Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Spacelabs Healthcare 92517

091-0229-01_Rev_A

25-Oct-2023

Question ID	Question		See note
DOC-1	Manufacturer Name	Spacelabs Healthcare	_
DOC-2	Device Description	The 92517 Capnography Module	_
		supports sidestream and	
		mainstream monitoring modes. It is	
		designed to measure the	
		concentration of carbon dioxide in	
		a gas mixture and to aid in	
		determining the patient's ventilatory, circulatory, and	
		metabolic status.	
DOC-3	Device Model	92517	
DOC-4	Document ID	091-0229-01_Rev_A	_
DOC-5	Manufacturer Contact Information	Spacelabs Healtcare,	
		35301 SE Center Street,	_
		Snoqualmie, WA 98065	
DOC-6	Intended use of device in network-connected	The 92517 Capnography Module	
	environment:	supports sidestream and	
		mainstream monitoring modes. It is	
		designed to measure the	
		concentration of carbon dioxide in	
		a gas mixture and to aid in	
		determining the patient's	
		ventilatory, circulatory, and metabolic status.	
		The 92517 module is intended for	
		use with Spacelabs Healthcare	
		monitoring system.	
DOC-7	Document Release Date	25-10-2023	
DOC-8	Coordinated Vulnerability Disclosure: Does the	Yes	We publish bulletins for major vulnerabilities and
	manufacturer have a vulnerability disclosure		threats as they emerge and we assess them. They
	program for this device?		are found on our website
			https://www.spacelabshealthcare.com/products/se
			curity/security-advisories-and-archives/
DOC-9	ISAO: Is the manufacturer part of an Information	No	_
500.40	Sharing and Analysis Organization?		
DOC-10	Diagram: Is a network or data flow diagram available	No	Capno Module 92517 is a product that interfaces
	that indicates connections to other system		directly with Spacelabs monitors Qube, Qube Mini
	components or expected external resources?		and Xprezzon
DOC-11	SaMD: Is the device Software as a Medical Device	No	
50011	(i.e. software-only, no hardware)?		_
DOC-11.1	Does the SaMD contain an operating system?	N/A	
DOC-11.2	Does the SaMD rely on an owner/operator provided	N/A	
	operating system?		_
DOC-11.3	Is the SaMD hosted by the manufacturer?	N/A	
DOC-11.4	Is the SaMD hosted by the customer?	N/A	
200 11.4	is the same nosica by the customer:		
		Yes, No,	Note #
		N/A, or	
		See Note	
	MANAGEMENT OF PERSONALLY IDENTIFIABLE		
	INFORMATION		
MPII-1	Can this device display, transmit, store, or modify	No	
	personally identifiable information (e.g. electronic		
	Protected Health Information (ePHI))?		
MPII-2	Does the device maintain personally identifiable	No	
	information?		
MPII-2.1	Does the device maintain personally identifiable	N/A	
	information temporarily in volatile memory (i.e.,		
	until cleared by power-off or reset)?	N/A	
MPII-2.2	Does the device store personally identifiable	N/A	-
MPII-2.3	information persistently on internal media? Is personally identifiable information preserved in	N/A	
11111 2.3	the device's non-volatile memory until explicitly		
	erased?		
MPII-2.4	Does the device store personally identifiable	N/A	
	information in a database?		

