Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Spacelabs Healthcare 96102 091-0358-15 Rev A Nov-22

Manufacture frame Special principal princi	Question ID	Question		See note	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
Document	DOC-1	Manufacturer Name	Spacelabs Healthcare	_			
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Intended use of device in network-connected or verwinement: Decument Relaise Date Nev 22)			
DOC-1		Intended use of decise in network securetary					
DOC-17 Document Release Date Nov-22 We guidin hulletint for major valierabilities and travelite is they entire grant we success them. They introduced the manufacturer part of an information of the flow displaced to the device of this device. So of this device of this device. So of the device of the de	DOC-6		monitors and telemetry transmitters.				
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Coordinated Videnceability (Disclosure: Does the manufacturer part of an information program for this device? vidence of the program of the p				We publish bulletins for major vulnerabilities and			
### International Process of Control Sections							
DOC-9 Sha'ling and Analysis' Organization? No							
SAO: is the manufacturer part of an information Sharing and Analysis Organization? No	DOC 9						
Diagrams is a network or data flow diagram available in the districts connections to other system components or expected centeral resource? SAMD is the desical between 5 Mark 1 midicates consciousness or expected centeral resource? SAMD is the desical between 5 Mark 1 mid-tases consciousness or expected centeral resource? SAMD is the desical between 5 Mark 1 mid-tases constrain an operating system? Does the SAMD contain an operating system? N/A — — — — — — — — — — — — — — — — — — —	DOC-8	for this devicer	res	curity/security-advisories-and-archives/			
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Interface connection to other system Sable 1 is the case of respected external resources? Yes and can be made available on request.	DOC-9		No	_			
Interface connection to other system Sablo Is the device software as a Medical Device 45 connection to respected external resources 45 connection to respect 45 connection to							
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DOC-11.2 Docs the SAMD rely on an owner/operator provided operating system? NA				_			
Is the SaMD hosted by the manufacturer? N/A DOC-11.3 DOC-11.4 Is the SaMD hosted by the customer? N/A Yes, No, N/A, or See Note Note # MANAGEMENT OF PERSONALLY IDENTIFICABLE INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic PMPII-2) Does the device maintain personally identifiable information perserved in the devices store personally identifiable information perserved in the device store personally identifiable information perserved in the device store personally identifiable information personally identifiable information perserved in the device store personally identifiable information personally identifiable information perserved in the device store personally identifiable information perserved in the d							
DOC-11.4 Is the SaMD hosted by the customer? N/A	DOC-11.2	operating system?	N/A	_			
DOC-11.4 Is the SaMD hosted by the customer? Vestor		Is the SaMD hosted by the manufacturer?					
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the device's non-volatile memory until explicitly MPII-2.3 erased? Does the device store personally identifiable Yes	IVIF II-Z.Z		103				
MPII-2.3 erased? Does the device store personally identifiable Yes							
	MPII-2.3		Yes	_			
MPII-2.4 information in a database? No							
	MPII-2.4	information in a database?	No	_			

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	Does the device allow configuration to automatically		
A 4 D U 2 F	delete local personally identifiable information after	No	
MPII-2.5	it is stored to a long term solution?	No	_
	Does the device import/export personally identifiable		
	information with other systems (e.g., a wearable		
	monitoring device might export personally		
MPII-2.6	identifiable information to a server)?	Yes	
	Does the device maintain personally identifiable		-
	information when powered off, or during power		
MPII-2.7	service interruptions?	Yes	_
	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		
MPII-2.9	storage location)?	No	
	Does the device have mechanisms used for the		
	transmitting, importing/exporting of personally	.,	
MPII-3	identifiable information?	Yes	_
AADU 2.4	Does the device display personally identifiable	V	
MPII-3.1	information (e.g., video display, etc.)?	Yes	_
	Does the device generate hardcopy reports or images		
MPII-3.2	containing personally identifiable information?	Yes	
WII II 3.2	containing personally identifiable information:	res	_
	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,		
MPII-3.3	CF/SD card, memory stick, etc.)?	No	
	Does the device transmit/receive or import/export		
	personally identifiable information via dedicated		
	cable connection (e.g., RS-232, RS-423, USB,		
MPII-3.4	FireWire, etc.)?	No	_
	Does the device transmit/receive personally		
	identifiable information via a wired network		The Central Station interfaces to patient monitors
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	Yes	through Ethernet (LAN) network.
	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	=
	Does the device transmit/receive personally		The Central Station interfaces to patient monitors
	identifiable information over an external network	V	and XTR Telemetry Network through Ethernet (LAN)
MPII-3.7	(e.g., Internet)?	Yes	network.
MPII-3.8	Does the device import personally identifiable information via scanning a document?	No	
IVIFII-3.0	information via scanning a document:	NO	Transmission control Protocol/Internet Protocol is
			used as an underlying mechanism for moving
			packets of informaton between different machines
	Does the device transmit/receive personally		on a local or wide-area network utilizing Spacelabs
MPII-3.9	identifiable information via a proprietary protocol?	Yes	proprietary protocols.
	Does the device use any other mechanism to		
	transmit, import or export personally identifiable		
MPII-3.10	information?	No	_
Management of	Private Data notes:		

