

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Canon Medical Informatics

Incorporated Vitrea Connection 9.1 2023.08.002 15-Dec-2023

Question ID	Question		See note	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
		Canon Medical Informatics				
DOC-1	Manufacturer Name	Incorporated	_			
		Vitrea Connection is a secure, patient-				
		centric platform based on open standards (HL7, DICOM, IHE XDS, and				
		MINT) which provides cross-				
		enterprise sharing of clinical images				
		and documents and enables seamless				
DOC-2	Device Description	integration between healthcare systems.				
DOC-3	Device Model	Vitrea Connection 9.1	_			
DOC-4	Document ID	2023.08.002	_			
		Jason Novecosky, Director of				
		Engineering, 19 Regina St North,				
		Waterloo, Ontario, N2J 2Z9 Canada +1-226-798-5780				
DOC-5	Manufacturer Contact Information	+1-220-790-3780				
		Storage and distribution of medical	_			
	Intended use of device in network-connected	images and associated medical record				
DOC-6	environment:	data	_			
DOC-7	Document Release Date Coordinated Vulnerability Disclosure: Does the	December 15, 2023	_			
	manufacturer have a vulnerability disclosure program for					
DOC-8	this device?	Yes	_			
	ISAO: Is the manufacturer part of an Information Sharing		Manufacturer monitors Common Vulnerability and			
DOC-9	and Analysis Organization? Diagram: Is a network or data flow diagram available that	Yes	Exposures (CVE) publications Available as part of a System Architecture Design			
	indicates connections to other system components or		Document - updated to meet needs of given			
DOC-10	expected external resources?	Yes	implementation			
	SaMD: Is the device Software as a Medical Device (i.e.					
DOC-11 DOC-11.1	software-only, no hardware)? Does the SaMD contain an operating system?	Yes Yes	_			
DOC-11.1	Does the SaMD rely on an owner/operator provided	16	_			
DOC-11.2	operating system?	No	_			
	Is the SaMD hosted by the manufacturer?					
DOC-11.3 DOC-11.4	Is the SaMD hosted by the customer?	No Yes				
DOC-11.4	is the salvid hosted by the customer?	res	_			
		Yes, No,				
		N/A, or				
	MANAGEMENT OF PERSONALLY IDENTIFIABLE	See Note	Note#			
	INFORMATION			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Can this device display, transmit, store, or modify			- · · · · · · · · · · · · · · · · · · ·		
	personally identifiable information (e.g. electronic					
MPII-1	Protected Health Information (ePHI))?	Yes	_		AR-2	A.15.1.4
MPII-2	Does the device maintain personally identifiable information?	Yes			AR-2	A.15.1.4
2	Does the device maintain personally identifiable				7.11.2	711231211
	information temporarily in volatile memory (i.e., until					
MPII-2.1	cleared by power-off or reset)?	Yes	_		AR-2	A.15.1.4
MPII-2.2	Does the device store personally identifiable information persistently on internal media?	Yes				
" בוב	Is personally identifiable information preserved in the	· 				
MPII-2.3		Yes	_			
MPII-2.4	Does the device store personally identifiable information					
IVIFII-2.4	in a database? Does the device allow configuration to automatically	Yes	_			
	delete local personally identifiable information after it is					
MPII-2.5	stored to a long term solution?	No	_		AR-2	A.15.1.4



Canon Medical Informatics 2023.08.002 15-Dec-2023 Incorporated Vitrea Connection 9.1 Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable MPII-2 6 A.15.1.4 information to a server)? AR-2 Does the device maintain personally identifiable information when powered off, or during power service MPII-2.7 A.15.1.4 interruptions? AR-2 Does the device allow the internal media to be removed by a service technician (e.g., for separate destruction or MPII-2.8 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 A.15.1.4 storage location)? Yes AR-2 Does the device have mechanisms used for the transmitting, importing/exporting of personally MPII-3 identifiable information? AR-2 A.15.1.4 Yes Does the device display personally identifiable MPII-3.1 information (e.g., video display, etc.)? A.15.1.4 AR-2 Does the device generate hardcopy reports or images MPII-3.2 containing personally identifiable information? No AR-2 A.15.1.4 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 card, MPII-3.3 memory stick, etc.)? AR-2 A.15.1.4 Does the device transmit/receive or import/export personally identifiable information via dedicated cable MPII-3.4 connection (e.g., RS-232, RS-423, USB, FireWire, etc.)? AR-2 A.15.1.4 Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, MPII-3.5 fiber optic, etc.)? AR-2 A.15.1.4 Does the device transmit/receive personally identifiable information via a wireless network connection (e.g., MPII-3.6 WiFi, Bluetooth, NFC, infrared, cellular, etc.)? Inherited from customer network configuration AR-2 A.15.1.4 Does the device transmit/receive personally identifiable MPII-3.7 information over an external network (e.g., Internet)? See Notes Inherited from customer network configuration AR-2 A.15.1.4 Does the device import personally identifiable MPII-3.8 information via scanning a document? Does the device transmit/receive personally identifiable MPII-3.9 information via a proprietary protocol? Does the device use any other mechanism to transmit, Private data can be imported and exported to local disk MPII-3.10 import or export personally identifiable information? See Notes through a web browser AR-2 A.15.1.4 Management of Private Data notes: AR-2 A.15.1.4 AUTOMATIC LOGOFF (ALOF) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 The device's ability to prevent access and misuse by