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delete local persit is stored to a lit	sonally identifiable information after long term solution? e import/export personally prmation with other systems (e.g., a toring device might export personally prmation to a server)? e maintain personally identifiable ten powered off, or during power otions? e allow the internal media to be ervice technician (e.g., for separate customer retention)? e allow personally identifiable cords be stored in a separate location e's operating system (i.e. secondary alternate drive partition, or remote n)? e have mechanisms used for the	N/A N/A N/A	
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MPII-3.1 Does the device information (e.g MPII-3.2 Does the device images containi	nporting/exporting of personally	NO	—
MPII-3.1 Does the device information (e.g MPII-3.2 Does the device images containi			
information (e.g MPII-3.2 Does the device images containi	e display personally identifiable	N/A	
images containi	g., video display, etc.)?	,	
•	e generate hardcopy reports or	No	As a standalone product, the Specialty Module
information?	ing personally identifiable		cannot maintain or transmit ePHI. The Specialty
			Module works only when integrated with Spacelabs
			monitoring products, which can maintain or
			transmit ePHI. The Specialty Module collects
			physiological data from devices connected to the
			patient and sends that data to Spacelabs monitors.
			Spacelabs Monitors in turn combine that
			physiological data with patient demographic data, which is either displayed on the monitor, printed by
			the monitor, or sent to other Spacelabs devices on
			the hospital network. Please refer to the MDS2
			form for the monitors for specific information
			regarding the monitors.
MPII-3.3 Does the device	e retrieve personally identifiable	N/A	
information from	m or record personally identifiable		
	removable media (e.g., removable-		
	ory, DVD-R/RW,CD-R/RW, tape,		
	mory stick, etc.)?	N	
	e transmit/receive or import/export tifiable information via dedicated	No	—
	on (e.g., RS-232, RS-423, USB,		
FireWire, etc.)?			
	e transmit/receive personally	N/A	
	ormation via a wired network	.,	_
	., RJ45, fiber optic, etc.)?		
MPII-3.6 Does the device	e transmit/receive personally	N/A	_
identifiable info	ormation via a wireless network		
connection (e.g.	., WiFi, Bluetooth, NFC, infrared,		
cellular, etc.)?			
	e transmit/receive personally	N/A	-
	ormation over an external network		
(e.g., Internet)? MPII-3.8 Does the device		NI/A	
	e import personally identifiable scanning a document?	N/A	
	e transmit/receive personally	N/A	
	prmation via a proprietary protocol?		
MPII-3.10 Does the device		N/A	
	e use any other mechanism to	,	
information?	e use any other mechanism to rt or export personally identifiable		
Management of Private Data notes:	e use any other mechanism to rt or export personally identifiable		

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AUTOMATIC LOGOFF (ALOF)

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The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.

space as realized e			20 000 2020
ALOF-1	Can the device be configured to force	N/A	
ALOI-1	reauthorization of logged-in user(s) after a	N/A	-
	predetermined length of inactivity (e.g., auto-logoff,		
	session lock, password protected screen saver)?		
ALOF-2	Is the length of inactivity time before auto-	N/A	_
	logoff/screen lock user or administrator		
	configurable?		
	AUDIT CONTROLS (AUDT)		
	The ability to reliably audit activity on the device.		
AUDT-1	Can the medical device create additional audit logs	N/A	_
	or reports beyond standard operating system logs?		
AUDT-1.1	Does the audit log record a USER ID?	N/A	
AUDT-1.2	Does other personally identifiable information exist	N/A	-
	in the audit trail?		
AUDT-2	Are events recorded in an audit log? If yes, indicate	N/A	_
	which of the following events are recorded in the		
AUDT-2.1	audit log: Successful login/logout attempts?	N/A	
AUDT-2.1 AUDT-2.2	Unsuccessful login/logout attempts?	N/A N/A	—
AUDT-2.3	Modification of user privileges?	N/A	_
AUDT-2.4	Creation/modification/deletion of users?	N/A	_
AUDT-2.5	Presentation of clinical or PII data (e.g. display,	N/A	—
AUDT-2.6	print)? Creation/modification/deletion of data?	N/A	
AUDT-2.7	Import/export of data from removable media (e.g.	N/A	-
	USB drive, external hard drive, DVD)?		
AUDT-2.8	Receipt/transmission of data or commands over a	N/A	_
	network or point-to-point connection?		
AUDT-2.8.1 AUDT-2.8.2	Remote or on-site support?	N/A N/A	-
AUD1-2.8.2	Application Programming Interface (API) and similar activity?	N/A	—
AUDT-2.9	Emergency access?	N/A	_
AUDT-2.10	Other events (e.g., software updates)?	N/A	_
AUDT-2.11	Is the audit capability documented in more detail?	N/A	_
AUDT-3	Can the owner/operator define or select which	N/A	
AUDT-4	events are recorded in the audit log? Is a list of data attributes that are captured in the	N/A	
	audit log for an event available?		—
AUDT-4.1	Does the audit log record date/time?	N/A	_
AUDT-4.1.1	Can date and time be synchronized by Network Time	N/A	—
	Protocol (NTP) or equivalent time source?	N/A	
AUDT-5 AUDT-5.1	Can audit log content be exported? Via physical media?	N/A N/A	-
AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA)	N/A	
	profile to SIEM?		
AUDT-5.3	Via Other communications (e.g., external service	N/A	—
AUDT-5.4	device, mobile applications)? Are audit logs encrypted in transit or on storage	N/A	
	media?		_
AUDT-6	Can audit logs be monitored/reviewed by	N/A	_
	owner/operator?		
AUDT-7 AUDT-7.1	Are audit logs protected from modification? Are audit logs protected from access?	N/A N/A	-
AUDT-8	Can audit logs be analyzed by the device?	N/A	
			_
	AUTHORIZATION (AUTH)		
	The ability of the device to determine the		
AUTH-1	authorization of users.	N/A	
	Does the device prevent access to unauthorized users through user login requirements or other	N/A	—
	mechanism?		
AUTH-1.1	Can the device be configured to use federated	N/A	_
	credentials management of users for authorization		
	(e.g., LDAP, OAuth)?	N/A	
AUTH-1.2	Can the customer push group policies to the device (e.g., Active Directory)?	N/A	—
AUTH-1.3	Are any special groups, organizational units, or group	N/A	

