Manufacturer Disclosure Statement for Medical Device Security -- MDS2

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	Qube Patient Monitor version 4.0.0				
DOC-3	Device Model	91390				
DOC-4	Document ID	091-0324-06 Rev A				
DOC-5	Manufacturer Contact Information	Spacelabs Healthcare, 35301 S.E.				
		Center Street, Snoqualmie, WA				
		98065				
DOC-6	Intended use of device in network-connected	Spacelabs 91390 Qube® is a				
	environment:	compact patient monitor with a 12-				
		inch touchscreen that is well-suited				
		for use in high acuity neonatal,				
		pediatric and adult care, as well as				
		perioperative environments. The				
		Qube stores up to 96 hours of				
		trends, and features remote				
		viewing, Alarm Watch, and three				
		userselectable screen formats				
		harmonized with Xprezzon® and				
		Qube Mini to facilitate learning and				
		navigation. With wireless				
		networking and two batteries, Qube				
		supports extended transport for up				
		to eight hours. When deployed with				
		the Spacelabs Xhibit® Central				
		Station and Intesys® Clinical Suite,				
		the Qube offers enterprise				
DOC-7	Document Release Date	Sep-22				
DOC-8	Coordinated Vulnerability Disclosure: Does the	Yes	We publish bulletins for major vulnerabilities and			
5000	manufacturer have a vulnerability disclosure program		threats as they emerge and we assess them. They			
	for this device?		are found on our website			
	ioi tiiis device:		https://www.spacelabshealthcare.com/products/se			
			curity/security-advisories-and-archives/			
DOC-9	ISAO: Is the manufacturer part of an Information	No	curry/security-advisories-and-archives/			
DOC-9	Sharing and Analysis Organization?	NO	_			
DOC-10	Diagram: Is a network or data flow diagram available	Yes	We have network diagrams of our PMC suite with			
DOC-10	that indicates connections to other system	res	Qube as part of those models. This is not published			
	components or expected external resources?					
DOC-11		No	and can be made available on request.			
DOC-11	SaMD: Is the device Software as a Medical Device (i.e	. NO	_			
DOC-11.1	software-only, no hardware)? Does the SaMD contain an operating system?	N/A				
DOC-11.1 DOC-11.2			_			
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				
	•		· 	<u>-</u>		
		Yes, No,	Note #			
		N/A, or				
		See Note				
	MANAGEMENT OF PERSONALLY IDENTIFIABLE			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	INFORMATION			1LC 11 00001-2-2.2012	14131 3F 000-33 Nev. 4	130 2/002.2013
MPII-1		Voc		1	AR-2	A.15.1.4
IVIPII-1	Can this device display, transmit, store, or modify	Yes	_		AR-Z	A.15.1.4
	personally identifiable information (e.g. electronic					
MADIL 2	Protected Health Information (ePHI))?	Vac			AD 3	A 1F 1 4
MPII-2	Does the device maintain personally identifiable	Yes			AR-2	A.15.1.4
	information?			I		

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MPII-2.1	Does the device maintain personally identifiable	Yes	_
	information temporarily in volatile memory (i.e., until		
	cleared by power-off or reset)?		
MPII-2.2	Does the device store personally identifiable	See Notes	The patient monitor stores private data in
	information persistently on internal media?		nonvolatile memory to support short term power
			service interruptions. All data is purged from
			nonvolatile memory if power service interruption
			exceeds 3 minutes or the monitor's power switch is toggled.
MPII-2.3	Is personally identifiable information preserved in the	No	_
	device's non-volatile memory until explicitly erased?		
MPII-2.4	Does the device store personally identifiable information in a database?	No	_
MPII-2.5	Does the device allow configuration to automatically	N/A	Patient demographic data is removed whenever the
	delete local personally identifiable information after		patient is discharged from the monitor.
	it is stored to a long term solution?		
MPII-2.6	Does the device import/export personally identifiable	Yes	The patient monitor integrated with other Spacelabs
	information with other systems (e.g., a wearable		products can import or export private data. The
	monitoring device might export personally		patient monitor as a standalone product cannot
	identifiable information to a server)?		import or export private data.
MPII-2.7	Does the device maintain personally identifiable	See Notes	The patient monitor stores private data in
	information when powered off, or during power		nonvolatile memory to support short term power
	service interruptions?		service interruptions. All data is purged from
			nonvolatile memory if power service interruption
			exceeds 3 minutes or the monitor's power switch is toggled.
MPII-2.8	Does the device allow the internal media to be	Yes	The internal media does not store PHI.
1411 11 2.0	removed by a service technician (e.g., for separate	res	The internal media does not store i in.
	destruction or customer retention)?		
MPII-2.9	Does the device allow personally identifiable	No	
	information records be stored in a separate location		
	from the device's operating system (i.e. secondary		
	internal drive, alternate drive partition, or remote		
	storage location)?		
MPII-3	Does the device have mechanisms used for the	Yes	_
	transmitting, importing/exporting of personally		
	identifiable information?		
MPII-3.1	Does the device display personally identifiable	Yes	_
	information (e.g., video display, etc.)?		
MPII-3.2	Does the device generate hardcopy reports or images	Yes	Monitors can have an optional strip printer for
	containing personally identifiable information?		printing waveform data and can include the
			patient's name.
MPII-3.3	Does the device retrieve personally identifiable	No	_
	information from or record personally identifiable		
	information to removable media (e.g., removable-		
	HDD, USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD card, memory stick, etc.)?		
MPII-3.4	Does the device transmit/receive or import/export	Yes	The Qube monitor is able to receive potentially
IVIFII-5.4	personally identifiable information via dedicated	res	identifiable information from devices connected
	cable connection (e.g., RS-232, RS-423, USB,		over RS-232 and/or SDLC ports. This is dependent
			upon the connected third-party device. Additionally,
	FireWire, etc.)?		
	rirewire, etc.) r		patient band scanners can be plugged into the monitor via USB to scan patient identifying bands

