

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Vital Images Incorporated

Vitrea Connection 8.3 2020.09.026 24-Mar-2021

Question ID Question See note IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013 DOC-1 Manufacturer Name Vital Images Incorporated Vitrea Connection is a secure, patientcentric platform based on open standards (HL7, DICOM, IHE XDS, and MINT) which provides cross-enterprise sharing of clinical images and documents and enables seamless integration between healthcare DOC-2 Device Description systems. DOC-3 Device Model Vitrea Connection 8.3 DOC-4 Document ID 2020.09.026 Michel Pawlicz, Director of Operations 19 Regina St North, Waterloo, Ontario, N2J 2Z9 Canada +1-226-798-5780 DOC-5 Manufacturer Contact Information Storage and distribution of medical Intended use of device in network-connected images and associated medical record DOC-6 environment: DOC-7 Document Release Date March 24, 2021 Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program for DOC-8 this device? ISAO: Is the manufacturer part of an Information Sharing Manufacturer monitors Common Vulnerability and DOC-9 and Analysis Organization? Exposures (CVE) publications Diagram: Is a network or data flow diagram available that 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? implementation 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? Yes Does the SaMD rely on an owner/operator provided operating system? DOC-11.2 No Is the SaMD hosted by the manufacturer? DOC-11.3 No DOC-11.4 Is the SaMD hosted by the customer? Yes Yes, No, N/A, or Note# See Note MANAGEMENT OF PERSONALLY IDENTIFIABLE 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))? AR-2 A.15.1.4 Does the device maintain personally identifiable MPII-2 information? Yes AR-2 A.15.1.4 Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until MPII-2.1 cleared by power-off or reset)? AR-2 A.15.1.4 Does the device store personally identifiable information persistently on internal media? MPII-2.2 Is personally identifiable information preserved in the MPII-2.3 device's non-volatile memory until explicitly erased? Does the device store personally identifiable information MPII-2.4 in a database? Does the device allow configuration to automatically delete local personally identifiable information after it is MPII-2.5 stored to a long term solution? AR-2 A.15.1.4



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	Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable					
MPII-2.6	information to a server)? Does the device maintain personally identifiable information when powered off, or during power service	Yes	-		AR-2	A.15.1.4
MPII-2.7	interruptions? Does the device allow the internal media to be removed by a service technician (e.g., for separate destruction or	Yes	-		AR-2	A.15.1.4
MPII-2.8	customer retention)? Does the device allow personally identifiable	Yes	-			
	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)? Does the device have mechanisms used for the transmitting, importing/exporting of personally	Yes			AR-2	A.15.1.4
MPII-3	identifiable information? Does the device display personally identifiable	Yes	_		AR-2	A.15.1.4
MPII-3.1	information (e.g., video display, etc.)? Does the device generate hardcopy reports or images	Yes	_		AR-2	A.15.1.4
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,					
MPII-3.3	USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD card, memory stick, etc.)?	No	_		AR-2	A.15.1.4
MPII-3.4	Does the device transmit/receive or import/export personally identifiable information via dedicated cable connection (e.g., RS-232, RS-423, USB, FireWire, etc.)?	No	_		AR-2	A.15.1.4
MPII-3.5	Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)?	Yes	_		AR-2	A.15.1.4
	Does the device transmit/receive personally identifiable					
MPII-3.6	information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared, cellular, etc.)?	See Notes	Inherited from customer network configuration		AR-2	A.15.1.4
MPII-3.7	Does the device transmit/receive personally identifiable information over an external network (e.g., Internet)? Does the device import personally identifiable	See Notes	Inherited from customer network configuration		AR-2	A.15.1.4
MPII-3.8	information via scanning a document? Does the device transmit/receive personally identifiable	No				
MPII-3.9	information via a proprietary protocol? Does the device use any other mechanism to transmit,	Yes	Private data can be imported and exported to local disk			
MPII-3.10 Management of Privat	import or export personally identifiable information?	See Notes	through a web browser		AR-2 AR-2	A.15.1.4 A.15.1.4
	AUTOMATIC LOGOFF (ALOF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's ability to prevent access and misuse by 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					
ALOF-1	inactivity (e.g., auto-logoff, session lock, password protected screen saver)?	Yes	_	Section 5.1, ALOF	AC-12	None
ALOF-2	Is the length of inactivity time before auto-logoff/screen lock user or administrator configurable?	Yes	Configurable	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
	AUDIT CONTROLS (AUDT)			IEC TR 80001-2-2:2012	NICT CD 900 F2 Days 4	150 27002-2012
	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device.			IEC IK 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
AUDT-1	Can the medical device create additional audit logs or reports beyond standard operating system logs?	Yes		Section 5.2, AUDT	AU-1	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2



