

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

Spacelabs Healthcare 91393 091-0325-06 Rev. A Sep-22

Question ID	Question	See note
DOC-1	Manufacturer Name	Spacelabs Healthcare
DOC-2	Device Description	Xprezzon Version 4.0.0
DOC-3	Device Model	91393
DOC-4	Document ID	091-0325-06 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 environment:	The Spacelabs Xprezzon monitor is a high acuity modular monitor which connects to the command module at the bedside to display and process patient parameters (vitals) such as electrocardiogram (ECG), oxygen saturation (SPO2), non-invasive blood pressure (NIBP), invasive blood pressure, and invasive temperature. Xprezzon bedside monitors can communicate with Xhibit Central Stations, so that nurses have multiple people watching over the patients and their vital signs. Xprezzon bedside monitors can communicate with the ICS Monitor Loader to send the data to the database and even to the hospital's electronic medical records database.
DOC-7	Document Release Date	Sep-22
DOC-8	Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program for this device?	Yes We publish bulletins for major vulnerabilities and threats as they emerge and we assess them. They are found on our website <a href="https://www.spacelabshealthcare.com/products/security/security-advisories-and-archives/">https://www.spacelabshealthcare.com/products/security/security-advisories-and-archives/</a>
DOC-9	ISAO: Is the manufacturer part of an Information Sharing and Analysis Organization?	No
DOC-10	Diagram: Is a network or data flow diagram available that indicates connections to other system components or expected external resources?	Yes We have network diagrams of our PMC suite with Xprezzon as part of those models. This is not published and can be made available on request.
DOC-11	SaMD: Is the device Software as a Medical Device (i.e. software-only, no hardware)?	No
DOC-11.1	Does the SaMD contain an operating system?	N/A
DOC-11.2	Does the SaMD rely on an owner/operator provided operating system?	N/A
DOC-11.3	Is the SaMD hosted by the manufacturer?	N/A
DOC-11.4	Is the SaMD hosted by the customer?	N/A

Yes, No, N/A, or See Note Note #

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

**MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION**

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

MPII-1	Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?	Yes	—
MPII-2	Does the device maintain personally identifiable information?	Yes	—

AR-2 A.15.1.4  
AR-2 A.15.1.4

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MPII-2.1	Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)?	Yes	—		
MPII-2.2	Does the device store personally identifiable information persistently on internal media?	See Notes	The patient monitor stores private data in 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 device's non-volatile memory until explicitly erased?	No	—		
MPII-2.4	Does the device store personally identifiable information in a database?	No	—		
MPII-2.5	Does the device allow configuration to automatically delete local personally identifiable information after it is stored to a long term solution?	N/A	Patient demographic data is removed whenever the patient is discharged from the monitor.	AR-2	A.15.1.4
MPII-2.6	Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?	Yes	The patient monitor integrated with other Spacelabs products can import or export private data. The patient monitor as a standalone product cannot import or export private data.	AR-2	A.15.1.4
MPII-2.7	Does the device maintain personally identifiable information when powered off, or during power service interruptions?	See Notes	The patient monitor stores private data in 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.	AR-2	A.15.1.4
MPII-2.8	Does the device allow the internal media to be removed by a service technician (e.g., for separate destruction or customer retention)?	Yes	The internal media does not store PHI.		
MPII-2.9	Does the device allow personally identifiable information records be stored in a separate location from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote storage location)?	No		AR-2	A.15.1.4
MPII-3	Does the device have mechanisms used for the transmitting, importing/exporting of personally identifiable information?	Yes	—	AR-2	A.15.1.4
MPII-3.1	Does the device display personally identifiable information (e.g., video display, etc.)?	Yes	—	AR-2	A.15.1.4
MPII-3.2	Does the device generate hardcopy reports or images containing personally identifiable information?	Yes	Monitors can have an optional strip printer for printing waveform data and can include the patient's name.	AR-2	A.15.1.4
MPII-3.3	Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable-HDD, USB memory, DVD-R/RW, CD-R/RW, tape, CF/SD card, memory stick, etc.)?	No	—	AR-2	A.15.1.4
MPII-3.4	Does the device transmit/receive or import/export personally identifiable information via dedicated cable connection (e.g., RS-232, RS-423, USB, FireWire, etc.)?	Yes	The Xprezzon monitor is able to receive potentially identifiable information from devices connected over RS-232 and/or SDLC ports. This is dependent upon the connected third-party device. Additionally, patient band scanners can be plugged into the monitor via USB to scan patient identifying bands for monitor admission.	AR-2	A.15.1.4
MPII-3.5	Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)?	Yes	Xprezzon can interface to another Spacelabs patient monitor through a wired Ethernet 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 instances the possibility of transmitting private data exists.	AR-2	A.15.1.4

