

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

Circle Cardiovascular Imaging	TruPlan v3.4.X	14-May-2025	Completed by: Billy Wu
<b>Question ID</b>	<b>Question</b>	<b>See note</b>	<b>IEC TR 80001-2-2:2012</b>
DOC-1	Manufacturer Name	Circle Cardiovascular Imaging	—
DOC-2	Device Description	Medical Imaging Software	—
DOC-3	Device Model	TruPlan v3.4.X	—
DOC-4	Document ID	—	—
DOC-5	Manufacturer Contact Information Intended use of device in network-connected environment:	Suite 1800, 707 8th Ave SW T2P 1HS Calgary, Alberta, Canada	—
DOC-6	Document Release Date	14-May-2025	—
DOC-7	Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program for this device?	—	—
DOC-8	ISOAO: Is the manufacturer part of an Information Sharing and Analysis Organization?	No	—
DOC-9	Diagram: Is a network or data flow diagram available that indicates connections to other system components or expected external resources?	No	—
DOC-10	SaMD: Is the device Software as a Medical Device (i.e. software-only, no hardware)?	Yes	—
DOC-11	Does the SaMD contain an operating system?	Yes	—
DOC-11.1	Does the SaMD rely on an owner/operator provided operating system?	No	—
DOC-11.2	Is the SaMD hosted by the manufacturer?	Yes	—
DOC-11.3	Is the SaMD hosted by the customer?	No	—
DOC-11.4	Is the SaMD hosted by the customer?	Yes	—
	Yes, No, N/A, or See Note	Note #	
<b>MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION</b>			
MPII-1	Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?	Yes	—
MPII-2	Does the device maintain personally identifiable information?	Yes	—
MPII-2.1	Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)?	Yes	—
MPII-2.2	Does the device store personally identifiable information persistently on internal media?	Yes	—
MPII-2.3	Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased?	Yes	—
MPII-2.4	Does the device store personally identifiable information in a database?	Yes	Patient, Patient ID, Gender, Birth date, Age, Study description, Patient comment
MPII-2.5	Does the device allow configuration to automatically delete local personally identifiable information after it is stored to a long term solution?	No	—
MPII-2.6	Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?	Yes	—
MPII-2.7	Does the device maintain personally identifiable information when powered off, or during power service interruptions?	Yes	—
MPII-2.8	Does the device allow the internal media to be removed by a service technician (e.g., for separate destruction or customer retention)?	Yes	—
MPII-2.9	Does the device allow personally identifiable information records be stored in a separate location from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote storage location)?	Yes	See note 1
MPII-3	Does the device have mechanisms used for the transmitting, importing/exporting of personally identifiable information?	Yes	—
MPII-3.1	Does the device display personally identifiable information (e.g., video display, etc.)?	Yes	—
MPII-3.2	Does the device generate hardcopy reports or images containing personally identifiable information?	No	The device as a software does not print hardcopy reports
MPII-3.3	Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable-HDD, USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD card, memory stick, etc.)?	Yes	—
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.)?	Yes	—
MPII-3.5	Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)?	Yes	—
MPII-3.6	Does the device transmit/receive personally identifiable information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared, cellular, etc.)?	Yes	—
MPII-3.7	Does the device transmit/receive personally identifiable information over an external network (e.g., Internet)?	No	—
MPII-3.8	Does the device import personally identifiable information via scanning a document?	No	—
MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol?	No	—
MPII-3.10	Does the device use any other mechanism to transmit, import or export personally identifiable information?	No	—
Management of Private Data notes:		1. While this is possible it is recommended against in most deployment scenarios	AR-2
			A.15.1.4

