Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Spacelabs Healthcare 91496 091-0323-04, Rev A June/22

Question ID	Question		See note	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DOC-1	Manufacturer Name	Spacelabs Healthcare	_			
DOC-2	Device Description	Command Module version 2.10.0	_			
DOC-3	Device Model	91496	_			
DOC-4	Document ID	091-0323-04, Rev A				
		Spacelabs Healthcare, 35301 S.E.				
		Center Street, Snoqualmie, WA				
DOC-5	Manufacturer Contact Information	98065	_			
		The Spacelabs Healthcare Command				
		Module (91496) can acquire various				
		physiologic data in a clinical setting.				
		The 91496 module, a lightweight,				
		slim modular unit, is intended for				
	Intended use of device in network-connected	use with a Spacelabs Healthcare				
DOC-6	environment:	monitoring system.	-			
DOC-7	Document Release Date	Jun-22				
			We publish bulletins for major vulnerabilities and			
			threats as they emerge and we assess them. They			
	Coordinated Vulnerability Disclosure: Does the		are found on our website			
	manufacturer have a vulnerability disclosure program		https://www.spacelabshealthcare.com/products/se			
DOC-8	for this device?	Yes	curity/security-advisories-and-archives/			
	ISAO: Is the manufacturer part of an Information	LL.				
DOC-9	Sharing and Analysis Organization?	No	_			
	Diagram, la a naturarli ar data flavo diagram available		Command Madula 01406 is a product that			
	Diagram: Is a network or data flow diagram available		Command Module 91496 is a product that			
DOC-10	that indicates connections to other system	Ne	interfaces directly with Spacelabs monitors Qube,			
DOC-10	components or expected external resources? SaMD: Is the device Software as a Medical Device	No	Qube Mini and Xprezzon.			
DOC-11	(i.e. software-only, no hardware)?	No				
DOC-11 DOC-11.1	Does the SaMD contain an operating system?	N/A	_			
DOC-11.1	Does the SaMD rely on an owner/operator provided	N/A	_			
	operating system?					
DOC-11.2		N/A	-			
	Is the SaMD hosted by the manufacturer?					
DOC-11.3		N/A				
DOC-11.4	Is the SaMD hosted by the customer?	N/A	_			
		Yes, No,				
		N/A, or				
	AAANA CEMENT OF DEDCOMALLY IDENTIFIADIE	See Note	Note #			
	MANAGEMENT OF PERSONALLY IDENTIFIABLE			IEC TD 00004 2 2:2042	NICT CD 000 F3 D 4	100 27002-2012
	INFORMATION			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
			DIN. : 11 04405			
			ePHI is in the 91496 as part of a 12-lead report,			
			specifically the patient name, ID, and age (which			
			may be over 89). The 12-lead report complete with			
	Conthin desire display to a serie at a serie diff.		PHI is not available when the 91496 is inserted into			
	Can this device display, transmit, store, or modify		a Spacelabs monitor and is only available after the			
MPII-1	personally identifiable information (e.g. electronic	Vos	report is sent to the Spacelabs ICS product and the		AR-2	A.15.1.4
IAILII-T	Protected Health Information (ePHI))?	Yes	ICS product is used to access the report.		AR-Z	A.15.1.4
			The 91496 can temporarily maintain PHI as a stand- alone device for a time period of ten minutes, after			
			which the PHI is erased. This PHI is only available			
	Does the device maintain personally identifiable		when the 91496 is inserted into a Spacelabs			
MPII-2	information?	Yes	monitor.		AR-2	A.15.1.4

