certain number of unsuccessful logon attempts?	Yes	
	Are all default accounts (e.g., technician service		
	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?	Yes	
	Does the device support account passwords that		
PAUT-7	expire periodically?	Yes	
PAUT-8	Does the device support multi-factor authentication?	Yes	
PAUT-9	Does the device support single sign-on (SSO)?	Yes	
			—
PAUT-10	Can user accounts be disabled/locked on the device?	Yes	
PAUT-11	Does the device support biometric controls?	No	
	Does the device support physical tokens (e.g. badge		—
PAUT-12	access)?	Yes	
	Does the device support group authentication (e.g.		
PAUT-13	hospital teams)?	No	
	Does the application or device store or manage		_
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)



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001	18-Oct-20
	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		
	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	
1 LOK 5	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 third-		
	party components within the device's life cycle. Was a secure software development process, such as		
	ISO/IEC 27034 or IEC 62304, followed during product		
RDMP-1	development?	Yes	
	Does the manufacturer evaluate third-party		-
	applications and software components included in		
RDMP-2	the device for secure development practices?	Yes	_
	Does the manufacturer maintain a web page or other		
	source of information on software support dates and		
RDMP-3	updates?	Yes	-
	Does the manufacturer have a plan for managing	Voc	
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		
50014.4	RDMP section.	¥	
SBOM-1	Is the SBoM for this product available? Does the SBoM follow a standard or common	Yes	-
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	_
670112 A			
SBOM-2.4	Are any additional descriptive elements identified? Does the device include a command or process	Yes	-
	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	No	
SAHD-1	industry standards?	No	—
SAHD-2	Has the device received any cybersecurity certifications?	No	
JAILU Z	Does the device employ any mechanisms for		—
SAHD-3	software integrity checking	Yes	
	- · · ·		





Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001	18-Oct-2024
	Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-		
SAHD-3.1	authorized? Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.)		_
SAHD-3.2	to ensure the software updates are the manufacturer- authorized updates? Can the owner/operator perform software integrity	No	-
SAHD-4	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? Are any system or user accounts restricted or	Yes	-
SAHD-6	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 accounts, such as service technicians, to least	Yes	-
SAHD-6.2	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 not required for the intended use of the device	Yes	-
SAHD-8	disabled? Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which	Yes	-
SAHD-9	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.)	Yes	-
SAHD-10	which are not required for the intended use of the device deleted/disabled?	No	_
SAHD-11	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal 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? Can the system prevent access to BIOS or other	No	
SHAD-15	bootloaders during boot? Have additional hardening methods not included in	N/A	
SAHD-16	2.3.19 been used to harden the device?	No	_
	SECURITY GUIDANCE (SGUD)		
	Availability of security guidance for operator and		

llity of security guidance for operator an administrator of the device and manufacturer sales and service. Does the device include security documentation for SGUD-1 the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from SGUD-2 the device or media? SGUD-3 Are all access accounts documented? Can the owner/operator manage password control SGUD-3.1 for all accounts? Does the product include documentation on SGUD-4 recommended compensating controls for the device?

	Yes	Note 26
I	No	_
	Yes	_
	Yes	-
,	No	_



Canon Medical Informatics A/S	Vitrea Read 9.1
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2024.10.001

18-Oct-2024

	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		
	stored on the device or removable media.		
STCF-1	Can the device encrypt data at rest?	No	—
STCF-1.1	Is all data encrypted or otherwise protected? Is the data encryption capability configured by	No	
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	_
	Is the data stored in a database located on the		
STCF-3	device? Is the data stored in a database external to the	Yes	Note 17
STCF-4	device?	Yes	Note 17
	TRANSMISSION CONFIDENTIALITY (TXCF)		
	The ability of the device to ensure the confidentiality		
	of transmitted personally identifiable information.		
	Can personally identifiable information be		
TXCF-1	transmitted only via a point-to-point dedicated cable?	No	
			—
TYOF 2	Is personally identifiable information encrypted prior		
TXCF-2	to transmission via a network or removable media? If data is not encrypted by default, can the customer	Yes	—
TXCF-2.1	configure encryption options?	Yes	_
	Is personally identifiable information transmission		
TXCF-3 TXCF-4	restricted to a fixed list of network destinations? Are connections limited to authenticated systems?	No See Notes	— Note 18
	we connections inneed to duthenricated systems.		
	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	
INIG 2			_
	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?	Yes	_
RMOT-1.2	Is there an indicator for an enabled and active remote session?	N/A	
111101-1.2	Can patient data be accessed or viewed from the		—
RMOT-1.3	device during the remote session?	Yes	_
RMOT-2	Does the device permit or use remote service connections for predictive maintenance data?	Yes	
DIVIUI-Z	connections for predictive maintenance data?	1EN	

Yes

No

connections for predictive maintenance data?

training)?

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

RMOT-2

RMOT-3



Canon Medical Informatics A/S

Vitrea Read 9.1

OTHER SECURITY CONSIDERATIONS (OTHR)

Notes:

	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
Note 2	Specific Audit Messages"
Note 3	Vitrea Read can be configured to use a compliant external Audit Record Repository. Canon provides
	Event Repository for this role
Note 4	Audit messages can be routed via syslog RFC-3164 or
	RC-5424 with TLS encryption as per the IHE ATNA
Note 5	profile Audit records are sent to an Audit Record Repository
Note 5	that is external to the Vitrea Read product. The
	owner/operator of the Audit Record Repository can
	view audit messages
Note 6	User privileges can be controlled via KeyCloak or 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 (MS SQL Server) 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
Note 13	Vitrea Read The RHEL OS provides mechanisms that can be
Note 15	configured. The Vitrea Read clients are installed on
	the customers PCs as normal unprivileged Windows
	applications. The security of these PCs is the
Note 15	responsibility of the customer. Vitrea Read uses KeyCloak for Identity Management
Note 15	it is capable of creating local users, but the typical
	configuration will use federated users via
	LDAP/Kerberos from Active Directory or will rely on
	external OpenID Identity Providers where neither Vitrea Read nor KeyCloak store the password
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
Note 18	of Vitrea Read and an external database. Image retrieval is possible from external
NOLE TO	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
Noto 20	retrieval over TLS is not supported.
Note 20	Vitrea Read receives and transmits personally identifiable information via the DICOM protocol.
	actionable information via the Dicolvi protocol.



Canon Medical Informatics A/S	Vitrea Read 9.1	2024.10.001
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.	t n
Note 23	Vitrea Read does not store patient or image related information in its own database. Only settings and preferences are stored.	
Note 24	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 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	,