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AUTH-1.3

Are any special groups, organizational units, or group N/A

policies required?

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AUTH-2	Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	N/A	-
AUTH-3	Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?	N/A	_
AUTH-4	Does the device authorize or control all API access requests?	N/A	-
AUTH-5	Does the device run in a restricted access mode, or '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.		
CSUP-1	Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to	Yes	_
CSUP-2	questions in this section. Does the device contain an Operating System? If yes,	Yes	RTOS VxWorks 5.5
CSUP-2.1	complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	_
CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	_
CSUP-2.3	Does the device have the capability to receive remote installation of patches or software updates?	No	_
CSUP-2.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	No	_
CSUP-3	Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4.	Yes	-
CSUP-3.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	-
CSUP-3.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	-
CSUP-3.3	Does the device have the capability to receive remote installation of patches or software updates?	No	-
CSUP-3.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	_
CSUP-4	Does the device contain Anti-Malware Software? If yes, complete 4.1-4.4.	No	-
CSUP-4.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	_
CSUP-4.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	-
CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A	-
CSUP-4.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?		_
CSUP-5	Does the device contain Non-Operating System commercial off-the-shelf components? If yes, complete 5.1-5.4.	No	-
CSUP-5.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	_

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CSUP-5.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A
CSUP-5.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A
CSUP-5.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A
CSUP-6	Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4.	No
CSUP-6.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A
CSUP-6.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A
CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A
CSUP-6.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A
CSUP-7	Does the manufacturer notify the customer when updates are approved for installation?	Yes Communications for product updates, such as Customer Service Notices or Product Update Bulletins, are distributed to Spacelabs customer service personnel to communicate these update customers directly.
CSUP-8	Does the device perform automatic installation of software updates?	No
CSUP-9	Does the manufacturer have an approved list of third party software that can be installed on the device?	- N/A
CSUP-10	Can the owner/operator install manufacturer- 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?	N/A
CSUP-11	Does the manufacturer have a process in place to assess device vulnerabilities and updates?	No
CSUP-11.1	Does the manufacturer provide customers with review and approval status of updates?	No
CSUP-11.2	Is there an update review cycle for the device?	No

HEALTH DATA DE-IDENTIFICATION (DIDT)

	The ability of the device to directly remove		
	information that allows identification of a person.		
DIDT-1	Does the device provide an integral capability to de-	N/A	_
	identify personally identifiable information?		
DIDT-1.1	Does the device support de-identification profiles	N/A	
	that comply with the DICOM standard for de-		
	identification?		
	DATA BACKUP AND DISASTER RECOVERY (DTBK)		

	The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.	
DTBK-1	Does the device maintain long term primary storage	No
	of personally identifiable information / patient	
	information (e.g. PACS)?	
DTBK-2	Does the device have a "factory reset" function to	Yes
	restore the original device settings as provided by	
	the manufacturer?	
DTBK-3	Does the device have an integral data backup	No
	capability to removable media?	