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			Both the requesting user's ID and IP are captured by the			
AUDT-1.1	Does the audit log record a USER ID?	Yes	devices audit record. For more information, please see the Vitrea Connection Admin Tools Guide.			
			The MRN of the patient's record (as provided by the healthcare provider) may also be present based on the			
AUDT-1.2	Does other personally identifiable information exist in the audit trail?	Yes	event type. For more information, please see the Vitrea Connection Admin Tools Guide.	Section 5.2, AUDT	AU-2	None
AUDT-2	Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log:	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.1	Successful login/logout attempts?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.2	Unsuccessful login/logout attempts?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.3	Modification of user privileges?	No		Section 5.2, AUDT	AU-2	None
AUDT-2.4	Creation/modification/deletion of users?	No		Section 5.2, AUDT	AU-2	None
AUDT-2.5	Presentation of clinical or PII data (e.g. display, print)?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.6	Creation/modification/deletion of data?	Yes		Section 5.2, AUDT	AU-2	None
	Import/export of data from removable media (e.g. USB			,		
AUDT-2.7	drive, external hard drive, DVD)?	N/A		Section 5.2, AUDT	AU-2	None
	Receipt/transmission of data or commands over a					
AUDT-2.8	network or point-to-point connection?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Remote or on-site support?	No		Section 5.2, AUDT	AU-2	None
	Application Programming Interface (API) and similar					
AUDT-2.8.2	activity?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.9	Emergency access?	Yes	"Break the glass" events are audited	Section 5.2, AUDT	AU-2	None
AUDT-2.10	Other events (e.g., software updates)?	No		Section 5.2, AUDT	AU-2	None
AUDT-2.11	Is the audit capability documented in more detail?	Yes		Section 5.2, AUDT	AU-2	None
	Can the owner/operator define or select which events are					
AUDT-3	recorded in the audit log?	No		Section 5.2, AUDT	AU-2	None
	Is a list of data attributes that are captured in the audit					
AUDT-4	log for an event available?	Yes	Audit event format is defined and documented.	Section 5.2, AUDT	AU-2	None
AUDT-4.1	Does the audit log record date/time?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-4.1.1	Can date and time be synchronized by Network Time Protocol (NTP) or equivalent time source?	Yes	Uses system time, which can be synched at the OS level	Section 5.2, AUDT	AU-2	Ness
AUDT-5		Yes	oses system time, which can be synched at the os level	Section 5.2, AUDT	AU-2 AU-2	None
AUDT-5.1	Can audit log content be exported? Via physical media?	No		Section 5.2, AOD1	AU-2	None
A0D1-3.1	Via IHE Audit Trail and Node Authentication (ATNA)	NO				
AUDT-5.2	profile to SIEM?	Yes				
7.051 3.2	Via Other communications (e.g., external service device,					
AUDT-5.3	mobile applications)?	No				
AUDT-5.4	Are audit logs encrypted in transit or on storage media?	Yes	Depends on customer configuration (TLS is optional)			
	Can audit logs be monitored/reviewed by					
AUDT-6	owner/operator?	Yes				
AUDT-7	Are audit logs protected from modification?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-7.1	Are audit logs protected from access?	Yes				
			Audit logs are stored in a raw format and must be			
AUDT-8	Can audit logs be analyzed by the device?	No	manually reviewed by a user.	Section 5.2, AUDT	AU-2	None
	AUTHORIZATION (AUTH)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to determine the authorization			12C 11C 00001 2 2:2012	11131 31 000 33 Nev. 4	150 27002.2015
	of users.					
	Does the device prevent access to unauthorized users					
AUTH-1	through user login requirements or other mechanism?	Yes		Section 5.3, AUTH	IA-2	A.9.2.1
	Can the device be configured to use federated credentials		_			
	management of users for authorization (e.g., LDAP,					
AUTH-1.1	OAuth)?	Yes	_	Section 5.3, AUTH	IA-2	A.9.2.1
	Can the customer push group policies to the device (e.g.,					
AUTH-1.2	Active Directory)?	No	The device runs on the Linux OS.	Section 5.3, AUTH	IA-2	A.9.2.1
	Are any special groups, organizational units, or group					
AUTH-1.3	policies required?	No	_	Section 5.3, AUTH	IA-2	A.9.2.1
	Can users be assigned different privilege levels based on	v.		e.u., e.e - .		
AUTH-2	'role' (e.g., user, administrator, and/or service, etc.)?	Yes	_	Section 5.3, AUTH	IA-2	A.9.2.1