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<b>AUTOMATIC LOGOFF (ALOF)</b> <i>The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.</i>						
ALOF-1	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password protected screen saver)?	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	—	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
<b>AUDIT CONTROLS (AUDT)</b> <i>The ability to reliably audit activity on the device.</i>						
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
AUDT-1.1	Does the audit log record a USER ID?	Yes	—			
AUDT-1.2	Does other personally identifiable information exist in the audit trail?	No	—	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?	Yes	—	Section 5.2, AUDT	AU-2	None
AUDT-2.4	Creation/modification/deletion of users?	Yes	—	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
AUDT-2.7	Import/export of data from removable media (e.g., USB drive, external hard drive, DVD)?	Yes	—	Section 5.2, AUDT	AU-2	None
AUDT-2.8	Receipt/transmission of data or commands over a network or point-to-point connection?	No	—	Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Remote or on-site support?	No	—	Section 5.2, AUDT	AU-2	None
AUDT-2.8.2	Application Programming Interface (API) and similar activity?	No	—	Section 5.2, AUDT	AU-2	None
AUDT-2.9	Emergency access?	No	—	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? Can the owner/operator define or select which events are recorded in the audit log?	No	—	Section 5.2, AUDT	AU-2	None
AUDT-3	Is a list of data attributes that are captured in the audit log for an event available?	No	—	Section 5.2, AUDT	AU-2	None
AUDT-4	Does the audit log record date/time?	Yes	See note 1	Section 5.2, AUDT	AU-2	None
AUDT-4.1	Can date and time be synchronized by Network Time Protocol (NTP) or equivalent time source?	Yes	By the owner provided operating system	Section 5.2, AUDT	AU-2	None
AUDT-4.1.1	Can audit log content be exported?	Yes	—	Section 5.2, AUDT	AU-2	None
AUDT-5	Via physical media?	Yes	—	Section 5.2, AUDT	AU-2	None
AUDT-5.1	Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM?	No	—			
AUDT-5.2	Via Other communications (e.g., external service device, mobile applications)?	No	—			
AUDT-5.3	Are audit logs encrypted in transit or on storage media?	No	—			
AUDT-5.4	Can audit logs be monitored/reviewed by owner/operator?	No	—			
AUDT-6	Are audit logs protected from modification?	Yes	See note 2	Section 5.2, AUDT	AU-2	None
AUDT-7	Are audit logs protected from access?	No	See note 2	Section 5.2, AUDT	AU-2	None
AUDT-8	Can audit logs be analyzed by the device?	No	—	Section 5.2, AUDT	AU-2	None
<b>AUTHORIZATION (AUTH)</b> <i>The ability of the device to determine the authorization of users.</i>						
AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other mechanisms?	Yes	—	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.1	Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	See Notes	—	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)?	See Notes	—	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.3	Are any special groups, organizational units, or group policies required?	No	—	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-2	Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	Yes	—	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-3	Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access 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	AUTH-1.1	Integration with AD for password authentication is possible		
			AUTH-1.2	Group Policy can be applied to the system the device is installed on		
<b>CYBER SECURITY PRODUCT UPGRADES (CSUP)</b>						
				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013

<p><i>The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.</i></p>			
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.	Yes	—
CSUP-2	Does the device contain an Operating System? If yes, complete 2.1-2.4.	No	—
CSUP-2.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	—
CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	—
CSUP-2.3	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	—
CSUP-2.4	Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4.	N/A	—
CSUP-3	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	—
CSUP-3.1	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	—
CSUP-3.2	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	—
CSUP-3.3	Does the device contain Anti-Malware Software? If yes, complete 4.1-4.4.	N/A	—
CSUP-4	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	—
CSUP-4.1	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	—
CSUP-4.2	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	—
CSUP-4.3	Does the device contain Non-Operating System commercial off-the-shelf components? If yes, complete 5.1-5.4.	N/A	—
CSUP-5	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	Yes	Reprise License Manager
CSUP-5.1	Does the device require vendor or vendor-authorized service to install patches or software updates?	No	—
CSUP-5.2	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	Yes	—
CSUP-5.3	Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or reference in notes and complete 6.1-6.4.	No	—
CSUP-6	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	Yes	Reprise License Manager
CSUP-6.1	Does the device require vendor or vendor-authorized service to install patches or software updates?	No	—
CSUP-6.2	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	Yes	—
CSUP-6.3	Does the manufacturer notify the customer when updates are approved for installation?	Yes	—
CSUP-6.4	Does the device perform automatic installation of software updates?	Yes	—
CSUP-7	Does the manufacturer have an approved list of third-party software that can be installed on the device?	Yes	—
CSUP-8	Can the owner/operator install manufacturer-approved third-party software on the device themselves?	N/A	—
CSUP-10	Does the system have mechanism in place to prevent installation of unapproved software?	N/A	Software is installed with an installer and cannot be tampered without being detected (hash provided).
CSUP-10.1	Does the manufacturer have a process in place to assess device vulnerabilities and updates?	Yes	—
CSUP-11	Does the manufacturer provide customers with review and approval status of updates?	Yes	—
CSUP-11.1	Is there an update review cycle for the device?	No	—
CSUP-11.2		No	—

