HOLOGIC* Titre / Title SUPERSONIC* Imagine

Document #*: RD.DD.490

Rev.A* Page 1 / 1 13/05/2020

MEDICAL DEVICE
DISCLOSURE STATEMENT
FOR MEDICAL DEVICE
SECURITY
SuperSonic MACH 40
SW V2.X

Hologic SuperSonic imagine	SuperSonic MACH 40 V2.x	RD.DD.490	30-Aug-2019			
			-			
Question ID	Question		See note	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DOC-1	Manufacturer Name	Hologic SuperSonic imagine	_			
DOC-2	Device Description	Ultrasound imaging modality	_			
DOC-3	Device Model	SuperSonic MACH 40 V2.x				
DOC-4	Document ID	RD.DD.490				
		Cybersecurity questions shall be asked to				
		cybersecurity@supersonicimagine.com				
DOC-5	Manufacturer Contact Information	For other inquiries please contact your local representative.				
		The device is an ultrasound scanner. It is intended to be connected to:				
		- a PACS in order to archive the images acquired by the device ; and				
		- a Worklist server in order to receive patient and exam information.				
	Intended use of device in network-connected	A purchasable option also allow device to query exam an retrieve images				
DOC 6		archived on the PACS.				
DOC-6	environment:					
DOC-7	Document Release Date	30/08/2019				
i	Coordinated Vulnerability Disclosure: Does the		Mala analytiki and a factor of the same that a			
	manufacturer have a vulnerability disclosure		Vulnerabilities information available at:			
DOC-8	program for this device?	Yes	https://www.supersonicimagine.Com/security			
	ISAO: Is the manufacturer part of an Information					
DOC-9	Sharing and Analysis Organization?	Yes	_			
	Diagram: Is a network or data flow diagram available					
	that indicates connections to other system					
DOC-10	components or expected external resources?	Yes	see Network and Data Flow Diagram			
	SaMD: Is the device Software as a Medical Device					
DOC-11	(i.e. software-only, no hardware)?	No				
DOC-11.1	Does the SaMD contain an operating system?	N/A				
	Does the SaMD rely on an owner/operator provided					
DOC-11.2	operating system?	N/A				
DOC-11.2	Is the SaMD hosted by the manufacturer?	IV/A	_	+		
	is the salvid hosted by the manufacturer?					
DOC-11.3		N/A				
DOC-11.4	Is the SaMD hosted by the customer?	N/A	_			
i		Yes, No,				
		N/A, or				
		See Note	Note #			
	MANAGEMENT OF PERSONALLY IDENTIFIABLE					
	INFORMATION			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
			This device download, display, transmit and store			
			the following PII:			
			Patient Name			
	Can this device display, transmit, store, or modify		Patient ID			
	personally identifiable information (e.g. electronic		Patient Age			
MPII-1	Protected Health Information (ePHI))?	Yes	• Date of birth		AR-2	A.15.1.4
	Does the device maintain personally identifiable		2500.5		7.11.2	7.1.1.7.1.7
MPII-2	information?	Yes			AR-2	A.15.1.4
11 &				1	7.11.2	7.1.2.1.7
	Does the device maintain personally identifiable					
	information temporarily in volatile memory (i.e.,					
MDU 2.1		Vos			AD 2	A 1E 1 4
MPII-2.1	until cleared by power-off or reset)?	Yes	_		AR-2	A.15.1.4
	Does the device store personally identifiable					
MPII-2.2	information persistently on internal media?	Yes				
	Is personally identifiable information preserved in					
	the device's non-volatile memory until explicitly					
MPII-2.3	erased?	Yes	_			
	Does the device store personally identifiable					
MPII-2.4	information in a database?	Yes		1	1	

			By default, the exams must be manually deleted.			
			However the device can be configured to delete :			
			all the exams after a configurable period of time			
			all the archived exams after a configurable period			
			of time			
			all the exams archived and committed after a			
	Does the device allow configuration to automatically		configurable period of time			
	delete local personally identifiable information after		 the oldest exams when disk is full after a 			
MPII-2.5	it is stored to a long term solution?	Yes	configurable period of time		AR-2	A.15.1.4
	Does the device import/export personally identifiable	e e				
	information with other systems (e.g., a wearable		The device will query PII from the modality worklist			
	monitoring device might export personally		server, and transmit PHI on PACS and on			
NADU O C					40.2	4.45.4.4
MPII-2.6	identifiable information to a server)?	Yes	removable media (CD/DVD/USB)		AR-2	A.15.1.4
	Does the device maintain personally identifiable					
	information when powered off, or during power					
MPII-2.7	service interruptions?	Yes	The PHI are stored on a crypted partition		AR-2	A.15.1.4
	Does the device allow the internal media to be					
	removed by a service technician (e.g., for separate					
MPII-2.8	destruction or customer retention)?	Yes				
11 2.0	Does the device allow personally identifiable	1.55				
	information records be stored in a separate location					
	from the device's operating system (i.e. secondary					
	internal drive, alternate drive partition, or remote		The PHI are stored on a dedicated crypted partition			
MPII-2.9	storage location)?	Yes	separated from the device's Operating System.		AR-2	A.15.1.4
	Does the device have mechanisms used for the		e-PHI can be transmitted over DICOM Storage			
	transmitting, importing/exporting of personally		service, exportation on removable device and			
MPII-3	identifiable information?	Yes	backup restore		AR-2	A.15.1.4
WIT II-3	Does the device display personally identifiable	163	backup restore		All Z	A.13.1.4
NADU 2.4		Vac	DILL one displayed on masin comes		AD 2	A 15 1 1
MPII-3.1	information (e.g., video display, etc.)?	Yes	e-PHI are displayed on main screen		AR-2	A.15.1.4
	Does the device generate hardcopy reports or images					
MPII-3.2	containing personally identifiable information?	Yes			AR-2	A.15.1.4
	Does the device retrieve personally identifiable		The device can record PII to USB removable HDD,			
	information from or record personally identifiable		USB Memory, DVD-R/RW, CD-R/RW.			
	information to removable media (e.g., removable-		The device can also import and display PHI from			
	HDD, USB memory, DVD-R/RW,CD-R/RW, tape,		the above-mentioned device (but it is a			
MPII-3.3	CF/SD card, memory stick, etc.)?	Yes	purchasable option)		AR-2	A.15.1.4
	Does the device transmit/receive or import/export					
	personally identifiable information via dedicated					
	cable connection (e.g., RS-232, RS-423, USB, FireWire					
MPII-3.4	etc.)?	No			AR-2	A.15.1.4
	Does the device transmit/receive personally			 		==
	identifiable information via a wired network					
MDII 2 E		Vos	The device can connect to 5th armst a street		AR-2	A 1E 1 A
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	Yes	The device can connect to Ethernet networks	 	AK-Z	A.15.1.4
	Does the device transmit/receive personally					
	identifiable information via a wireless network					
	connection (e.g., Wi-Fi, Bluetooth, NFC, infrared,		The device can connect to Wi-Fi (this is a			
MPII-3.6	cellular, etc.)?	Yes	purchasable option)		AR-2	A.15.1.4
	Does the device transmit/receive personally		The device can be remote-serviced (this is a			
	identifiable information over an external network		purchasable option). During such connection an			
MPII-3.7	(e.g., Internet)?	Yes	operator may access to PII.		AR-2	A.15.1.4
IVIT II-J./			operator may access to r fl.	 	AIN-Z	7.13.1.4
MDU 2.0	Does the device import personally identifiable	No				
MPII-3.8	information via scanning a document?	No				
	Does the device transmit/receive personally					
MPII-3.9	identifiable information via a proprietary protocol?	No				
	Does the device use any other mechanism to		Device's information (that may or may not include			
	transmit, import or export personally identifiable		PII) can be backed up and restored. Both actions			
MDU 2.40		Vos			AD 2	A 1E 1 A
MPII-3.10	information?	Yes	require USB access and admin role.		AR-2	A.15.1.4
Management of Private Data	notes:	 			AR-2	A.15.1.4
	1			I I		