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A.15.1.4

AUDT-2

Are events recorded in an audit log? If yes, indicate

which of the following events are recorded in the

audit log:

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MPII-3.5	Does the device transmit/receive personally	Yes	Qube can interface to another Spacelabs patient		AR-2	A.15.1.4
	identifiable information via a wired network		monitor through a wired or wireless Ethernet			
	connection (e.g., RJ45, fiber optic, etc.)?		network. The monitor can also interface to other			
			Spacelabs monitors, Spacelabs central station			
			product (3800 UVSL Central Station, Xhibit Central			
			Station, or Xhibit XC4), Xprezznet or to a Spacelabs			
			clinical information system product (ICS-G2). In all			
İ			instances the possibility of transmitting private data exists.			
MPII-3.6	Does the device transmit/receive personally	Yes	Qube can interface to another Spacelabs patient		AR-2	A.15.1.4
IVIF II-3.0	identifiable information via a wireless network	163	monitor through a wired or wireless Ethernet		AII-2	A.13.1.4
	connection (e.g., WiFi, Bluetooth, NFC, infrared,		network. The monitor can also interface to other			
	cellular, etc.)?		Spacelabs monitors, Spacelabs central station			
			product (3800 UVSL Central Station, Xhibit Central			
			Station, or Xhibit XC4), Xprezznet or to a Spacelabs			
			clinical information system product (ICS-G2). In all			
			instances the possibility of transmitting private data			
			exists.			
MPII-3.7	Does the device transmit/receive personally	No	_		AR-2	A.15.1.4
	identifiable information over an external network					
MADIL 2 G	(e.g., Internet)?	No				
MPII-3.8	Does the device import personally identifiable information via scanning a document?	No				
MPII-3.9	Does the device transmit/receive personally	Yes	Qube uses Spacelabs proprietery TCP and UDP			
IVIF II-3.5	identifiable information via a proprietary protocol?	163	protocols to transmit/recieve information between			
	identifiable information via a proprietary protocor:		other Spacelabs monitors, ICS Monitor loader			
			(92810), Xhibit Central Station and XC4 (96102,			
			96501) and Xprezznet.			
MPII-3.10	Does the device use any other mechanism to	Yes	Monitors can use Data Shuttle to import PII from		AR-2	A.15.1.4
	transmit, import or export personally identifiable		other monitors.			
	information?					
Management of Pr	ivate Data notes:				AR-2	A.15.1.4
	AUTOMATIC LOGOFF (ALOF)			IFC TD 80001 3 3-3013	NUCT CD 000 F3 Day 4	150 37003-3013
				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's ability to prevent access and misuse by					
	unauthorized users if device is left idle for a period of time.					
ALOF-1	Can the device be configured to force reauthorization	n Ves	Inactivity log off feature is present.	Section 5.1, ALOF	AC-12	None
	of logged-in user(s) after a predetermined length of		macarity log off feature is present.	Section 3.1, ALOI	AC 12	None
	inactivity (e.g., auto-logoff, session lock, password					
	protected screen saver)?					
ALOF-2	Is the length of inactivity time before auto-	No	Not configurable	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
	logoff/screen lock user or administrator					•
	AUDIT CONTROLS (AUDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
T	The ability to reliably audit activity on the device.			•		
AUDT-1	Can the medical device create additional audit logs of	Yes	The monitor is capable of capturing logs for IT	Section 5.2, AUDT	AU-1	A.5.1.1, A.5.1.2, A.6.1.1,
	reports beyond standard operating system logs?		configuration changes, successful/failed access to			A.12.1.1, A.18.1.1, A.18.2.2
1			Privileged Access mode and preconfigured shared			
			accounts (Biomed/Service/Clinical), and information			
			pertaining to monitor statefulness such as network			
AUDT-1.1	Does the audit log record a USER ID?	Yes	connectivity.			
AUDI-1.1	Does trie audit log record a USEK ID?	res	Audit logs will capture the user type (Biomed/Service/Clinical/System) as part of the			
1			logging message.			
AUDT-1.2	Does other personally identifiable information exist in	n No	logging message.	Section 5.2, AUDT	AU-2	None
	the audit trail?			3000011 3.2, 700 1	A0 2	HOIC