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DIDT-1	<p><i>The ability of the device to directly remove information that allows identification of a person.</i></p> <p>Does the device provide an integral capability to de-identify personally identifiable information?</p>	Yes	—	Section 5.6, DIDT	None ISO 27038
DIDT-1.1	<p>Does the device support de-identification profiles that comply with the DICOM standard for de-identification?</p>	Yes	—	Section 5.6, DIDT	None ISO 27038
<b>DATA BACKUP AND DISASTER RECOVERY (DTBK)</b> <i>The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.</i>		IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013			
DTBK-1	<p>Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?</p>	N/A	—		
DTBK-2	<p>Does the device have a "factory reset" function to restore the original device settings as provided by the manufacturer?</p>	Yes	—	Section 5.7, DTKB	CP-9 A.12.3.1
DTBK-3	<p>Does the device have an integral data backup capability to removable media?</p>	N/A	See note 1	Section 5.7, DTKB	CP-9 A.12.3.1
DTBK-4	<p>Does the device have an integral data backup capability to remote storage?</p>	N/A	See note 1		
DTBK-5	<p>Does the device have a backup capability for system configuration information, patch restoration, and software restoration?</p>	N/A	See note 1		
DTBK-6	<p>Does the device provide the capability to check the integrity and authenticity of a backup?</p>	N/A	—	Section 5.7, DTKB	CP-9 A.12.3.1
<b>EMERGENCY ACCESS (EMRG)</b> <i>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.</i>		IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013			
EMRG-1	<p>Does the device incorporate an emergency access (i.e. "break-glass") feature?</p>	Yes	Original DICOM images containing PHI data are stored on the server in the folder (truplanimagedb/MainDB), which can only be accessed by the IT Admin. If the server storage location is encrypted, the responsibility to gain access to the encrypted storage in an emergency situation rests with the IT Admin.	Section 5.8, EMRG	SI-17 None
<b>HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)</b> <i>How the device ensures that the stored data on the device has not been altered or destroyed in a non-authorized manner and is from the originator.</i>		IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013			
IGAU-1	<p>Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)?</p>	Yes	—	Section 5.9, IGAU	SC-28 A.18.1.3
IGAU-2	<p>Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., RAID-5)?</p>	No	—	Section 5.9, IGAU	SC-28 A.18.1.3
<b>MALWARE DETECTION/PROTECTION (MLDP)</b> <i>The ability of the device to effectively prevent, detect and remove malicious software (malware).</i>		IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013			
MLDP-1	<p>Is the device capable of hosting executable software?</p>	N/A	—	Section 5.10, MLDP	
MLDP-2	<p>Does the device support the use of anti-malware software (or other anti-malware mechanism)?</p>	Yes	The device has no compatibility issues with anti-malware solutions. Implementation of those solutions is the responsibility of the customer.	Section 5.10, MLDP	SI-3 A.12.2.1
MLDP-2.1	<p>Provide details or reference in notes.</p>	—			A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1
MLDP-2.2	<p>Does the device include anti-malware software by default?</p>	No	—	Section 5.10, MLDP	CM-5
MLDP-2.3	<p>Does the device have anti-malware software available as an option?</p>	No	—	Section 5.10, MLDP	AU-6 A.12.4.1, A.16.1.2, A.16.1.4
MLDP-2.4	<p>Does the device documentation allow the owner/operator to install or update anti-malware software?</p>	Yes	—	Section 5.10, MLDP	CP-10 A.17.1.2
MLDP-2.5	<p>Can the device owner/operator independently (re-)configure anti-malware settings?</p>	Yes	—	Section 5.10, MLDP	AU-2 None
MLDP-2.6	<p>Does notification of malware detection occur in the device user interface?</p>	No	—		
MLDP-2.7	<p>Can only manufacturer-authorized persons repair systems when malware has been detected?</p>	No	—		
MLDP-2.8	<p>Are malware notifications written to a log?</p>	No	—		
MLDP-2.9	<p>Are there any restrictions on anti-malware (e.g., purchase, installation, configuration, scheduling)?</p>	Yes	—		
MLDP-3	<p>If the answer to MLDP-2 is NO, and anti-malware cannot be installed on the device, are other compensating controls in place or available?</p>	N/A	—	Section 5.10, MLDP	SI-2 A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
MLDP-4	<p>Does the device employ application whitelisting that restricts the software and services that are permitted to be run on the device?</p>	No	—	Section 5.10, MLDP	SI-3 A.12.2.1
MLDP-5	<p>Does the device employ a host-based intrusion detection/prevention system?</p>	No	—	Section 5.10, MLDP	SI-4 None
MLDP-5.1	<p>Can the host-based intrusion detection/prevention system be configured by the customer?</p>	N/A	—	Section 5.10, MLDP	CM-7 A.12.5.1
MLDP-5.2	<p>Can a host-based intrusion detection/prevention system be installed by the customer?</p>	Yes	—	Section 5.10, MLDP	

