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

 Spacelabs Healthcare
 96280, Xhibit Telemetry Receiver (XTR)
 091-0303-08 Rev A
 12/20/2022

Section   Sect	Question ID	Question		See note	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
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Part	DOC-4	Document ID		_			
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Part	DOC-5	Manufacturer Contact Information		_			
Septimal services of the control of planes, before the center process of control of planes, the center process of center							
Series of the se							
For the part of th							
Property			communicates vital signs data for display on the central station.				
Service of the Part of the Par			The XTR is a rack mounted device that uses the Microsoft Windows 10 IoT				
Series of the series of the series in intended use of facine in metallic use of facine in metall			Enterprise Version 1809 operating system. These devices are traditionally housed				
Part			in server racks that are physically locked from routine access. These devices				
the control of the co			connect to the RF antenna infrastructure, which receives data from as many as 16				
Part			Aria Tele devices for transmission via TCP/IP protocols to the central monitors or				
Note of device in device in element, caused of device in element and device in element of the legality of the plants of the pl			the Integration Software.				
DOC-07			The XTR has no user interface and a central monitor is used to assign a specific				
DOC-07   Concent Indicate Direct   Dec-22   Dec-222   Dec-22   Dec-222   Dec-222   Dec-222   Dec-222   Dec-222   Dec-222   Dec-		Intended use of device in network-connected	Aria Tele device to a specific patient so that data collected is properly associated				
December	DOC-6	environment:					
Part	DOC-7	Document Release Date		_			
Coefficiate Vulnerability Dictionare Does the manufacturar have vulnerability Dictionare Property and Fundament was vulnerability Dictionare Programs and Fundament was vulnerability Dictionare Programs and Property and Information and Property and Property and Information and Property and P				We publish bulletins for major vulnerabilities and			
Coordinate Shire Brilling Disclosure Does the minufficience have passed by the passe							
manufacture hase a wine-balling doctourse group of the device of this device of this device of this device of this device of the		Coordinated Vulnerability Disclosure: Does the					
Forth Bookie/   Very							
SAD: 18 the manufacture part of an information   Sapering and Analysis (granterior)   Sapering and Analysis (granterior)   Sapering and Analysis (granterior)   Sapering and Analysis (granterior)   Samilia in the device software as a Middla Device   Lange of the Sand of the device software as a Middla Device   Lange of the Sand of the device software as a Middla Device   Lange of the Sand of the device software as a Middla Device   Lange of the Sand of the device software as a Middla Device   Lange of the Sand of the device software as a Middla Device   Lange of the Sand of the device software as a Middla Device   Lange of the Sand o	DOC-8						
Standarg Analysis Organization   Polegam is an entwort of del flow degree massable   Polegam is an entwort of del flow degree analysis   Polegam is an entwort of del flow degree and entworted in the degree of demail required demail requ	DOC-8		ies	unity/security-advisories-and-archives/			
Diagram 15 a network or data flow diagram available that indicates connection to other spate (activate lecture)   Yes   See Mote 26	0000		No				
that indicates connections to other system components or genetic destinal insorance? SMO. 1st device. Software as a Ablectal Device [i.e. DOC-11.1 DOC-11.1 DOC-11.2 Docs the SAMD rose of by the construction of posting system? DOC-12.2 Docs the SAMD rose of by the constanting accounting system. DOC-12.2 Docs the SAMD rose of by the constanting accounting system. DOC-12.2 DOC-12.3 DOC-12.3 Docs the SAMD rose of by the constanting accounting system. DOC-12.4 DOC-12.3 DOC-12.3 DOC-12.3 DOC-12.4 DO	DOC-9			_			
Consideration   Consideratio							
SAND 1st device Software as a Medical Device (i.e.)   No	DOC 10		Voc	Son Note 25			
DOC-111	DOC-10			See Note 23			
Does the SAMD contain an operating system?   Does the SAMD contain an operating system?   Does the SAMD contain an operating system?   ANA	DOC 11						
Does the SAMO rely on an owner/operator provided operating system?   N/A			117	_			
DOC-112   Operating system?   OPERATING STATE   OPERATION STATE	DOC-11.1		N/A	_			
Second   S	000443		N/A				
See Note   Not				_			
Vest No.							
NANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic information personally identifiable information in a database?  MPII-2.1	DOC-11.4	is the sawb hosted by the customer?	IVA	_			
NANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic information personally identifiable information in a database?  MPII-2.1			Voc. No.				