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	Does the device maintain personally identifiable		The 91496 can temporarily maintain PHI as a stand- alone device for a time period of ten minutes, after which the PHI is erased. This PHI is only available
MPII-2.1	information temporarily in volatile memory (i.e., until cleared by power-off or reset)?	Yes	when the 91496 is inserted into a Spacelabs monitor.
	Does the device store personally identifiable		
MPII-2.2	information persistently on internal media?	No	_
MPII-2.3	Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased?		
IVIFII-2.5	Does the device store personally identifiable	NO	_
MPII-2.4	information in a database?	No	_
	Does the device allow configuration to automatically		
MPII-2.5	delete local personally identifiable information after it is stored to a long term solution?	N/A	
IVIPII-2.5	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)?	N/A	_
	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)?	N/A	_
	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)?	N/A	
2.3	Does the device have mechanisms used for the	.,,	
	transmitting, importing/exporting of personally		
MPII-3	identifiable information?	N/A	_
	Does the device display personally identifiable		
MPII-3.1	information (e.g., video display, etc.)?	N/A	_
	Does the device generate hardcopy reports or images		
MPII-3.2	containing personally identifiable information?	N/A	_
	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.)?	N/A	_
	Does the device transmit/receive or import/export		
	personally identifiable information via dedicated		
MADU 2 4	cable connection (e.g., RS-232, RS-423, USB, FireWire,	N1/A	
MPII-3.4	etc.)? Does the device transmit/receive personally	N/A	_
	identifiable information via a wired network		
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	N/A	
1411 11 3.3	Does the device transmit/receive personally	14/4	_
	identifiable information via a wireless network		
	connection (e.g., WiFi, Bluetooth, NFC, infrared,		
MPII-3.6	cellular, etc.)?	N/A	
	Does the device transmit/receive personally		
	identifiable information over an external network		
MPII-3.7	(e.g., Internet)?	N/A	_
	Does the device import personally identifiable		
MPII-3.8	information via scanning a document?	N/A	

AR-2

A.15.1.4

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MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol? Does the device use any other mechanism to	N/A					
MPII-3.10	transmit, import or export personally identifiable information?	N/A	_			AR-2	A.15.1.4
Management of Pr	ivate Data notes:					AR-2	A.15.1.4
	AUTOMATIC LOGOFF (ALOF) The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password	n					
ALOF-1	protected screen saver)? Is the length of inactivity time before autologoff/screen lock user or administrator	N/A			Section 5.1, ALOF	AC-12	None
ALOF-2	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.						A F 1 1 A F 1 2 A 6 1 1
AUDT-1	Can the medical device create additional audit logs o reports beyond standard operating system logs?	N/A	There is no audit logging in the 91496.		Section 5.2, AUDT	AU-1	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2
AUDT-1.1	Does the audit log record a USER ID? Does other personally identifiable information exist	N/A	_				
AUDT-1.2	in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the	N/A			Section 5.2, AUDT	AU-2	None
AUDT-2	audit log:	N/A	<u> </u>		Section 5.2, AUDT	AU-2	None
AUDT-2.1	Successful login/logout attempts?	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-2.2	Unsuccessful login/logout attempts?	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-2.3 AUDT-2.4	Modification of user privileges? Creation/modification/deletion of users?	N/A N/A	_		Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUD1-2.4	Presentation of clinical or PII data (e.g. display,	N/A	-		Section 3.2, AOD	A0-2	None
AUDT-2.5	print)?	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-2.6	Creation/modification/deletion of data? Import/export of data from removable media (e.g.	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-2.7	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?	N/A			Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Remote or on-site support?	N/A	-		Section 5.2, AUDT	AU-2	None
	Application Programming Interface (API) and similar						
AUDT-2.8.2	activity?	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-2.9	Emergency access?	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-2.10	Other events (e.g., software updates)?	N/A	_		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	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-3	events are recorded in the audit log?	N/A			Section 5.2, AUDT	AU-2	None
ALIDT 4	Is a list of data attributes that are captured in the	N/A			Section F.2. AUDT	A11.2	None
AUDT-4 AUDT-4.1	audit log for an event available? Does the audit log record date/time?	N/A N/A	_		Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUD1-4.1	Can date and time be synchronized by Network Time	•	_		Section 3.2, AOD I	AU-Z	Notic
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	N/A			Section 5.2, AUDT	AU-2	None
AUDT-5	Can audit log content be exported?	N/A	_		Section 5.2, AUDT	AU-2	None
AUDT-5.1	Via physical media?	N/A	_				
AUDT F 2	Via IHE Audit Trail and Node Authentication (ATNA)	N/A					
AUDT-5.2	profile to SIEM?	N/A	_				