CSUP-5.1

updates?

Yes

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	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)? Does the device authorize or control all API access	Yes	_	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-4	requests?	Yes		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-5	Does the device run in a restricted access mode, or 'kiosk mode', by default?	No	_			
	CYBER SECURITY PRODUCT UPGRADES (CSUP) The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
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.		The device ships with a set of integrated software platform packages that are reviewed and updated at each release gate by the vendor. The customer however retains the responsibility of updating the operating system and underlying infrastructure in accordance with their information security policies.			
CSUP-2	Does the device contain an Operating System? If yes, complete 2.1-2.4.	Yes	7,			
2301 2	Does the device documentation provide instructions for owner/operator installation of patches or software		_			
CSUP-2.1	updates? Does the device require vendor or vendor-authorized	Yes	_			
CSUP-2.2	service to install patches or software updates? Does the device have the capability to receive remote	Yes				
CSUP-2.3	installation of patches or software updates?	Yes	_			
CSUP-2.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	No				
CSUP-3	Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4.	No	_			
	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	N/A	-			
CSUP-3.2	service to install patches or software updates? Does the device have the capability to receive remote	N/A	_			
CSUP-3.3	installation of patches or software updates? Does the medical device manufacturer allow security	N/A	_			
CSUP-3.4	updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A				
CSUP-4	Does the device contain Anti-Malware Software? If yes, complete 4.1-4.4.	No	While the device does not contain anti-malware software, the customer is free to install their own.			
	Does the device documentation provide instructions for owner/operator installation of patches or software		5, Alexandric In recommend with			
CSUP-4.1	updates? Does the device require vendor or vendor-authorized	N/A	_			
CSUP-4.2	service to install patches or software updates? Does the device have the capability to receive remote	N/A	_			
CSUP-4.3	installation of patches or software updates?	N/A	_			
CSUP-4.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A				
CSUP-5	Does the device contain Non-Operating System commercial off-the-shelf components? If yes, complete 5.1-5.4.	Yes	_			
C50F-5	Does the device documentation provide instructions for owner/operator installation of patches or software		_			



CSUP-9

CSUP-10

CSUP-10.1

CSUP-11

CSUP-11.1

CSUP-11.2

party software that can be installed on the device?

third-party software on the device themselves?

Does the system have mechanism in place to prevent

Is there an update review cycle for the device?

installation of unapproved software?

device vulnerabilities and updates?

and approval status of updates?