MANAGEMENT OF PERSONALLY IDENTIFICABLE   INFORMATION   I							
MPII-1 (Protected February 1) (Protected Febr				Note: II			
NFORMATION   This device display, transmit, store, or modify personally identifiable information (e.g. electronic personally identifiable information personally identifiable information personally identifiable information in a darabase?   NFORMATION		MANAGEMENT OF DEDCONALLY IDENTIFIABLE	see Note	Note #			
Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (e.g. electronic Path) (electronic path) (electrinic path) (electronic path) (electrinic path) (electronic path) (electrinic path)					IEC TD 90001 2 2:2012	NICT CD 900 E2 Dov. 4	100 27002,2012
Personally identifiable information (eg. electronic Policy   Personally identifiable   Policy   Personally identifiable   Policy   Personally identifiable   Personally iden					IEC TR 80001-2-2:2012	NIST 3P 800-33 Rev. 4	130 27002:2013
MPII-1 Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until deared by power-off or reset)? Does the device store personally identifiable information personally identifiable information personally identifiable information perserved in the device store personally identifiable information perserved in the device store personally identifiable information in a database.  MPII-2.3 device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database.  MPII-2.5 [information and the device information after it is stored to a long term solution? Does the device importeport personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?  MPII-2.6 [identifiable information personally identifiable information with protection to a server)? Does the device import-personally identifiable information to a server)? Does the device import-personally identifiable information with potentifiable information to a server)? Does the device import-personally identifiable information with potentifiable information							
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MPII-2 information? Yes AR-2 A.15.1.4 Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until volation temporarily in volatile memory (i.e., until volatile memory until volgitile formation persistently on internal media? Is personally identifiable information preserved in the device store personally identifiable information in a database? Ves	MPII-1		Yes	_		AR-2	A.15.1.4
Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until depend by nower-off or reset)?  MPII-2.1 (deared by power-off or reset)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device store personally identifiable information preserved in the device store personally identifiable information preserved in the device store personally identifiable information in a database?  MPII-2.1 (Information in a database? Does the device altox configuration to automatically delete local personally identifiable information after it is stored to a long term solution? Does the device import/export personally identifiable information into device information of the device import/export personally identifiable information to a server)?  MPII-2.6 (Identifiable information to a server)?  Ves							
MPII-2.1 cleared by power-off or reset?? Yes — — — — — — — — — — — — — — — — — — —	MPII-2		Yes	_		AR-2	A.15.1.4
MPII-2.1 cleared by power-off or reset!)? Yes							
Does the device store personally identifiable information persistently on internal media?  MPII-2.3 device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information after information with other systems (e.g., a wearable monitoring device might export personally identifiable information at server)?  MPII-2.6   identifiable information to a server)? Does the device almost on a server)? Does the device might export personally identifiable information to a server)? Does the device might export personally identifiable information to a server)? Does the device might export personally identifiable information when powered off, or during power							
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MPII-2.3 device's non-volatile memory until explicitly erased?  Does the device store personally identifiable information in a database?  MPII-2.4 information in a database?  Does the device allow configuration to automatically delete local personally identifiable information are recommended in the properties of the stored to a long term solution?  MPII-2.5 it is stored to a long term solution?  MPII-2.6 identifiable information on the systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?  MPII-2.6 Does the device maintain personally identifiable information when powered off, or during power	MPII-2.2			_			
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MPII-2.4 information in a database?  No  Does the device allow configuration to automatically delete local personally identifiable information after it is stored to a long term solution? Does the device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?  Yes  Does the device maintain personally identifiable information when powered off, or during power	MPII-2.3		Yes	_			
Does the device allow configuration to automatically delete local personally identifiable information after to store to a long term solution?  MPII-2.5  MPII-2.6  MPII-2.6  MPII-2.6  Does the device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information on a server)?  MPII-2.6  Does the device maintain personally identifiable information when powered off, or during power		Does the device store personally identifiable					
delete local personally identifiable information after MPII-2.5 it is stored to a long term solution? 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)?  MPII-2.6 identifiable information to a server)? Does the device maintain personally identifiable information when powered off, or during power	MPII-2.4	information in a database?	No	_			
MPII-2.5 it is stored to a long term solution?  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)?  MPII-2.6 Does the device maintain personally identifiable information when powered off, or during power							
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information with other systems (e.g., a wearable monitoring device might export personally  MPII-2.6 identifiable information to a server)?  Does the device maintain personally identifiable information when powered off, or during power	MPII-2.5			_		AR-2	A.15.1.4