Section 5.2, AUDT

AU-2

None

AUDT-2.1	Successful login/logout attempts?	See Notes	Attempts at accessing monitor Prilveged Access	Section 5.2, AUDT	AU-2	None
A0D1-2.1	Successful logilly logout attempts:	See Notes	mode (which requires a password such as for the	Section 3.2, AOD1	A0-2	None
			Biomed and Service account) are recorded.			
AUDT-2.2	Unsuccessful login/logout attempts?	See Notes	Attempts at accessing monitor Prilveged Access	Section 5.2, AUDT	AU-2	None
AUD1-2.2	onsuccessful logili/logout attempts!	see notes	mode (which requires a password such as for the	Section 3.2, AOD1	AU-2	None
ALIDT 2.2	Madification of constitutions	No	Biomed and Service account) are recorded.	Continue E.O. ALIDE	AU 2	None
AUDT-2.3	Modification of user privileges?	NO	Account permissions are static on the monitor for	Section 5.2, AUDT	AU-2	None
	0 11 / 11/2 11 / 1 1 2		each account (Biomed/Service/Clinical/kiosk mode).	5 11 50 1107		
AUDT-2.4	Creation/modification/deletion of users?	No	Account permissions are static on the monitor for	Section 5.2, AUDT	AU-2	None
			each account (Biomed/Service/Clinical/kiosk mode).			
AUDT-2.5	Presentation of clinical or PII data (e.g. display, print)?	No	By product design, the monitor displays patient data and vitals in kiosk mode.	Section 5.2, AUDT	AU-2	None
AUDT-2.6	Creation/modification/deletion of data?	Yes	Changes in IT configuration data such as networking	Section 5.2, AUDT	AU-2	None
			configurations is logged.	,		
AUDT-2.7	Import/export of data from removable media (e.g.	Yes		Section 5.2, AUDT	AU-2	None
	USB drive, external hard drive, DVD)?		_	,		
AUDT-2.8	Receipt/transmission of data or commands over a	Yes	Connections to Spacelabs' Genie service, used for	Section 5.2, AUDT	AU-2	None
	network or point-to-point connection?		monitor servicing, are logged.	,		
AUDT-2.8.1	Remote or on-site support?	See Notes	Monitors can only be serviced on-site.	Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Application Programming Interface (API) and similar	N/A	Monitors can only be serviced on-site.	Section 5.2, AUDT	AU-2	None
	activity?	•	_	Section 5.2, AOD1	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?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-3	Can the owner/operator define or select which	No		Section 5.2, AUDT	AU-2	None
	events are recorded in the audit log?			•		
AUDT-4	Is a list of data attributes that are captured in the	No		Section 5.2, AUDT	AU-2	None
-	audit log for an event available?		_	, ,		
AUDT-4.1	Does the audit log record date/time?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-4.1.1	Can date and time be synchronized by Network Time		Depending on the patient monitoring	Section 5.2, AUDT	AU-2	None
A0D1 4.1.1	Protocol (NTP) or equivalent time source?	163	implementation, Spacelabs monitors can sync time	3cction 3.2, A051	70 2	None
	Protocol (NTF) of equivalent time source:		with Xhibit central stations or with the ICS Monitor			
			Loader server managing the monitoring network the			
	0 1711 1 1 12	.,	monitor resides on.	5 11 50 1107		
AUDT-5	Can audit log content be exported?	Yes	Logs can be sent to a configured logging aggregation server.	Section 5.2, AUDT	AU-2	None
AUDT-5.1	Via physical media?	Yes	By default configuration, logs are sent to an internal			
			USB drive. Logs are saved and deleted first-in-first-			
			out (FIFO) as storage allows.			
AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA)	No				
7.001 3.2	profile to SIEM?		_			
AUDT-5.3	Via Other communications (e.g., external service	No				
7.051 5.5	device, mobile applications)?		_			
AUDT-5.4	Are audit logs encrypted in transit or on storage	Yes	Monitors configured to send logs to a logging server			
	media?		can import SSL/TLS certificates to encrypt log data in			
			transit.			
AUDT-6	Can audit logs be monitored/reviewed by	No	Though monitor generated logs cannot be viewed			
	owner/operator?		locally on the monitor, they can be reviewed by			
	owner/operator:		exporting locally saved logs to a workstation or from			
AUDT 7	A	V	the	Continue E.O. ALIDE	AU 2	News
AUDT-7	Are audit logs protected from modification?	Yes	Logs are written locally to an internal USB drive and are read-only.	Section 5.2, AUDT	AU-2	None
AUDT-7.1	Are audit logs protected from access?	Yes	Logs are written locally to an internal USB drive.			
MODI=7.1	Are addit logs protected from access:	163				
			Physical security protections are in place to limit			
	0 101 1 1 1 1 1 1 2		access to the drive.	5 5 3 41157		
AUDT-8	Can audit logs be analyzed by the device?	No	_	Section 5.2, AUDT	AU-2	None

AUTHORIZATION (AUTH)

The ability of the device to determine the authorization of users.

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AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other mechanism?	See Notes	Yes: The device provides bedside monitoring information to healthcare staff and is intended to be operated in Kiosk mode, in an always on/functional mode - healthcare workers do not have to log on to get access to the monitor information. All elevated permissions functions (used to setup or configure the device) are not accessible in the unauthenticated Kiosk interface, but can be accessed via shared accounts for clinical, biomed, and service personnel. The password for the clinical and biomed accounts can be controlled by the		IA-2	A.9.2.1
AUTH-1.1	Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	No	and biomed accounts can be controlled by the	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?	N/A	_	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-2	Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	N/A	-	Section 5.3, AUTH	IA-2	A.9.2.1
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	_	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-4	Does the device authorize or control all API access requests?	N/A	_	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-5	Does the device run in a restricted access mode, or 'kiosk mode', by default?	Yes	-			