ISO 27002:2013 unauthorized users if device is left idle for a period of time. 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)? Section 5.1, ALOF AC-12 None Is the length of inactivity time before auto-logoff/screen ALOF-2 lock user or administrator configurable? Configurable Section 5.1, ALOF AC-11 A.11.2.8, A.11.2.9 **AUDIT CONTROLS (AUDT)** IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

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Microsoft) to be installed without approval from the

manufacturer?

CSUP-4.4

Canon Medical Informatics 2023.08.002 15-Dec-2023 Vitrea Connection 9.1 Incorporated Can users be assigned different privilege levels based on AUTH-2 'role' (e.g., user, administrator, and/or service, etc.)? Section 5.3, AUTH IA-2 A.9.2.1 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)? Section 5.3, AUTH IA-2 A.9.2.1 Does the device authorize or control all API access AUTH-4 requests? Section 5.3, AUTH IA-2 A.9.2.1 Does the device run in a restricted access mode, or 'kiosk AUTH-5 mode', by default? CYBER SECURITY PRODUCT UPGRADES (CSUP) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013 The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches. The device ships with a set of integrated software Does the device contain any software or firmware which platform packages that are reviewed and updated at may require security updates during its operational life, each release gate by the vendor. The customer however either from the device manufacturer or from a thirdretains the responsibility of updating the operating party manufacturer of the software/firmware? If no, system and underlying infrastructure in accordance CSUP-1 answer "N/A" to questions in this section. with their information security policies. Does the device contain an Operating System? If yes, CSUP-2 complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software CSUP-2.1 undates? Does the device require vendor or vendor-authorized CSUP-2.2 service to install patches or software updates? Yes 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 updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the CSUP-2.4 manufacturer? Does the device contain Drivers and Firmware? If ves. CSUP-3 Does the device documentation provide instructions for owner/operator installation of patches or software CSUP-3.1 updates? 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 manufacturer? CSUP-3.4 N/A Does the device contain Anti-Malware Software? If yes, While the device does not contain anti-malware CSUP-4 complete 4.1-4.4. software, the customer is free to install their own. Does the device documentation provide instructions for owner/operator installation of patches or software CSUP-4.1 undates? N/A Does the device require vendor or vendor-authorized CSUP-4.2 service to install patches or software updates? Does the device have the capability to receive remote CSUP-4.3 installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g.,

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device data, hardware, software, or site configuration

information.

	Does the device contain Non-Operating System	
	commercial off-the-shelf components? If yes, complete	
CSUP-5	5.1-5.4.	Yes
	Does the device documentation provide instructions for	
	owner/operator installation of patches or software	
CSUP-5.1	updates?	Yes
	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?	No
	Does the device contain other software components	
	(e.g., asset management software, license management)?	
CSUP-6	If yes, please provide details or refernce in notes and	No
CSUP-0	complete 6.1-6.4.	No
	Does the device documentation provide instructions for	
CCUD C 4	owner/operator installation of patches or software	
CSUP-6.1	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?	Yes
	Does the device perform automatic installation of	
CSUP-8	software updates?	No
	Does the manufacturer have an approved list of third-	
CSUP-9	party software that can be installed on the device?	Yes
	Can the owner/operator install manufacturer-approved	
CSUP-10	third-party software on the device themselves?	No
	Does the system have mechanism in place to prevent	
CSUP-10.1	installation of unapproved software?	Yes
	Does the manufacturer have a process in place to assess	
CSUP-11	device vulnerabilities and updates?	Yes
	Does the manufacturer provide customers with review	
CSUP-11.1	and approval status of updates?	No
CSUP-11.2	Is there an update review cycle for the device?	No