monitoring device might export personally MPII-2.6 identifiable information to a server/? Does the device maintain personally identifiable Information when powered off, or during power		Does the device import/export personally identifiable					
monitoring device might export personally MPII-2.6 identifiable information to a server/? Does the device maintain personally identifiable Information when powered off, or during power		information with other systems (e.g., a wearable					
MPII-2.6 identifiable information to a server)?  Does the device maintain personally identifiable information when powered off, or during power							
Does the device maintain personally identifiable information when powered off, or during power	MPII-2.6		Yes			AR-2	A.15.1.4
information when powered off, or during power							
	MPII-2.7		Yes	_		AR-2	A.15.1.4

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	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	_			
	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		Logs with PII are stored in secondary alternative			
MPII-2.9	storage location)?	No	drive partition		AR-2	A.15.1.4
	Does the device have mechanisms used for the transmitting, importing/exporting of personally					
MPII-3	identifiable information?	Yes	_		AR-2	A.15.1.4
	Does the device display personally identifiable					
MPII-3.1	information (e.g., video display, etc.)?  Does the device generate hardcopy reports or image:	No s	_		AR-2	A.15.1.4
MPII-3.2	containing personally identifiable information?	No	_		AR-2	A.15.1.4
	Does the device retrieve personally identifiable					
	information from or record personally identifiable information to removable media (e.g., removable-					
	HDD, USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD					
MPII-3.3	card, memory stick, etc.)?  Does the device transmit/receive or import/export	No	_		AR-2	A.15.1.4
	personally identifiable information via dedicated					
MPII-3.4	cable connection (e.g., RS-232, RS-423, USB, FireWire	e, No	_		AR-2	A.15.1.4
	Does the device transmit/receive personally identifiable information via a wired network					
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	Yes	_		AR-2	A.15.1.4
	Does the device transmit/receive personally					
	identifiable information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared,					
MPII-3.6	cellular, etc.)?	No			AR-2	A.15.1.4
	Does the device transmit/receive personally					
MPII-3.7	identifiable information over an external network (e.g., Internet)?	No			AR-2	A.15.1.4
	Does the device import personally identifiable		_			
MPII-3.8	information via scanning a document?	No	_			
MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol?	Yes				
	Does the device use any other mechanism to		_			
MPII-3.10	transmit, import or export personally identifiable information?	N/A			AR-2	A.15.1.4
Management of Pri		N/A	_		AR-2	A.15.1.4
-						
	AUTOMATIC LOGOFF (ALOF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's ability to prevent access and misuse by					
	unauthorized users if device is left idle for a period of	F				
	time.  Can the device be configured to force reauthorization	n				
	of logged-in user(s) after a predetermined length of					
	inactivity (e.g., auto-logoff, session lock, password					
ALOF-1	protected screen saver)? Is the length of inactivity time before auto-	N/A	Note 1	Section 5.1, ALOF	AC-12	None
ALOF-2	logoff/screen lock user or administrator configurable	? N/A	_	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
	AUDIT CONTROLS (AUDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to reliably audit activity on the device.					
	Can the medical device create additional audit logs of					A.5.1.1, A.5.1.2, A.6.1.1,
AUDT-1 AUDT-1.1	reports beyond standard operating system logs?  Does the audit log record a USER ID?	Yes Yes	Note 32	Section 5.2, AUDT	AU-1	A.12.1.1, A.18.1.1, A.18.2.2
AUDI-1.1	Does other personally identifiable information exist in					
AUDT-1.2	the audit trail?	Yes	_	Section 5.2, AUDT	AU-2	None
	Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the					
AUDT-2	audit log:	Yes	Note 2	Section 5.2, AUDT	AU-2	None
AUDT-2.1	Successful login/logout attempts? Unsuccessful login/logout attempts?	Yes Yes	_	Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUDT-2.2 AUDT-2.3	Unsuccessful login/logout attempts?  Modification of user privileges?	Yes Yes	_	Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUDT-2.4	Creation/modification/deletion of users?	Yes	_	Section 5.2, AUDT	AU-2	None
AUDT-2.5 AUDT-2.6	Presentation of clinical or PII data (e.g. display, Creation/modification/deletion of data?	N/A Yes	Note 1	Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUD1-2.0	creation/mounication/deletion of data?	165	_	Section 5.2, AUDI	AU-2	None

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AUDT-2.7	Import/export of data from removable media (e.g. USB drive, external hard drive, DVD)?	N/A	_	Section 5.2, AUDT	AU-2	None
AUDT-2.8	Receipt/transmission of data or commands over a network or point-to-point connection?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.8 AUDT-2.8.1	Remote or on-site support?	Yes	Note 3	Section 5.2, AUDT	AU-2 AU-2	None
AUD1-2.8.1	Application Programming Interface (API) and similar	163	Note 5	3cction 3.2, A0D1	A0 2	None
AUDT-2.8.2	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		Yes	Note 4	Section 5.2, AUDT	AU-2	None
	Can the owner/operator define or select which					
AUDT-3	events are recorded in the audit log?	No	_	Section 5.2, AUDT	AU-2	None
	Is a list of data attributes that are captured in the	L.			AU-2	
AUDT-4	audit log for an event available?	Yes	_	Section 5.2, AUDT	AU-2 AU-2	None
AUDT-4.1	Does the audit log record date/time?  Can date and time be synchronized by Network Time	Yes	_	Section 5.2, AUDT	AU-2	None
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?	No	_			
	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)?	Yes	Note 5			
	Are audit logs encrypted in transit or on storage					
AUDT-5.4	media?	No	_			
AUDT-6	Can audit logs be monitored/reviewed by	No				
AUDT-7	owner/operator? Are audit logs protected from modification?	No Yes	_	Section 5.2, AUDT	AU-2	None
AUDT-7.1		Yes	_	Section 5.2, AODT	A0-2	None
AUDT-8		No		Section 5.2, AUDT	AU-2	None
	, ,		_			
	AUTHORIZATION (AUTH)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to determine the authorization of users.					
