### Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Vital Images Incorporated	Vitrea Connection 8.4	2020.09.026	30-Jun-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				
DOC-2 DOC-3 DOC-4	Device Description Device Model Document ID	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 integration between healthcare systems. Vitrea Connection 8.4 2020.09.026 Michel Pawlicz, Director of Operations 19 Regina St North, Waterloo,				
		Ontario, N2J 2Z9 Canada +1-226-798-				
DOC-5	Manufacturer Contact Information	5780 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	June 30, 2021	-			
	Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program for	r	_			
DOC-8	this device?	Yes	_			
	ISAO: Is the manufacturer part of an Information Sharing		Manufacturer monitors Common Vulnerability and			
DOC-9	and Analysis Organization?	Yes	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?	Yes	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					
DOC-11.2	operating system?	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 See Note	Note#			
	MANAGEMENT OF PERSONALLY IDENTIFIABLE			IFC TD 00001 3 3-3013	NUCT CD 000 F3 Dave 4	100 37003-2012
	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
	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)?	Yes	-		AR-2	A.15.1.4
	Does the device store personally identifiable information					
MPII-2.2	persistently on internal media?	Yes				
	Is personally identifiable information preserved in the					
MPII-2.3	device's non-volatile memory until explicitly erased?	Yes				
	Does the device store personally identifiable information					
MPII-2.4	in a database?	Yes				
	Does the device allow configuration to automatically					
	delete local personally identifiable information after it is					
MPII-2.5	stored to a long term solution?	No			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			
MPII-2.6	monitoring device might export personally identifiable information to a server)?	Yes		
	Does the device maintain personally identifiable		_	
MPII-2.7	information when powered off, or during power service interruptions?	Yes		
	Does the device allow the internal media to be removed		—	
MPII-2.8	by a service technician (e.g., for separate destruction or customer retention)?	Yes		
IVIP11-2.0	Does the device allow personally identifiable	ies	-	
	information records be stored in a separate location			
	from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote			
MPII-2.9	storage location)?	Yes		
	Does the device have mechanisms used for the transmitting, importing/exporting of personally			
MPII-3	identifiable information?	Yes	_	
MPII-3.1	Does the device display personally identifiable	Yes		
IVIP11-3.1	information (e.g., video display, etc.)? Does the device generate hardcopy reports or images	105	_	
MPII-3.2	containing personally identifiable information?	No	_	
	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		
191711-2.2	Does the device transmit/receive or import/export	NO	_	
	personally identifiable information via dedicated cable			
MPII-3.4	connection (e.g., RS-232, RS-423, USB, FireWire, etc.)? Does the device transmit/receive personally identifiable		_	
	information via a wired network connection (e.g., RJ45,			
MPII-3.5	fiber optic, etc.)?	Yes	_	
	Does the device transmit/receive personally identifiable			
MDU 2.6	information via a wireless network connection (e.g.,	See Notes	In boritad from our tomor patwork on - for which	
MPII-3.6	WiFi, Bluetooth, NFC, infrared, cellular, etc.)?	See Notes	Inherited from customer network configuration	
	Does the device transmit/receive personally identifiable			
MPII-3.7	information over an external network (e.g., Internet)? Does the device import personally identifiable	See Notes	Inherited from customer network configuration	
MPII-3.8	information via scanning a document?	No		
MPII-3.9	Does the device transmit/receive personally identifiable			
WPII-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	import or export personally identifiable information?	See Notes	through a web browser	
Management of Priv	rate Data notes:			

	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					
	inactivity (e.g., auto-logoff, session lock, password					
ALOF-1	protected screen saver)?	Yes	_	Section 5.1, ALOF	AC-12	None
	Is the length of inactivity time before auto-logoff/screen					
ALOF-2	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	NIST SP 800-53 Rev. 4	ISO 27002:2013

# The ability to reliably audit activity on the device. Image: Construction of the medical device create additional audit logs or AUDT-1 AUDT-1 reports beyond standard operating system logs? Yes