	HEALTH DATA DE-IDENTIFICATION (DIDT)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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	Section 5.6, DIDT	None	ISO 27038
	Does the device support de-identification profiles that				
DIDT-1.1	comply with the DICOM standard for de-identification?	No	Section 5.6, DIDT	None	ISO 27038
	DATA BACKUP AND DISASTER RECOVERY (DTBK)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to recover after damage or destruction of				



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DTBK-1	Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?	Yes	_			
DTBK-2	Does the device have a "factory reset" function to restore the original device settings as provided by the manufacturer?	No		Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-3	Does the device have an integral data backup capability to removable media?	No	_	Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-4	Does the device have an integral data backup capability to remote storage?	Yes				
DTBK-5	Does the device have a backup capability for system configuration information, patch restoration, and software restoration?	Yes				
DTBK-6	Does the device provide the capability to check the integrity and authenticity of a backup?	No	_	Section 5.7, DTBK	CP-9	A.12.3.1
	EMERGENCY ACCESS (EMRG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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.					100 2700210020
EMRG-1	Does the device incorporate an emergency access (i.e. "break-glass") feature?	Yes	_	Section 5.8, EMRG	SI-17	None
	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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.					
IGAU-1	Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)?	No		Section 5.9, IGAU	SC-28	A.18.1.3
10/10 1	Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., RAID-		_	section sis, rand	30.20	7410.110
IGAU-2	5)?	See Notes	Storage configuration is inherited from the customer.	Section 5.9, IGAU	SC-28	A.18.1.3
	MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware).			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
			Being that the device is hardened as part of its deployment, we do not typically recommend the installation of additional executables. The customer however is able to install and manage additional executables in accordance with their own internal			
MLDP-1	Is the device capable of hosting executable software?	Yes	information security practices. Examples of anti-malware applications supported	Section 5.10, MLDP		
MLDP-2	Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes.	Yes	include those listed here: https://www.redhat.com/sysadmin/3-antimalware- solutions	Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-2.1	Does the device include anti-malware software by default?	N/A	_	Section 5.10, MLDP	CM-5	A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1
MLDP-2.2	Does the device have anti-malware software available as an option? Does the device documentation allow the	N/A	-	Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
MLDP-2.3	owner/operator to install or update anti-malware software?	N/A	_	Section 5.10, MLDP	CP-10	A.17.1.2
MLDP-2.4	Can the device owner/operator independently (re-)configure anti-malware settings?	N/A	_	Section 5.10, MLDP	AU-2	None



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	Does notification of malware detection occur in the					
MLDP-2.5	device user interface? Can only manufacturer-authorized persons repair	N/A				
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.,	L.	The device does not install of otherwise control			
MLDP-2.8	purchase, installation, configuration, scheduling)? If the answer to MLDP-2 is NO, and anti-malware cannot	Yes	malware software.			
	be installed on the device, are other compensating					A.12.6.1, A.14.2.2, A.14.2.3,
MLDP-3	controls in place or available?	No	Device uses a Linux-based operating system.	Section 5.10, MLDP	SI-2	A.16.1.3
	Does the device employ application whitelisting that					
MLDP-4	restricts the software and services that are permitted to be run on the device?	No		Section 5.10, MLDP	SI-3	A.12.2.1
WEDT 4	Does the device employ a host-based intrusion	No	-	Section 5.10, WEDI	31 3	A.IZ.Z.I
MLDP-5	detection/prevention system?	Yes	Device uses denyhosts	Section 5.10, MLDP	SI-4	None
14100 5 4	Can the host-based intrusion detection/prevention	N.		Carllage F 40 AM PD	C14.7	44254
MLDP-5.1	system be configured by the customer? Can a host-based intrusion detection/prevention system	No	Customer could install their own system in passive	Section 5.10, MLDP	CM-7	A.12.5.1
MLDP-5.2	be installed by the customer?	See Notes	mode only.	Section 5.10, MLDP		
	NODE AUTHENTICATION (NAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to authenticate			IEC IR 80001-2-2:2012	NIST 3P 800-33 Rev. 4	130 2/002:2013
	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					
NAUT-1	APIs, SMTP, SNMP)?	Yes		Section 5.11, NAUT	SC-23	None
	Are network access control mechanisms supported (E.g.,		_			
	does the device have an internal firewall, or use a					A.13.1.1, A.13.1.3,
NAUT-2	network connection white list)? Is the firewall ruleset documented and available for	Yes	_	Section 5.11, NAUT	SC-7	A.13.2.1,A.14.1.3
NAUT-2.1	review?	Yes				
	Does the device use certificate-based network					
NAUT-3	connection authentication?	Yes	_			
	CONNECTIVITY CAPABILITIES (CONN)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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.					
	may be present on the device.					
CONN-1	Does the device have hardware connectivity capabilities		=			
CONN-1.1	Does the device support wireless connections?	See Notes	Inherited from customer network.			
CONN-1.1.1 CONN-1.1.2	Does the device support Wi-Fi? Does the device support Bluetooth?	See Notes No	Inherited from customer network.			
CONN 1.1.2	Does the device support other wireless network	No	-			
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	No	_			
	Does the device support other wireless connections (e.g.					
CONN-1.1.4	custom RF controls, wireless detectors)?	No	Device is software only, installed on customer-supplied			
CONN-1.2	Does the device support physical connections?	N/A	hardware			
			Device is software only, installed on customer-supplied			
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	N/A	hardware			
CONN-1.2.2	Does the device have available USB ports?	N/A	Device is software only, installed on customer-supplied hardware			
1.2.2	Does the device require, use, or support removable		Device is software only, installed on customer-supplied			
CONN-1.2.3	memory devices?	N/A	hardware			
CONN-1.2.4	Does the device support other physical connectivity?	N/A	_			