Can the owner/operator install manufacturer-approved

Does the manufacturer have a process in place to assess

Does the manufacturer provide customers with review

No

Vital Images 2020.09.026 24-Mar-2021 Vitrea Connection 8.3 Incorporated Does the device require vendor or vendor-authorized CSUP-5.2 service to install patches or software updates? Does the device have the capability to receive remote CSUP-5.3 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-5.4 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 CSUP-6 complete 6.1-6.4. Does the device documentation provide instructions for owner/operator installation of patches or software CSUP-6.1 updates? Does the device require vendor or vendor-authorized CSUP-6.2 service to install patches or software updates? Does the device have the capability to receive remote CSUP-6.3 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-6.4 manufacturer? Does the manufacturer notify the customer when CSUP-7 updates are approved for installation? Does the device perform automatic installation of CSUP-8 software updates? Does the manufacturer have an approved list of third-An archive of approved 3rd party software libraries is

distributed with each release.

Customers do not typically have root access.

	HEALTH DATA DE-IDENTIFICATION (DIDT) The ability of the device to directly remove information that allows identification of a person.		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DIDT-1	Does the device provide an integral capability to de- identify personally identifiable information? Does the device support de-identification profiles that	Yes	Section 5.6, DIDT	None	ISO 27038
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) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DTBK-1	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	Yes			
DTBK-2	the original device settings as provided by the manufacturer? Does the device have an integral data backup capability	No	Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-3	to removable media?	No	Section 5.7, DTBK	CP-9	A.12.3.1



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DTBK-4	Does the device have an integral data backup capability to remote storage? Does the device have a backup capability for system	Yes				
DTBK-5	configuration information, patch restoration, and software restoration? Does the device provide the capability to check the	Yes				
DTBK-6	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.					
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) How the device ensures that the stored data on the device has not been altered or destroyed in a non-			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	authorized manner and is from the originator. Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital					
IGAU-1	signature)? Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., RAID-	No	_	Section 5.9, IGAU	SC-28	A.18.1.3
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
	The ability of the device to effectively prevent, detect and remove malicious software (malware).		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		NIST SP 800-53 Rev. 4	ISO 27002:2013
MLDP-1	The ability of the device to effectively prevent, detect	Yes	deployment, we do not typically recommend the installation of additional executables. The customer however is able to install and manage additional	IEC TR 80001-2-2:2012 Section 5.10, MLDP	NIST SP 800-53 Rev. 4	ISO 27002:2013
MLDP-1	The ability of the device to effectively prevent, detect and remove malicious software (malware). Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes.		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 information security practices. Examples of anti-malware applications supported		NIST SP 800-53 Rev. 4	A12.2.1
MLDP-2 MLDP-2.1	The ability of the device to effectively prevent, detect and remove malicious software (malware). Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or	Yes N/A	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP	SI-3 CM-5	A12.2.1 A9.2.3, A9.4.5, A12.1.2, A12.1.4, A12.5.1
MLDP-2	The ability of the device to effectively prevent, detect and remove malicious software (malware). Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes. Does the device include anti-malware software by default? Does the device have anti-malware software available as an option? Does the device documentation allow the	Yes	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP	SI-3	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2,
MLDP-2 MLDP-2.1	The ability of the device to effectively prevent, detect and remove malicious software (malware). Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes. Does the device include anti-malware software by default? Does the device have anti-malware software available as an option? Does the device documentation allow the owner/operator to install or update anti-malware software?	Yes N/A	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP	SI-3 CM-5	A12.2.1 A9.2.3, A9.4.5, A12.1.2, A12.1.4, A12.5.1
MLDP-2 MLDP-2.1 MLDP-2.2	The ability of the device to effectively prevent, detect and remove malicious software (malware). Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes. Does the device include anti-malware software by default? Does the device have anti-malware software available as an option? Does the device documentation allow the owner/operator to install or update anti-malware	Yes N/A N/A	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP	SI-3 CM-5 AU-6	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1 A.12.4.1, A.16.1.2, A.16.1.4
MLDP-2.1 MLDP-2.2 MLDP-2.3 MLDP-2.4 MLDP-2.5	Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes. Does the device include anti-malware software by default? Does the device have anti-malware software available as an option? Does the device documentation allow the owner/operator to install or update anti-malware? Can the device owner/operator independently (re)configure anti-malware settings? Does notification of malware detection occur in the device user interface? Can only manufacturer-authorized persons repair	Yes N/A N/A N/A N/A N/A	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP	SI-3 CM-5 AU-6 CP-10	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1 A.12.4.1, A.16.1.2, A.16.1.4 A.17.1.2
MLDP-2.1 MLDP-2.2 MLDP-2.3 MLDP-2.4	Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes. Does the device include anti-malware software by default? Does the device have anti-malware software available as an option? Does the device documentation allow the owner/operator to install or update anti-malware software? Can the device owner/operator independently (re-)configure anti-malware settings? Does notification of malware settings? Does notification of malware settion occur in the device user interface?	Yes N/A N/A N/A	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP	SI-3 CM-5 AU-6 CP-10	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1 A.12.4.1, A.16.1.2, A.16.1.4 A.17.1.2
MLDP-2.1 MLDP-2.2 MLDP-2.3 MLDP-2.4 MLDP-2.5 MLDP-2.6	In a ability of the device to effectively prevent, detect and remove malicious software (malware). Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes. Does the device include anti-malware software by default? Does the device have anti-malware software available as an option? Does the device documentation allow the owner/operator to install or update anti-malware software? Can the device owner/operator independently (re-)configure anti-malware settings? Does notification of malware detection occur in the device user interface? Can only manufacturer-authorized persons repair systems when malware has been detected?	Yes N/A N/A N/A N/A N/A N/A N/A Yes	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 information security practices. Examples of anti-malware applications supported include those listed here: https://www.redhat.com/sysadmin/3-antimalware-	Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP Section 5.10, MLDP	SI-3 CM-5 AU-6 CP-10	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1 A.12.4.1, A.16.1.2, A.16.1.4 A.17.1.2