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			
			devices audit record. For more information, please see			
AUDT-1.1	Does the audit log record a USER ID?	Yes	the Vitrea Connection Admin Tools Guide.			
			The MRN of the patient's record (as provided by the			
	Does other personally identifiable information exist in		healthcare provider) may also be present based on the event type. For more information, please see the Vitrea			
AUDT-1.2	the audit trail?	Yes	Connection Admin Tools Guide.	Section 5.2, AUDT	AU-2	None
	Are events recorded in an audit log? If yes, indicate whic	h				
AUDT-2	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 AUDT-2.3	Unsuccessful login/logout attempts?	Yes		Section 5.2, AUDT	AU-2 AU-2	None
AUDT-2.4	Modification of user privileges? Creation/modification/deletion of users?	No		Section 5.2, AUDT Section 5.2, AUDT	AU-2 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 AUDT-2.8.1	network or point-to-point connection?	Yes No		Section 5.2, AUDT	AU-2 AU-2	None None
AUD1-2.8.1	Remote or on-site support? Application Programming Interface (API) and similar	NO		Section 5.2, AUDT	AU-2	None
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 ar					
AUDT-3	recorded in the audit log?	No		Section 5.2, AUDT	AU-2	None
AUDT-4	Is a list of data attributes that are captured in the audit 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
	Can date and time be synchronized by Network Time					
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	Yes	Uses system time, which can be synched at the OS level	Section 5.2, AUDT	AU-2	None
AUDT-5	Can audit log content be exported?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-5.1	Via physical media?	No				
AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM?	Yes				
A001 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 AUDT-7	owner/operator? Are audit logs protected from modification?	Yes Yes		Section 5.2, AUDT	AU-2	None
AUDT-7.1	Are audit logs protected from access?	Yes		Section 5.2, ADD 1	A0-2	None
//001//12	Are addre togs protected it off decess.		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	NUCT CD 800 F2 Dave 4	ISO 27002:2013
	. ,			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	150 27002:2013
	The ability of the device to determine the authorization 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 credential	s				
	management of users for authorization (e.g., LDAP,					
AUTH-1.1	OAuth)?	Yes	-	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.2	Can the customer push group policies to the device (e.g. Active Directory)?	, No	The device runs on the Linux OS.	Section 5.3, AUTH	IA-2	A.9.2.1
AUTI-1.2	Are any special groups, organizational units, or group	10	ine device rails on the chiux os.	Section 5.5, Aom	18-2	P.J.L.1
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					
AUTH-2	'role' (e.g., user, administrator, and/or service, etc.)?	Yes		Section 5.3, AUTH	IA-2	A.9.2.1

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Incorporated	Vitrea Connection 8.4	2020.09.026	30-Jun-2021			
	Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access					
AUTH-3	operating system or application via local root or administrator account)?	Yes	_	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-4	Does the device authorize or control all API access 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)			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.					
	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,		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			
CSUP-1	answer "N/A" to questions in this section. Does the device contain an Operating System? If yes,	Yes	with their information security policies.			
CSUP-2	complete 2.1-2.4.	Yes	_			
CSUP-2.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	Yes	_			
CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	_			
CSUP-2.3	Does the device have the capability to receive remote installation of patches or software updates?	Yes				
	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g.,		_			
CSUP-2.4	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?	N/A	_			
	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the					
CSUP-3.4	manufacturer? Does the device contain Anti-Malware Software? If yes,	N/A	— While the device does not contain anti-malware			
CSUP-4	complete 4.1-4.4. Does the device documentation provide instructions for	No	software, the customer is free to install their own.			
CSUP-4.1	owner/operator installation of patches or software updates?	N/A	_			
CSUP-4.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	_			
CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A				
	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the					
CSUP-4.4	manufacturer? Does the device contain Non-Operating System	N/A	_			
CSUP-5	commercial off-the-shelf components? If yes, complete 5.1-5.4.	Yes	_			
	Does the device documentation provide instructions for owner/operator installation of patches or software					
CSUP-5.1	updates?	Yes	_			

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CSUP-5.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes			
CSUP-5.2	Does the device have the capability to receive remote	res	-		
CSUP-5.3	installation of patches or software updates?	Yes			
CSUP-5.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	Νο			
CSUP-6	Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4.	No	_		
CSUP-6.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A			
	Does the device require vendor or vendor-authorized				
CSUP-6.2	service to install patches or software updates?	N/A	_		
CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A	_		
CSUP-6.4	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			
	Does the manufacturer notify the customer when		-		
CSUP-7	updates are approved for installation?	Yes	_		
CSUP-8	Does the device perform automatic installation of software updates?	No	_		
CSUP-9	Does the manufacturer have an approved list of third- party software that can be installed on the device?	Yes	An archive of approved 3rd party software libraries is distributed with each release.		
CSUP-10	Can the owner/operator install manufacturer-approved 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	Customers do not typically have root access.		
CSUP-11	Does the manufacturer have a process in place to assess 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			