Does the application or device store or manage

Are credentials stored using a secure method?

See Notes

See Notes

authentication credentials?

PAUT-14

PAUT-14.1

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Incorporated	Vitrea Connection 9.1	2023.08.002	15-Dec-2023			
	Does the manufacturer provide a list of network ports					
	and protocols that are used or may be used on the					
CONN-2	device?	Yes	_			
	Can the device communicate with other systems within					
CONN-3	the customer environment?	Yes	_			
	Can the decise as a second city other and a second control of					
CONN-4	Can the device communicate with other systems externa to the customer environment (e.g., a service host)?	Yes				
CONN-5	Does the device make or receive API calls?	Yes	_			
COMING	Does the device require an internet connection for its	163	_			
CONN-6	intended use?	See Notes	Minimally, to facility remote support activity.			
CONN-7	Does the device support Transport Layer Security (TLS)?	Yes	,			
CONN-7.1	Is TLS configurable?	Yes	_			
	Does the device provide operator control functionality		Device provides a web-based UI that is accessed from a			
CONN-8	from a separate device (e.g., telemedicine)?	See Notes	customer-provided workstation.			
	PERSON AUTHENTICATION (PAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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		Device supports unique administration accounts and			
PAUT-1	accounts)?	See Notes	shared accounts are not recommended.	Section 5.12, PAUT	IA-2	A.9.2.1
	Does the device enforce authentication of unique IDs and	i e				
	passwords for all users and roles (including service					
PAUT-1.1	accounts)?	Yes		Section 5.12, PAUT	IA-2	A.9.2.1
	Is the device configurable to authenticate users through					
PAUT-2	an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	Yes		Section 5.12, PAUT	IA-5	A.9.2.1
PAUT-Z	Is the device configurable to lock out a user after a	res	If desired, managed through external authentication	Section 5.12, PAO1	IA-3	A.9.2.1
PAUT-3	certain number of unsuccessful logon attempts?	See Notes	service	Section 5.12, PAUT	IA-2	A.9.2.1
171013	Are all default accounts (e.g., technician service	See Hotes	Scivice	5000011312717101	2	743.2.1
	accounts, administrator accounts) listed in the					A.14.1.1, A.14.2.7, A.14.2.9,
PAUT-4	documentation?	Yes		Section 5.12, PAUT	SA-4(5)	A.15.1.2
PAUT-5	Can all passwords be changed?	Yes		Section 5.12, PAUT		
	Is the device configurable to enforce creation of user					
	account passwords that meet established (organization		If desired, managed through external authentication			
PAUT-6	specific) complexity rules?	See Notes	service	Section 5.12, PAUT	IA-2	A.9.2.1
	Does the device support account passwords that expire		If desired, managed through external authentication			
PAUT-7	periodically?	See Notes	service			
PAUT-8	Does the device support multi-factor authentication?	No 				
PAUT-9	Does the device support single sign-on (SSO)?	No See No. 1	Maria della contra della discolaria	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-10	Can user accounts be disabled/locked on the device?	See Notes	Managed through external authentication service	Section 5.12, PAUT	IA-2 IA-2	A.9.2.1
PAUT-11	Does the device support biometric controls? Does the device support physical tokens (e.g. badge	No		Section 5.12, PAUT	IA-Z	A.9.2.1
PAUT-12	access)?	No				
12	Does the device support group authentication (e.g.					
PAUT-13	hospital teams)?	No				
	Does the application or device store or manage					

PHYSICAL LOCKS (PLOK) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013 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. Section 5.13, PLOK PE-3(4) A.11.1.1, A.11.1.2, A.11.1.3 Yes

If LDAP is not used, credentials are encrypted.