	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		upon a configurable period of time, a screen saver			
	of logged-in user(s) after a predetermined length of		will hide screen information and lock session.			
	inactivity (e.g., auto-logoff, session lock, password		Locked sessions can be terminated to give access to			
ALOF-1	protected screen saver)?	Yes	another user.	Section 5.1, ALOF	AC-12	None
	Is the length of inactivity time before auto-					
ALOE 3	logoff/screen lock user or administrator	Voc	Configurable to the following values 10 min	Section 5.1 ALOS	AC 11	A 11 2 0 A 11 2 0
ALOF-2	configurable?	Yes	(default), 20 min, 30min or never	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
	AUDIT CONTROLS (AUDT)			IEC TD 90001 2 2:2012	NIST SD 900 F2 Pov. 4	ISO 27002:2013
	AUDIT CONTROLS (AUDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	150 2/002:2013
	The ability to reliably audit activity on the device.					
	Can the medical device create additional audit logs or					A F 1 1 A F 1 2 A 6 1 1
ALIDT 1	reports beyond standard operating system logs?			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.
AUDT-1 AUDT-1.1	Does the audit log record a USER ID?	Yes Yes	_	Section 3.2, AOD1	A0-1	A.12.1.1, A.10.1.1, A.10.2.
VOD1-1'1	Does other personally identifiable information exist	100	Audit logs are compliant to DICOM Specific Audit			
AUDT-1.2	in the audit trail?	No	Messages	Section 5.2, AUDT	AU-2	None
	in the date train			3000011 3.2, 7001	7.0 2	None
			Actor-start-stop, Begin-storing-instances, Instances-			
	Are events recorded in an audit log? If yes, indicate		deleted PHI-export, PHI-import, Study Deleted,			
	which of the following events are recorded in the		Study used, User Authentication Login and User			
AUDT-2	audit log:	Yes	Authentication Logout	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?	N/A	_	Section 5.2, AUDT	AU-2	None
AUDT-2.4	Creation/modification/deletion of users?	N/A	_	Section 5.2, AUDT	AU-2	None
	Presentation of clinical or PII data (e.g. display,					
AUDT-2.5	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.					
AUDT-2.7	USB drive, external hard drive, DVD)?	Yes	_	Section 5.2, AUDT	AU-2	None
	Receipt/transmission of data or commands over a					
AUDT-2.8	network or point-to-point connection?	Yes	_	Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Remote or on-site support?	No	_	Section 5.2, AUDT	AU-2	None
	Application Programming Interface (API) and similar	N.		Continue 5 2 AUST		None
AUDT-2.8.2	activity?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-2.9 AUDT-2.10	Emergency access?	Yes	_	Section 5.2, AUDT	AU-2 AU-2	None
AUD1-2.10	Other events (e.g., software updates)?	No	_	Section 5.2, AUDT	AU-Z	None
AUDT-2.11	Is the audit capability documented in more detail?	No		Section 5.2, AUDT	AU-2	None
A0D1-2.11	Can the owner/operator define or select which	140	_	Section 3.2, AOD1	A0-2	None
AUDT-3	events are recorded in the audit log?	No		Section 5.2, AUDT	AU-2	None
7.051 3	Is a list of data attributes that are captured in the			500000000000000000000000000000000000000	7.0 2	
AUDT-4	audit log for an event available?	No		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		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?	Yes				
	Via IHE Audit Trail and Node Authentication (ATNA)					
AUDT-5.2	profile to SIEM?	No				
	Via Other communications (e.g., external service					
AUDT-5.3	device, mobile applications)?	No	_			
	Are audit logs encrypted in transit or on storage					
AUDT-5.4	media?	No	_			
	Can audit logs be monitored/reviewed by					
AUDT-6	owner/operator?	No				
AUDT-7	Are audit logs protected from modification?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-7.1	Are audit logs protected from access?	Yes				
AUDT-8	Can audit logs be analyzed by the device?	No	_	Section 5.2, AUDT	AU-2	None
					-	1

	AUTHORIZATION (AUTH)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to determine the				120 111 00001 2 2:2012	14131 31 333 33 Revi 4	130 27 002.2013
	authorization of users.						
	Does the device prevent access to unauthorized users	5					
	through user login requirements or other						
AUTH-1	mechanism?	Yes			Section 5.3, AUTH	IA-2	A.9.2.1
	Can the device be configured to use federated				,		
	credentials management of users for authorization						
AUTH-1.1	(e.g., LDAP, OAuth)?	No			Section 5.3, AUTH	IA-2	A.9.2.1
	Can the customer push group policies to the device						
AUTH-1.2	(e.g., Active Directory)?	No	<u> </u>		Section 5.3, AUTH	IA-2	A.9.2.1
	Are any special groups, organizational units, or group						
AUTH-1.3	policies required?	No	_		Section 5.3, AUTH	IA-2	A.9.2.1
			3 roles are defined: Emergency access can only				
	Can users be assigned different privilege levels based		acquire images , Sonographer create, review,				
	on 'role' (e.g., user, administrator, and/or service,		delete, export exams and admin can configure the				
AUTH-2	etc.)?	Yes	device in addition to what a sonographer can do.		Section 5.3, AUTH	IA-2	A.9.2.1
	Can the device owner/operator grant themselves						
	unrestricted administrative privileges (e.g., access						
	operating system or application via local root or						
AUTH-3	administrator account)?	No			Section 5.3, AUTH	IA-2	A.9.2.1
	Does the device authorize or control all API access						
AUTH-4	requests?	Yes	_		Section 5.3, AUTH	IA-2	A.9.2.1
	Does the device run in a restricted access mode, or		The user has no access to the underlaying				
AUTH-5	'kiosk mode', by default?	Yes	operating system				
	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, answer "N/A" to questions	s					
CSUP-1	in this section.	Yes	<u> </u>				
	Does the device contain an Operating System? If yes,						
CSUP-2	complete 2.1-2.4.	Yes	<u> </u>				
	Does the device documentation provide instructions						
	for owner/operator installation of patches or						
CSUP-2.1	software updates?	Yes	Remote update is described in User Guide	Y/N			
	Does the device require vendor or vendor-authorized						
CSUP-2.2	service to install patches or software updates?	Yes		Y/N			
	Does the device have the capability to receive						
CSUP-2.3	remote installation of patches or software updates?		Configurable option	Y/N			
	Does the medical device manufacturer allow security						
	updates from any third-party manufacturers (e.g.,						
	Microsoft) to be installed without approval from the		The Operating System is maintained by Hologic				
CSUP-2.4	manufacturer?	No	SuperSonic Imagine	Y/N			
	Does the device contain Drivers and Firmware? If yes,	,]			
CSUP-3	complete 3.1-3.4.	Yes	_	Y/N			
	Does the device documentation provide instructions						
	for owner/operator installation of patches or		Firmware and drivers are installed during software				
CSUP-3.1	software updates?	No	updates or software re-installation	Y/N			
	Does the device require vendor or vendor-authorized						
CSUP-3.2	service to install patches or software updates?	Yes	_				
	Does the device have the capability to receive						
CSUP-3.3	remote installation of patches or software updates?	W		Y/N		i	