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	Does the device employ application whitelisting that					
	restricts the software and services that are permitted to					
MLDP-4	be run on the device?	No	_	Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	Yes	Device uses denyhosts	Section 5.10, MLDP	SI-4	None
	Can the host-based intrusion detection/prevention					
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					
	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					
NAUT-1	authorized to receive transferred information (e.g. Web APIs, SMTP, SNMP)?	Yes		Section 5.11, NAUT	SC-23	None
	Are network access control mechanisms supported (E.g.,					
NAUT-2	does the device have an internal firewall, or use a network connection white list)?	Yes		Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3, A.13.2.1,A.14.1.3
TVAOT Z	Is the firewall ruleset documented and available for	16	_	3000013.11,14401	30 /	A.13.2.1,A.14.1.3
NAUT-2.1	review?	Yes	_			
NAUT-3	Does the device use certificate-based network 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.					
CONN 1	Donath a donina hanna handiinaa aa	V				
CONN-1 CONN-1.1	Does the device have hardware connectivity capabilities? Does the device support wireless connections?	See Notes	— Inherited from customer network.			
CONN-1.1.1	Does the device support Wi-Fi?	See Notes	Inherited from customer network.			
CONN-1.1.2	Does the device support Bluetooth? Does the device support other wireless network	No	_			
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	No	_			
CONN-1.1.4	Does the device support other wireless connections (e.g., custom RF controls, wireless detectors)?	No				
CONN-1.1.4	custom ki controls, wheless detectors):	NO	Device is software only, installed on customer-supplied			
CONN-1.2	Does the device support physical connections?	N/A	hardware			
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	N/A	Device is software only, installed on customer-supplied hardware			
			Device is software only, installed on customer-supplied			
CONN-1.2.2	Does the device have available USB ports? Does the device require, use, or support removable	N/A	hardware 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? Does the manufacturer provide a list of network ports	N/A	_			
	and protocols that are used or may be used on the					
CONN-2	device?	Yes	_			
CONN-3	Can the device communicate with other systems within the customer environment?	Yes	_			
CONN-4	Can the device communicate with other systems external to the customer environment (e.g., a service host)?	Yes				
CONN-5	Does the device make or receive API calls?	Yes	_			
CONN-6	Does the device require an internet connection for its	San Notas	Minimally to facility remote support activity			
CONN-6 CONN-7	intended use? Does the device support Transport Layer Security (TLS)?	See Notes Yes	Minimally, to facility remote support activity			
CONN-7.1	Is TLS configurable?	Yes				