If LDAP is not used.



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PLOK-2	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 identifiable information (other than removable media)	N/A		Section 5.13, PLOK	PE-3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-3	physically secured behind an individually keyed locking device? Does the device have an option for the customer to	N/A		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-4	attach a physical lock to restrict access to removable media?	N/A		Section 5.13, PLOK	PE-3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP) Manufacturer's plans for security support of third-party			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	components within the device's life cycle. Was a secure software development process, such as					
RDMP-1	ISO/IEC 27034 or IEC 62304, followed during product development? Does the manufacturer evaluate third-party applications	Yes IEC62304		Section 5.14, RDMP	CM-2	None
RDMP-2	and software components included in the device for secure development practices? Does the manufacturer maintain a web page or other	Yes		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-3	source of information on software support dates and updates?	Yes		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-4	Does the manufacturer have a plan for managing third- party component end-of-life?	No		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
	SOFTWARE BILL OF MATERIALS (SBOM)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-1	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in	Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-1 SBOM-2 SBOM-2.1	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. Is the SBoM for this product available?	Yes Yes Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2 SBOM-2.1	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software	Yes Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2 SBOM-2.1 SBOM-2.2	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software	Yes Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified?	Yes Yes Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2.1 SBOM-2.2 SBOM-2.3 SBOM-2.4	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software components	Yes Yes Yes Yes Yes Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method	Yes Yes Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3 SBOM-2.4	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Does the device include a command or process method available to generate a list of software components installed on the device? Is there an update process for the SBoM?	Yes Yes Yes Yes No				
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3 SBOM-2.4	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software components installed on the device? Is there an update process for the SBoM? SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and	Yes Yes Yes Yes No		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3 SBOM-2.4 SBOM-3 SBOM-4	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software components installed on the device? Is there an update process for the SBoM? SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and malware. Is the device hardened in accordance with any industry	Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.12.5.1* A.6.2.1, A.6.2.2, A.13.1.1,
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3 SBOM-2.4	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software components installed on the device? Is there an update process for the SBoM? SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and malware.	Yes Yes Yes Yes No			NIST SP 800-53 Rev. 4	ISO 27002:2013 A.12.5.1* A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2/None
SBOM-2 SBOM-2.1 SBOM-2.2 SBOM-2.3 SBOM-2.4 SBOM-3 SBOM-4	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components? Are the developers/manufacturers of the software components identified? Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software components installed on the device? Is there an update process for the SBoM? SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and malware. Is the device hardened in accordance with any industry	Yes		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.12.5.1* A.6.2.1, A.6.2.2, A.13.1.1,



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SAHD-3.1	Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer- authorized? Does the device employ any mechanism (e.g., release-	No	-			
SAHD-3.2	specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates?	No	Updates are downloaded from a controlled repository by an administrator and are not applied automatically	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)?	No	The customer supplies their own means of verifying platform integrity (eg. file monitoring etc).	Section 5.15, SAHD	AC-3	A.6.2.2, A.9.1.2, A.9.4.1, A.9.4.4, A.9.4.5, A.13.1.1, A.14.1.2, A.14.1.3, A.18.1.3
SAHD-5	Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls?	Yes	=	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-5.1	Does the device provide role-based access controls?	No	Granular access controls are present but are applied on a user-by-user basis.	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery?	Yes	_	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
SAHD-6.1	Are any system or user accounts configurable by the end user after initial configuration? Does this include restricting certain system or user	Yes	-	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.2	accounts, such as service technicians, to least privileged access?	Yes	_	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-7	Are all shared resources (e.g., file shares) which are not required for the intended use of the device disabled?	Yes	_	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-8	Are all communication ports and protocols that are not required for the intended use of the device disabled? Are all services (e.g., telnet, file transfer protocol [FTP],	Yes	-	Section 5.15, SAHD	SA-18	None
SAHD-9	internet information server [IIS], etc.), which are not required for the intended use of the device deleted/disabled?	Yes	_	Section 5.15, SAHD	CM-6	None
SAHD-10	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 device deleted/disabled?	Yes	_	Section 5.15, SAHD	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
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	This is inherited from the customer-supplied hardware configuration.			
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	N/A	This is inherited from the customer-supplied hardware configuration.			
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?	Yes				
SHAD-15	Can the system prevent access to BIOS or other bootloaders during boot?	N/A	This is inherited from the customer-supplied hardware configuration.			
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	_			
	SECURITY GUIDANCE (SGUD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Availability of security guidance for operator and administrator of the device and manufacturer sales and service.	1		IEC IN 00001-2-2:2012	NI31 3F 0UU-33 REV. 4	130 27002:2013
SGUD-1	Does the device include security documentation for the owner/operator?	Yes	_	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
SGUD-2	Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media?	e Yes	_	Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7