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CSUP-3.4 manufacturer? No Mo Montacturer? V/N Montacturer? Mo Mo Montacturer? Montacturer Mont	
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SUP-4.2 service to install patches or software updates? N/A	
SUP-4.2 service to install patches or software updates? N/A	
Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturer (e.g., Microsoft) to be installed without approval from the manufacturer? CSUP-4.4 manufacturer? Does the device contain Non-Operating System commercial off-the-shelf components? If yes, complete 5,1-5.4. Does the device documentation provide instructions for owner/operator installation of patches or Software updates? CSUP-5.1 software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Ves see above note Y/N Does the device contain for patches or software updates? Ves see above note Y/N Does the device have the capability to receive remote installation of patches or software updates? Ves see above note Y/N Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the	
CSUP-4.3 remote installation of patches or software updates? N/A	
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commercial off-the-shelf components? If yes, complete 5.1-5.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates? Ves All the software components (OS, OTS) are updated at once V/N Does the device require vendor or vendor-authorized Service to install patches or software updates? CSUP-5.2 Does the device have the capability to receive remote installation of patches or software updates? CSUP-5.3 Temote 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	
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updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the	
Microsoft) to be installed without approval from the	
CSOP-5.4 manufacturer?	
Does the device contain other software components	
(e.g., asset management software, license	
management)? If yes, please provide details or	
CSUP-6 reference in notes and complete 6.1-6.4. No	
Does the device documentation provide instructions	
for owner/operator installation of patches or	
CSUP-6.1 software updates? N/A	
Does the device require vendor or vendor-authorized	
CSUP-6.2 service to install patches or software updates? N/A	
Does the device have the capability to receive	
CSUP-6.3 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-6.4 manufacturer? N/A	
Does the manufacturer notify the customer when Device can be configured to verify if new update	
CSUP-7 updates are approved for installation? Yes are available at startup. Y/N	
Does the device perform automatic installation of Software updates are applied upon administrator	
CSUP-8 software updates? No	
approval. 1/19	
Does the manufacturer have an approved list of third- No third party software can be installed on the	
CSUP-9 party software that can be installed on the device? No	
Can the owner/operator install manufacturer-	
approved third-party software on the device	
CSUP-10 themselves? No	
Does the system have mechanism in place to prevent	
CSUP-10.1 installation of unapproved software? Yes	1
Does the manufacturer have a process in place to	
CSUP-11 assess device vulnerabilities and updates? Yes Y/N	

					T		
	Does the manufacturer provide customers with						
CSUP-11.1	review and approval status of updates?	No		Y/N			
CSUP-11.2	Is there an update review cycle for the device?	Yes	At most every 2 months	Y/N			
				Security			
				Addons			
	HEALTH DATA DE-IDENTIFICATION (DIDT)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to directly remove						
	information that allows identification of a person.						
			For Logs: Clear logs in system config				
			For non DICOM export on USB/CD/DVD:				
			-Jpeg export of US images are anonymised (as				
			soon as operator does not entre PHI in annotation)				
			- screenshot of patient folder are not anonymised				
			(patient name, DoB, Patient ID, accession# may be				
			visible)				
			- report are not anonymised (patient name, DoB,				
			Patient ID, accession# may be visible)				
			For printed images: no anonymisation (patient				
			name, DoB, Patient ID, accession# are visible)				
			For DICOM :				
			Basic Profile, for US images being exported on				
			DICOM Store and DICOM Media				
			no anonymisation for				
			- DICOM Print (patient name, DoB, Patient ID,				
			accession# will be visible)				
			- screenshot of patient folder are not anonymised				
			(patient name, DoB, Patient ID, accession# may be				
			visible)				
	Does the device provide an integral capability to de-		- report are not anonymised (patient name, DoB,				
DIDT-1	identify personally identifiable information?	Yes	Patient ID, accession# may be visible)		Section 5.6, DIDT	None	ISO 27038
0101-1		163	Tatient 15, accession# may be visible		36611011 3.0, 2121	None	130 27038
	Does the device support de-identification profiles		Device involves at the DICOM consists 2010 - Device				
	that comply with the DICOM standard for de-		Device implement the DICOM version 2019a Basic				
DIDT-1.1	identification?	Yes	Profile for de-identification.		Section 5.6, DIDT	None	ISO 27038
	DATA BACKUP AND DISASTER RECOVERY						
	(DTBK)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to recover after damage or destruction of						
	device data, hardware, software, or site						
	configuration information.						
	Does the device maintain long term primary storage						
	of personally identifiable information / patient						
DTBK-1	information (e.g. PACS)?	No	_				
	Does the device have a "factory reset" function to						
	restore the original device settings as provided by the						
DTBK-2	manufacturer?	Yes			Section 5.7, DTBK	CP-9	A.12.3.1
	Does the device have an integral data backup				,	-	
DTBK-3	capability to removable media?	Yes			Section 5.7, DTBK	CP-9	A.12.3.1
	Does the device have an integral data backup				100.0	5. 5	
DTDK 4		No					
DTBK-4	capability to remote storage?	No		-			
	Does the device have a backup capability for system						
	configuration information, patch restoration, and						
DTBK-5	software restoration?	Yes	System configuration can be backed up				
	Does the device provide the capability to check the						
DTBK-6	integrity and authenticity of a backup?	Yes	_		Section 5.7, DTBK	CP-9	A.12.3.1
			+	 	1	 	
	EMERGENCY ACCESS (EMRG)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013