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CONN-8	Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	See Notes	Device provides a web-based UI that is accessed from a customer-provided workstation.			
	PERSON AUTHENTICATION (PAUT) The ability to configure the device to authenticate			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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
PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)?	Yes		Section 5.12, PAUT	IA-2	A.9.2.1
PAUI-1.1	Is the device configurable to authenticate users through	res		Section 5.12, PAOT	IA-Z	A.9.2.1
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-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	See Notes	If desired, managed through external authentication service	Section 5.12, PAUT	IA-2	A.9.2.1
	Are all default accounts (e.g., technician service			, ,		
PAUT-4	accounts, administrator accounts) listed in the documentation?	Yes		Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9, A.15.1.2
PAUT-5	Can all passwords be changed?	Yes	_	Section 5.12, PAUT	3A-4(3)	A.15.1.2
	Is the device configurable to enforce creation of user		_	·		
DAUTC	account passwords that meet established (organization	Con Notes	If desired, managed through external authentication	Cooking 5 42 DAUT	14.2	4021
PAUT-6	specific) complexity rules? Does the device support account passwords that expire	See Notes	service If desired, managed through external authentication	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-7	periodically?	See Notes	service			
PAUT-8	Does the device support multi-factor authentication?	No				
PAUT-9 PAUT-10	Does the device support single sign-on (SSO)? Can user accounts be disabled/locked on the device?	No See Notes	Managed through external authentication service	Section 5.12, PAUT Section 5.12, PAUT	IA-2 IA-2	A.9.2.1 A.9.2.1
PAUT-10 PAUT-11	Does the device support biometric controls?	See Notes No	ivialiaged till ough external authentication service	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-12	Does the device support physical tokens (e.g. badge access)?	No				
PAUT-13	Does the device support group authentication (e.g. hospital teams)?	No				
FA01-13	Does the application or device store or manage	140				
PAUT-14	authentication credentials?	See Notes	If LDAP is not used.			
PAUT-14.1	Are credentials stored using a secure method?	See Notes	If LDAP is not used, credentials are encrypted.			
	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.	Yes	_	Section 5.13, PLOK	PE-3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	Are all device components maintaining personally identifiable information (other than removable media)					
PLOK-2	physically secure (i.e., cannot remove without tools)?	N/A	_	Section 5.13, PLOK	PE-3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	Are all device components maintaining personally identifiable information (other than removable media)					
PLOK-3	physically secured behind an individually keyed locking device?	N/A	_	Section 5.13, PLOK	PE-3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	Does the device have an option for the customer to					
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 components within the device's life cycle.	,		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013