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MPII-3.6	Does the device transmit/receive personally identifiable information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared, cellular, etc.)?	No			AR-2	A.15.1.4
MPII-3.7	Does the device transmit/receive personally identifiable information over an external network (e.g., Internet)?	No	—		AR-2	A.15.1.4
MPII-3.8	Does the device import personally identifiable information via scanning a document?	No				
MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol?	Yes		Xprezzon uses Spacelabs proprietary TCP and UDP protocols to transmit/recieve information between 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 transmit, import or export personally identifiable information?	Yes		Monitors can use Data Shuttle to import PII from other monitors.	AR-2	A.15.1.4

Management of Private Data notes:

AR-2 A.15.1.4

**AUTOMATIC LOGOFF (ALOF)**

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

IEC TR 80001-2-2:2012

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ALOF-1	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password protected screen saver)?	Yes		Inactivity log off feature is present.	Section 5.1, ALOF	AC-12	None
ALOF-2	Is the length of inactivity time before auto-logoff/screen lock user or administrator	No		Not configurable	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9

**AUDIT CONTROLS (AUDT)**

*The ability to reliably audit activity on the device.*

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AUDT-1	Can the medical device create additional audit logs or reports beyond standard operating system logs?	Yes		The monitor is capable of capturing logs for IT configuration changes, successful/failed access to Privileged Access mode and preconfigured shared accounts (Biomed/Service/Clinical), and information pertaining to monitor statefulness such as network connectivity.	Section 5.2, AUDT	AU-1	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2
AUDT-1.1	Does the audit log record a USER ID?	Yes		Audit logs will capture the user type (Biomed/Service/Clinical/System) as part of the logging message.			
AUDT-1.2	Does other personally identifiable information exist in the audit trail?	No			Section 5.2, AUDT	AU-2	None
AUDT-2	Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log:	Yes		—	Section 5.2, AUDT	AU-2	None
AUDT-2.1	Successful login/logout attempts?	See Notes		Attempts at accessing monitor Prilveged Access mode (which requires a password such as for the Biomed and Service account) are recorded.	Section 5.2, AUDT	AU-2	None
AUDT-2.2	Unsuccessful login/logout attempts?	See Notes		Attempts at accessing monitor Prilveged Access mode (which requires a password such as for the Biomed and Service account) are recorded.	Section 5.2, AUDT	AU-2	None
AUDT-2.3	Modification of user privileges?	No		Account permissions are static on the monitor for each account (Biomed/Service/Clinical/kiosk mode).	Section 5.2, AUDT	AU-2	None
AUDT-2.4	Creation/modification/deletion of users?	No		Account permissions are static on the monitor for each account (Biomed/Service/Clinical/kiosk mode).	Section 5.2, AUDT	AU-2	None
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 configurations is logged.	Section 5.2, AUDT	AU-2	None





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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?	N/A	—			
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	—			
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 reference 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	Third-party patches approved for installation are posted on the Spacelabs website in an area accessible to registered Spacelabs customers and their supporting IT teams. In addition, customers can sign up to receive email notifications when third-party patch test reports (i.e. approved patches) are posted.			
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 device.			
CSUP-9	Does the manufacturer have an approved list of third-party software that can be installed on the device?	N/A	This device has a closed architecture by design and 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	—			
CSUP-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.			