				T	T	T
	The philips of the device week a second property.					
	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.					
51400.4	Does the device incorporate an emergency access	W		Could be 5 0 5MBC	61.47	None
EMRG-1	(i.e. "break-glass") feature?	Yes	_	Section 5.8, EMRG	SI-17	None
	LIEALTH DATA INTEGRITY AND AUTHOUT					
	HEALTH DATA INTEGRITY AND AUTHENTICITY					
	(IGAU)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	How the device ensures that the stored data on the					
	device has not been altered or destroyed in a non-					
	authorized manner and is from the originator.					
	Does the device provide data integrity checking					
	mechanisms of stored health data (e.g., hash or					
IGAU-1	digital signature)?	Yes	The mechanisms are provided by the OS	Section 5.9, IGAU	SC-28	A.18.1.3
	Does the device provide error/failure protection and					
	recovery mechanisms for stored health data (e.g.,					
IGAU-2	RAID-5)?	Yes	The mechanisms are provided by the OS	Section 5.9, IGAU	SC-28	A.18.1.3
	MALWARE DETECTION/PROTECTION (MLDP)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
				120111 00002 2 212022	11101 01 000 00 11011	100 1700111010
	The ability of the device to effectively prevent, detect					
	and remove malicious software (malware).					
	una remove mancious software (maiware).		User has no access to underlying OS, MAC prevent			
			installation of software and partitions are mounted			
MLDP-1	Is the device capable of hosting executable software?	O No.	in noexec	Section 5.10, MLDP		
MILDP-1	is the device capable of flosting executable software:	! INO	iii noexec	Section 3.10, MLDP		
			Maliaiana and annatastion machanisma bu			
			Malicious code protection mechanisms by:			
			- Use of secure Open-source operating system			
			- Pervasive configuration management and			
			comprehensive software integrity controls are used			
			to prevent execution of unauthorized code			
			- secure coding practices, configuration			
			management and control, trusted procurement			
	Does the device support the use of anti-malware		processes, and monitoring practices to help ensure			
	software (or other anti-malware mechanism)?		that software does not perform functions other			
MLDP-2	Provide details or reference in notes.	Yes	than the functions intended	 Section 5.10, MLDP	SI-3	A.12.2.1
	Does the device include anti-malware software by					A.9.2.3, A.9.4.5, A.12.1.2,
MLDP-2.1	default?	No		Section 5.10, MLDP	CM-5	A.12.1.4, A.12.5.1
	Does the device have anti-malware software					
MLDP-2.2	available as an option?	No		Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
	Does the device documentation allow the					
	owner/operator to install or update anti-malware					
MLDP-2.3	software?	No		Section 5.10, MLDP	CP-10	A.17.1.2
	Can the device owner/operator independently (re-					
MLDP-2.4)configure anti-malware settings?	No		Section 5.10, MLDP	AU-2	None
	Does notification of malware detection occur in the			-,	-	-
MLDP-2.5	device user interface?	N/A				
		.,,				
	Can only manufacturer-authorized persons repair					
MLDP-2.6		Yes				
	systems when malware has been detected?			Ì	Í	1
	systems when malware has been detected?					
MLDP-2.7	systems when malware has been detected? Are malware notifications written to a log?	N/A				
	Are malware notifications written to a log?					
	Are malware notifications written to a log? Are there any restrictions on anti-malware (e.g.,					

			Device has been designed to not execute any data			
			imported on the system. only Signed software			
			components can be installed on system.			
			Hologic SuperSonic Imagine recommends the			
			following cyber Hygiene practices:			
			Ensure that your equipment is in a physically			
			protected and actively monitored area;			
			Ensure that only secure/sanitized USB storage			
			devices are utilized;			
			Ensure that your equipment is protected			
			against network access by unsupervised systems			
			(typically provided by mechanisms such as firewalls			
	If the answer to MLDP-2 is NO, and anti-malware		and VPNs); and			
	cannot be installed on the device, are other		Ensure your data has been backed up and stored			A.12.6.1, A.14.2.2, A.14.2.3,
MLDP-3	compensating controls in place or available?	Yes	according to your institution policy.	Section 5.10, MLDP	SI-2	A.16.1.3
	Does the device employ application whitelisting that					
	restricts the software and services that are permitted					
MLDP-4	to be run on the device?	No		Section 5.10, MLDP	SI-3	A.12.2.1
	Does the device employ a host-based intrusion					
MLDP-5	detection/prevention system?	No		Section 5.10, MLDP	SI-4	None
	· ·					
	Can the host-based intrusion detection/prevention					
MLDP-5.1	system be configured by the customer?	N/A		Section 5.10, MLDP	CM-7	A.12.5.1
	system as some ay the sustainer.	.47.		000000000000000000000000000000000000000	5 /	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Can a host-based intrusion detection/prevention					
MLDP-5.2	system be installed by the customer?	No		Section 5.10, MLDP		
IVILDI 3.2	System be instance by the easterner.		_	3000001 3.10, 141251		
	NODE AUTHENTICATION (MALIT)			IEC TD 90001 2 2:2012	NIST CD 900 F2 Doy 4	ISO 27002:2013
	NODE AUTHENTICATION (NAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	130 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.					
NAUT-1	Web APIs, SMTP, SNMP)?	Yes	DICOM TLS	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.13.1.1, A.13.1.3,
NAUT-2	a network connection white list)?	No	reduced number of services available	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?	N/A				
14701 2.1	Does the device use certificate-based network		_			
NAUT-3	connection authentication?	Yes	DICOM TLS			
14701-2	connection authentication:		DICONI 125			
						1
	COMMICCINATY CARABILITIES (CONT.)	+	+	IFC TD 00004 3 3 3343	NICT CD OOG FO Dece 4	100 37003:3043
	CONNECTIVITY CAPABILITIES (CONN)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
1	IAU naturary and removable modia connections must	I and the second		I		
İ	All network and removable media connections must		- [
	be considered in determining appropriate security					
	be considered in determining appropriate security controls. This section lists connectivity capabilities					
	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device.					
	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity					
CONN-1	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device.	Yes				
CONN-1.1	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections?	Yes Yes				
	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities?					
CONN-1.1	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections?	Yes				
CONN-1.1 CONN-1.1.1	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi?	Yes Yes				
CONN-1.1 CONN-1.1.1	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi?	Yes Yes				
CONN-1.1 CONN-1.1.1	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi? Does the device support Bluetooth?	Yes Yes				
CONN-1.1 CONN-1.1.1 CONN-1.1.2	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi? Does the device support Bluetooth?	Yes Yes No				
CONN-1.1 CONN-1.1.1 CONN-1.1.2	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi? Does the device support Bluetooth? Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)?	Yes Yes No				
CONN-1.1 CONN-1.1.1 CONN-1.1.2	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi? Does the device support Bluetooth? Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)? Does the device support other wireless connections	Yes Yes No No				
CONN-1.1 CONN-1.1.1 CONN-1.1.2	be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device. Does the device have hardware connectivity capabilities? Does the device support wireless connections? Does the device support Wi-Fi? Does the device support Bluetooth? Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)?	Yes Yes No				