	authorization of users.  Does the device prevent access to unauthorized users					
AUTU 4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other		Note 4	Service C.2. AUTU	44.2	4021
AUTH-1	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?	N/A	Note 1	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1	authorization of users. Does the device prevent access to unauthorized users through user login requirements or other mechanism? Can the device be configured to use federated		Note 1	Section 5.3, AUTH	IA-2	A.9.2.1
	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization	N/A	Note 1			
AUTH-1	authorization of users. Does the device prevent access to unauthorized users through user login requirements or other mechanism? Can the device be configured to use federated		Note 1	Section 5.3, AUTH Section 5.3, AUTH	IA-2	A.9.2.1 A.9.2.1
	authorization of users. Does the device prevent access to unauthorized users through user login requirements or other mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)?	N/A	Note 1			
AUTH-1.1 AUTH-1.2	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group	<b>N/A</b> N/A N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2	A.9.2.1 A.9.2.1
AUTH-1.1	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuthl)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?	<b>N/</b> A	Note 1	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.1 AUTH-1.2	authorization of users. Does the device prevent access to unauthorized users through user login requirements or other mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based	<b>N/A</b> N/A N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2	A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., ACtive Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on Tole' (e.g., user, administrator, and/or service,	<b>N/A</b> N/A  N/A  N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	<b>N/A</b> N/A N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2	A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves	<b>N/A</b> N/A  N/A  N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	<b>N/A</b> N/A  N/A  N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administratore privileges (e.g., access	<b>N/A</b> N/A  N/A  N/A	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access	N/A N/A N/A No No	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
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AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application valocal root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
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AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application valocal root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application valocal root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAUth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrator account??  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAUth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrator account??  Does the device authorize or control all API access requests?  Does the device authorize or control all API access requests?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security potches.	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.  Does the device contain any software or firmware	N/A N/A N/A N/A No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.  Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer of from a third-party manufacturer of the	N/A N/A N/A N/A No No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4 AUTH-5	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.  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	N/A N/A N/A N/A NO NO NO NO		Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device authorize or control all API access requests?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.  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.	N/A N/A N/A N/A No No No No	Note 1	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2 AUTH-3 AUTH-4 AUTH-5	authorization of users.  Does the device prevent access to unauthorized users through user login requirements or other mechanism?  Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?  Can the customer push group policies to the device (e.g., Active Directory)?  Are any special groups, organizational units, or group policies required?  Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc)?  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?  Does the device authorize or control all API access requests?  Does the device run in a restricted access mode, or 'kiosk mode', by default?  CYBER SECURITY PRODUCT UPGRADES (CSUP)  The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.  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	N/A N/A N/A N/A NO NO NO NO		Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1

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	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-2.1	software updates?	No	_
CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	
C501 2.2	Does the device have the capability to receive remote		_
CSUP-2.3	installation of patches or software updates?	No	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the		
CSUP-2.4	manufacturer?	No	_
	Does the device contain Drivers and Firmware? If yes,		
CSUP-3	complete 3.1-3.4.  Does the device documentation provide instructions	Yes	_
	for owner/operator installation of patches or		
CSUP-3.1	software updates?	N/A	_
	Does the device require vendor or vendor-authorized		
CSUP-3.2	service to install patches or software updates?  Does the device have the capability to receive remote	No	_
CSUP-3.3	installation of patches or software updates?	No	
	Does the medical device manufacturer allow security		_
	updates from any third-party manufacturers (e.g.,		
CSUP-3.4	Microsoft) to be installed without approval from the manufacturer?	No	
C301 -3.4	Does the device contain Anti-Malware Software? If		_
CSUP-4	yes, complete 4.1-4.4.	No	_
	Does the device documentation provide instructions for owner/operator installation of patches or		
CSUP-4.1	software updates?	No	
	Does the device require vendor or vendor-authorized		_
CSUP-4.2	service to install patches or software updates?	Yes	_
CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates?	No	
C301 4.3	Does the medical device manufacturer allow security		_
	updates from any third-party manufacturers (e.g.,		
CSUP-4.4	Microsoft) to be installed without approval from the manufacturer?	No	
C301 4.4	Does the device contain Non-Operating System		_
	commercial off-the-shelf components? If yes,		
CSUP-5	complete 5.1-5.4.  Does the device documentation provide instructions	Yes	_
	for owner/operator installation of patches or		
CSUP-5.1	software updates?	No	_
CCUP F 2	Does the device require vendor or vendor-authorized	Yes	
CSUP-5.2	service to install patches or software updates?  Does the device have the capability to receive remote		_
CSUP-5.3	installation of patches or software updates?	No	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the		
CSUP-5.4	manufacturer?	No	
	Does the device contain other software components		
	(e.g., asset management software, license management)? 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?  Does the device require vendor or vendor-authorized	N/A	_
CSUP-6.2	service to install patches or software updates?	N/A	_
	Does the device have the capability to receive remote		
CSUP-6.3	installation of patches or software updates?  Does the medical device manufacturer allow security	N/A	_
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-6.4	manufacturer?	N/A	_
CSUP-7	Does the manufacturer notify the customer when updates are approved for installation?	N/A	
	Does the device perform automatic installation of		
CSUP-8	software updates?  Does the manufacturer have an approved list of third-	N/A	_
CSUP-9	party software that can be installed on the device?	N/A	

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	Can the owner/operator install manufacturer-						
	approved third-party software on the device themselves?	No	_				
	Does the system have mechanism in place to prevent installation of unapproved software?	Yes					
	Does the manufacturer have a process in place to		_				
	assess device vulnerabilities and updates?  Does the manufacturer provide customers with	Yes	_				
	review and approval status of updates?  Is there an update review cycle for the device?	No Yes	Note 26 Note 27				
	HEALTH DATA DE-IDENTIFICATION (DIDT)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to directly remove						
	information that allows identification of a person.  Does the device provide an integral capability to de-						
	identify personally identifiable information?  Does the device support de-identification profiles	No	_		Section 5.6, DIDT	None	ISO 27038
	that comply with the DICOM standard for de-	No			Continue F.C. DIDT	None	150 27020
DIDT-1.1	identification?	NO	_		Section 5.6, DIDT	None	ISO 27038
	DATA BACKUP AND DISASTER RECOVERY (DTBK)	1			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?  Does the device have an integral data backup	No	_		Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-3	capability to removable media?	No	_		Section 5.7, DTBK	CP-9	A.12.3.1
	Does the device have an integral data backup capability to remote storage?	No	_				
	Does the device have a backup capability for system configuration information, patch restoration, and						
DTBK-5	software restoration?	No	_				
	Does the device provide the capability to check the integrity and authenticity of a backup?	No	_		Section 5.7, DTBK	CP-9	A.12.3.1
	EMERGENCY ACCESS (EMRG)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device user to access personally identifiable information in case of a medical						
	emergency situation that requires immediate access to stored personally identifiable information.						