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RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	IEC62304	Section 5.14, RDMP	CM-2	None
NOW! 1	Does the manufacturer evaluate third-party applications and software components included in the device for		1202304	Section 3.14, Novii	CIVI Z	None
RDMP-2	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? Does the manufacturer have a plan for managing third-	Yes	_	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-4	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
	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? Does the SBoM follow a standard or common method in		_			
SBOM-2 SBOM-2.1	describing software components? Are the software components identified?	Yes Yes	-			
SBOM-2.2	Are the developers/manufacturers of the software components identified?	Yes	_			
	Are the major version numbers of the software		_			
SBOM-2.3 SBOM-2.4	components identified? Are any additional descriptive elements identified?	Yes Yes	_			
3BOIVI-2.4	Does the device include a command or process method available to generate a list of software components	res	_			
SBOM-3	installed on the device?	No	_			
SBOM-4	Is there an update process for the SBoM?	Yes	_			
	SYSTEM AND APPLICATION HARDENING (SAHD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's inherent resistance to cyber attacks and malware.				CM-7	A.12.5.1*
SAHD-1	Is the device hardened in accordance with any industry standards?	No		Section 5.15, SAHD	AC-17(2)/IA-3	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2/None
			_			A.14.2.7, A.15.1.1, A.15.1.2,
SAHD-2	Has the device received any cybersecurity certifications? Does the device employ any mechanisms for software	No	_	Section 5.15, SAHD	SA-12(10)	A.15.1.3
SAHD-3	integrity checking	No	_			
	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?	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-		Updates are downloaded from a controlled repository			
SAHD-3.2	authorized updates? Can the owner/operator perform software integrity	No	by an administrator and are not applied automatically	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2 A.6.2.2, A.9.1.2, A.9.4.1,
SAHD-4	checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the implementation	No	The customer supplies their own means of verifying platform integrity (eg. file monitoring etc).	Section 5.15, SAHD	AC-3	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	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? Are any system or user accounts restricted or disabled by	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	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?	Yes	_	Section 5.15, SAHD	CM-7	A.12.5.1*