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CSUP-11.2	Is there an update review cycle for the device?	Yes	
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**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-identify personally identifiable information?	No	—
DIDT-1.1	Does the device support de-identification profiles that comply with the DICOM standard for de-identification?	N/A	—

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ISO 27002:2013

Section 5.6, DIDT

None

ISO 27038

Section 5.6, DIDT

None

ISO 27038

**DATA BACKUP AND DISASTER RECOVERY (DTBK)**

*The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.*

DTBK-1	Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?	No	—
DTBK-2	Does the device have a "factory reset" function to restore the original device settings as provided by the manufacturer?	Yes	—
DTBK-3	Does the device have an integral data backup capability to removable media?	See Notes	No: The patient monitor does not have an integral 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 capability to remote storage?	See Notes	No: The patient monitor does not have an integral 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-5	Does the device have a backup capability for system configuration information, patch restoration, and software restoration?	Yes	It is limited to monitor configuration cloning and restore for another spacelabs monitor.
DTBK-6	Does the device provide the capability to check the integrity and authenticity of a backup?	N/A	—

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Section 5.7, DTBK

CP-9

A.12.3.1

Section 5.7, DTBK

CP-9

A.12.3.1

Section 5.7, DTBK

CP-9

A.12.3.1

**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?	N/A	The devices are in kiosk mode by default and always allow for access to real-time clinical data.
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Section 5.8, EMRG

SI-17

None

**HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)**

*How the device ensures that the stored data on the device has not been altered or destroyed in a non-authorized manner and is from the originator.*

IGAU-1	Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)?	Yes	—
IGAU-2	Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., RAID-5)?	N/A	—

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Section 5.9, IGAU

SC-28

A.18.1.3

Section 5.9, IGAU

SC-28

A.18.1.3

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**MALWARE DETECTION/PROTECTION (MLDP)**

*The ability of the device to effectively prevent, detect and remove malicious software (malware).*

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)? Provide details or reference in notes.	No	This device has a closed architecture by design and does not support the installation of anti-malware software.
MLDP-2.1	Does the device include anti-malware software by default?	N/A	—
MLDP-2.2	Does the device have anti-malware software available as an option?	N/A	—
MLDP-2.3	Does the device documentation allow the owner/operator to install or update anti-malware software?	N/A	—
MLDP-2.4	Can the device owner/operator independently (re-)configure anti-malware settings?	N/A	—
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	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 cannot be installed on the device, are other compensating controls in place or available?	Yes	This device has a closed architecture by design and does 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 operating system environment. Deployment guidance for Spacelabs products includes deploying the Xprezzon monitor on a segmented monitoring network.
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	—
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	N/A	—
MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	N/A	—
MLDP-5.2	Can a host-based intrusion detection/prevention system be installed by the customer?	N/A	—

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Section 5.10, MLDP Section 5.10, MLDP	SI-3	A.12.2.1
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
Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
Section 5.10, MLDP	CP-10	A.17.1.2
Section 5.10, MLDP	AU-2	None
Section 5.10, MLDP	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
Section 5.10, MLDP	SI-3	A.12.2.1
Section 5.10, MLDP	SI-4	None
Section 5.10, MLDP	CM-7	A.12.5.1
Section 5.10, MLDP		

**NODE AUTHENTICATION (NAUT)**

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

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)?	See Notes	Devices exchange configuration packets (a part of our proprietary network protocol). Monitors will not accept connections from or exchange information with any device that hasn't provided its configuration information (including but not limited to node ID).
NAUT-2	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)?	No	—
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	—

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Section 5.11, NAUT	SC-23	None
Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3, A.13.2.1, A.14.1.3



**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.*

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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 connectivity (e.g. LTE, Zigbee, proprietary)?	No	—
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?	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 memory devices?	Yes	USB flash drive can be used when apply updates or 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 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 external to the customer environment (e.g., a service host)?	No	—
CONN-5	Does the device make or receive API calls?	No	—
CONN-6	Does the device require an internet connection for its intended use?	No	—
CONN-7	Does the device support Transport Layer Security (TLS)?	No	—
CONN-7.1	Is TLS configurable?	N/A	—
CONN-8	Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	No	Some settings, such as adjusting the alarm limits the modules are using, can be set remotely from Xhibit central and a remote view running at another bedside. But full remote access to the monitor is not possible.