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AUTOMATIC LOGOFF (ALOF) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

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AR-2

A.15.1.4

Spacelabs Healthca	re 96102	2 091-0358-15 Rev A	No	ov-22		
.,	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	1				
	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-	No		Section 5.1, ALOF	AC-12	None
ALOF-2	logoff/screen lock user or administrator configurable?	No	_	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.					
AUDT-1	Can the medical device create additional audit logs or reports beyond standard operating system logs?	Yes	_	Section 5.2, AUDT	AU-1	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2
	D 1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The audit log reflects role of the user accounts of	on		
AUDT-1.1	Does the audit log record a USER ID? Does other personally identifiable information exist in the conflict of 12.	No	the system only (Clinical, Biomed, Service)	Continue E 2 AUDT	411.2	News
AUDI-1.2	in the audit trail? Are events recorded in an audit log? If yes, indicate	No		Section 5.2, AUDT	AU-2	None
AUDT-2	which of the following events are recorded in the audit log:	Yes	_	Section 5.2, AUDT	AU-2	None
AUDT-2.1 AUDT-2.2	Successful login/logout attempts? Unsuccessful login/logout attempts?	Yes	Only logging into privileged access menus is log	Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUDT-2.2 AUDT-2.3	Modification of user privileges?	Yes No	_	Section 5.2, AUDT	AU-2 AU-2	None
AUDT-2.4	Creation/modification/deletion of users?	No	_	Section 5.2, AUDT	AU-2	None
A001 2.4	Presentation of clinical or PII data (e.g. display,	110	_	Section 3.2, AOD	A0 2	None
AUDT-2.5	print)?	No		Section 5.2, AUDT	AU-2	None
AUDT-2.6	Creation/modification/deletion of data? Import/export of data from removable media (e.g.	Yes	Xhibit does not delete or modify data in audit lo	ogs Section 5.2, AUDT	AU-2	None
AUDT-2.7	USB drive, external hard drive, DVD)? Receipt/transmission of data or commands over a	No	_	Section 5.2, AUDT	AU-2	None
AUDT-2.8	network or point-to-point connection?	Yes	 System logs local on-site support. No remote	Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Remote or on-site support? Application Programming Interface (API) and similar	Yes	support is supported.	Section 5.2, AUDT	AU-2	None
AUDT-2.8.2	activity?	N/A	_	Section 5.2, AUDT	AU-2	None
AUDT-2.9	Emergency access?	No	_	Section 5.2, AUDT	AU-2	None
			Audit logs contain additional information about systen shutdown/restart events, software	t		
AUDT-2.10	Other events (e.g., software updates)?	Yes	shutdown/restart	Section 5.2, AUDT	AU-2	None
AUDT-2.11	Is the audit capability documented in more detail? Can the owner/operator define or select which	No		Section 5.2, AUDT	AU-2	None
AUDT-3	events are recorded in the audit log? Is a list of data attributes that are captured in the	No		Section 5.2, AUDT	AU-2	None
AUDT-4	audit log for an event available?	Yes		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	UTC format is used as reference time	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)

profile to SIEM?