CONN-1.2.1 CONN-1.2.2	Does the device have available RJ45 Ethernet ports?					
	Does the device have available RI45 Fthernet ports?					
CONN-1.2.2	· · · · · · · · · · · · · · · · · · ·		_			
	·	Yes	_			
	Does the device require, use, or support removable	.,				
CONN-1.2.3	memory devices?	Yes	<u> </u>			
CONN 1 2 1	Door the device company at her above in least company in the	No				
CONN-1.2.4	Does the device support other physical connectivity?	NO	The surpressed metal metal metal selection DICOM			
	Does the manufacturar provide a list of naturals		The supported network protocols are: DICOM,			
	Does the manufacturer provide a list of network ports and protocols that are used or may be used on		DHCP, NTP.			
CONN-2	the device?	Vos	HTTPS protocol may be enabled for remote maintenance.			
CONN-2	Can the device communicate with other systems	Yes	The device may be connected to a PACS, to a			
CONN-3	within the customer environment?	Yes	Modality Worklist, to a printer.			
COIVIV-3	Can the device communicate with other systems	163	iviouantly workinst, to a printer.			
	external to the customer environment (e.g., a service					
CONN-4	host)?	Yes	The device may be remotely serviceable			
CONN-5	Does the device make or receive API calls?	No	The device may be remotely serviceable			
CONN-5	Does the device require an internet connection for its		_			
CONN-6	intended use?	No				
	Does the device support Transport Layer Security		_			
CONN-7	(TLS)?	Yes	for DICOM connection			
-	(1.50).		see DICOM Conformance statement and User			
CONN-7.1	Is TLS configurable?	Yes	Guide			
551117.1	Does the device provide operator control		53.00			
	functionality from a separate device (e.g.,					
CONN-8	telemedicine)?	No				
			_			
	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			IEC 11 80001-2-2:2012	14151 5F 800-33 Nev. 4	130 27002.2013
	users.					
	Does the device support and enforce unique IDs and					
	passwords for all users and roles (including service		4 accounts exists: emergency access, sonographer,			
PAUT-1	ļ.	Yes	admin and service	Section 5.12, PAUT	IA-2	A.9.2.1
TAOT-1	Does the device enforce authentication of unique IDs		autiliti and service	Section 5.12,1 Act	174-2	A.J.Z.1
	and passwords for all users and roles (including					
PAUT-1.1	service accounts)?	No		Section 5.12, PAUT	IA-2	A.9.2.1
17.01 2.2	Service accounts).		_	300.011 3.12,17101	", 2	71.5.2.1
	Is the device configurable to authenticate users					
	through an external authentication service (e.g., MS					
PAUT-2		No		Section 5.12, PAUT	IA-5	A.9.2.1
				, , , , , , ,		
	Is the device configurable to lock out a user after a					
PAUT-3	certain number of unsuccessful logon attempts?	No		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					
PAUT-6	(organization specific) complexity rules?	No		 Section 5.12, PAUT	IA-2	A.9.2.1
	Does the device support account passwords that					
PAUT-7	expire periodically?	No		 		
PAUT-8	Does the device support multi-factor authentication?	No	_			
PAUT-9	Does the device support single 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?		_	 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
	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	_			
		No Yes				

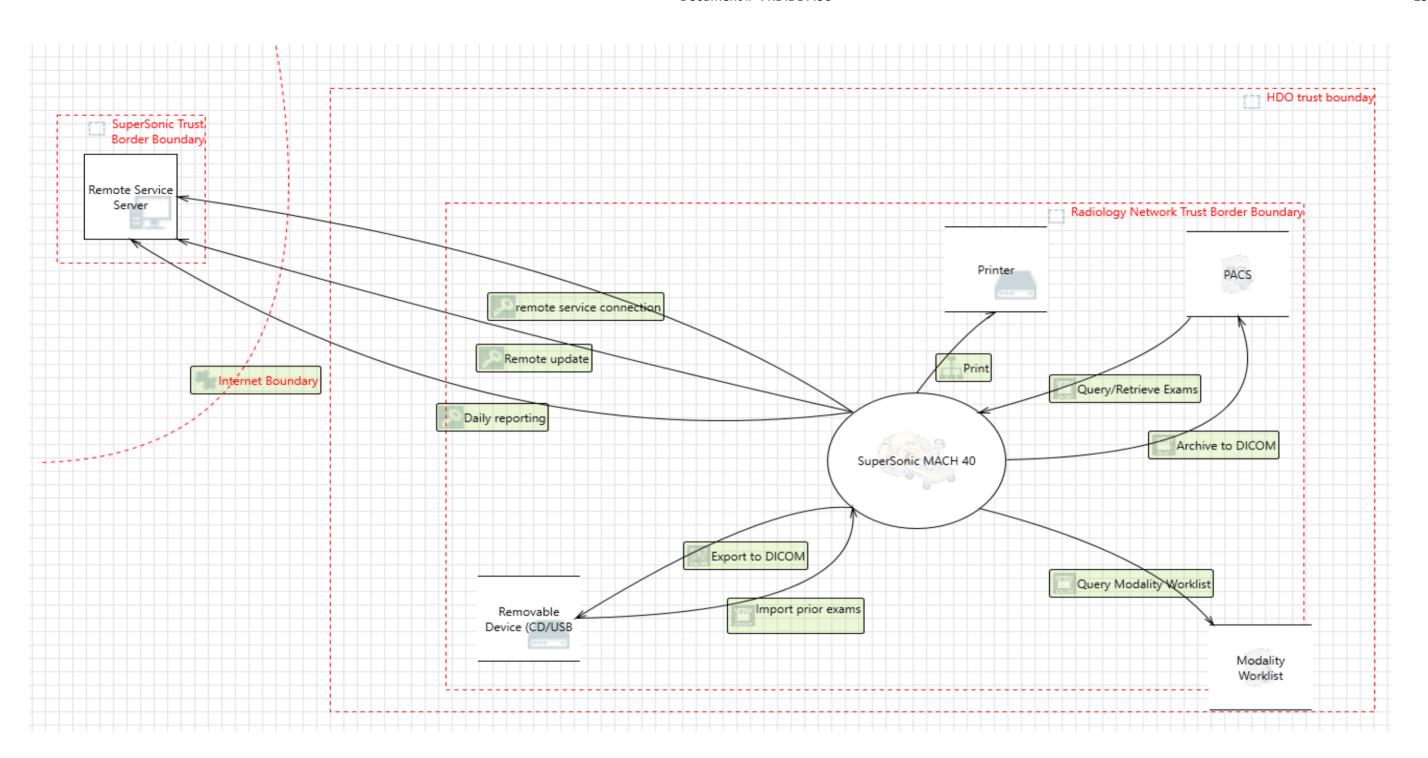
					,	,	_
			Person authentication is achieved through the				
			Linux Pluggable Authentication Module (PAM) is a				
PAUT-14.1	Are credentials stored using a secure method?	Yes	mechanism				
	PHYSICAL LOCKS (PLOK)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Physical locks can prevent 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.	No			Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
I LOK-1	Are all device components maintaining personally				30000013.13,11000	12 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	identifiable information (other than removable						
	media) physically secure (i.e., cannot remove without						
DLOK 3					Continue F 12 DLOK	DE 2/4)	
PLOK-2	tools)?	Yes	 -		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	Are all device components maintaining personally						
	identifiable information (other than removable						
	media) physically secured behind an individually						
PLOK-3	keyed locking device?	No	disks maintaining e-PHI are crypted		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?	No			Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	ROADMAP FOR THIRD PARTY COMPONENTS IN						
	DEVICE LIFE CYCLE (RDMP)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	DEVICE EILE CICEE (KDIVII)				ILC 11 80001-2-2.2012	14151 5F 800-35 Rev. 4	130 27002.2013
	Manufacturer's plans for security support of third-						
	party components within the device's life cycle.						
	Was a secure software development process, such as						
	ISO/IEC 27034 or IEC 62304, followed during product						
RDMP-1	development?	Yes	IEC 62304		Section 5.14, RDMP	CM-2	None
	Does the manufacturer evaluate third-party						
	applications and software components included in						
RDMP-2	the device for secure development practices?	Yes	_		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
	Does the manufacturer maintain a web page or other						
	source of information on software support dates and		If remote service is enabled user can be notified				
RDMP-3	updates?	No	when an update is available		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
			At most every 2 months a service pack will be		,		·
			released incorporating security patch when				
			necessary, and every year a major release with an				
	Does the manufacturer have a plan for managing		updated version of the OS and 3rd party				
DDMD 4		Vos			Costion F 14 DDMD	CM-8	A 9 1 1 A 9 1 2
RDMP-4	third-party component end-of-life?	Yes	components will be released.		Section 5.14, RDMP	CIVI-8	A.8.1.1, A.8.1.2
	COFTWARE BUILDERS CONTROL (CT. 10)		 		IFO TO COOCE O COOCE	NUCT CO COC TO T	100 27022 2212
	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		Yes					
	Does the SBoM follow a standard or common method						
SBOM-2	in describing software components?	No					
SBOM-2.1	·	Yes					
SDOIVI Z.1	·	100					
	IATE THE REVISIONERS (Manufacturers of the cottware			Ī	I	Ī	1
SPOM 2.2	Are the developers/manufacturers of the software	No					
SBOM-2.2	components identified?	No	_				
	components identified? Are the major version numbers of the software						
SBOM-2.2 SBOM-2.3	components identified?	No Yes					
	components identified? Are the major version numbers of the software components identified?		_				