CYBER SECURITY PRODUCT UPGRADES (CSUP) The ability of on-site service staff, remote service

staff, or authorized customer staff to install/upgrade

stajj, or authorizea customer stajj to instali/upgrade					
device's security patches.					
Does the device contain any software or firmware	Yes	_			
which may require security updates during its					
operational life, either from the device manufacturer					
or from a third-party manufacturer of the					
software/firmware? If no, answer "N/A" to questions	5				
in this section.					
Does the device contain an Operating System? If yes,	Yes	The Real Time Operating System (RTOS) used by the			
complete 2.1-2.4.		monitor is Wind River Systems' VxWorks version			
Does the device documentation provide instructions	Yes				
for owner/operator installation of patches or					
software updates?					
Does the device require vendor or vendor-authorized	See Notes	Patches and updates are installed by qualified and			
service to install patches or software updates?		authorized Spacelabs Field Service Engineers to each			
		device.			
Does the device have the capability to receive remote	No	_			
installation of patches or software updates?					
Does the medical device manufacturer allow security	No	Software updates are all inclusive. Any time there			
updates from any third-party manufacturers (e.g.,		are product updates, including security updates,			
Microsoft) to be installed without approval from the		they are distributed as a whole software update to			
manufacturer?		the monitor.			
Does the device contain Drivers and Firmware? If yes,	Yes				
complete 3.1-3.4.					
Does the device documentation provide instructions	Yes	_			
for owner/operator installation of patches or					
software updates?					
	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 question: in this section. Does the device contain an Operating System? If yes, complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? 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 manufacturer? Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4. Does the device documentation provide instructions for owner/operator installation of patches or	device's security patches. Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section. Does the device contain an Operating System? If yes, complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? 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 manufacturer? Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4. Does the device documentation provide instructions for owner/operator installation of patches or	device's security patches. Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section. Does the device contain an Operating System? If yes, complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? Does the device have the capability to receive remote installation of patches or software updates? Does the manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? Does the device contain Drivers and Firmware? If yes, Yes complete 3.1-3.4. Does the device documentation provide instructions for owner/operator installation of patches or	Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section. Does the device contain an Operating System? If yes, complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates? Does the device require vendor or vendor-authorized service to install patches or software updates? 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 manufacturer? Does the device contain Drivers and Firmware? If yes complete 3.1-3.4. Does the device documentation provide instructions for owner/operator installation of patches or of tware updates? Yes The Real Time Operating System (RTOS) used by the monitor is Wind River Systems' VxWorks version Yes The Real Time Operating System (RTOS) used by the monitor is Wind River Systems' VxWorks version Yes The Real Time Operating System (RTOS) used by the monitor is Wind River Systems' VxWorks version Yes The Real Time Operating System (RTOS) used by the monitor is Wind River Systems' VxWorks version Yes Patches and updates are installed by qualified and authorized Spacelabs Field Service Engineers to each device. No — Software updates are all inclusive. Any time there are product updates, including security updates, they are distributed as a whole software update to the monitor. Does the device contain Drivers and Firmware? If yes complete 3.1-3.4. Does the device documentation provide instructions for owner/operator installation of patches or	device's security patches. Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section. Does the device obtain an Operating System? If yes, complete 2.1-2.4. Does the device documentation provide instructions for owner/operator installation of patches or software updates? Does the device require vendor or vendor-authorized service. Does the device have the capability to receive remote installation of patches or software updates? Does the device have the capability to receive remote listallation 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 manufacturer? Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4. Does the device documentation provide instructions for owner/operator installation of patches or 'yes' — (Software updates are all inclusive. Any time there are product updates, including security updates, they are distributed as a whole software update to the monitor. Does the device documentation provide instructions for owner/operator installation of patches or 'yes' Does the device documentation provide instructions for owner/operator installation of patches or 'yes'

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CSUP-3.2	Does the device require vendor or vendor-authorized	Con Notes	Software updates are all inclusive. Any time there		
CSUP-3.2		See Notes			
	service to install patches or software updates?		are product updates, including security updates,		
			they are distributed as a whole software update to		
			the monitor.		
CSUP-3.3	Does the device have the capability to receive remote	No	_		
	installation of patches or software updates?				
CSUP-3.4	Does the medical device manufacturer allow security	No	Software updates are all inclusive. Any time there		
	updates from any third-party manufacturers (e.g.,		are product updates, including security updates,		
	Microsoft) to be installed without approval from the		they are distributed as a whole software update to		
	manufacturer?		the monitor.		
CSUP-4	Does the device contain Anti-Malware Software? If	No	This device has a closed architecture by design and		
	yes, complete 4.1-4.4.		does not support the installation of anti-malware		
			software.		
CSUP-4.1	Does the device documentation provide instructions	N/A			
	for owner/operator installation of patches or	,			
	software updates?				
CSUP-4.2		21/2			
CSUP-4.2	Does the device require vendor or vendor-authorized	N/A	_		
	service to install patches or software updates?				
CSUP-4.3	Does the device have the capability to receive remote	N/A			
İ	installation of patches or software updates?				
CSUP-4.4		N/A			
	updates from any third-party manufacturers (e.g.,	,,,			
1					
	Microsoft) to be installed without approval from the				
	manufacturer?				
CSUP-5	Does the device contain Non-Operating System	No	_		
	commercial off-the-shelf components? If yes,				
	complete 5.1-5.4.				
CSUP-5.1		N/A			
0501 5.1	for owner/operator installation of patches or	,,,			
	software updates?				
CSUP-5.2	Does the device require vendor or vendor-authorized	N/A	_		
	service to install patches or software updates?				
CSUP-5.3	Does the device have the capability to receive remote	N/A	_		
	installation of patches or software updates?				
CSUP-5.4	Does the medical device manufacturer allow security	N/A			
	updates from any third-party manufacturers (e.g.,	,			
	Microsoft) to be installed without approval from the				
	manufacturer?				
CSUP-6		No	_		
	(e.g., asset management software, license				
	management)? If yes, please provide details or				
	refernce in notes and complete 6.1-6.4.				
CSUP-6.1	Does the device documentation provide instructions	N/A			
10. 0.1	for owner/operator installation of patches or		_		
İ					
	software updates?				
CSUP-6.2	Does the device require vendor or vendor-authorized	N/A	_		
	service to install patches or software updates?				
CSUP-6.3	Does the device have the capability to receive remote	N/A			
	installation of patches or software updates?				
CSUP-6.4	Does the medical device manufacturer allow security	N/A			
5551 0.4	updates from any third-party manufacturers (e.g.,	.,,,	_		
	· _ · _ · _ · _ · _ · _ · _ · _ · _				
	Microsoft) to be installed without approval from the				
	manufacturer?				
CSUP-7	Does the manufacturer notify the customer when	Yes	Third-party patches approved for installation are		
	updates are approved for installation?		posted on the Spacelabs website in an area		
			accessible to registered Spacelabs customers and		
			their supporting IT teams. In addition, customers		
1			can sign up to receive email notifications when third-		
			party patch test reports (i.e. approved patches) are posted.		