AUDT-5.2

Spacelabs Healthca						
	Via Other communications (e.g., external service					
AUDT-5.3	device, mobile applications)?	No				
7.001 3.3	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?	Yes	Audit logs can be viewed and printed from Setup.			
			Audit log files have property "read only" to protect			
AUDT-7	Are audit logs protected from modification?	Yes	the files from modification	Section 5.2, AUDT	AU-2	None
			Only Sevice engineers have access to the audit log	,		
AUDT-7.1	Are audit logs protected from access?	Yes	files			
AUDT-8	Can audit logs be analyzed by the device?	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.					
	Does the device prevent access to unauthorized		The Central Station has Privileged Access Menu.			
	users through user login requirements or other		There are passwords for different levels of access.			
AUTH-1	mechanism?	Yes	Restrictions apply to the specific functionality only	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		Section 5.3, AUTH	IA-2	A.9.2.1
	, ,,		Xhibit Central Station requires the setup of an			
	Are any special groups, organizational units, or group		organizational structure with facilities, units, and			
AUTH-1.3	policies required?	Yes	beds.	Section 5.3, AUTH	IA-2	A.9.2.1
	Can users be assigned different privilege levels based	<mark>l</mark>				
	on 'role' (e.g., user, administrator, and/or service,		There are different roles for the accounts on the			
AUTH-2	etc.)?	Yes	system (Clinical, Biomed, Service)	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?	No		Section 5.3, AUTH	IA-2	A.9.2.1
	Does the device run in a restricted access mode, or					
AUTH-5	'kiosk mode', by default?	Yes				
	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					
CSUP-1	questions in this section.	Yes	_			
	Does the device contain an Operating System? If yes,		Windows 10 IoT Enterprise Version 1809			
CSUP-2	complete 2.1-2.4.	Yes				
	Does the device documentation provide instructions		Only qualified Spacelabs Healthcare field			
	for owner/operator installation of patches or		technicians can perform Xhibit Central Station			
CSUP-2.1	software updates?	No	software installations/updates			
CCLID 2.2	Does the device require vendor or vendor-authorized					
CSUP-2.2	service to install patches or software updates?	Yes	_			
	Does the device have the capability to receive					
CSUP-2.3	remote installation of patches or software updates?	No	_			

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	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	
0501 2.1	Does the device contain Drivers and Firmware? If yes,		_
CSUP-3	complete 3.1-3.4.	Yes	
CSUP-3	·	res	_
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-3.1	software updates?	No	_
	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?	No	
C3UP-3.3	· · · · · · · · · · · · · · · · · · ·	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-3.4	manufacturer?	No	_
	Does the device contain Anti-Malware Software? If		
CSUP-4	yes, complete 4.1-4.4.	N/A	
	Does the device documentation provide instructions		_
	for owner/operator installation of patches or		
CCUD 4.4		N1/A	
CSUP-4.1	software updates?	N/A	_
	Does the device require vendor or vendor-authorized		
CSUP-4.2	service to install patches or software updates?	N/A	_
	Does the device have the capability to receive		
CSUP-4.3	remote installation of patches or software updates?	N/A	
0501 1.5	Does the medical device manufacturer allow security	.4	_
	•		
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-4.4	manufacturer?	N/A	_
	Does the device contain Non-Operating System		
	commercial off-the-shelf components? If yes,		
CSUP-5	complete 5.1-5.4.	Yes	
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-5.1	software updates?	No	
C301 3.1	sortware apaates:	110	_
	Dana the device require was day as wonder a wheeling		
	Does the device require vendor or vendor-authorized		
CSUP-5.2	service to install patches or software updates?	Yes	_
	Does the device have the capability to receive		
CSUP-5.3	remote 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	
C3UF-3.4	manufacturer :	NO	_
	Does the device contain other software components		
	(e.g., asset management software, license		Licence management is used in the product. The
	management)? If yes, please provide details or		software component is described in Service manual
CSUP-6	reference in notes and complete 6.1-6.4.	Yes	070-2402-07
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-6.1	software updates?	No	
5501 0.1	sortmane aparates:		_
	Door the device require vender or vender authorized		
CSUD C 3	Does the device require vendor or vendor-authorized	Vee	
CSUP-6.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	_
CSUP-6.2	service to install patches or software updates?	Yes	_
	service to install patches or software updates? Does the device have the capability to receive		_
CSUP-6.2 CSUP-6.3	service to install patches or software updates?	Yes	_