NODE AUTHENTICATION (NAUT) <i>The ability of the device to authenticate communication partners/nodes.</i>			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
NAUT-1	Does the device provide/support any means of node authentication that assures both the sender and the recipient of data are known to each other and are authorized to receive transferred information (e.g. Web APIs, SMTP, SNMP)? Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)?	Yes	— PACS connections are limited to those entered into the Admin interface	Section 5.11, NAUT	SC-23	None
NAUT-2	Is the firewall ruleset documented and available for review?	Yes	In the Client Server Installation and Configuration Guide We use certificate to validate the identity of the server to which the client connects, but the actual connection authentication is not certificate based	Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3, A.13.2.1,A.14.1.3
NAUT-3	Does the device use certificate-based network connection authentication?	No				
CONNECTIVITY CAPABILITIES (CONN) <i>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.</i>			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
CONN-1	Does the device have hardware connectivity capabilities?	No	—			
CONN-1.1	Does the device support wireless connections?	Yes	—			
CONN-1.1.1	Does the device support Wi-Fi?	Yes	—			
CONN-1.1.2	Does the device support Bluetooth?	No	—			
CONN-1.1.3	Does the device support other wireless network 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-1.2	Does the device support physical connections?	N/A	—			
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	N/A	—			
CONN-1.2.2	Does the device have available USB ports?	N/A	—			
CONN-1.2.3	Does the device require, use, or support removable memory devices?	Yes	—			
CONN-1.2.4	Does the device support other physical connectivity? Does the manufacturer provide a list of network ports and protocols that are used or may be used on the device?	N/A	—			
CONN-2	Can the device communicate with other systems within the customer environment?	Yes	—			
CONN-3	Can the device communicate with other systems external to the customer environment (e.g., a service host)?	Yes	—			
CONN-4	Does the device make or receive API calls?	Yes	—			
CONN-5						
CONN-6	Does the device require an internet connection for its intended use?	See Notes	Software does not require internet connection unless online license activation is used (which is recommended)			
CONN-7	Does the device support Transport Layer Security (TLS)?	Yes	—			
CONN-7.1	Is TLS configurable?	Yes	—			
CONN-8	Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	No	—			
PERSON AUTHENTICATION (PAUT) <i>The ability to configure the device to authenticate users.</i>			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
PAUT-1	Does the device support and enforce unique IDs and passwords for all users and roles (including service accounts)?	Yes	—	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
PAUT-2	Is the device configurable to authenticate users through 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?	Yes	—	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-4	Are all default accounts (e.g., technician service 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		
PAUT-6	Is the device configurable to enforce creation of user account passwords that meet established (organization specific) complexity rules?	See Notes	A policy can be enabled but it is not configurable.	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-7	Does the device support account passwords that expire periodically?	Yes	—			
PAUT-8	Does the device support multi-factor authentication?	No	—			
PAUT-9	Does the device support single sign-on (SSO)?	See Notes	LDAP/AD is supported, but not web-based SSO such as SAML	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-10	Can user accounts be disabled/locked on the device?	Yes	—	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-11	Does the device support biometric controls?	No	—	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	—			
PAUT-14	Does the application or device store or manage authentication credentials?	Yes	—			
PAUT-14.1	Are credentials stored using a secure method?	Yes	—			