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CSUP-11.2

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Yes

Is there an update review cycle for the device?

CSUP-8	Does the device perform automatic installation of software updates?	No	Patches and updates are installed by qualified and authorized Spacelabs Field Service Engineers to each		
	software updates?		device.		
CSUP-9	Does the manufacturer have an approved list of third-	N/A	This device has a closed architecture by design and		
	party software that can be installed on the device?		does not support the installation of third-party software.		
CSUP-10	Can the owner/operator install manufacturer- approved third-party software on the device themselves?	No	-		
SUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?	Yes	The operating system is board specific and it is not possible to install unapproved software.		
CSUP-11	Does the manufacturer have a process in place to assess device vulnerabilities and updates?	Yes	-		
CSUP-11.1	Does the manufacturer provide customers with review and approval status of updates?	Yes	Communications for product updates, such as Customer Service Notices or Product Update Bulletins, are distributed to Spacelabs customer service personnel to communicate these updates to customers directly.		

	HEALTH DATA DE-IDENTIFICATION (DIDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to directly remove					
	information that allows identification of a person.					
DIDT-1		No		Section 5.6, DIDT	None	ISO 27038
	identify personally identifiable information?					
DIDT-1.1	Does the device support de-identification profiles	N/A	_	Section 5.6, DIDT	None	ISO 27038
	that comply with the DICOM standard for de-					
	identification?					
	DATA BACKUP AND DISASTER RECOVERY (DTBK))		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to recover after damage or destruction of					
	device data, hardware, software, or site					
	configuration information.			_		
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	_	Section 5.7, DTBK	CP-9	A.12.3.1
	restore the original device settings as provided by the					
	manufacturer?					
DTBK-3	Does the device have an integral data backup	See Notes	No: The patient monitor does not have an integral	Section 5.7, DTBK	CP-9	A.12.3.1
	capability to removable media?		data backup capability. However, the Spacelabs			
			clinical information system product (ISC-G2) can be			
			configured to collect and store up to 72 hours of the patient data acquired by the patient monitor.			
DTBK-4	Does the device have an integral data backup	See Notes	No: The patient monitor does not have an integral			
DIBK-4	capability to remote storage?	See Notes	data backup capability. However, the Spacelabs			
	capability to remote storage:		clinical information system product (ISC-G2) can be			
			configured to collect and store up to 72 hours of the			
			patient data acquired by the patient monitor.			
DTBK-5	Does the device have a backup capability for system	Yes	It is limited to monitor configuration cloning and			
	configuration information, patch restoration, and		restore for another spacelabs monitor.			
	software restoration?					
DTBK-6	Does the device provide the capability to check the	N/A		Section 5.7, DTBK	CP-9	A.12.3.1
	integrity and authenticity of a backup?			· ·		
,		•	·	•		
	EMERGENCY ACCESS (EMRG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	EMERGENCI ACCESS (LIVING)			IEC 1K 00001-2-2:2012	14131 3F 000-33 REV. 4	130 2/002:2013

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	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	N/A	the devices are in kiosk mode by default and always	ys Section 5.8, EMRG	SI-17	None
	(i.e. "break-glass") feature?		allow for access to real-time clinical data			
	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU) How the device ensures that the stored data on the			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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 mechanisms of stored health data (e.g., hash or digital signature)?	Yes	_	Section 5.9, IGAU	SC-28	A.18.1.3
IGAU-2	Does the device provide error/failure protection and 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)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to effectively prevent, detect					
MLDP-1	and remove malicious software (malware). Is the device capable of hosting executable software?	No		Section 5.10, MLDP		
MLDP-2	Does the device support the use of anti-malware software (or other anti-malware mechanism)?	No	This device has a closed architecture by design and does not support the installation of anti-malware		SI-3	A.12.2.1
MLDP-2.1	Provide details or reference in notes. Does the device include anti-malware software by default?	N/A	software.	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?	N/A	_	Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
MLDP-2.3	Does the device documentation allow the 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?	N/A	_	Section 5.10, MLDP	AU-2	None
MLDP-2.5	Does notification of malware detection occur in the device user interface?	N/A				
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 MLDP-3	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 Yes	This device has a closed architecture by design and	Section 5.10, MLDP	SI-2	A.12.6.1, A.14.2.2, A.14.2.3,
WLDP-5	cannot be installed on the device, are other compensating controls in place or available?	res	obes not support the installation of anti-malware software. Controls include product design considerations such running on a real-time operating system using a RISC-based processor and no user or admin access to the underlying operatin system environment. Deployment guidance for Spacelabs products includes deploying the Qube monitor on a segmented monitoring network.	d	3112	A.16.1.3
MLDP-4	Does the device employ application whitelisting that 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
MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	N/A	_	Section 5.10, MLDP	CM-7	A.12.5.1
MLDP-5.2	Can a host-based intrusion detection/prevention system be installed by the customer?	N/A	_	Section 5.10, MLDP		