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CSUP-6.4 CSUP-7 CSUP-8 CSUP-9 CSUP-10	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? Does the manufacturer notify the customer when updates are approved for installation? Does the device perform automatic installation of software updates? Does the manufacturer have an approved list of third party software that can be installed on the device? Can the owner/operator install manufacturer-approved third-party software on the device themselves? Does the system have mechanism in place to prevent installation of unapproved software?	No No	— — — — — — — — — — — — — — — — — — —			
	Does the manufacturer have a process in place to					
CSUP-11	assess device vulnerabilities and updates?	Yes	=			
CSUP-11.1	Does the manufacturer provide customers with review and approval status of updates?	No	For Xhibit Central Station Patch Testing and Reporting are the part of the product update development process. Any necessary updates are included in the next product release. For Xhibit Central Station Patch Testing and Reporting are the part of the product update development process. Any necessary updates are			
CSUP-11.2	Is there an update review cycle for the device?	Yes	included in the next product release.			
DIDT-1	HEALTH DATA DE-IDENTIFICATION (DIDT) The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to deidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for de-	No	_	IEC TR 80001-2-2:2012 Section 5.6, DIDT	NIST SP 800-53 Rev. 4	ISO 27002:2013
DIDT-1 DIDT-1.1	The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to deidentify personally identifiable information? Does the device support de-identification profiles	No N/A				
	The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to deidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for de-		Xhibit is not used for storage of PII.	Section 5.6, DIDT	None	ISO 27038
	The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to deidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for deidentification? DATA BACKUP AND DISASTER RECOVERY (DTBK) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)? Does the device have a "factory reset" function to		— Xhibit is not used for storage of PII. ICS is used as a longterm primary storage of PHI.	Section 5.6, DIDT Section 5.6, DIDT	None None	ISO 27038
DIDT-1,1	The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to deidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for deidentification? DATA BACKUP AND DISASTER RECOVERY (DTBK) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?	N/A		Section 5.6, DIDT Section 5.6, DIDT	None None	ISO 27038
DIDT-1.1 DTBK-1	The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to decidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for decidentification? DATA BACKUP AND DISASTER RECOVERY (DTBK) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)? Does the device have a "factory reset" function to restore the original device settings as provided by the manufacturer? Does the device have an integral data backup capability to removable media?	N/A		Section 5.6, DIDT Section 5.6, DIDT IEC TR 80001-2-2:2012	None None NIST SP 800-53 Rev. 4	ISO 27038 ISO 27038 ISO 27002:2013
DIDT-1.1 DTBK-1 DTBK-2	The ability of the device to directly remove information that allows identification of a person. Does the device provide an integral capability to deidentify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for deidentification? DATA BACKUP AND DISASTER RECOVERY (DTBK) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)? Does the device have a "factory reset" function to restore the original device settings as provided by the manufacturer? Does the device have an integral data backup	N/A No No	ICS is used as a longterm primary storage of PHI. — Audit, code logs may be copied to USB flash	Section 5.6, DIDT Section 5.6, DIDT IEC TR 80001-2-2:2012 Section 5.7, DTBK	None None NIST SP 800-53 Rev. 4	ISO 27038 ISO 27002:2013

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DTBK-6	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.					
EMRG-1	Does the device incorporate an emergency access (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.					
IGAU-1	Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)? Does the device provide error/failure protection and	No d		Section 5.9, IGAU	SC-28	A.18.1.3
IGAU-2	recovery mechanisms for stored health data (e.g., RAID-5)?	No		Section 5.9, IGAU	SC-28	A.18.1.3
	MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detected and remove malicious software (malware).	t		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
MLDP-1	Is the device capable of hosting executable software	?? Yes	_	Section 5.10, MLDP		
MLDP-2	Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes.	No		Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-2.1	Does the device include anti-malware software by default?	No	_	Section 5.10, MLDP	CM-5	A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1
MLDP-2.2	Does the device have anti-malware software available as an option? Does the device documentation allow the	No	_	Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
MLDP-2.3	owner/operator to install or update anti-malware software? Can the device owner/operator independently (re-	No		Section 5.10, MLDP	CP-10	A.17.1.2
MLDP-2.4 MLDP-2.5)configure anti-malware settings? Does notification of malware detection occur in the device user interface?	No No	The whitelisting protects system from execution of malware.	Section 5.10, MLDP	AU-2	None
MLDP-2.6	Can only manufacturer-authorized persons repair systems when malware has been detected?	Yes	The whitelisting protects system from execution of			
MLDP-2.7	Are malware notifications written to a log?	No	malware.			
MLDP-2.8	Are there any restrictions on anti-malware (e.g., purchase, installation, configuration, scheduling)?	No				