	Does the device incorporate an emergency access						
EMRG-1	(i.e. "break-glass") feature?	No	_		Section 5.8, EMRG	SI-17	None
	HEALTH DATA INTEGRITY AND AUTHENTICITY						
	(IGAU)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	How the device ensures that the stored data on the device has not been altered or destroyed in a non-						
	authorized manner and is from the originator.						
	Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or						
IGAU-1	digital signature)?	No	-		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)?	No	_		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
	The ability of the device to effectively prevent, detect				ILC IN 00001-2-2.2012	14131 3F 000-33 NEV. 4	130 27002.2013
	and remove malicious software (malware).  Is the device capable of hosting executable software?	Yes	Note 8		Section 5.10, MLDP		
INICOL-1	author capable of nosting executable software:		<u></u>		Section 5.20, MEDI		

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	Does the device support the use of anti-malware						
	software (or other anti-malware mechanism)?						
MLDP-2	Provide details or reference in notes.	No	_		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?  Does the device have anti-malware software available	N/A	_		Section 5.10, MLDP	CM-5	A.12.1.4, A.12.5.1
MLDP-2.2	as an option?	N/A			Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
MEDI ELE	Does the device documentation allow the	.4	_				,,,
	owner/operator to install or update anti-malware						
MLDP-2.3	software?	N/A	_		Section 5.10, MLDP	CP-10	A.17.1.2
	Can the device owner/operator independently (re-						
MLDP-2.4	)configure anti-malware settings?  Does notification of malware detection occur in the	N/A	_		Section 5.10, MLDP	AU-2	None
MLDP-2.5	device user interface?	N/A					
111251 2.3	Can only manufacturer-authorized persons repair	.4	_				
MLDP-2.6	systems when malware has been detected?	N/A	_				
MLDP-2.7	Are malware notifications written to a log?	N/A	_				
	Are there any restrictions on anti-malware (e.g.,						
MLDP-2.8	purchase, installation, configuration, scheduling)?	N/A	_				
	If the answer to MLDP-2 is NO, and anti-malware cannot be installed on the device, are other						A.12.6.1, A.14.2.2, A.14.2.3,
MLDP-3	compensating controls in place or available?	Yes	Note 9		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?	Yes	_		Section 5.10, MLDP	SI-3	A.12.2.1
	Does the device employ a host-based intrusion						
MLDP-5	detection/prevention system?  Can the host-based intrusion detection/prevention	No	Note 10		Section 5.10, MLDP	SI-4	None
MLDP-5.1	system be configured by the customer?	No			Section 5.10, MLDP	CM-7	A.12.5.1
WIEDI S.I	Can a host-based intrusion detection/prevention	No	_		Section 3.10, WEDI	CIVITY	A.12.3.1
MLDP-5.2	system be installed by the customer?	No	_		Section 5.10, MLDP		
NAUT-1 NAUT-2 NAUT-2.1 NAUT-3	The ability of the device to authenticate communication partners/nodes. Does the device provide/support any means of node authentication that assures both the sender and the recipient of data are known to each other and are authorized to receive transferred information (e.g. Web 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)?  Is the firewall ruleset documented and available for review?  Does the device use certificate-based network connection authentication?	No	- -		Section 5.11, NAUT Section 5.11, NAUT	SC-23 SC-7	None A.13.1.1, A.13.1.3, A.13.2.1,A.14.1.3
	CONNECTIVITY CAPABILITIES (CONN)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	All network and removable media connections must be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device.						