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	NODE AUTHENTICATION (NAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to authenticate					
	communication partners/nodes.					
NAUT-1	Does the device provide/support any means of node	See Notes	Devices exchange configuration packets (a part of	Section 5.11, NAUT	SC-23	None
	authentication that assures both the sender and the		our proprietary network protocol). Monitors will not			
	recipient of data are known to each other and are		accept connections from or exchange information			
	authorized to receive transferred information (e.g.		with any device that hasn't provided its			
	Web APIs, SMTP, SNMP)?		configuration information (including but not limited			
			to node ID).			
NAUT-2	Are network access control mechanisms supported	No		Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3,
	(E.g., does the device have an internal firewall, or use					A.13.2.1,A.14.1.3
	a network connection white list)?					
NAUT-2.1	Is the firewall ruleset documented and available for	N/A	_			
	review?					
NAUT-3	Does the device use certificate-based network	Yes	The device permits the use of WPA2 security modes			
	connection authentication?		for wireless network encryption.			
•						

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

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.

	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?	Yes	
CONN-1.1.1	Does the device support Wi-Fi?	Yes	
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	No	_
	(e.g., custom RF controls, wireless detectors)?		
CONN-1.2	Does the device support physical connections?	Yes	_
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	Yes	
CONN-1.2.2	Does the device have available USB ports?	Yes	
CONN-1.2.3	Does the device require, use, or support removable	Yes	USB flash drive can be used when apply updates or
	memory devices?		downloading error log files
CONN-1.2.4	Does the device support other physical connectivity?	Yes	Other physiological devices, Flexports, PDL, Vitalink,
			external video displays, USB mouse, keyboard,
			barcode reader, Spacelabs provided custom USB
			printer and speciality parameters
CONN-2	Does the manufacturer provide a list of network	Yes	_
	ports and protocols that are used or may be used on		
	the device?	Yes	
CONN-3	Can the device communicate with other systems within the customer environment?	Yes	_
CONN-4	Can the device communicate with other systems	No	
	external to the customer environment (e.g., a service		
	host)?		
CONN-5	Does the device make or receive API calls?	No	_
CONN-6	Does the device require an internet connection for its	No	
	intended use?		
CONN-7	Does the device support Transport Layer Security	Yes	Wireless EAP-PEAPv0 uses TLS
	(TLS)?		
CONN-7.1	Is TLS configurable?	Yes	
CONN-8	Does the device provide operator control	No	Some settings, such as adjusting the alarm limits the
	functionality from a separate device (e.g.,		modules are using, can be set remotely from Xhibit
	telemedicine)?		central and a remote view running at another
			bedside. But full remote access to the monitor is not possible.

	PERSON AUTHENTICATION (PAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to configure the device to authenticate					
	users.			-		
PAUT-1	Does the device support and enforce unique IDs and	No	This device has an embedded operating system	Section 5.12, PAUT	IA-2	A.9.2.1
	passwords for all users and roles (including service		which does not allow for unique IDs.			
	accounts)?					
PAUT-1.1	Does the device enforce authentication of unique IDs	N/A	_	Section 5.12, PAUT	IA-2	A.9.2.1
	and passwords for all users and roles (including					
PAUT-2	service accounts)?	N/A		Section F 12 DALIT	IA-5	A.9.2.1
PAU1-2	Is the device configurable to authenticate users through an external authentication service (e.g., MS	N/A	_	Section 5.12, PAUT	IA-5	A.9.2.1
	Active Directory, NDS, LDAP, OAuth, etc.)?					
PAUT-3	Is the device configurable to lock out a user after a	N/A	+	Section 5.12, PAUT	IA-2	A.9.2.1
7,101 5	certain number of unsuccessful logon attempts?	,	_	500.011 5.122, 171.01		71131211
PAUT-4	Are all default accounts (e.g., technician service	Yes	All elevated permissions functions (used to setup or	Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9,
	accounts, administrator accounts) listed in the		configure the device) are not accessible in the	, ,	- (-/	A.15.1.2
	documentation?		unauthenticated Kiosk interface, but can be			
			accessed via shared accounts for clinical, biomed,			
			and service personnel.			
PAUT-5	Can all passwords be changed?	Yes	Passwords can be changed for the shared accounts.	Section 5.12, PAUT		
			I.e, the clinician and biomed accounts.			
PAUT-6	Is the device configurable to enforce creation of user	No	Clinical and biomed passwords can be changed to	Section 5.12, PAUT	IA-2	A.9.2.1
	account passwords that meet established		passwords which support an organization's			
	(organization specific) complexity rules?		complexity requirements.			
PAUT-7	Does the device support account passwords that	No	_			
	expire periodically?		<u> </u>			
PAUT-8	Does the device support multi-factor authentication?			Santian F 42 DALIT	IA-2	A.9.2.1
PAUT-9 PAUT-10	Does the device support single sign-on (SSO)? Can user accounts be disabled/locked on the device?	No No	This decise has an each added a constitution where	Section 5.12, PAUT	IA-2 IA-2	
PAU1-10	Can user accounts be disabled/locked on the device?	N/A	This device has an embedded operating system which does not allow for unique	Section 5.12, PAUT	IA-2	A.9.2.1
			usernames/passwords.			
PAUT-11	Does the device support biometric controls?	No	usernames/passwords.	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-12	Does the device support physical tokens (e.g. badge	No		3000011 3.12, 1 AO1	17.2	7.3.2.1
7.101 12	access)?		_			
PAUT-13	Does the device support group authentication (e.g.	Yes	All elevated permissions functions (used to setup or			
	hospital teams)?		configure the device) are not accessible in the			
			unauthenticated Kiosk interface, but can be			
			accessed via shared accounts for clinical, biomed,			
			and service personnel.			
PAUT-14	Does the application or device store or manage	Yes	_			
	authentication credentials?					
PAUT-14.1	Are credentials stored using a secure method?	Yes	_			
	DINCICAL LOCKS (DLOK)					
	PHYSICAL LOCKS (PLOK)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Physical locks can prevent unauthorized users with					
	physical access to the device from compromising the					
	integrity and confidentiality of personally identifiable					
	information stored on the device or on removable media					
PLOK-1	Is the device software only? If yes, answer "N/A" to	No		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
r LOK-1	remaining questions in this section.	140	_	Section 5.13, FLOR	FL-3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-2	Are all device components maintaining personally	Yes		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	identifiable information (other than removable			555557.525, 1257	. 2 5(.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	media) physically secure (i.e., cannot remove without	t e				
	tools)?					
PLOK-3	Are all device components maintaining personally	N/A		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	identifiable information (other than removable			· ·	. ,	
	media) physically secured behind an individually					
	keyed locking device?					