	<u> </u>				T	1	T
	Does the device include a command or process						
	method available to generate a list of software						
SBOM-3	components installed on the device?	No	_				
SBOM-4	Is there an update process for the SBoM?	No	_				
	SYSTEM AND APPLICATION HARDENING (SAHD)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's inherent resistance to cyber attacks and						
	malware.					CM-7	A.12.5.1*
			The folowing compensation are implemented to				
			harden system				
			- Single-function system: US				
			- Address space layout randomization (ASLR)				
			- Protected database link (only local access				
			enabled, password protection)Unused services				
			disabled				
			- Remote loging service disabled				
			- Use of Mandatory Access Control (MAC)				
			mecanism				
	Is the device hardened in accordance with any		- Least privilege principle				A.6.2.1, A.6.2.2, A.13.1.1,
SAHD-1	industry standards?	Yes	- Least functionality principle		Section 5.15, SAHD	AC-17(2)/IA-3	A.13.2.1, A.14.1.2/None
	Has the device received any cybersecurity						A.14.2.7, A.15.1.1, A.15.1.2,
SAHD-2	certifications?	No			Section 5.15, SAHD	SA-12(10)	A.15.1.3
	Does the device employ any mechanisms for						
SAHD-3	software integrity checking	No		L_			
			All the software included in the medical device are				
			provided by a trusted source provider (GNU/Linux				
			Debian). The Debian packages that are included on				
	Does the device employ any mechanism (e.g., release	2-	the medical devices are digitally signed by Hologic				
	specific hash key, checksums, digital signature, etc.)		SuperSonic Imagine.				
	to ensure the installed software is manufacturer-		Debian package is a tamper-evident packaging				
SAHD-3.1	authorized?	Yes	format.				
			All the software included in the medical device are				
			provided by a trusted source provider (GNU/Linux				
			Debian). The Debian packages that are included on				
	Does the device employ any mechanism (e.g., release		the medical devices are digitally signed by Hologic				
	specific hash key, checksums, digital signature, etc.)		SuperSonic Imagine.				
	to ensure the software updates are the manufacturer		Debian package is a tamper-evident packaging				
SAHD-3.2	authorized updates?	Yes	format.		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
07.11.12 0.12	dation2ed apadees.		To much		000.0	5 5	7.110.12.12
	Can the owner/operator perform software integrity						A.6.2.2, A.9.1.2, A.9.4.1,
	checks (i.e., verify that the system has not been						A.9.4.4, A.9.4.5, A.13.1.1,
SAHD-4	modified or tampered with)?	No			Section 5.15, SAHD	AC-3	A.14.1.2, A.14.1.3, A.18.1.3
	Is the system configurable to allow the					1.00	,, /
	implementation of file-level, patient level, or other						
SAHD-5	types of access controls?	No			Section 5.15, SAHD	CM-7	A.12.5.1*
5,1112 3	types of decess controls.		Emergency access can only acquire images		333, 3, 110	J.VI /	7.1.12.13.1
			Sonographer role can acquire images, manage				
			exams, export exams, and change non-security				
			settings				
			admin roles can do all the above plus change				
SAHD-5.1	Does the device provide role-based access controls?	Vas	security settings.		Section 5.15, SAHD	CM-7	A.12.5.1*
JAIID-J.1	Does the device provide role-based access controls?	163	Security settings.		Jection 3.13, 3ATD	CIVI-/	M.12.J.1
	Are any system or user accounts restricted or						
SAHD-6	disabled by the manufacturer at system delivery?	No			Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
JAI10-0	Are any system or user accounts configurable by the		_		Section 3.13, SAIID	CIVI-O	/ 1.0.1.1, A.0.1.2
SAHD 6 1	end user after initial configuration?		Only password can be changed		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.1	Does this include restricting certain system or user	No	Only password can be changed	-	Section 3.13, SARD	CIVI-7	A.12.3.1
CAHD 6.3	accounts, such as service technicians, to least	No			Section E 15 CAUD	CNA 7	Λ 12 E 1*
SAHD-6.2	privileged access?	No		-	Section 5.15, SAHD	CM-7	A.12.5.1*
	Are all shared resources (e.g., file shares) which are not required for the intended use of the device						
SAUD 7	disabled?	Vos			Section E 15 CAUD	CNA 7	Λ 12 E 1*
SAHD-7	Juisabled?	Yes	_		Section 5.15, SAHD	CM-7	A.12.5.1*