CONN 4	Does the device have hardware connectivity	Ver					
CONN-1 CONN-1.1	capabilities?  Does the device support wireless connections?	Yes Yes	_				
CONN-1.1 CONN-1.1.1	Does the device support Wi-Fi?	No No	_				
CONN-1.1.2	Does the device support Bluetooth?	No	=				
	Does the device support other wireless network						
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	No	_				
CONN-1.1.4	Does the device support other wireless connections	Ver	Note 42				
CONN-1.1.4 CONN-1.2	(e.g., custom RF controls, wireless detectors)?  Does the device support physical connections?	Yes Yes	<u>Note 12</u>				
CONN-1.2.1	Does the device support physical connections?  Does the device have available RJ45 Ethernet ports?		_				
CONN-1.2.2	Does the device have available USB ports?	Yes	Note 13				
	Does the device require, use, or support removable						
CONN-1.2.3	memory devices?	Yes	_				
CONN-1.2.4	Does the device support other physical connectivity?	No	_				

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	Does the manufacturer provide a list of network port	ts				
CONN-2	and protocols that are used or may be used on the device?	No				
CONN-2	Can the device communicate with other systems	NO	_			
CONN-3	within the customer environment?	Yes	Note 14			
	Can the device communicate with other systems external to the customer environment (e.g., a service					
CONN-4	host)?	No	_			
CONN-5	Does the device make or receive API calls?	No	_			
CONN-6	Does the device require an internet connection for its intended use?	No.				
	Does the device support Transport Layer Security		_			
CONN-7 CONN-7.1	(TLS)? Is TLS configurable?	No N/A	_			
CONN-7.1	Does the device provide operator control	N/A	_			
	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 users.					
	Does the device support and enforce unique IDs and					
	passwords for all users and roles (including service					
PAUT-1	accounts)?  Does the device enforce authentication of unique IDs	No s	_	Section 5.12, PAUT	IA-2	A.9.2.1
	and passwords for all users and roles (including					
PAUT-1.1	service accounts)?	N/A	_	Section 5.12, PAUT	IA-2	A.9.2.1
	Is the device configurable to authenticate users through an external authentication service (e.g., MS					
PAUT-2	Active Directory, NDS, LDAP, OAuth, etc.)?	No	_	Section 5.12, PAUT	IA-5	A.9.2.1
DALIT 3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	N/A		Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-3	Are all default accounts (e.g., technician service	N/A	_	Section 5.12, PAOT	IA-Z	A.9.2.1
	accounts, administrator accounts) listed in the					A.14.1.1, A.14.2.7, A.14.2.9,
PAUT-4 PAUT-5	documentation? Can all passwords be changed?	N/A N/A	Note 28	Section 5.12, PAUT Section 5.12, PAUT	SA-4(5)	A.15.1.2
PA01-3	Is the device configurable to enforce creation of user		_	3ection 3.12, PAO1		
	account passwords that meet established					
PAUT-6	(organization specific) complexity rules?  Does the device support account passwords that	N/A	_	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-7	expire periodically?	N/A	_			
PAUT-8	Does the device support multi-factor authentication?		_	Section F 12 DAUT	14.2	4021
PAUT-9 PAUT-10	Does the device support single sign-on (SSO)? Can user accounts be disabled/locked on the device?	N/A No	_	Section 5.12, PAUT Section 5.12, PAUT	IA-2 IA-2	A.9.2.1 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				
PA01-12	Does the device support group authentication (e.g.		_			
PAUT-13	hospital teams)?  Does the application or device store or manage	No	_			
PAUT-14	authentication credentials?	No				
PAUT-14.1	Are credentials stored using a secure method?	N/A				
	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					
PLOK-1	Is the device software only? If yes, answer "N/A" to 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
	Are all device components maintaining personally				• •	
	identifiable information (other than removable media) physically secure (i.e., cannot remove without	t				
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		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3

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	Does the device have an option for the customer to					
	attach a physical lock to restrict access to removable media?	No		Continue 5 42 DLOK	DE 2/4)	
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
	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?  Does the manufacturer evaluate third-party	Yes	Note 15	Section 5.14, RDMP	CM-2	None
	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					
RDMP-3	updates?	No	_	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	Note 16	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
KDIVIP-4	tillu-party component end-or-line:	ies	Note 10	Section 5.14, NOWIF	CIVITO	A.O.1.1, A.O.1.2
	SOFTWARE BILL OF MATERIALS (SBoM)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	A Software Bill of Material (SBoM) lists all the			IEC 1R 80001-2-2:2012	NIST SP 800-53 KeV. 4	150 2/002:2013
	software components that are incorporated into the					
	device being described for the purpose of operational security planning by the healthcare delivery	I				
	organization. This section supports controls in the					
	RDMP section.	L.				