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<b>PHYSICAL LOCKS (PLOK)</b> <i>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</i>						
PLOK-1	Is the device software only? If yes, answer "N/A" to remaining questions in this section. Are all device components maintaining personally identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)?	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 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
PLOK-3	Does the device have an option for the customer to 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
PLOK-4		N/A	—	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
<b>ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)</b> <i>Manufacturer's plans for security support of third-party components within the device's life cycle.</i>						
RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	—	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?	Yes	—	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
<b>SOFTWARE BILL OF MATERIALS (SBoM)</b> <i>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.</i>						
SBOM-1	Is the SBoM for this product available?	Yes	—		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4
SBOM-2	Does the SBoM follow a standard or common method in describing software components?	Yes	—			ISO 27002:2013
SBOM-2.1	Are the software components identified?	Yes	—			
SBOM-2.2	Are the developers/manufacturers of the software components identified?	Yes	—			
SBOM-2.3	Are the major version numbers of the software components identified?	Yes	—			
SBOM-2.4	Are any additional descriptive elements identified?	Yes	—			
SBOM-3	Does the device include a command or process method available to generate a list of software components installed on the device?	No	—			
SBOM-4	Is there an update process for the SBoM?	Yes	—			
<b>SYSTEM AND APPLICATION HARDENING (SAHD)</b> <i>The device's inherent resistance to cyber attacks and malware.</i>						
SAHD-1	Is the device hardened in accordance with any industry standards?	No	—	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-2	Has the device received any cybersecurity certifications?	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
SAHD-3	Does the device employ any mechanisms for software integrity checking?	Yes	—	Software is installed with an installer and cannot be tampered without being detected (hash provided).	SA-12(10)	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
SAHD-3.1	Does the device employ any mechanism (e.g., release-specific hash key, checksums, digital signature, etc.) to ensure the software updates are manufacturer-authorized?	Yes	—			
SAHD-3.2	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?	Yes	—	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, 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-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)?	Yes	—	Section 5.15, SAHD	AC-3	
SAHD-5	Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls?	Yes	—	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-5.1	Does the device provide role-based access controls?	Yes	—	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery?	Yes	—	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.1	Are any system user accounts configurable by the end user after initial configuration?	Yes	—	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.2	Does this include restricting certain system or user accounts, such as service technicians, to least privileged access?	Yes	—	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-7	Are all shared resources (e.g., file shares) which are not required for the intended use of the device disabled?	N/A	See note 1	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?	N/A	See note 1	Section 5.15, SAHD	SA-18	None
SAHD-9	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 deleted/disabled?	N/A	See note 1	Section 5.15, SAHD	CM-6	None
SAHD-10	Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of the device deleted/disabled?	See Notes	Depends on the user and their machine, which is not part of the software (aka device).	Section 5.15, SAHD	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
SAHD-11	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	N/A	—			