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The Xhibit Central Station uses Unified Write Filter and Software Restriction Policies via AppLocker (whitelisting) as a compensating controls instead of	A.14.2.2, A.14.2.3,
	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 control executable files and scripts (whitelisting) Section 5.10, MLDP SI-3 A.12 The Xhibit Central Station uses Unified Write Filter	A.12.2.1
and Software Restriction Policies (whitelisting) as a compensating controls instead of Advanced Threat	None
Can the host-based intrusion detection/prevention System be configured by the customer? No Section 5.10, MLDP CM-7 A.13	A.12.5.1
Can a host-based intrusion detection/prevention MLDP-5.2 system be installed by the customer? No Section 5.10, MLDP	
NODE AUTHENTICATION (NAUT) The ability of the device to authenticate communication partners/nodes. IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 270	27002:2013
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)? No Section 5.11, NAUT SC-23 No	None
	.1.1, A.13.1.3, 3.2.1,A.14.1.3
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.	27002:2013
Does the device have hardware connectivity CONN-1 capabilities? Yes USB and printers connections are allowed CONN-1.1 Does the device support wireless connections? No CONN-1.1.1 Does the device support Wi-Fi? 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	
Does the device support other wireless connections CONN-1.1.4 (e.g., custom RF controls, wireless detectors)? CONN-1.2 Does the device support physical connections? No Yes	
CONN-1.2.1 Does the device have available R.45 Ethernet ports? Yes USB ports are used for monitors (96102 only, up to four for touchscreen control), keyboard, mouse, printer services activities.	

printer, service activities

CONN-1.2.2

Does the device have available USB ports?

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CONN-1.2.3	Does the device require, use, or support removable memory devices?	Yes	USB drives are used for service activities
CONN-1.2.4	Does the device support other physical connectivity? Does the manufacturer provide a list of network ports and protocols that are used or may be used on	Yes	Display and audio outputs
CONN-2	the device? Can the device communicate with other systems	No	
CONN-3	within the customer environment? Can the device communicate with other systems	Yes	
CONN-4	external to the customer environment (e.g., a service host)?	No	
CONN-5	Does the device make or receive API calls? Does the device require an internet connection for its	Yes	
CONN-6	intended use? Does the device support Transport Layer Security	No	
CONN-7	(TLS)?	No	
CONN-7.1	Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g.,	N/A	
CONN-8	telemedicine)?	No	

	PERSON AUTHENTICATION (PAUT) 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		There is Clinical User Level, Biomed Level, Field
PAUT-1	accounts)? Does the device enforce authentication of unique IDs	Yes	Service Engineer
	and passwords for all users and roles (including		There is Clinical User Level, Biomed Level, Field
PAUT-1.1	service accounts)?	Yes	Service Engineer
	Is the device configurable to authenticate users		
	through an external authentication service (e.g., MS		
PAUT-2	Active Directory, NDS, LDAP, OAuth, etc.)?	No	
	Is the device configurable to lock out a user after a		
PAUT-3	certain number of unsuccessful logon attempts?	No	
	Are all default accounts (e.g., technician service accounts, administrator accounts) listed in the		
PAUT-4	documentation?	Yes	Service manual 070-2402-07
PAUT-5	Can all passwords be changed?	Yes	
	Is the device configurable to enforce creation of user account passwords that meet established		
PAUT-6	(organization specific) complexity rules?	No	
	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	
PAUT-10	Can user accounts be disabled/locked on the device?	No	
PAUT-11	Does the device support biometric controls?	No	
	Does the device support physical tokens (e.g. badge		
PAUT-12	access)?	No	_
			There is Clinical User Level, Biomed Level, Fiels
	Does the device support group authentication (e.g.		Service Engineer. See product requirements -
PAUT-13	hospital teams)?	Yes	PRD324, PRD201, PRD202, PRD203
PAUT-14	Does the application or device store or manage authentication credentials?	Yes	
			Adavnced Encryption Standard (AES-256) is used to
PAUT-14.1	Are credentials stored using a secure method?	Yes	store credentials.

IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
Section 5.12, PAUT	IA-2	A.9.2.1
Section 5.12, PAUT	IA-2	A.9.2.1
Section 5.12, PAUT	IA-5	A.9.2.1
Section 5.12, PAUT	IA-2	A.9.2.1
Section 5.12, PAUT Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9, A.15.1.2
Section 5.12, PAUT	IA-2	A.9.2.1
Section 5.12, PAUT	IA-2	A.9.2.1
Section 5.12, PAUT Section 5.12, PAUT	IA-2 IA-2	A.9.2.1 A.9.2.1

	PHYSICAL LOCKS (PLOK) Physical locks can prevent unauthorized users with			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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. Are all device components maintaining personally	No	-	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-2	identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)? Are all device components maintaining personally identifiable information (other than removable	t Yes	Xhibits has lock loop on the cases for hardware loop locks like Kensington locks to be installed.	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-3	media) physically secured behind an individually keyed locking device? Does the device have an option for the customer to	No		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-4	attach a physical lock to restrict access to removable media?	No	Xhibits has lock loop on the cases for hardware loop locks like Kensington locks to be installed.	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.					
RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?		The software development process is performed according to IEC 62304.	Section 5.14, RDMP	CM-2	None
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices? Does the manufacturer maintain a web page or other		_	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-3	source of information on software support dates and updates? Does the manufacturer have a plan for managing	No	 The list of third-party software is defined in the	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-4	third-party component end-of-life?	Yes	software development plan.	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
	SOFTWARE BILL OF MATERIALS (SBOM) 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.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-1	Is the SBoM for this product available? Does the SBoM follow a standard or common	Yes	Healthcare's Quality Management System			
SBOM-2 SBOM-2.1	method in describing software components? Are the software components identified? Are the dayslopers (manufacturers of the software)	Yes Yes	_			
SBOM-2.2	Are the developers/manufacturers of the software components identified? Are the major version numbers of the software	Yes	_			
SBOM-2.3	components identified?	Yes	_			
SBOM-2.4	Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software	No	_			
SBOM-3	components installed on the device?	No				

SBOM-4	Is there an update process for the SBoM?	Yes	This is tracked via software development plan.			
	SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	malware.				CM-7	A.12.5.1*
SAHD-1	Is the device hardened in accordance with any industry standards?	No	The system only includes essential Windows components that are required for operation. There is a device firewall that closes all but essential	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
CAUD 2	Has the device received any cybersecurity certifications?	No		Section F 1F SAUD	CA 13/10\	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
SAHD-2 SAHD-3	Does the device employ any mechanisms for software integrity checking Does the device employ any mechanism (e.g., release	Yes	Xhibit uses the UWF and Software Restriction Policies (whitelisting). MDSsummer is used within software development process. It uses checksums to make sure that software builds are not changed as a result of any issues during file transfer or disk error. These checksums check files integrity and makes sure no changes were made to the files since first	Section 5.15, SAHD	SA-12(10)	A.15.1.3
	specific hash key, checksums, digital signature, etc.)					
SAHD-3.1	to ensure the installed software is manufacturer- authorized? Does the device employ any mechanism (e.g., release specific hash key, checksums, digital signature, etc.)					
SAHD-3.2	to ensure the software updates are the manufacture authorized updates?	r. No		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the	No	There is Clinical User Level, Biomed Level, Fiels	Section 5.15, SAHD	AC-3	A.6.2.2, A.9.1.2, A.9.4.1, A.9.4.4, A.9.4.5, A.13.1.1, A.14.1.2, A.14.1.3, A.18.1.3
SAHD-5	implementation of file-level, patient level, or other types of access controls?	Yes	Service Engineer. Requirements PRD324, PRD201, PRD202, PRD203 cover this.	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-5.1	Does the device provide role-based access controls?	Yes	_	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery? Are any system or user accounts configurable by the	No	After initial configuration password may be changed	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
SAHD-6.1	end user after initial configuration? Does this include restricting certain system or user	Yes	only	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.2	accounts, such as service technicians, to least privileged access? Are all shared resources (e.g., file shares) which are not required for the intended use of the device	No	-	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-7	disabled?	Yes		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-8	Are all communication ports and protocols that are not required for the intended use of the device disabled? Are all services (e.g., teniet, the transfer protocol [FTP], internet information server [IIS], etc.), which	Yes	ICMPv4 is enabled to enable ping, UDP port 123 is enabled, TCP and UDP port 515 inbound are blocked	Section 5.15, SAHD	SA-18	None
SAHD-9	are not required for the intended use of the device deleted/disabled? Are all applications (COTS applications as well as OS- included applications, e.g., MS Internet Explorer, etc.		Product design specification 806-0142-00 contains a list of blocked services	Section 5.15, SAHD	CM-6	None
SAHD-10	which are not required for the intended use of the device deleted/disabled?	Yes	Product design specification 806-0142-00 contains a list of disabled applications	Section 5.15, SAHD	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
SAHD-11	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Yes	Use of bootable media is used to perform product updates and requires access to a password that is only accessible by certified Spacelabs Service Staff.			