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AUDT-5.3	Via Other communications (e.g., external service device, mobile applications)?	N/A	_				
	Are audit logs encrypted in transit or on storage media?	N/A	_				
	Can audit logs be monitored/reviewed by						
	owner/operator? Are audit logs protected from modification?	N/A N/A	_		Section 5.2, AUDT	AU-2	None
	Are audit logs protected from access?	N/A	_		5661611312,71631	7.6 2	740.10
AUDT-8	Can audit logs be analyzed by the device?	N/A	_		Section 5.2, AUDT	AU-2	None
	AUTHORIZATION (AUTH) The ability of the device to determine the authorization of users.				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other mechanism? Can the device be configured to use federated	No	The 91496 does not have a user interface and operates without user accounts.		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.1	credentials management of users for authorization (e.g., LDAP, OAuth)?	N/A	_		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.2	Can the customer push group policies to the device (e.g., Active Directory)?	N/A	_		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.3	Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based	N/A	_		Section 5.3, AUTH	IA-2	A.9.2.1
	on 'role' (e.g., user, administrator, and/or service,						
	etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access	N/A	_		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-3	operating system or application via local root or administrator account)? Does the device authorize or control all API access	N/A	_		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-4	requests? Does the device run in a restricted access mode, or	N/A	-		Section 5.3, AUTH	IA-2	A.9.2.1
	'kiosk mode', by default?	N/A	_				
	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.				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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 "M/A" to questions						
	in this section.	Yes					
	Does the device contain an Operating System? If yes,						
	complete 2.1-2.4. Does the device documentation provide instructions	Yes	RTOS VxWorks 5.3				
	for owner/operator installation of patches or	No					
CSUP-2.1	software updates?	No	_				
	Does the device require vendor or vendor-authorized						
	service to install patches or software updates?	Yes	_				
	Does the device have the capability to receive 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
	Does the device contain Drivers and Firmware? If yes,	
CSUP-3	complete 3.1-3.4.	Yes
	Does the device documentation provide instructions	-
	for owner/operator installation of patches or	
CCLID 2.4	software updates?	No
CSUP-3.1	software updates?	<u></u>
	Does the device require vendor or vendor-authorized	
CSUP-3.2	service to install patches or software updates?	Yes <u> </u>
	Does the device have the capability to receive	
CSUP-3.3	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-3.4	manufacturer?	N/A
	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		NI/A
L3UP-4.1	software updates?	N/A <u> </u>
	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
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-4.4	manufacturer?	N/A
	Does the device contain Non-Operating System	-
	commercial off-the-shelf components? If yes,	
CSUP-5	complete 5.1-5.4.	No
	Does the device documentation provide instructions	_
	for owner/operator installation of patches or	
CSUP-5.1	software updates?	N/A
L3UP-5.1	software updates:	N/A
	Does the device require vendor or vendor-authorized	N/A
CSUP-5.2	service to install patches or software updates?	N/A <u> </u>
	Does the device have the capability to receive	
CSUP-5.3	remote installation of patches or software updates?	N/A
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-5.4	manufacturer?	N/A
	Does the device contain other software components	-
	(e.g., asset management software, license	
	management)? If yes, please provide details or	
CSUP-6	refernce in notes and complete 6.1-6.4.	No
230F-0	Does the device documentation provide instructions	
	•	
	for owner/operator installation of patches or	11/4
CSUP-6.1	software updates?	N/A
	Does the device require vendor or vendor-authorized	
CSUP-6.2	service to install patches or software updates?	N/A

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CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the		_			
CSUP-6.4	manufacturer?	N/A	Communications for product updates, such as Customer Service Notices or Product Update Bulletins, are distributed to Spacelabs customer			
CSUP-7	Does the manufacturer notify the customer when	Ver	service personnel to communicate these updates to			
	updates are approved for installation? Does the device perform automatic installation of	Yes	customers directly.			
CSUP-8	software updates?	No	_			
CSUP-9	Does the manufacturer have an approved list of third- party software that can be installed on the device? Can the owner/operator install manufacturer-	N/A	_			
CSUP-10	approved third-party software on the device themselves?	N/A				
CSUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?		_			
C30F-10.1	Does the manufacturer have a process in place to	19/1	_			
CSUP-11	assess device vulnerabilities and updates?	Yes	Communications for product updates, such as Customer Service Notices or Product Update Bulletins, are distributed to Spacelabs customer			
CCLID 44.4	Does the manufacturer provide customers with	V	service personnel to communicate these updates to			
CSUP-11.1 CSUP-11.2	review and approval status of updates? Is there an update review cycle for the device?	Yes Yes	customers directly.			
	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 de-			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DIDT-1	identify personally identifiable information? Does the device support de-identification profiles that comply with the DICOM standard for de-	N/A	-	Section 5.6, DIDT	None	ISO 27038
DIDT-1.1	identification?	N/A	_	Section 5.6, DIDT	None	ISO 27038
	DATA BACKUP AND DISASTER RECOVERY (DTBK) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Does the device maintain long term primary storage of personally identifiable information / patient					
DTBK-1	or personally toentifiable information / patient information (e.g. PACS)? Does the device have a "factory reset" function to restore the original device settings as provided by the	No	_			
DTBK-2	manufacturer?	Yes	_	Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-3	Does the device have an integral data backup capability to removable media?	No	_	Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-4	Does the device have an integral data backup capability to remote storage? Does the device have a backup capability for system configuration information, patch restoration, and	No				
DTBK-5	software restoration?	No				