**PERSON AUTHENTICATION (PAUT)**

*The ability to configure the device to authenticate users.*

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PAUT-1	Does the device support and enforce unique IDs and passwords for all users and roles (including service accounts)?	No	This device has an embedded operating system which does not allow for unique IDs.
PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)?	N/A	—
PAUT-2	Is the device configurable to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	N/A	—
PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	N/A	—

Section 5.12, PAUT

IA-2

A.9.2.1

Section 5.12, PAUT

IA-2

A.9.2.1

Section 5.12, PAUT

IA-5

A.9.2.1

Section 5.12, PAUT

IA-2

A.9.2.1

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PAUT-4	Are all default accounts (e.g., technician service accounts, administrator accounts) listed in the documentation?	Yes	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.
PAUT-5	Can all passwords be changed?	Yes	Passwords can be changed for the shared accounts. I.e, the clinician and biomed accounts.
PAUT-6	Is the device configurable to enforce creation of user account passwords that meet established (organization specific) complexity rules?	No	Clinical and biomed passwords can be changed to passwords which support an organization's complexity requirements.
PAUT-7	Does the device support account passwords that expire periodically?	No	—
PAUT-8	Does the device support multi-factor authentication?	No	—
PAUT-9	Does the device support single sign-on (SSO)?	No	—
PAUT-10	Can user accounts be disabled/locked on the device?	N/A	This device has an embedded operating system which does not allow for unique usernames/passwords.
PAUT-11	Does the device support biometric controls?	No	—
PAUT-12	Does the device support physical tokens (e.g. badge access)?	No	—
PAUT-13	Does the device support group authentication (e.g. hospital teams)?	Yes	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.
PAUT-14	Does the application or device store or manage authentication credentials?	Yes	—
PAUT-14.1	Are credentials stored using a secure method?	Yes	—

Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9, A.15.1.2
Section 5.12, PAUT	IA-2	A.9.2.1
Section 5.12, PAUT Section 5.12, PAUT	IA-2 IA-2	A.9.2.1 A.9.2.1
Section 5.12, PAUT	IA-2	A.9.2.1

**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*

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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 identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)?	Yes	—
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?	No	—

Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3

**ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)**

*Manufacturer's plans for security support of third-party components within the device's life cycle.*

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RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	The Software Development Plan follows IEC 62304
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices?	Yes	—

Section 5.14, RDMP	CM-2	None
Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2

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RDMP-3	Does the manufacturer maintain a web page or other source of information on software support dates and updates?	Yes	—
RDMP-4	Does the manufacturer have a plan for managing third-party component end-of-life?	Yes	—

Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2

**SOFTWARE BILL OF MATERIALS (SBOM)**

*A Software Bill of Material (SBOM) lists all the software components that are incorporated into the device being described for the purpose of operational security planning by the healthcare delivery organization. This section supports controls in the RDMP section.*

SBOM-1	Is the SBOM for this product available?	Yes	—
SBOM-2	Does the SBOM follow a standard or common method in describing software components?	Yes	—
SBOM-2.1	Are the software components identified?	Yes	—
SBOM-2.2	Are the developers/manufacturers of the software components identified?	Yes	—
SBOM-2.3	Are the major version numbers of the software components identified?	Yes	—
SBOM-2.4	Are any additional descriptive elements identified?	No	—
SBOM-3	Does the device include a command or process method available to generate a list of software components installed on the device?	No	—
SBOM-4	Is there an update process for the SBOM?	Yes	—

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**SYSTEM AND APPLICATION HARDENING (SAHD)**

*The device's inherent resistance to cyber attacks and malware.*

SAHD-1	Is the device hardened in accordance with any industry standards?	Yes	—
SAHD-2	Has the device received any cybersecurity certifications?	Yes	—
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?	Yes	—
SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)?	Yes	—
SAHD-5	Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls?	Yes	—
SAHD-5.1	Does the device provide role-based access controls?	Yes	—
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery?	No	—
SAHD-6.1	Are any system or user accounts configurable by the end user after initial configuration?	N/A	—
SAHD-6.2	Does this include restricting certain system or user accounts, such as service technicians, to least privileged access?	N/A	—
SAHD-7	Are all shared resources (e.g., file shares) which are not required for the intended use of the device disabled?	Yes	—

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Section 5.15, SAHD	CM-7	A.12.5.1*
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
Section 5.15, SAHD	SA-12(10)	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
Section 5.15, SAHD	AC-3	A.6.2.2, A.9.1.2, A.9.4.1, A.9.4.4, A.9.4.5, A.13.1.1, A.14.1.2, A.14.1.3, A.18.1.3
Section 5.15, SAHD	CM-7	A.12.5.1*
Section 5.15, SAHD	CM-7	A.12.5.1*
Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
Section 5.15, SAHD	CM-7	A.12.5.1*
Section 5.15, SAHD	CM-7	A.12.5.1*
Section 5.15, SAHD	CM-7	A.12.5.1*