The ability of the device to directly remove information that allows identification of a person.   DIDT-1   DiDT-1   DiDT-1.1   DiDT-1.1   DiDT-1.1   DiDT-1.1   None   IDIDT-1.1   None   DiDT-1.1   None   IDIDT-1.1   IDIDT-1.1   None   IDIDT-1.1   IDIDT-1.1		HEALTH DATA DE-IDENTIFICATION (DIDT)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DIDT-1       identify personally identifiable information?       Yes       Section 5.6, DIDT       None       ISO 27038         DiDT-1.1       Didt the device support de-identification profiles that       No       Section 5.6, DIDT       None       ISO 27038         DIDT-1.1       OIDT ABACKUP AND DISASTER RECOVERY (DTBK)       No       ISO 27038       ISO 27038         The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.       ISO 27038       IEC TR 80001-2-2:2012       NIST SP 800-53 Rev. 4       ISO 27002:2013         Does the device maintain long term primary storage or gets maintain long term primary storage or personally identifiable information / patient information       Iso 27018       ISO 27028						
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 device data, hardware, software, or site configuration information.       Does the device maintain long term primary storage of personally identifiable information / patient information       NIST SP 800-53 Rev. 4       ISO 27002:2013	DIDT-1	identify personally identifiable information?	Yes	Section 5.6, DIDT	None	ISO 27038
The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information	DIDT-1.1	comply with the DICOM standard for de-identification?	No	Section 5.6, DIDT	None	ISO 27038
The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information						
device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information / patient information		DATA BACKUP AND DISASTER RECOVERY (DTBK)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
personally identifiable information / patient information		device data, hardware, software, or site configuration				
			n			
DIBK-1 (e.g. PACS)? Yes	DTBK-1	(e.g. PACS)?	Yes			
Does the device have a "factory reset" function to restore the original device settings as provided by the			2			
DTBK-2         manufacturer?         No          Section 5.7, DTBK         CP-9         A.12.3.1	DTBK-2	manufacturer?	No	Section 5.7, DTBK	CP-9	A.12.3.1
Does the device have an integral data backup capability						
DTBK-3         to removable media?         No	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			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	device has not been altered or destroyed in a non- authorized manner and is from the originator. Does the device provide data integrity checking					
IGAU-1	mechanisms of stored health data (e.g., hash or digital signature)? Does the device provide error/failure protection and	No	-	Section 5.9, IGAU	SC-28	A.18.1.3
IGAU-2	recovery mechanisms for stored health data (e.g., RAID- 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 accord accountible their accounting their accord accountible their accord accountible their accountible th	IEC TR 80001-2-2:2012	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?	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	IEC TR 80001-2-2:2012 Section 5.10, MLDP	NIST SP 800-53 Rev. 4	ISO 27002:2013
MLDP-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.		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.		NIST SP 800-53 Rev. 4	A.12.2.1
	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?		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		
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	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1
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	A12.2.1 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 MLDP-2.1 MLDP-2.2 MLDP-2.3 MLDP-2.4 MLDP-2.5	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 by default? 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	Yes 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 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 MLDP-2.1 MLDP-2.2 MLDP-2.3 MLDP-2.4	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? Can the device owner/operator independently (re- )configure anti-malware settings? Does notification of malware detection 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 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 MLDP-2.1 MLDP-2.2 MLDP-2.3 MLDP-2.4 MLDP-2.5 MLDP-2.6	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? 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 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 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					
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
WEDF 4	Does the device employ a host-based intrusion	NO	-	Section 5.10, MEDP	C-1C	A.12.2.1
MLDP-5	detection/prevention system?	Yes	Device uses denyhosts	Section 5.10, MLDP	SI-4	None
MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	No		Section 5.10, MLDP	CM-7	A.12.5.1
	Can a host-based intrusion detection/prevention system		Customer could install their own system in passive			
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 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)?	Yes	_	Section 5.11, NAUT	SC-7	A.13.2.1,A.14.1.3
	Is the firewall ruleset documented and available for					
NAUT-2.1	review? Does the device use certificate-based network	Yes	-			
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.					
CONN-1	Does the device have hardware connectivity capabilities	Yes				
CONN-1.1	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				
			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			
CON11 4 2 2			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 externa to the customer environment (e.g., a service host)?	Yes				
CONN-5	Does the device make or receive API calls?	Yes	_			
60NN 6	Does the device require an internet connection for its					
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)			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					
D.1.17.4	passwords for all users and roles (including service	C N	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 passwords for all users and roles (including service	d				
PAUT-1.1	accounts)?	Yes		Section 5.12, PAUT	IA-2	A.9.2.1
14011.1	Is the device configurable to authenticate users through			36610113.12,17401	17.2	n.y.z.1
	an external authentication service (e.g., MS Active					
PAUT-2	Directory, NDS, LDAP, OAuth, etc.)?	Yes		Section 5.12, PAUT	IA-5	A.9.2.1
	Is the device configurable to lock out a user after a		If desired, managed through external authentication			
PAUT-3	certain number of unsuccessful logon attempts?	See Notes	service	Section 5.12, PAUT	IA-2	A.9.2.1
	Are all default accounts (e.g., technician service					
	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
PAUT-7	Does the device support account passwords that expire periodically?	See Notes	If desired, managed through external authentication service			
PAUT-8	Does the device support multi-factor authentication?	No	Service			
PAUT-9	Does the device support ingle sign-on (SSO)?	No		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	A.9.2.1
PAUT-11	Does the device support biometric controls?	No	managea through external authentication service	Section 5.12, PAUT	IA-2	A.9.2.1
	Does the device support physical tokens (e.g. badge			····· , ·		
PAUT-12	access)?	No				
	Does the device support group authentication (e.g.					
PAUT-13	hospital teams)?	No				
	Does the application or device store or manage					
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	I OCKS	(DIOK)	
PHYSICAL	LUCKS		