SBOM-1	Is the SBoM for this product available?  Does the SBoM follow a standard or common method	Yes d	Appendix 1			
SBOM-2	in describing software components?	Yes	Note 17			
SBOM-2.1	Are the software components identified?  Are the developers/manufacturers of the software	Yes	_			
SBOM-2.2	components identified?	Yes	_			
	Are the major version numbers of the software					
SBOM-2.3 SBOM-2.4	components identified?  Are any additional descriptive elements identified?	Yes No	_			
	Does the device include a command or process		_			
SBOM-3	method available to generate a list of software components installed on the device?	No	Note 30			
SBOM-4	Is there an update process for the SBoM?	Yes	Note 18			
	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			IEC TR 80001-2-2.2012	NIST SF 800-33 Nev. 4	130 27002.2013
	malware.				CM-7	A.12.5.1*
SAHD-1	Is the device hardened in accordance with any industry standards?	Yes	Note 19	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
	Has the device received any cybersecurity		- <del></del>			A.14.2.7, A.15.1.1, A.15.1.2,
SAHD-2	certifications?  Does the device employ any mechanisms for software	No		Section 5.15, SAHD	SA-12(10)	A.15.1.3
SAHD-3	integrity checking	Yes	Note 8			
	Does the device employ any mechanism (e.g., release					
	specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-					
SAHD-3.1	authorized?	No	_			
	Does the device employ any mechanism (e.g., release specific hash key, checksums, digital signature, etc.)	2-				
	to ensure the software updates are the manufacturer	r-				
SAHD-3.2	authorized updates?	No	_	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,
	Can the owner/operator perform software integrity 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 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*
SAHD-5.1	Does the device provide role-based access controls?  Are any system or user accounts restricted or	N/A	_	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6	disabled by the manufacturer at system delivery?	Yes	Note 20	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
CAUD CA	Are any system or user accounts configurable by the			Section F 15 SAUD	CM-7	A 12 F 1*
SAHD-6.1	end user after initial configuration?	No	_	Section 5.15, SAHD	CIVI-/	A.12.5.1*

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	Does this include restricting certain system or user					
	accounts, such as service technicians, to least					
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					
SAHD-7	disabled?	N/A	_	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	V	Note 42	Continue E 45 CAUD	CA 40	None
SAHD-8	disabled?  Are all services (e.g., telnet, file transfer protocol	Yes	Note 13	Section 5.15, SAHD	SA-18	None
	[FTP], internet information server [IIS], etc.), which					
	are not required for the intended use of the device					
SAHD-9	deleted/disabled?	Yes	Note 33	Section 5.15, SAHD	CM-6	None
	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					A.12.6.1, A.14.2.2, A.14.2.3,
SAHD-10	device deleted/disabled?	Yes	Note 34	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	Note 21			
	Can unauthorized software or hardware be installed					
SAHD-12	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?					
JAIID-13	Can the device be hardened beyond the default	NO				
SAHD-14	provided state?	No	_			
SAHD-14.1	Are instructions available from vendor for increased	N/A				
SAHU-14.1	hardening? Can the system prevent access to BIOS or other	N/A	_			
SHAD-15	bootloaders during boot?	Yes	Note22			
	Have additional hardening methods not included in					
SAHD-16	2.3.19 been used to harden the device?	No	_			
	SECURITY GUIDANCE (SGUD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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	Note 23	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					
SGUD-2	instructions, for the permanent deletion of data from the device or media?	Yes	Note 31	Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7
3000-2	the device of media:	163	NOTE ST	Section 5.10, 500 <i>b</i>	1411 -0	A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-3	Are all access accounts documented?	N/A	_	Section 5.16, SGUD	AC-6,IA-2	A.9.4.5/A.9.2.1
CCUD 2.4	Can the owner/operator manage password control	No				
SGUD-3.1	for all accounts?  Does the product include documentation on	NO	_			
SGUD-4	recommended compensating controls for the device?	? Yes	Note 29			
	HEALTH DATA STORAGE CONFIDENTIALITY					
	(STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to ensure unauthorized					
	access does not compromise the integrity and					
	confidentiality of personally identifiable information stored on the device or removable media.					
STCF-1	Can the device encrypt data at rest?	No	_	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1	Is all data encrypted or otherwise protected?	N/A	_			
CTCF 1.2	Is the data encryption capability configured by default?	N/A				
STCF-1.2	Are instructions available to the customer to	N/A	_			
STCF-1.3	configure encryption?	N/A	_			
STCF-2	Can the encryption keys be changed or configured?	N/A	_	Section 5.17, STCF	SC-28	A.8.2.3
STCF-3	Is the data stored in a database located on the device?	No				
3101-3	Is the data stored in a database external to the	10	-			
STCF-4	device?	N/A	_			
	TRANSMISSION CONFIDENTIALITY (TXCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
				120 111 00001-2-2.2012	.1131 31 303-33 Nev. 4	130 27002.2013

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	The ability of the device to ensure the confidentiality of transmitted personally identifiable information.						
	Can personally identifiable information be						
TXCF-1	transmitted only via a point-to-point dedicated cable? Is personally identifiable information encrypted prior	No	_		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-2	to transmission via a network or removable media?	No	_		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? Is personally identifiable information transmission	N/A	_				
TXCF-3		No	_		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4		No	_		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	No					
TACI 5	sapported, implemented (oreotti, 1127, 1222 11075).	.ic	_				
	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						
T110.4	signatures) intended to ensure data is not modified	No			Seekles F 40 TWS		A.8.2.3, A.13.1.1, A.13.2.1,
TXIG-1	during transmission?  Does the device include multiple sub-components	No	_		Section 5.19, TXIG	SC-8	A.13.2.3, A.14.1.2, A.14.1.3
TXIG-2		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				120 11 00001 2 2:2012	14131 31 000 33 NCV. 4	150 27002.2015
	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		Yes	Note 24			AC-17	A.0.2.1, A.0.2.2, A.13.1.1, A.13.2.1, A.14.1.2
	Does the device allow the owner/operator to						
RMOT-1.1	initiative remote service sessions for device analysis or repair?	No					
	Is there an indicator for an enabled and active	NO	_				
RMOT-1.2		No	_				
	Can patient data be accessed or viewed from the	V				40.47	A.6.2.1, A.6.2.2, A.13.1.1,
RMOT-1.3	device during the remote session?  Does the device permit or use remote service	Yes	_			AC-17	A.13.2.1, A.14.1.2
RMOT-2	connections for predictive maintenance data?	No	_				
RMOT-3	Does the device have any other remotely accessible	No					
KMIU1-3	functionality (e.g. software updates, remote	No	_				
	OTHER SECURITY CONSIDERATIONS (OTHR)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	NONE						
	Notes:						
	The XTR has no user interface. A Central Monitor is						
	used to assign a specific Aria Tele device to a specific						
Note 1	patient so that data collected is properly associated to the patient.						