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DTBK-4	Does the device have an integral data backup	No	
DTBK-5	capability to remote storage? Does the device have a backup capability for system	No	
DIBK-5	configuration information, patch restoration, and	No	
DTBK-6	software restoration? Does the device provide the capability to check the integrity and authenticity of a backup?	N/A	_
	EMERGENCY ACCESS (EMRG)		
	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	_
	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-		
IGAU-1	authorized manner and is from the originator. Does the device provide data integrity checking	NI/A	
1040-1	mechanisms of stored health data (e.g., hash or	N/A	_
IGAU-2	digital signature)? Does the device provide error/failure protection and	N/A	
	recovery mechanisms for stored health data (e.g.,		—
	RAID-5)?		
	MALWARE DETECTION/PROTECTION (MLDP)		
	The ability of the device to effectively prevent, detect		
	and remove malicious software (malware).	Ne	
MLDP-1	Is the device capable of hosting executable software?	NO	-
MLDP-2	Does the device support the use of anti-malware software (or other anti-malware mechanism)?	N/A	-
	Provide details or reference in notes.		
MLDP-2.1	Does the device include anti-malware software by default?	N/A	—
MLDP-2.2	Does the device have anti-malware software	N/A	_
MLDP-2.3	available as an option? Does the device documentation allow the	N/A	_
	owner/operator to install or update anti-malware software?		
MLDP-2.4	Can the device owner/operator independently (re-	N/A	_
MLDP-2.5)configure anti-malware settings? Does notification of malware detection occur in the	N/A	
	device user interface?		
MLDP-2.6	Can only manufacturer-authorized persons repair 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)?	N/A	
MLDP-3	If the answer to MLDP-2 is NO, and anti-malware	N/A	_
	cannot be installed on the device, are other compensating controls in place or available?		
MLDP-4	Does the device employ application whitelisting that	N/A	
	restricts the software and services that are permitted		
MLDP-5	to be run on the device? Does the device employ a host-based intrusion	N/A	
	detection/prevention system?		_
MLDP-5.1	Can the host-based intrusion detection/prevention	N/A	_
	system be configured by the customer?		
MLDP-5.2	Can a host-based intrusion detection/prevention system be installed by the customer?	N/A	
	system se instance by the customer:		

NODE AUTHENTICATION (NAUT)

The ability of the device to authenticate communication partners/nodes.

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NAUT-1	Does the device provide/support any means of node authentication that assures both the sender and the recipient of data are known to each other and are authorized to receive transferred information (e.g. Web APIs, SMTP, SNMP)?	N/A	_
NAUT-2	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)?	N/A	_
NAUT-2.1	Is the firewall ruleset documented and available for review?	N/A	-
NAUT-3	Does the device use certificate-based network 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.		
CONN-1	Does the device have hardware connectivity capabilities?	Yes	-
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	
CONN-1.1.3	Does the device support other wireless network	No	
	connectivity (e.g. LTE, Zigbee, proprietary)?		
CONN-1.1.4	Does the device support other wireless connections (e.g., custom RF controls, wireless detectors)?	No	-
CONN-1.2	Does the device support physical connections?	Yes	
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	No	_
CONN-1.2.2	Does the device have available USB ports?	No	
CONN-1.2.3	Does the device require, use, or support removable memory devices?	No	_
CONN-1.2.4	Does the device support other physical connectivity?	Yes	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
CONN-2	Does the manufacturer provide a list of network ports and protocols that are used or may be used on the device?	N/A	
		N/A No	designed port. It sends data about the patient
CONN-2	ports and protocols that are used or may be used on the device? 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	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4	ports and protocols that are used or may be used on the device? 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 host)?	No	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls?	No No	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4	ports and protocols that are used or may be used on the device? 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 host)?	No	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for	No No	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security	No No No	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)?	No No No	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7 CONN-7.1	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)? Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	No No No No N/A	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7 CONN-7.1	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)? Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)? PERSON AUTHENTICATION (PAUT) The ability to configure the device to authenticate	No No No No N/A	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7 CONN-7.1	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)? Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)? 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	No No No No N/A N/A	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7 CONN-7.1 CONN-8	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)? Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)? 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 accounts)?	No No No No N/A N/A	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7 CONN-7 CONN-7.1 CONN-8	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)? Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)? 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 accounts)? Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)? Is the device configurable to authenticate users through an external authentication service (e.g., MS	No No No No N/A N/A	designed port. It sends data about the patient
CONN-2 CONN-3 CONN-4 CONN-5 CONN-6 CONN-7 CONN-7 CONN-7 CONN-7.1 CONN-8	ports and protocols that are used or may be used on the device? 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 host)? Does the device make or receive API calls? Does the device require an internet connection for its intended use? Does the device support Transport Layer Security (TLS)? Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g., telemedicine)? 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 accounts)? Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)? Is the device configurable to authenticate users	No No No No N/A N/A	designed port. It sends data about the patient