	TRANSMISSION CONFIDENTIALITY (TXCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
STCF-4	Is the data stored in a database external to the device?	N/A				
STCF-3	Is the data stored in a database located on the device?	No				
STCF-2	,, , ,	No		Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.3	Are instructions available to the customer to configure encryption?	No				
STCF-1.2	Is the data encryption capability configured by default?	No				
STCF-1 STCF-1.1	Can the device encrypt data at rest? Is all data encrypted or otherwise protected?	No No		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.					
	HEALTH DATA STORAGE CONFIDENTIALITY (STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SGUD-4	Does the product include documentation on recommended compensating controls for the device?	Yes	Security Operations Guide for the Xhibit Central Station, 070-2925-00.			
SGUD-3.1	Can the owner/operator manage password control for all accounts?	No	_	5000011 5.124, 5005	7.C 0,0 2	, , ,
SGUD-2 SGUD-3	the device or media? Are all access accounts documented?	No Yes		Section 5.16, SGUD Section 5.16, SGUD	MP-6 AC-6,IA-2	A.11.2.7 A.9.4.5/A.9.2.1
SGUD-1	Does the device include security documentation for the owner/operator? Does the device have the capability, and provide instructions, for the permanent deletion of data from	Yes	Any potential additional configurations or changes customers can make can be found in the Security Operations Guide for the Xhibit Central Station, 070-2925-00.	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1 A.8.2.3, A.8.3.1, A.8.3.2,
	SECURITY GUIDANCE (SGUD) Availability of security guidance for operator and administrator of the device and manufacturer sales and service.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	_			
SHAD-15	Can the system prevent access to BIOS or other bootloaders during boot?	No				
SAHD-14.1	Are instructions available from vendor for increased hardening?	Yes	Any potential additional configurations or changes customers can make can be found in the Security Operations Guide for the Xhibit Central Station, 070-2925-00.			
SAHD-13 SAHD-14	Can the device be hardened beyond the default provided state?	No	recomendations for the network security scanning.			
	Does the product documentation include information on operational network security scanning by users?		Spacelabs Healthcare does not provide			
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	Yes	While it is possible to move data to the device the whitelist application will prevent execution of the code. Does not support password for BIOS (system can be booted from USB).			

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	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
TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media? If data is not encrypted by default, can the customer configure encryption options?	No		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	No		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4	Are connections limited to authenticated systems?	No		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	No				
	TRANSMISSION INTEGRITY (TXIG) The ability of the device to ensure the integrity of transmitted data.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
TXIG-1	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission? Does the device include multiple sub-components	No		Section 5.19, TXIG	SC-8	A.8.2.3, A.13.1.1, A.13.2.1, A.13.2.3, A.14.1.2, A.14.1.3
TXIG-2	connected by external cables?	Yes				
	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 persor via network or other remote connection.					
RMOT-1	Does the device permit remote service connections for device analysis or repair? Does the device allow the owner/operator to initiative remote service sessions for device analysis	No	Remote connection to Xhibit is not supported.		AC-17	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2
RMOT-1.1	or repair? Is there an indicator for an enabled and active	No	Remote connection to Xhibit is not supported.			
RMOT-1.2	remote session? Can patient data be accessed or viewed from the	No	Remote connection to Xhibit is not supported. Xhibit can view data from the bedside device and telemtry channel. No remote access is allowed to			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	No	Xhibit.		AC-17	A.13.2.1, A.14.1.2
RMOT-2	connections for predictive maintenance data? Does the device have any other remotely accessible functionality (e.g. software updates, remote	No	Remote connection to Xhibit is not supported.			
RMOT-3	training)?	No	Remote connection to Xhibit is not supported.			
	OTHER SECURITY CONSIDERATIONS (OTHR)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Notes:					
Note 1	Example note. Please keep individual notes to one cell. Please use separate notes for separate information					