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SGUD-3	Are all access accounts documented?	Yes	_	Section 5.16, SGUD	AC-6,IA-2	A.9.1.2, A.9.2.3, A.9.4.4, A.9.4.5/A.9.2.1
SGUD-3.1	Can the owner/operator manage password control for all accounts?	Yes	_			
SGUD-4	Does the product include documentation on recommended compensating controls for the device?	No				
	·		_			
	HEALTH DATA STORAGE CONFIDENTIALITY (STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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.			TEC IN 00001-2-2.2012	14151 31 000-33 Rev. 4	130 27002.2013
STCF-1 STCF-1.1	Can the device encrypt data at rest? Is all data encrypted or otherwise protected?	N/A N/A	Inherited from the customer's infrastructure which may provide some flavour of full disk or object storage encryption that is transparent to the application.	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.2	Is the data encryption capability configured by default? Are instructions available to the customer to configure	N/A				
STCF-1.3 STCF-2	encryption? Can the encryption keys be changed or configured?	N/A N/A		Section 5.17, STCF	SC-28	A.8.2.3
STCF-3	Is the data stored in a database located on the device?	Yes	_			
STCF-4	Is the data stored in a database external to the device?	See Notes	Device always maintains an internal database; in certain configurations can also store to external databases			
	TRANSMISSION CONFIDENTIALITY (TXCF) The ability of the device to ensure the confidentiality of			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	transmitted personally identifiable information.					
TXCF-1	Can personally identifiable information be transmitted only via a point-to-point dedicated cable? Is personally identifiable information encrypted prior to	No	Device is networked as part of normal operation.	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-2	transmission via a network or removable media? If data is not encrypted by default, can the customer	See Notes	TLS is recommended but not required.	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-2.1	configure encryption options?	Yes	_			
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	Yes	Fixed list can be updated by customers.	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4	Are connections limited to authenticated systems?	See Notes	Client authentication through TLS is recommended but not required.	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	See Notes	TLS is recommended but not required.			
	TRANSMISSION INTEGRITY (TXIG) The ability of the device to ensure the integrity of			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	transmitted data.					
TXIG-1	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission?	Yes		Section 5.19, TXIG	SC-8	A.8.2.3, A.13.1.1, A.13.2.1, A.13.2.3, A.14.1.2, A.14.1.3
TXIG-2	Does the device include multiple sub-components connected by external cables?	N/A	Device is software-only. Hardware configuration is inherited from the customer.	•		
- -						
	REMOTE SERVICE (RMOT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.					
RMOT-1	Does the device permit remote service connections for device analysis or repair?	Yes			AC-17	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2
	The state of the s		_		*	,



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	Does the device allow the owner/operator to initiative	Remote service ca	be performed by authorized		
RMOT-1.1	remote service sessions for device analysis or repair?	No manufacturer rep	esentatives as needed.		
	Is there an indicator for an enabled and active remote				
RMOT-1.2	session?	No			
	Can patient data be accessed or viewed from the device				A.6.2.1, A.6.2.2, A.13.1.1,
RMOT-1.3	during the remote session?	Yes		AC-17	A.13.2.1, A.14.1.2
	Does the device permit or use remote service				
RMOT-2	connections for predictive maintenance data?	Yes			
		Updates are perfo	med manually via remote service		
	Does the device have any other remotely accessible	representative. Tr	aining on UI functionality, etc, may		
RMOT-3	functionality (e.g. software updates, remote training)?	See Notes occur via screen-s	aring session.		

OTHER SECURITY CONSIDERATIONS (OTHR) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

NONE

Notes:

Example note. Please keep individual notes to one cell. Note 1 Please use separate notes for separate information