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DTBK-6	Does the device provide the capability to check the integrity and authenticity of a backup?	N/A		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) How the device ensures that the stored data on the device has not been altered or destroyed in a non-			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	authorized manner and is from the originator. Does the device provide data integrity checking					
IGAU-1	mechanisms of stored health data (e.g., hash or digital signature)? Does the device provide error/failure protection and	N/A		Section 5.9, IGAU	SC-28	A.18.1.3
IGAU-2	recovery mechanisms for stored health data (e.g., RAID-5)?	N/A		Section 5.9, IGAU	SC-28	A.18.1.3
	MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware).			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
MLDP-1	Is the device capable of hosting executable software. Does the device support the use of anti-malware	? No		Section 5.10, MLDP		
MLDP-2	software (or other anti-malware mechanism)? Provide details or reference in notes.	N/A		Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-2.1	Does the device include anti-malware software by default?	N/A		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	N/A		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?	N/A		Section 5.10, MLDP	CP-10	A.17.1.2
MLDP-2.4	Can the device owner/operator independently (re-)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? Can only manufacturer-authorized persons repair	N/A				
MLDP-2.6	systems when malware has been detected?	N/A				
MLDP-2.7	Are malware notifications written to a log?	N/A				
MLDP-2.8	Are there any restrictions on anti-malware (e.g., purchase, installation, configuration, scheduling)? If the answer to MLDP-2 is NO, and anti-malware	N/A				
MLDP-3	cannot be installed on the device, are other compensating controls in place or available? Does the device employ application whitelisting that			Section 5.10, MLDP	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
MLDP-4	restricts the software and services that are permitted to be run on the device?	n/A		Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	N/A		Section 5.10, MLDP	SI-4	None

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MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer? Can a host-based intrusion detection/prevention	N/A	_		Section 5.10, MLDP	CM-7	A.12.5.1
MLDP-5.2	system be installed by the customer?	N/A	_		Section 5.10, MLDP		
	NODE AUTHENTICATION (NAUT) The ability of the device to authenticate communication partners/nodes. Does the device provide/support any means of node			,	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
NAUT 4	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)?	N/A			Section 5.11, NAUT	SC-23	None
NAUT-1	Are network access control mechanisms supported		-		Section 5.11, NAOT	3C-23	
NAUT-2	(E.g., does the device have an internal firewall, or use a network connection white list)? Is the firewall ruleset documented and available for	N/A	_		Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3, A.13.2.1,A.14.1.3
NAUT-2.1	review? Does the device use certificate-based network	N/A	_				
NAUT-3	connection authentication?	N/A	_				
	CONNECTIVITY CAPABILITIES (CONN) 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.			ı	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
CONN 4	Does the device have hardware connectivity	Vac					
CONN-1 CONN-1.1	capabilities? Does the device support wireless connections?	Yes N/A	_				
CONN-1.1.1 CONN-1.1.2	Does the device support Wi-Fi? Does the device support Bluetooth?	N/A N/A	_				
	Does the device support other wireless network		_				
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	N/A	_				
CONN-1.1.4	Does the device support other wireless connections (e.g., custom RF controls, wireless detectors)?	N/A					
CONN-1.1.4 CONN-1.2	Does the device support physical connections?	Yes					
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?		_				
CONN-1.2.2	Does the device have available USB ports? Does the device require, use, or support removable	N/A	_				
CONN-1.2.3	memory devices?	N/A	This device connects directly to a bedside monitor (Xprezzon, Qube, Qube Mini) via a specially designed port. It sends data about the patient parameters to the beside monitor. It does not				
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	communicate with any other devices.				
CONN-2	the device?	N/A	—				
CONN-3	Can the device communicate with other systems within the customer environment? Can the device communicate with other systems external to the customer environment (e.g., a service	No	This device only communicates with Spacelabs Patient Monitors through a specialized connector				
CONN-4 CONN-5	host)? Does the device make or receive API calls?	No No	_				
	Does the device make or receive API calls? Does the device require an internet connection for its intended use?		_				
CONN-6	intended use:	140	_				