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	Does this include restricting certain system or user accounts, such as service technicians, to least privileged					
SAHD-6.2	access? Are all shared resources (e.g., file shares) which are not	Yes	_	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-7	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?	Yes	_	Section 5.15, SAHD	SA-18	None
CALID O	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	Ven		Castina E 45 CAUD	CMC	Ness
SAHD-9	deleted/disabled? Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.)	Yes	-	Section 5.15, SAHD	CM-6	None
SAHD-10	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
5/11/5/10	Can the device prohibit boot from uncontrolled or		_	50010113123, 374115	5, 1	7.120.2.5
	removable media (i.e., a source other than an internal		This is inherited from the customer-supplied hardware			
SAHD-11	drive or memory component)?	N/A	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				
JAND-13	Can the device be hardened beyond the default provided		_			
SAHD-14	state? Are instructions available from vendor for increased	Yes	_			
SAHD-14.1	hardening? Can the system prevent access to BIOS or other	Yes	This is inherited from the customer-supplied hardware			
SHAD-15	bootloaders during boot? Have additional hardening methods not included in	N/A	configuration.			
SAHD-16	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
	SECURITY GUIDANCE (SGUD) Availability of security guidance for operator and administrator of the device and manufacturer sales and service.	1		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SGUD-1	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator?	Yes	_	IEC TR 80001-2-2:2012 Section 5.16, SGUD	NIST SP 800-53 Rev. 4 AT-2/PL-2	ISO 27002:2013 A7.2.2, A12.2.1/A14.1.1
SGUD-1	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide	Yes	_			A7.2.2, A12.2.1/A.14.1.1
SGUD-1 SGUD-2	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator?	Yes				A7.2.2, A12.2.1/A14.1.1 A8.2.3, A8.3.1, A8.3.2, A11.2.7
	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the	Yes	- -	Section 5.16, SGUD	AT-2/PL-2	A7.2.2, A12.2.1/A14.1.1 A8.2.3, A8.3.1, A8.3.2,
SGUD-2 SGUD-3	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all	Yes e Yes Yes	_ _ _ _	Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6	A7.2.2, A12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-2 SGUD-3 SGUD-3.1	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on	Yes P Yes Yes Yes	- - -	Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6	A7.2.2, A12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-2 SGUD-3	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts?	Yes e Yes Yes	- - - -	Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6	A7.2.2, A12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-2 SGUD-3 SGUD-3.1	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on	Yes P Yes Yes Yes	- - - -	Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6	A7.2.2, A12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-2 SGUD-3 SGUD-3.1	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on	Yes P Yes Yes Yes	- - - -	Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6	A7.2.2, A12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-2 SGUD-3 SGUD-3.1	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on recommended compensating controls for the device?	Yes P Yes Yes Yes	- - - -	Section 5.16, SGUD Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6 AC-6,IA-2	A7.2.2, A12.2.1/A.14.1.1 A8.2.3, A8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4, A.9.4.5/A.9.2.1
SGUD-2 SGUD-3 SGUD-3.1 SGUD-4	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on recommended compensating controls for the device? 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.	Yes e Yes Yes No	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 5.16, SGUD Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6 AC-6,IA-2	A7.2.2, A12.2.1/A.14.1.1 A8.2.3, A8.3.1, A.8.3.2, A11.2.7 A.9.1.2, A.9.2.3, A.9.4.4, A.9.4.5/A.9.2.1
SGUD-3 SGUD-3.1 SGUD-4	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on recommended compensating controls for the device? 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. Can the device encrypt data at rest? Is all data encrypted or otherwise protected? Is the data encryption capability configured by default?	Yes e Yes Yes Yes No	provide some flavour of full disk or object storage	Section 5.16, SGUD Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6 AC-6,IA-2 NIST SP 800-53 Rev. 4	A7.2.2, A12.2.1/A14.1.1 A8.2.3, A8.3.1, A8.3.2,
SGUD-2 SGUD-3.1 SGUD-4 STCF-1 STCF-1.1 STCF-1.2	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on recommended compensating controls for the device? 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. Can the device encrypt data at rest? Is all data encrypted or otherwise protected? Is the data encryption capability configured by default? Are instructions available to the customer to configure	Yes Pes Yes Yes No N/A N/A N/A	provide some flavour of full disk or object storage	Section 5.16, SGUD Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6 AC-6,IA-2 NIST SP 800-53 Rev. 4	A7.2.2, A12.2.1/A14.1.1 A8.2.3, A8.3.1, A8.3.2,
SGUD-2 SGUD-3 SGUD-3.1 SGUD-4	Availability of security guidance for operator and administrator of the device and manufacturer sales and service. Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media? Are all access accounts documented? Can the owner/operator manage password control for all accounts? Does the product include documentation on recommended compensating controls for the device? 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. Can the device encrypt data at rest? Is all data encrypted or otherwise protected? Is the data encryption capability configured by default?	Yes e Yes Yes Yes No	provide some flavour of full disk or object storage	Section 5.16, SGUD Section 5.16, SGUD Section 5.16, SGUD	AT-2/PL-2 MP-6 AC-6,IA-2 NIST SP 800-53 Rev. 4	A7.2.2, A12.2.1/A14.1.1 A8.2.3, A8.3.1, A8.3.2,



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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 transmitted personally identifiable information.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
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? Is personally identifiable information transmission restricted to a fixed list of network destinations?	Yes 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 transmitted data.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
TXIG-1	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission? Does the device include multiple sub-components	Yes	Device is software-only. Hardware configuration is	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	connected by external cables?	N/A	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
RMOT-1.1	Does the device allow the owner/operator to initiative remote service sessions for device analysis or repair?	No	Remote service can be performed by authorized manufacturer representatives as needed.		AC-17	A.15.2.1, A.14.1.2
RMOT-1.2	Is there an indicator for an enabled and active remote session?	No				
RMOT-1.3	Can patient data be accessed or viewed from the device during the remote session?	Yes	_		AC-17	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2
RMOT-2	Does the device permit or use remote service connections for predictive maintenance data?	Yes	— Updates are performed manually via remote service			
RMOT-3	Does the device have any other remotely accessible functionality (e.g. software updates, remote training)?	See Notes	representative. Training on UI functionality, etc, may occur via screen-sharing session.			
	OTHER SECURITY CONSIDERATIONS (OTHR) NONE Notes: Example note. Please keep individual notes to one cell.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
Note 1	Please use separate notes for separate information					