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SAHD-8	Are all communication ports and protocols that are not required for the intended use of the device disabled?	Yes	—
SAHD-9	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device deleted/disabled?	Yes	—
SAHD-10	Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of the device deleted/disabled?	Yes	—
SAHD-11	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Yes	—
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	No	—
SAHD-13	Does the product documentation include information on operational network security scanning by users?	No	—
SAHD-14	Can the device be hardened beyond the default provided state?	Yes	—
SAHD-14.1	Are instructions available from vendor for increased hardening?	Yes	—
SHAD-15	Can the system prevent access to BIOS or other bootloaders during boot?	Yes	—
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	—

Section 5.15, SAHD	SA-18	None
Section 5.15, SAHD	CM-6	None
Section 5.15, SAHD	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3

**SECURITY GUIDANCE (SGUD)**

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

SGUD-1	Does the device include security documentation for the owner/operator?	Yes	At request, Spacelabs can provide manuals and service documentation such as Security Manuals.
SGUD-2	Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media?	Yes	—
SGUD-3	Are all access accounts documented?	Yes	—
SGUD-3.1	Can the owner/operator manage password control for all accounts?	Yes	—
SGUD-4	Does the product include documentation on recommended compensating controls for the device?	Yes	—

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Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7
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

**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.*

STCF-1	Can the device encrypt data at rest?	No	This device cannot be encrypted during normal operations. The bedside monitor must be connected for the data to be viewable. Once a patient has been discharged from the Xprezzon monitor, that patient information will be removed
STCF-1.1	Is all data encrypted or otherwise protected?	N/A	
STCF-1.2	Is the data encryption capability configured by default?	N/A	
STCF-1.3	Are instructions available to the customer to configure encryption?	N/A	
STCF-2	Can the encryption keys be changed or configured?	N/A	—

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Section 5.17, STCF	SC-28	A.8.2.3
Section 5.17, STCF	SC-28	A.8.2.3

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STCF-3	Is the data stored in a database located on the device?	N/A	This device does not have a database of its own. Xprezzon 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 device?	Yes	This device does not have a database of its own. Xprezzon 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)**

*The ability of the device to ensure the confidentiality of transmitted personally identifiable information.*

TXCF-1	Can personally identifiable information be transmitted only via a point-to-point dedicated	No	—
TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media?	No	—
TXCF-2.1	If data is not encrypted by default, can the customer configure encryption options?	N/A	—
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	See Notes	Spacelabs provides networking deployment guide.
TXCF-4	Are connections limited to authenticated systems?	Yes	Monitors are not open to communication with systems other than Spacelabs Products. The Monitors follows Spacelabs specific protocols to communicate with other network devices.
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	N/A	Xprezzon monitors can communicate with Xhibit Central Stations, so that nurses have multiple people watching over the patients and their vital signs. Xprezzon monitors can communicate with the ICS Monitor Loader to send the data to the database and even to the hospital's electronic medical records database.

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Section 5.18, TXCF

CM-7

A.12.5.1

Section 5.18, TXCF

CM-7

A.12.5.1

Section 5.18, TXCF

CM-7

A.12.5.1

Section 5.18, TXCF

CM-7

A.12.5.1

**TRANSMISSION INTEGRITY (TXIG)**

*The ability of the device to ensure the integrity of transmitted data.*

TXIG-1	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission?	No	—
TXIG-2	Does the device include multiple sub-components connected by external cables?	No	—

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Section 5.19, TXIG

SC-8

A.8.2.3, A.13.1.1, A.13.2.1, A.13.2.3, A.14.1.2, A.14.1.3

**REMOTE SERVICE (RMOT)**

*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 initiate 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?	No	—

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AC-17

A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2

AC-17

A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2

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RMOT-3	Does the device have any other remotely accessible functionality (e.g. software updates, remote training)?	No	Though Spacelabs monitors do support some remote features such as the ability to adjust alarming from an Xhibit Central station, full remote service capabilities such as software updates or remote access are not supported.			
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**OTHER SECURITY CONSIDERATIONS (OTHR)**

*NONE*

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**Notes:**

Note 1

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