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CONN-7 (TLS)? CONN-7.1 Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	No				
control telements.					
PERSON AUTHENTICATION (PAUT) The ability to configure the device to authenticate users.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
Does the device support and enforce unique IDs and passwords for all users and roles (including service accounts)? Does the device enforce authentication of unique IDs	N/A operates without	s not have a user interface and ut user accounts.	Section 5.12, PAUT	IA-2	A.9.2.1
and passwords for all users and roles (including PAUT-1.1 service accounts)? Is the device configurable to authenticate users	N/A		Section 5.12, PAUT	IA-2	A.9.2.1
through an external authentication service (e.g., MS PAUT-2 Active Directory, NDS, LDAP, OAuth, etc.)?	N/A		Section 5.12, PAUT	IA-5	A.9.2.1
Is the device configurable to lock out a user after a PAUT-3 certain number of unsuccessful logon attempts?	N/A		Section 5.12, PAUT	IA-2	A.9.2.1
Are all default accounts (e.g., technician service accounts, administrator accounts) listed in the PAUT-4 documentation?	N/A		Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9, A.15.1.2
PAUT-5 Can all passwords be changed? Is the device configurable to enforce creation of user	N/A		Section 5.12, PAUT		
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? PAUT-9 Does the device support single sign-on (SSO)?	N/A		Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-10 Can user accounts be disabled/locked on the device? PAUT-11 Does the device support biometric controls?	N/A N/A		Section 5.12, PAUT Section 5.12, PAUT	IA-2 IA-2	A.9.2.1 A.9.2.1
Does the device support physical tokens (e.g. badge PAUT-12 access)?	N/A				
Does the device support group authentication (e.g. PAUT-13 hospital teams)?	N/A				
Does the application or device store or manage authentication credentials?	N/A				
PAUT-14.1 Are credentials stored using a secure method?	N/A				
PHYSICAL LOCKS (PLOK) 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			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
Is the device software only? If yes, answer "N/A" to PLOK-1 remaining questions in this section. Are all device components maintaining personally identifiable information (other than removable	No		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
media) physically secure (i.e., cannot remove without tools)?	n/a		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3

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PLOK-3	Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually keyed locking device? Does the device have an option for the customer to	N/A	_	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?	N/A	_	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) Manufacturer's plans for security support of third-party components within the device's life cycle.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
RDMP-1 RDMP-2	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development? 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	Yes	Spacelabs follows IEC 62304 secure software development process for development of Spacelabs medical software and software within the Spacelabs medical devices.	Section 5.14, RDMP Section 5.14, RDMP	CM-2 CM-8	None A.8.1.1, A.8.1.2
RDMP-3	source of information on software support dates and updates?		_	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-4	Does the manufacturer have a plan for managing third-party component end-of-life?	Yes	_	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
SBOM-1 SBOM-2 SBOM-2.1 SBOM-2.2	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. Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components? Are the software components identified? Are the developers/manufacturers of the software components identified?	No N/A N/A	 	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
SBOM-2.3 SBOM-2.4	Are the major version numbers of the software components identified? Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software	N/A N/A				
SBOM-3 SBOM-4	components installed on the device? Is there an update process for the SBoM?	N/A N/A				
	SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and malware.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.12.5.1*
SAHD-1	Is the device hardened in accordance with any industry standards? Has the device received any cybersecurity	No	_	Section 5.15, SAHD	AC-17(2)/IA-3	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2/None A.14.2.7, A.15.1.1, A.15.1.2,
SAHD-2	certifications? Does the device employ any mechanisms for	Yes	_	Section 5.15, SAHD	SA-12(10)	A.15.1.3
SAHD-3	software integrity checking	Yes	_			