	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
PLOK-2	Are all device components maintaining personally identifiable information (other than removable media) 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) physically secured behind an individually keyed locking				
PLOK-3	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 attach a physical lock to restrict access to removable				
PLOK-4	media?	N/A	Section 5.13, PLOK	PE-3(4)	A.11.1.1, A.11.1.2, A.11.1.3

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

#### 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.

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
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices?	Yes	_	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-3	Does the manufacturer maintain a web page or other 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
	p		_	,		
	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	Yes	-			
SBOM-2 SBOM-2.1	describing software components?	Yes	-			
	Are the software components identified? Are the developers/manufacturers of the software	Yes	-			
SBOM-2.2	components identified? Are the major version numbers of the software	Yes	-			
SBOM-2.3 SBOM-2.4	components identified?	Yes	-			
SBOW-2.4	Are any additional descriptive elements identified? Does the device include a command or process method	Yes	-			
SBOM-3	available to generate a list of software components installed on the device?	No				
SBOM-4	Is there an update process for the SBoM?	Yes	-			
	SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	malware. Is the device hardened in accordance with any industry				CM-7	A.12.5.1* A.6.2.1, A.6.2.2, A.13.1.1,
SAHD-1	standards?	No	_	Section 5.15, SAHD	AC-17(2)/IA-3	A.13.2.1, A.14.1.2/None
SAHD-2					AC-17(2)/IA-3	
	Has the device received any cybersecurity certifications? Does the device employ any mechanisms for software	No	_	Section 5.15, SAHD	SA-12(10)	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
SAHD-3	Does the device employ any mechanisms for software integrity checking	No	_			A.14.2.7, A.15.1.1, A.15.1.2,
	Does the device employ any mechanisms for software integrity checking Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-	No	-			A.14.2.7, A.15.1.1, A.15.1.2,
SAHD-3 SAHD-3.1	Does the device employ any mechanisms for software integrity checking 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-		-			A.14.2.7, A.15.1.1, A.15.1.2,
	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to	No				A.14.2.7, A.15.1.1, A.15.1.2,
	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates?	No				A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3 A.15.1.3
SAHD-3.1	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer-	No		Section 5.15, SAHD	SA-12(10)	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
SAHD-3.1 SAHD-3.2	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates? Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)?	No No	by an administrator and are not applied automatically The customer supplies their own means of verifying	Section 5.15, SAHD Section 5.15, SAHD	SA-12(10) CM-8	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3 A.8.1.1, A.8.1.2 A.6.2.2, A.9.1.2, A.9.4.1, A.9.4.4, A.9.4.5, A.13.1.1,
SAHD-3.1 SAHD-3.2 SAHD-4 SAHD-5	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates? Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls?	No No Yes	by an administrator and are not applied automatically The customer supplies their own means of verifying platform integrity (eg. file monitoring etc).	Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD	SA-12(10) CM-8 AC-3 CM-7	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3 A.8.1.1, A.8.1.2 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 A.12.5.1*
SAHD-3.1 SAHD-3.2 SAHD-4 SAHD-5 SAHD-5.1	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates? Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls? Does the device provide role-based access controls? Are any system or user accounts restricted or disabled by	No No Yes No	by an administrator and are not applied automatically The customer supplies their own means of verifying platform integrity (eg. file monitoring etc).	Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD	SA-12(10) CM-8 AC-3 CM-7 CM-7	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3 A.8.1.1, A.8.1.2 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 A.12.5.1* A.12.5.1*