	Are all communication ports and protocols that are					
	not required for the intended use of the device					
SAHD-8	disabled?	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?	Yes		Section 5.15, SAHD	CM-6	None
	Are all applications (COTS applications as well as OS-					
	included applications, e.g., MS Internet Explorer, etc.)		A minimal version of the OS is installed on the			
	which are not required for the intended use of the		device. No remote logging, no web browser or mail			A.12.6.1, A.14.2.2, A.14.2.3,
SAHD-10	device deleted/disabled?	Yes	user agent are installed	Section 5.15, SAHD	SI-2	A.16.1.3
	Can the device prohibit boot from uncontrolled or					
	removable media (i.e., a source other than an					
SAHD-11	internal drive or memory component)?	Yes	Disabled in the BIOS			
	Can unauthorized software or hardware be installed					
SAHD-12	on the device without the use of physical tools?	No				
0.11.12			_			
	Does the product documentation include information					
SAHD-13	on operational network security scanning by users?					
32 20	Can the device be hardened beyond the default					
SAHD-14	provided state?	Yes				
5,1115 17	Are instructions available from vendor for increased		_			+
SAHD-14.1	hardening?	Yes	see User Guide			
JANID-17.1	Can the system prevent access to BIOS or other	1.55	See oser saide			+
SHAD-15	bootloaders during boot?	No				
311AD-13	bootloaders during boot:	140				
	Have additional hardening methods not included in					
SAUD 16	2.3.19 been used to harden the device?	No				
SAHD-16	2.3.19 been used to harden the device:	No	_			
				JEG TR 00004 2 2 2042	NUCT CD 000 F0 D	150 27022 2012
	SECURITY GUIDANCE (SGUD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Availability of security guidance for operator and					
	administrator of the device and manufacturer sales					
	and service.					
	Does the device include security documentation for					
SGUD-1	the owner/operator?	Yes	Security information are included in the User Guide	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
	Does the device have the capability, and provide					
	instructions, for the permanent deletion of data from		Permanent deletion of data require storage device			A.8.2.3, A.8.3.1, A.8.3.2,
SGUD-2	the device or media?	No	destruction.	Section 5.16, SGUD	MP-6	A.11.2.7
						A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-3	Are all access accounts documented?	Yes	_	Section 5.16, SGUD	AC-6,IA-2	A.9.4.5/A.9.2.1
	Can the owner/operator manage password control		each user can change his own password, but admin			
SGUD-3.1	for all accounts?	Yes	can change all passwords			
	Does the product include documentation on					
SGUD-4	recommended compensating controls for the device?	Yes	_			
	HEALTH DATA STORAGE CONFIDENTIALITY					
	(STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	(0.00)					
	(0.0.7)					
	The ability of the device to ensure unauthorized					
	The ability of the device to ensure unauthorized					
	The ability of the device to ensure unauthorized access does not compromise the integrity and					
	The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information		e-PHI contained in database, DICOM objects, native			
	The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information		e-PHI contained in database, DICOM objects, native archives and logs are stored on an encrypted			
STCF-1	The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information	Yes		Section 5.17, STCF	SC-28	A.8.2.3
STCF-1 STCF-1.1	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.		archives and logs are stored on an encrypted	Section 5.17, STCF	SC-28	A.8.2.3
	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?	Yes	archives and logs are stored on an encrypted	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1	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?	Yes Yes	archives and logs are stored on an encrypted partition using TPM1.2	Section 5.17, STCF	SC-28	A.8.2.3
	The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypt data at rest? Is all data encrypted or otherwise protected? Is the data encryption capability configured by default?	Yes	archives and logs are stored on an encrypted	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1 STCF-1.2	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	Yes Yes	archives and logs are stored on an encrypted partition using TPM1.2 Encryption can't be disabled	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1	The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypt data at rest? Is all data encrypted or otherwise protected? Is the data encryption capability configured by default?	Yes Yes Yes	archives and logs are stored on an encrypted partition using TPM1.2 Encryption can't be disabled Encryption can't be disabled or configured	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1 STCF-1.2	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	Yes Yes Yes No	archives and logs are stored on an encrypted partition using TPM1.2 Encryption can't be disabled	Section 5.17, STCF Section 5.17, STCF	SC-28 SC-28	A.8.2.3 A.8.2.3

	Is the data stored in a database located on the						
STCF-3	device?	Yes	_				
	Is the data stored in a database external to the						
STCF-4	device?	No					
	TRANSMISSION CONFIDENTIALITY (TXCF)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	, , ,						
	The ability of the device to ensure the confidentiality						
	of transmitted personally identifiable information.						
	Can personally identifiable information be						
	transmitted only via a point-to-point dedicated						
TXCF-1	cable?	No			Section 5.18, TXCF	CM-7	A.12.5.1
IXCF-1	cable:	NO .	_		3ection 3.16, 1ACF	CIVI-7	A.12.3.1
	le nersonally identifiable information engrupted prior		No energyption on removable modic Data				
	Is personally identifiable information encrypted prior		No encryption on removable media. Data		Continue F 40 TVCF	CN4.7	A 12.5.1
TXCF-2	to transmission via a network or removable media?		transmited over the network are crypted		Section 5.18, TXCF	CM-7	A.12.5.1
	If data is not encrypted by default, can the customer						
TXCF-2.1	configure encryption options?	Yes	_		1	-	
	Is personally identifiable information transmission						
TXCF-3	restricted to a fixed list of network destinations?	Yes	Only admin can configure network destination		Section 5.18, TXCF	CM-7	A.12.5.1
			Admin can configure the device to enforce				
TXCF-4	Are connections limited to authenticated systems?	Yes	authentication between systems		Section 5.18, TXCF	CM-7	A.12.5.1
	Are secure transmission methods						
TXCF-5	supported/implemented (DICOM, HL7, IEEE 11073)?	Yes	DICOM TLS is implemented				
	TRANSMISSION INTEGRITY (TXIG)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to ensure the integrity of						
	transmitted data.						
	Does the device support any mechanism (e.g., digital						
	signatures) intended to ensure data is not modified						A.8.2.3, A.13.1.1, A.13.2.1,
TXIG-1	during transmission?	Yes	DICOM TLS		Section 5.19, TXIG	SC-8	A.13.2.3, A.14.1.2, A.14.1.3
TAIG-1	Does the device include multiple sub-components	Tes	DICOIVI 1ES		Section 3.13, TAIG	36-6	A.13.2.3, A.14.1.2, A.14.1.3
TVIC 2	connected by external cables?	No					
TXIG-2	connected by external cables:	No					
	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.						
	Does the device permit remote service connections						A.6.2.1, A.6.2.2, A.13.1.1,
RMOT-1	for device analysis or repair?	Yes	_			AC-17	A.13.2.1, A.14.1.2
	Does the device allow the owner/operator to						
	initiative remote service sessions for device analysis						
RMOT-1.1	or repair?	Yes		<u></u> _			
	Is there an indicator for an enabled and active						
RMOT-1.2	remote session?	Yes					
	Can patient data be accessed or viewed from the						A.6.2.1, A.6.2.2, A.13.1.1,
RMOT-1.3	device during the remote session?	Yes				AC-17	A.13.2.1, A.14.1.2
							,
	Does the device permit or use remote service		The device can be configured to send daily reports.				
RMOT-2	connections for predictive maintenance data?	Yes	Those report do not contain any e-PHI.				
RIVIO1-2	Does the device have any other remotely accessible				<u> </u>	<u> </u>	
	functionality (e.g. software updates, remote						
RMOT-3	training)?	Yes	Software update				
I THE STATE OF THE	ει στι το <i>Ι</i> :	1.00	Softmare apacte			<u> </u>	