Note 1	The XTR device logs all requests made by the						
	monitoring client software. Such request include						
Note 2	patient admit, patient discharge, modification of patient data, and patient transfer.						
Note 2 Note 3	The XTR maintains on-site support						
_	Audit, code and windows event logs can be						
Note 4	configured to make available. LogStash configuration						
Note 4	document 070-2946-00 contains the details. The audit logs can be downloaded via using Service						
Note 5	tool						
	Outstanding patches are incorporated in product						
	software updates. These updates are applied by Spacelabs approved Field Service Engineers for						
Note 6	customers with service contracts.						
Note 7	Windows 10 IoT Enterprise Version 1809						

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	Mile days And a death and formed has a set of	
Note 8	Windows AppLocker is configured to control executable files and scripts (whitelisting)	
	XTR uses Unified Write Filter and AppLocker as a	
	compensating controls instead of anti-malware	
Note 9	software Windows Event Viewer is used for analysis of event	
Note 10	logs.	
Note 12	RF controls is used for wireless connections There is a device firewall that closes all but essential	
	communication ports. Auto Launch has been disabled	
	for USB devices, and the USB ports are covered by a	
	plate. Network discovery and file/printer sharing is	
Note 13	disabled.	
	The system is intended to provide the SpaceLabs Healthcare monitoring system with adult, pediatric	
Note 14	and neonatal patient data	
NOCC II	The software development process is performed	
	according to IEC 62304. It is documented in 808-0120-	
	05 Software Development Plan 96280 Xhibit	
Note 15	Telemetry Receiver (XTR) 1.4.0, Rev A List of third-party components and configuration	
	management rules are defined in 808-0120-05	
	Software Development Plan 96280 Xhibit Telemetry	
Note 16	Receiver (XTR) 1.4.0, Rev A	
Note 47	Software components are defined and described in	
Note 17	806-0103-00 XTR Software Architecture, Rev D This is tracked in the software development plan	
Note 18	document.	
	The system only includes essential Windows	
	components that are required for operation. There is a device firewall that closes all but essential	
	communication ports. Auto Launch has been disabled	
	for USB devices, and the USB ports are covered by a	
	plate. Network discovery and file/printer sharing is	
Note 19	disabled.  We have administrator account only used during	
	system installation. Password is generated randomly	
Note 20	and does not kept anywhere	
	After using tools to gain access to the USB port,	
	product updates are performed by authorized service	
	staff. Service staff receive product updates from a trusted source and only use authenticated updates	
	they have received through official channels. The	
	device is configured to disable AutoPlay on all	
Note 21	inserted USB media.	
	BIOS password is used to prevent from booting alternative operating systems on removable devices	
	or prevent from installation another operating system	
Note 22	over current operating system	
	The information is provided in Service Manual	
	(96280) 070-2409-03 and Operator Manual (96280) 070-2114-06; Product Service Notice (96280); Security	
Note 23	Operations Guide 070-2926-00	
	Authorized Spacelabs service staff can use a remote	
Note 24	tool to configure elements of the product.	
	We have network diagrams of our PMC suite with XTR as part of those models. This is not published and	
Note 25	can be made available on request.	
	XTR is a closed appliance product, and any updates to	
Note 26	it are managed via Spacelabs product release process	
	For products using off-the-shelf Windows operating system like Windows Server 2016, patch testing is	
	performed monthly. For other products such as XTR,	
	reviews are part of the product update development	
Note 27	process.	
Note 39	The default admin account is documented in the	
Note 28	product Security Operations Guide 070-2926-00 Refer to the product Security Operations Guide 070-	
Note 29	2926-00	

Note 29

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	The device is configurable using the ET Service Tool, explained in the product Service Manual p/n 070-	
Note 30	2409-03	
<del></del>	The Service Manual p/n 070-2409-03 has instructions	
	on how to use the ET Service Tool that has a Reset	
	Receiver Menu and explanation on how to	
	permanently reset data. For Software reimaging the	
Note 31	instructions are included in the PSN.	
	XTRs ID are reflected in audit logs, so user's ID may be	
Note 32	defined using the information	
	Note 33 - Most of common services, not required by	
	XTR, are disabled using Windows Features. Other	
	services that are not needed were set to disabled but	
	some services were left as is as they are needed by	
	other Microsoft components and can impact system	
Note 33	health if they are disabled.	
	Other Windows features except Unbranded boot,	
	UWF and PowerShell 2.0 are disabled. Applications	
	such as calc.exe, notepad.exe, SnippingTools.exe are	
Note 34	added to AppLocker blocking rules.	