SAHD-3.1 SAHD-3.2 SAHD-4 SAHD-5	Does the device employ any mechanisms for software integrity checking 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- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates? Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls? Does the device provide role-based access controls?	No No Yes	by an administrator and are not applied automatically The customer supplies their own means of verifying platform integrity (eg. file monitoring etc).	Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD Section 5.15, SAHD	SA-12(10) CM-8 AC-3 CM-7	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3 A.8.1.1, A.8.1.2 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 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 recourses (a.g., file shares) which are not	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		Yes	_	Section 5.15, SAHD	SA-18	None
	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device					
SAHD-9	deleted/disabled? 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
64115 4.0	which are not required for the intended use of the device					A.12.6.1, A.14.2.2, A.14.2.3,
SAHD-10	deleted/disabled? Can the device prohibit boot from uncontrolled or	Yes	-	Section 5.15, SAHD	SI-2	A.16.1.3
	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.			
5410 12	Does the product documentation include information	1/2	comparation.			
SAHD-13	on operational network security scanning by users?	No	_			
SAHD-14	Can the device be hardened beyond the default provided state?	Yes				
5A110-14	Are instructions available from vendor for increased	165	-			
SAHD-14.1	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.			
51140 15	Have additional hardening methods not included in	174	comparation.			
SAHD-16	2.3.19 been used to harden the device?	No	_			
	SECURITY GUIDANCE (SGUD) Availability of security guidance for operator and administrator of the device and manufacturer sales and			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Availability of security guidance for operator and			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? Does the device have the capability, and provide	Yes	_	IEC TR 80001-2-2:2012 Section 5.16, SGUD	NIST SP 800-53 Rev. 4 AT-2/PL-2	A.7.2.2, A.12.2.1/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	-			A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7
	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 device or media? Are all access accounts documented?	Yes Yes Yes	-	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2,
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? 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 Yes Yes	- - -	Section 5.16, SGUD	AT-2/PL-2 MP-6	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7 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? Does the product include documentation on	Yes Yes Yes	-	Section 5.16, SGUD	AT-2/PL-2 MP-6	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7 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 Yes Yes Yes	- - -	Section 5.16, SGUD	AT-2/PL-2 MP-6	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7 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 Yes Yes Yes	-	Section 5.16, SGUD	AT-2/PL-2 MP-6	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7 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 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, A8.3.2, A11.2.7 A9.1.2, A9.2.3, A9.4.4, A9.4.5/A9.2.1
SGUD-2 SGUD-3.1 SGUD-4 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? Are instructions available to the customer to configure	Yes 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, A8.3.2, A11.2.7 A9.1.2, A9.2.3, A9.4.4, A9.4.5/A9.2.1
SGUD-2 SGUD-3 SGUD-3.1 SGUD-4 STCF-1 STCF-1.1	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? 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 encryption? Can the encryption keys be changed or configured?	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	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7 A.9.1.2, A.9.2.3, A.9.4.4, A.9.4.5/A.9.2.1

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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	Yes	-			
TXCF-3	restricted to a fixed list of network destinations?	Yes	Fixed list can be updated by customers. Client authentication through TLS is recommended but	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4	Are connections limited to authenticated systems? Are secure transmission methods	See Notes	not required.	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	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?	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
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.			
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	_			
	Does the device have any other remotely accessible		Updates are performed manually via remote service representative. Training on Ul functionality, etc, may			
RMOT-3	functionality (e.g. software updates, remote training)?	See Notes	occur via screen-sharing session.			

OTHER SECURITY CONSIDERATIONS (OTHR)	
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NONE

Notes:

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

Note 1

ISO 27002:2013

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4