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	Does the device employ any mechanism (e.g., release specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-	e.				
SAHD-3.1	authorized? Does the device employ any mechanism (e.g., release specific hash key, checksums, digital signature, etc.)	Yes 				
	to ensure the software updates are the manufacturer					
SAHD-3.2	authorized updates? Can the owner/operator perform software integrity checks (i.e., verify that the system has not been	Yes		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2 A.6.2.2, A.9.1.2, A.9.4.1, A.9.4.4, A.9.4.5, A.13.1.1,
SAHD-4	modified or tampered with)? Is the system configurable to allow the	No <u>-</u>		Section 5.15, SAHD	AC-3	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?	N/A		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-5.1	Does the device provide role-based access controls?	N/A		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?	N/A		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
SAHD-6.1	Are any system or user accounts configurable by the end user after initial configuration? Does this include restricting certain system or user	N/A		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	N/A		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-7	not required for the intended use of the device 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?	Yes		Section 5.15, SAHD	SA-18	None
SAND-6	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which	<u></u>		Section 5.15, SAND	5A-16	None
SAHD-9	are not required for the intended use of the device deleted/disabled? Are all applications (COTS applications as well as OS-	Yes		Section 5.15, SAHD	CM-6	None
	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? Can the device prohibit boot from uncontrolled or	Yes		Section 5.15, SAHD	SI-2	A.16.1.3
SAHD-11	removable media (i.e., a source other than an internal drive or memory component)?	Yes				
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	No				
	Does the product documentation include information	_				
SAHD-13	on operational network security scanning by users?					
SAHD-14	Can the device be hardened beyond the default provided state? Are instructions available from vendor for increased	N/A				
SAHD-14.1	hardening? Can the system prevent access to BIOS or other	Yes				
SHAD-15	bootloaders during boot?	Yes				
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No				

SECURITY GUIDANCE (SGUD)

Availability of security guidance for operator and administrator of the device and manufacturer sales and service.

IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

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SGUD-1	Does the device include security documentation for the owner/operator? Does the device have the capability, and provide	Yes	At request, Spacelabs can provide manuals and service documentation such as Security Manuals.	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
SGUD-2	instructions, for the permanent deletion of data from the device or media?	N/A	_	Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7
SGUD-3	Are all access accounts documented? Can the owner/operator manage password control	N/A	_	Section 5.16, SGUD	AC-6,IA-2	A.9.1.2, A.9.2.3, A.9.4.4, A.9.4.5/A.9.2.1
SGUD-3.1	for all accounts?	N/A	_			
SGUD-4	Does the product include documentation on recommended compensating controls for the device	? N/A	_			
	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 STCF-1.1	Can the device encrypt data at rest? Is all data encrypted or otherwise protected?	No N/A	-	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.2	Is the data encryption capability configured by default?	N/A				
STCF-1.3	Are instructions available to the customer to configure encryption?	N/A				
STCF-2	Can the encryption keys be changed or configured? Is the data stored in a database located on the	N/A	_	Section 5.17, STCF	SC-28	A.8.2.3
STCF-3 STCF-4	device? Is the data stored in a database external to the device?	N/A	_			
SICF-4	device?	N/A	_			
	TRANSMISSION CONFIDENTIALITY (TXCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to ensure the confidentiality of transmitted personally identifiable information.					
TXCF-1	Can personally identifiable information be transmitted only via a point-to-point dedicated cable?	Yes	This device only communicates with Spacelabs Patient Monitors through a specialized connector.	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?		_	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-2.1	If data is not encrypted by default, can the customer configure encryption options?	N/A	_			
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	N/A	=	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4	Are connections limited to authenticated systems? Are secure transmission methods	N/A	_	Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	supported/implemented (DICOM, HL7, IEEE 11073)?	N/A	_			
	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
	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified					A.8.2.3, A.13.1.1, A.13.2.1,
TXIG-1	during transmission?	N/A		Section 5.19, TXIG	SC-8	A.13.2.3, A.14.1.2, A.14.1.3

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TXIG-2	Does the device include multiple sub-components connected by external cables?	N/A	_				
	REMOTE SERVICE (RMOT)				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.				. 		100 =700=10=0
RMOT-1	Does the device permit remote service connections for device analysis or repair? Does the device allow the owner/operator to	No	_			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	initiative remote service sessions for device analysis or repair? Is there an indicator for an enabled and active	N/A	_				
RMOT-1.2	remote session? Can patient data be accessed or viewed from the	N/A	_				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	N/A	_			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	N/A	_				
RMOT-3	training)?	No					
	OTHER SECURITY CONSIDERATIONS (OTHR) NONE				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						