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PAUT-4	Are all default accounts (e.g., technician service accounts, administrator accounts) listed in the documentation?	N/A	_
PAUT-5	Can all passwords be changed?	N/A	
PAUT-6	Is the device configurable to enforce creation of user account passwords that meet established		_
PAUT-7	(organization specific) complexity rules? Does the device support account passwords that expire periodically?	N/A	_
PAUT-8	Does the device support multi-factor authentication?	N/A	_
PAUT-9	Does the device support single sign-on (SSO)?	N/A	
PAUT-10	Can user accounts be disabled/locked on the device?		
PAUT-11	Does the device support biometric controls?	N/A	
PAUT-12	Does the device support physical tokens (e.g. badge access)?	N/A	
PAUT-13	Does the device support group authentication (e.g. hospital teams)?	N/A	_
PAUT-14	Does the application or device store or manage authentication credentials?	N/A	_
PAUT-14.1	Are credentials stored using a secure method?	N/A	
	<u>.</u>		
	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		
PLOK-1	Is the device software only? If yes, answer "N/A" to remaining questions in this section.	No	-
PLOK-2	Are all device components maintaining personally	N/A	
	identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)?		_
PLOK-3	Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually keyed locking device?	N/A	_
PLOK-4	Does the device have an option for the customer to attach a physical lock to restrict access to removable media?	N/A	_
	ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)		
	Manufacturer's plans for security support of third-		
RDMP-1	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 development?	Yes	Spacelabs follows IEC 62304 software development process for development of Spacelabs medical software and software within the Spacelabs medical devices.
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in	Yes	
RDMP-3	the device for secure development practices? Does the manufacturer maintain a web page or other source of information on software support	Yes	_
	dates and updates?		
RDMP-4	Does the manufacturer have a plan for managing third-party component end-of-life?	Yes	_
	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.		
SBOM-1	Is the SBoM for this product available?	No	

SBOM-1 Is the SBoM for this product available? No ____ SBOM-2 Does the SBoM follow a standard or common N/A method in describing software components? SBOM-2.1 Are the software components identified? N/A

SBOM-2.2	Are the developers/manufacturers of the software	N/A	_
SBOM-2.3	components identified? Are the major version numbers of the software	N/A	
000000 200	components identified?	.,,,,	—
SBOM-2.4	Are any additional descriptive elements identified?	N/A	_
SBOM-3	Does the device include a command or process method available to generate a list of software	N/A	—
	components installed on the device?		
SBOM-4	Is there an update process for the SBoM?	N/A	
	SYSTEM AND APPLICATION HARDENING (SAHD)		
	STSTEW AND AFFLICATION HARDENING (SAND)		
	The device's inherent resistance to cyber attacks and		
SAHD-1	malware. Is the device hardened in accordance with any	No	
JAND I	industry standards?		-
SAHD-2	Has the device received any cybersecurity	No	_
SAHD-3	certifications? Does the device employ any mechanisms for	Yes	
0,110 0	software integrity checking		_
SAHD-3.1	Does the device employ any mechanism (e.g., release	Yes	_
	specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-		
	authorized?		
SAHD-3.2	Does the device employ any mechanism (e.g., release	Yes	_
	specific hash key, checksums, digital signature, etc.) to ensure the software updates are the		
	manufacturer-authorized updates?		
SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been	No	—
	modified or tampered with)?		
SAHD-5	Is the system configurable to allow the	N/A	_
	implementation of file-level, patient level, or other types of access controls?		
SAHD-5.1	Does the device provide role-based access controls?	N/A	
		N1/A	
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery?	N/A	—
SAHD-6.1		N/A	_
SAHD-6.2	end user after initial configuration? Does this include restricting certain system or user	N/A	
JAND 0.2	accounts, such as service technicians, to least		-
	privileged access?		
SAHD-7	Are all shared resources (e.g., file shares) which are not required for the intended use of the device	Yes	—
	disabled?		
SAHD-8		Yes	_
	not required for the intended use of the device disabled?		
SAHD-9	Are all services (e.g., telnet, file transfer protocol	Yes	
	[FTP], internet information server [IIS], etc.), which		
	are not required for the intended use of the device deleted/disabled?		
SAHD-10	Are all applications (COTS applications as well as OS-	Yes	_
	included applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of		
	the device deleted/disabled?		
SAHD-11	Can the device prohibit boot from uncontrolled or	N/A	_
	removable media (i.e., a source other than an internal drive or memory component)?		
SAHD-12	Can unauthorized software or hardware be installed	No	_
	on the device without the use of physical tools?		
SAHD-13	Does the product documentation include	N/A	
	information on operational network security		
SAHD-14	scanning by users? Can the device be hardened beyond the default	N/A	
5,110 17	provided state?		—
SAHD-14.1	Are instructions available from vendor for increased	N/A	
SHAD-15	hardening? Can the system prevent access to BIOS or other	N/A	
	bootloaders during boot?		
SAHD-16	Have additional hardening methods not included in	N/A	
	2.3.19 been used to harden the device?		