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PLOK-4	Does the device have an option for the customer to attach a physical lock to restrict access to removable media?	No	_		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP) Manufacturer's plans for security support of third-				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
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	Yes	The Software Development Plan follows IEC 62	2304	Section 5.14, RDMP	CM-2	None
RDMP-2	development? Does the manufacturer evaluate third-party applications and software components included in	Yes	_		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-3	the device for secure development practices? Does the manufacturer maintain a web page or other source of information on software support dates and	Yes	_		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-4	updates? 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
	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				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
CDOM 4	organization. This section supports controls in the RDMP section.	[v	I				
SBOM-1 SBOM-2	Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components?	Yes Yes	_				
SBOM-2.1 SBOM-2.2	Are the software components identified? Are the developers/manufacturers of the software components identified?	Yes Yes	_				
SBOM-2.3	Are the major version numbers of the software components identified?	Yes	_				
SBOM-2.4 SBOM-3	Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software components installed on the device?	No No					
SBOM-4	Is there an update process for the SBoM?	Yes	_				
	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 CM-7	ISO 27002:2013 A.12.5.1*
SAHD-1	Is the device hardened in accordance with any industry standards?	Yes	_		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
SAHD-2	Has the device received any cybersecurity certifications?	Yes	_		Section 5.15, SAHD	SA-12(10)	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
SAHD-3	Does the device employ any mechanisms for software integrity checking	Yes	_				
SAHD-3.1	Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer- authorized?	Yes	_				
SAHD-3.2	Does the device employ any mechanism (e.g., release- specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer- authorized updates?		_		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2

SAHD-4	Can the owner/operator perform software integrity	Yes	_	Section 5.15, SAHD	AC-3	A.6.2.2, A.9.1.2, A.9.4.1,
	checks (i.e., verify that the system has not been modified or tampered with)?					A.9.4.4, A.9.4.5, A.13.1.1,
SAHD-5	Is the system configurable to allow the	Yes		Section 5.15, SAHD	CM-7	A.14.1.2, A.14.1.3, A.18.1.3 A.12.5.1*
	implementation of file-level, patient level, or other		_	3333373327, 37372	2	
	types of access controls?					
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	No		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
	disabled by the manufacturer at system delivery?					
SAHD-6.1	Are any system or user accounts configurable by the	N/A		Section 5.15, SAHD	CM-7	A.12.5.1*
	end user after initial configuration?					
SAHD-6.2	Does this include restricting certain system or user	N/A		Section 5.15, SAHD	CM-7	A.12.5.1*
	accounts, such as service technicians, to least					
	privileged access?					
SAHD-7	Are all shared resources (e.g., file shares) which are	Yes	_	Section 5.15, SAHD	CM-7	A.12.5.1*
	not required for the intended use of the device					
	disabled?					
SAHD-8	Are all communication ports and protocols that are	Yes	_	Section 5.15, SAHD	SA-18	None
	not required for the intended use of the device					
	disabled?					
SAHD-9	Are all services (e.g., telnet, file transfer protocol	Yes	_	Section 5.15, SAHD	CM-6	None
	[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-		_	Section 5.15, SAHD	SI-2	A.12.6.1, A.14.2.2, A.14.2.3,
	included applications, e.g., MS Internet Explorer, etc.					A.16.1.3
	which are not required for the intended use of the					
	device deleted/disabled?					
SAHD-11	Can the device prohibit boot from uncontrolled or	Yes				
	removable media (i.e., a source other than an interna					
54115.43	drive or memory component)?					
SAHD-12	Can unauthorized software or hardware be installed	No	_			
SAHD-13	on the device without the use of physical tools?	A1 -				
SAHD-13	Does the product documentation include information	1 NO				
SAHD-14	on operational network security scanning by users?	Yes				
SAHD-14	Can the device be hardened beyond the default	Yes	_			
SAHD-14.1	provided state? Are instructions available from vendor for increased	Yes		-		
3AHD-14.1	hardening?	ies				
SHAD-15	Can the system prevent access to BIOS or other	Yes		-		
2UMD-12	bootloaders during boot?	ies				
SAHD-16	Have additional hardening methods not included in	No		-		
2V11D-10	2.3.19 been used to harden the device?	NO	_			
	2.3.13 been used to natural the device!					