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SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	No	—			
SAHD-13	Does the product documentation include information on operational network security scanning by users?	No	—			
SAHD-14	Can the device be hardened beyond the default provided state?	No	—			
SAHD-14.1	Are instructions available from vendor for increased hardening?	No	—			
SHAD-15	Can the system prevent access to BIOS or other bootloaders during boot?	N/A				
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	—	1. Software does not implement file shares, other services, and ports other than the ones we specify		
<b>SECURITY GUIDANCE (SGUD)</b> <i>Availability of security guidance for operator and administrator of the device and manufacturer sales and service.</i>				<b>IEC TR 80001-2-2:2012</b>	<b>NIST SP 800-53 Rev. 4</b>	<b>ISO 27002:2013</b>
SGUD-1	Does the device include security documentation for the owner/operator?	Yes	—	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
SGUD-2	Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media?	Yes	—	Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7
SGUD-3	Are all access accounts documented?	Yes	—	Section 5.16, SGUD	AC-6,IA-2	A.9.1.2, A.9.2.3, A.9.4.4, A.9.4.5/A.9.2.1
SGUD-3.1	Can the owner/operator manage password control for all accounts?	Yes	—			
SGUD-4	Does the product include documentation on recommended compensating controls for the device?	No	—			
<b>HEALTH DATA STORAGE CONFIDENTIALITY (STCF)</b> <i>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.</i>				<b>IEC TR 80001-2-2:2012</b>	<b>NIST SP 800-53 Rev. 4</b>	<b>ISO 27002:2013</b>
STCF-1	Can the device encrypt data at rest?	No	See note 1	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1	Is all data encrypted or otherwise protected?	No				
STCF-1.2	Is the data encryption capability configured by default?	N/A	See note 1			
STCF-1.3	Are instructions available to the customer to configure encryption?	No	—			
STCF-2	Can the encryption keys be changed or configured?	N/A	See note 1	Section 5.17, STCF	SC-28	A.8.2.3
STCF-3	Is the data stored in a database located on the device?	Yes	—			
STCF-4	Is the data stored in a database external to the device?	No	—	1. Encryption of data at rest is the responsibility of the customer		
<b>TRANSMISSION CONFIDENTIALITY (TXCF)</b> <i>The ability of the device to ensure the confidentiality of transmitted personally identifiable information.</i>				<b>IEC TR 80001-2-2:2012</b>	<b>NIST SP 800-53 Rev. 4</b>	<b>ISO 27002:2013</b>
TXCF-1	Can personally identifiable information be transmitted only via a point-to-point dedicated cable?	No	—	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media?	See Notes	Encrypted (TLS) traffic between client and server is supported. Customer can configure encrypted (TLS) traffic between client and server.	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-2.1	If data is not encrypted by default, can the customer configure encryption options?	See Notes				
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	Yes	—	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4	Are connections limited to authenticated systems?	No	—	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	See Notes	Encrypted (TLS) DICOM transmission is supported.			
<b>TRANSMISSION INTEGRITY (TXIG)</b> <i>The ability of the device to ensure the integrity of transmitted data.</i>				<b>IEC TR 80001-2-2:2012</b>	<b>NIST SP 800-53 Rev. 4</b>	<b>ISO 27002:2013</b>
TXIG-1	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission?	No	We use certificate to validate the identity of the server to which the client connects, and encrypted traffic between client and server is supported, but data transmission integrity is not specifically guaranteed.	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	—			
<b>REMOTE SERVICE (RMOT)</b> <i>Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.</i>				<b>IEC TR 80001-2-2:2012</b>	<b>NIST SP 800-53 Rev. 4</b>	<b>ISO 27002:2013</b>
RMOT-1	Does the device permit remote service connections for device analysis or repair?	See Notes	OS implements any and all remote connectivity for diagnosis and repair		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 initiate remote service sessions for device analysis or repair?	No	—			
RMOT-1.2	Is there an indicator for an enabled and active remote session?	No	—			

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RMOT-1.3	Can patient data be accessed or viewed from the device during the remote session? Does the device permit or use remote service connections for predictive maintenance data?	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 have any other remotely accessible functionality (e.g. software updates, remote training)?	No	—		
RMOT-3		See Notes	OS implements any and all remote connectivity for diagnosis and repair		

OTHER SECURITY CONSIDERATIONS (OTHR)  
*NONE*

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013