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	SECURITY GUIDANCE (SGUD)		
	Availability of security guidance for operator and		
	administrator of the device and manufacturer sales and service.		
SGUD-1		Yes	_
	the owner/operator?	N/A	
SGUD-2	Does the device have the capability, and provide instructions, for the permanent deletion of data from	N/A	—
	the device or media?		
SGUD-3	Are all access accounts documented?	N/A	-
SGUD-3.1	Can the owner/operator manage password control	N/A	
SGUD-4	for all accounts? Does the product include documentation on	N1/A	
3000-4	recommended compensating controls for the	N/A	_
	device?		
	HEALTH DATA STORAGE CONFIDENTIALITY		
	(STCF) 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.		
	stored on the device of removable media.		
STCF-1	Can the device encrypt data at rest?	No	_
STCF-1.1 STCF-1.2	Is all data encrypted or otherwise protected? Is the data encryption capability configured by	N/A N/A	
	default?		
STCF-1.3	Are instructions available to the customer to configure encryption?	N/A	
STCF-2	Can the encryption keys be changed or configured?	N/A	_
STCF-3	Is the data stored in a database located on the	N/A	
5161 5	device?		—
STCF-4	Is the data stored in a database external to the device?	N/A	_
	TRANSMISSION CONFIDENTIALITY (TXCF)		
	The ability of the device to ensure the confidentiality		
	of transmitted personally identifiable information.		
TXCF-1	Can personally identifiable information be	N/A	
	transmitted only via a point-to-point dedicated		_
TXCF-2	cable? Is personally identifiable information encrypted prior	N/A	
	to transmission via a network or removable media?	,	—
TXCF-2.1	If data is not encrypted by default, can the customer	N/A	
	configure encryption options?		
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	N/A	-
TXCF-4	Are connections limited to authenticated systems?	N/A	_
TXCF-5	Are secure transmission methods	N/A	_
	supported/implemented (DICOM, HL7, IEEE 11073)?		
	TRANSMISSION INTEGRITY (TXIG)		
	The ability of the device to ensure the integrity of		
TXIG-1	<i>transmitted data.</i> Does the device support any mechanism (e.g., digital	N/A	
1710-1	signatures) intended to ensure data is not modified		_
7740 2	during transmission?		
TXIG-2	Does the device include multiple sub-components	N/A	—

REMOTE SERVICE (RMOT)

connected by external cables?

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	Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.	
RMOT-1	Does the device permit remote service connections for device analysis or repair?	No
RMOT-1.1	Does the device allow the owner/operator to initiative remote service sessions for device analysis or repair?	N/A
RMOT-1.2	Is there an indicator for an enabled and active remote session?	N/A
RMOT-1.3	Can patient data be accessed or viewed from the device during the remote session?	N/A
RMOT-2	Does the device permit or use remote service connections for predictive maintenance data?	N/A
RMOT-3	Does the device have any other remotely accessible functionality (e.g. software updates, remote training)?	No

OTHER SECURITY CONSIDERATIONS (OTHR)

Notes:

Note 1

Example note. Please keep individual notes to one cell. Please use separate notes for separate information