	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
SGUD-1	Does the device include security documentation for	Yes	At request, Spacelabs can provide manuals and	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
	the owner/operator?		service documentation such as Security Manuals.			
SGUD-2	Does the device have the capability, and provide	Yes	_	Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2,
	instructions, for the permanent deletion of data from					A.11.2.7
	the device or media?					
SGUD-3	Are all access accounts documented?	Yes	_	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	Can the owner/operator manage password control	Yes	_			
	for all accounts?					
SGUD-4	Does the product include documentation on	Yes				
	recommended compensating controls for the device?					

	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						
STCF-1	stored on the device or removable media. Can the device encrypt data at rest?	No	This device cannot be encrypted during normal	Section 5.17, STCF	SC-28	A.8.2.3	
3101-1	can the device entrypt data at rest:	140	operations. The bedside monitor must be connected	3600013.17, 3101	30-28	A.8.2.3	
			for the data to be viewable. Once a patient has been				
			discharged from the Qube monitor, that patient				
			information will be removed from the device.				
STCF-1.1	Is all data encrypted or otherwise protected?	N/A					
STCF-1.2	Is the data encryption capability configured by	N/A					
	default?						
STCF-1.3	Are instructions available to the customer to	N/A					
	configure encryption?						
STCF-2	Can the encryption keys be changed or configured?	N/A		Section 5.17, STCF	SC-28	A.8.2.3	
STCF-3	Is the data stored in a database located on the	N/A	This device does not have a database of it's own.				
	device?		Qube monitors communicates with the ICS Monitor				
			Loader to send the data to the database and even to				
			the hospital's electronic medical records database.				
STCF-4	Is the data stored in a database external to the	Yes	This device does not have a database of it's own.				
	device?		Qube monitors communicates with the ICS Monitor				
			Loader to send the data to the database and even to				
			the hospital's electronic medical records database.				
	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	No	_	Section 5.18, TXCF	CM-7	A.12.5.1	
	transmitted only via a point-to-point dedicated						
TXCF-2	Is personally identifiable information encrypted prior	No	_	Section 5.18, TXCF	CM-7	A.12.5.1	
	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	See Notes	Spacelabs provides networking deployment guide.	Section 5.18, TXCF	CM-7	A.12.5.1	
	restricted to a fixed list of network destinations?						
TXCF-4	Are connections limited to authenticated systems?	Yes	Monitors are not open to communication with	Section 5.18, TXCF	CM-7	A.12.5.1	
			systems other than Spacelabs Products. The				
			Monitors follows Spacelabs specific protocols to				
			communicate with other network devices.				
TXCF-5	Are secure transmission methods	N/A	Qube monitors can communicate with Xhibit Central				
	supported/implemented (DICOM, HL7, IEEE 11073)?		Stations, so that nurses have multiple people				
			watching over the patients and their vital signs.				
			Qube monitors can communicate with the ICS				
			Monitor Loader to send the data to the database				
			and even to the hospital's electronic medical				
	TRANSMISSION INTEGRITY (TXIG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
	The ability of the device to ensure the integrity of			00001 2 2.2012		.55 2, 552.2515	
	transmitted data.						
TXIG-1	Does the device support any mechanism (e.g., digital	No		Section 5.19, TXIG	SC-8	A.8.2.3, A.13.1.1, A.13.2.1,	
I VIO-T	signatures) intended to ensure data is not modified	110	_	Section 3.13, IAIG	30-0	A.13.2.3, A.14.1.2, A.14.1.3	
	during transmission?					A.13.2.3, A.14.1.2, A.14.1.3	
TXIG-2	·	No					
IAIG-2	Does the device include multiple sub-components connected by external cables?	INU	-				
	connected by external cables?						
	REMOTE SERVICE (RMOT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
				ILC 11 00001-2-2.2012	14131 3F 000-33 Nev. 4	130 27002.2013	

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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	_	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	, , ,	N/A			71131211,7112112
	initiative remote service sessions for device analysis		_		
	or repair?				
RMOT-1.2	Is there an indicator for an enabled and active remote	N/A	_		
	session?				
RMOT-1.3	Can patient data be accessed or viewed from the	N/A	_	AC-17	A.6.2.1, A.6.2.2, A.13.1.1,
	device during the remote session?				A.13.2.1, A.14.1.2
RMOT-2	Does the device permit or use remote service	No	_		
	connections for predictive maintenance data?				
RMOT-3	Does the device have any other remotely accessible	No	Though Spacelabs monitors do support some		
	functionality (e.g. software updates, remote		remote features such as the ability to adjust		
	training)?		alarming from an Xhibit Central station, full remote		
			service capabilities such as software updates or		
			remote access are not supported.		

OTHER SECURITY CONSIDERATIONS (OTHR) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

NONE

Notes:

Note 1 Example note. Please keep individual notes to one cell. Please use separate notes for separate

information