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Component Name	Manufacturer	Description	Version
Debian 9 "Stretch"	Debian Community (Open Source)	Debian is an open source operating system (OS)	Debian 9 "Stretch"
Linux Kernel	(Open Source)	Linux image base package	4.9.0-11
Grub	(Open Source)	GRand Unified Bootloader, version 2 (PC/BIOS version)	2.02~beta3-5
Cairo	(Open Source)	Cairo 2D vector graphics library	1.14.6-1gaussian1
GNU/libc	(Open Source)	Embedded GNU C Library	2.24-11+deb9u4
Glib	(Open Source)	GLib library of C routines	2.50.3-2+deb9u1
libstdC++	(Open Source)	GNU Standard C++ Library v3	6.3.0-18+deb9u1
bash	(Open Source)	GNU Bourne Again SHell	4.4-5
python	(Open Source)	interactive high-level object-oriented language	2.7.13-2
Xorg	Free Desktop (Open Source)	X.Org X Window System	1:7.7+19
Redshift	Open Source	Adjusts the color temperature of your screen	1.11-1
Xfce	Xfce(Open Source)	Xfce desktop environment	4.12.1-5
xscreensaver	Open Source	Screensaver daemon and frontend for X11	5.36-1
	PostgreSQL (Open Source)	object-relational SQL database	9.6.15-0+deb9u1
PostgreSQL		·	
Xerces	Apache Foundation (Open Source)	Xerces is a validating XML parser written in a portable subset of C++	3.1.4+debian-2+deb9u1
Dcmtk	OFFIS (Oldenburg Research and Development Institute for Information Technology Tools and Systems)	DICOM toolkit	3.6.4-4-gaussian1
dvd+rw-tools	Andy Polyakov (Open Source)	collection of open source DVD and Blu-ray Disc burning tools for Linux	7.1-11.1
Eject	(Open Source)	Eject is a utility that allows to eject CD-ROM. No documentation is provided to the end user.	2.1.5+deb1+cvs20081104-13.2
xorriso	(Open Source)	command line ISO-9660 and Rock Ridge manipulation tool	1.4.6-1+b1
Libusb-1.0.0	(Open Source)	user space USB programming library	2:1.0.21-1
PulseAudio	(Open Source)	PulseAudio is a network-capable sound server program distributed via the freedesktop.org project	10.0-1+deb9u1
libcanberra0	(Open Source)	simple abstract interface for playing event sounds with pulseAudio backend	0.30-3
		CUDA allows faster image processing and therefore it is very useful to an imaging system. Provided by the Aixplorer series	
CUDA	Nvidia	graphics card manufacturer – Nvidia.	430.50-1
Cg	Nvidia	Nvidia Cg core runtime library	3.1.0013-2+b1
OpenCV	(Open Source)	computer vision Image Processing library	2.4.9.1+dfsg1-2gaussiane6
Орепсу	(Open Source)	OpenMP (Open Multi-Processing) is an application programming interface (API) that supports multi-platform shared memory	2.4.3.1+disg1-2gaussianeo
OpenMP	(Open Source)	multiprocessing programming in C, C++	6.3.0-18+deb9u1
TBB (libtbb2)	Intel (Open Source)	Intel® Threading Building Blocks (Intel® TBB) lets you easily write parallel C++ programs that take full advantage of multicore performance,	4.3~20150611-2
libdbus-c++	(Open Source)	C++ API for D-Bus (runtime package)	0.9.0-9gaussian2
opendds	OCI	OpenDDS is an Open Source, native C++ implementation of the OMG (Object Management Group) Data Distribution Service (DDS for Real-Time Systems specification.	3.13.2-0gaussiane0
pam	(Open Source)	Pluggable Authentication Modules	1.1.8-3.6
pam	(Open source)	PAM module to authenticate using a PostgreSQL database.	1.1.0-3.0
libpam-pgsql	(Open Source) This module lets you authenticate users against a table in a PostgreSQL database. It also supports checking account info		0.7.3.2-1
<u></u>	(0.00)	and updating authentication tokens (i.e., passwords).	
gconf2	(Open Source)	GNOME configuration database system (shared libraries)	3.2.6-4gaussian1
		gtk2: Development environment for GTK toolkit for graphical user interfaces.	gtk2: 2.24.31-1gaussian1
gtk2 & libgtkmm	(Open Source)	libgtkmm: C++ wrappers for GTK+ (shared libraries)	libgtkmm: 1:2.24.5-1gaussian1
Maia	(Open Source)	Maia vectorial canvas	0.3.21-0gaussiane1
CUPS	(Open Source)	Common UNIX Printing System(tm)	2.2.1-8+ deb9u4
libopenjp2	(Open Source)	JPEG 2000 image compression/decompression library	2.1.2-1.1+deb9u3
charls	(Open Source)	Implementation of the JPEG-LS standard	1.1.0+dfsg-2
libsensors4	(Open Source)	library to read temperature/voltage/fan sensors	1:3.4.0-4
			0.7.7-0gaussiane0 (for customer
Thinguage sciolions	DTC	This grows alignet for Council Cario Insociants Airelevans	site environment)
Thingworx-ssiclient	PTC	Thingworx client for SuperSonic Imagine's Aixplorers.	0.3.10-0gaussiane1(for
			production environment
x11vnc	(Open Source)	VNC server to allow remote access to an existing X session	0.9.13-2+deb9u1
rastertosonyhs	Sony	Sony CUPS raster filter for UP-D897, UP-990AD, UP-970AD and UP-711MD	1.4.1-0gaussian6
rastertosony	Sony	Sony CUPS raster filter for Sony UP-DR80MD, UP-D25MD, UP-991AD, UP-971AD, UP-D898MD, UP-X898MD	1.4.0.2-0gaussiane2
pgm2d897	Sony	Sony pgm2d897 converter	0.0.3-0gaussian2
pgm2d23md	Sony	Sony pnm2d23md converter	0.0.2-0gaussian2
•	·	Sony upd23md converter Sony upd23md cups driver	
upd23md	Sony		1.0.10-0gaussian2.1
intel-mkl	Intel	Intel Math Kernel Library	2017.2.174-0gaussian3