

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Spacelabs Healthcare 92842, 92843

091-0357-07 Rev A

May-24

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	Intensys Clinical Suite (ICS) HL7 Outbound Vital Signs Interface and HL7 Inbound ADT Interface Version 5.6.1			
DOC-3	Device Model	92842, 92843			
DOC-4	Document ID	091-0357-07 Rev A			
DOC-5	Manufacturer Contact Information	Spacelabs Healthcare, 35301 SE Center Street, Snoqualmie, WA 98065			
DOC-6	Intended use of device in network-connected environment:	ICS HL7 service helps us to send and receive data with third party HDO systems.			
DOC-7	Document Release Date	May-24			
DOC-8	Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program for this device?	Yes			
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?	No			
DOC-11	SaMD: Is the device Software as a Medical Device (i.e. software-only, no hardware)?	Yes			
DOC-11.1	Does the SaMD contain an operating system?	No			
DOC-11.2	Does the SaMD rely on an owner/operator provided operating system?	Yes			
DOC-11.3	Is the SaMD hosted by the manufacturer?	No			
DOC-11.4	Is the SaMD hosted by the customer?	Yes			

Yes, No,
N/A, or
See Note

Note #

MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION

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			
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?	Yes			
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?	Yes			
MPII-2.5	Does the device allow configuration to automatically delete local personally identifiable information after it is stored to a long term solution?	No			
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			
MPII-2.7	Does the device maintain personally identifiable information when powered off, or during power service interruptions?	No			

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

AR-2

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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)?	N/A	—
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)?	Yes	The information is stored in the ICS database, which is a different component within ICS.
MPII-3	Does the device have mechanisms used for the transmitting, importing/exporting of personally identifiable information?	Yes	—
MPII-3.1	Does the device display personally identifiable information (e.g., video display, etc.)?	No	—
MPII-3.2	Does the device generate hardcopy reports or images containing personally identifiable information?	No	—
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	—
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,	No	—
MPII-3.5	Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)?	Yes	—
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	—
MPII-3.7	Does the device transmit/receive personally identifiable information over an external network (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 identifiable information via a proprietary protocol?	No	The outbound connection to EMR is via HL7 messaging protocol.
MPII-3.10	Does the device use any other mechanism to transmit, import or export personally identifiable information?	No	—

Management of Private Data notes:

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

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)?	No	—
ALOF-2	Is the length of inactivity time before auto-logoff/screen lock user or administrator configurable?	N/A	—

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

Section 5.1, ALOF AC-12 None
 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.

AUDT-1	Can the medical device create additional audit logs or reports beyond standard operating system logs?	Yes	—
AUDT-1.1	Does the audit log record a USER ID?	Yes	ID of the user who is logged in ICS Admin is captured in audit trail.
AUDT-1.2	Does other personally identifiable information exist in the audit trail?	Yes	Employee User ID information is captured in audit trail.
AUDT-2	Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log:	Yes	—

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

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
 Section 5.2, AUDT AU-2 None
 Section 5.2, AUDT AU-2 None

AUDT-2.1	Successful login/logout attempts?	Yes	
AUDT-2.2	Unsuccessful login/logout attempts?	No	
AUDT-2.3	Modification of user privileges?	No	
AUDT-2.4	Creation/modification/deletion of users?	No	
AUDT-2.5	Presentation of clinical or PII data (e.g. display, print)?	No	
AUDT-2.6	Creation/modification/deletion of data?	No	
AUDT-2.7	Import/export of data from removable media (e.g. USB drive, external hard drive, DVD)?	N/A	
AUDT-2.8	Receipt/transmission of data or commands over a network or point-to-point connection?	Yes	
AUDT-2.8.1	Remote or on-site support?	No	
AUDT-2.8.2	Application Programming Interface (API) and similar activity?	No	
AUDT-2.9	Emergency access?	No	
AUDT-2.10	Other events (e.g., software updates)?	N/A	
AUDT-2.11	Is the audit capability documented in more detail?	No	
AUDT-3	Can the owner/operator define or select which events are recorded in the audit log?	No	
AUDT-4	Is a list of data attributes that are captured in the audit log for an event available?	No	
AUDT-4.1	Does the audit log record date/time?	Yes	
AUDT-4.1.1	Can date and time be synchronized by Network Time Protocol (NTP) or equivalent time source?	Yes	
AUDT-5	Can audit log content be exported?	Yes	Audit logs can be forwarded to windows event logging and can be exported from the machine where ICS is hosted.
AUDT-5.1	Via physical media?	No	
AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM?	No	
AUDT-5.3	Via Other communications (e.g., external service device, mobile applications)?	No	
AUDT-5.4	Are audit logs encrypted in transit or on storage media?	No	
AUDT-6	Can audit logs be monitored/reviewed by owner/operator?	Yes	
AUDT-7	Are audit logs protected from modification?	N/A	
AUDT-7.1	Are audit logs protected from access?	Yes	
AUDT-8	Can audit logs be analyzed by the device?	No	

Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None
Section 5.2, AUDT	AU-2	None

AUTHORIZATION (AUTH)

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

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

AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other mechanism?	No	
AUTH-1.1	Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	Yes	
AUTH-1.2	Can the customer push group policies to the device (e.g., Active Directory)?	Yes	
AUTH-1.3	Are any special groups, organizational units, or group policies required?	No	
AUTH-2	Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	Yes	
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)?	Yes	
AUTH-4	Does the device authorize or control all API access requests?	N/A	
AUTH-5	Does the device run in a restricted access mode, or 'kiosk mode', by default?	No	

Section 5.3, AUTH	IA-2	A.9.2.1
Section 5.3, AUTH	IA-2	A.9.2.1
Section 5.3, AUTH	IA-2	A.9.2.1
Section 5.3, AUTH	IA-2	A.9.2.1
Section 5.3, AUTH	IA-2	A.9.2.1
Section 5.3, AUTH	IA-2	A.9.2.1
Section 5.3, AUTH	IA-2	A.9.2.1

CYBER SECURITY PRODUCT UPGRADES (CSUP)

The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

CSUP-1	Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section.	Yes	—
CSUP-2	Does the device contain an Operating System? If yes, complete 2.1-2.4.	Yes	ICS is software component which supports hosting in Windows Server 2012 R2, 2016 and 2019 with Microsoft SQL Server 2014 or 2017
CSUP-2.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	Yes	—
CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	—
CSUP-2.3	Does the device have the capability to receive remote installation of patches or software updates?	No	—
CSUP-2.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	Yes	Spacelabs conducts monthly Microsoft patch verification testing for our Windows-based products. It is recommended to review the patch test report prior to patching in the event an update can cause impact to the hosted Spacelabs product. The patch test reports can be found here - https://www.spacelabshealthcare.com/products/security/patch-test-reports-access-form/?redirect_to=%2Fproducts%2Fsecurity%2Fpatch-test-reports%2F
CSUP-3	Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4.	N/A	—
CSUP-3.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	—
CSUP-3.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	—
CSUP-3.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A	—
CSUP-3.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	—
CSUP-4	Does the device contain Anti-Malware Software? If yes, complete 4.1-4.4.	No	Product host server can have any commercial anti-malware product installed. Please see the ICS Anti-malware customer service notice for recommended client configuration.
CSUP-4.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	Product software updates are managed by the manufacturer or by an authorized representative.
CSUP-4.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	No	—
CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates?	No	—
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?	Yes	—
CSUP-5	Does the device contain Non-Operating System commercial off-the-shelf components? If yes, complete 5.1-5.4.	Yes	—
CSUP-5.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	—
CSUP-5.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	—

CSUP-5.3	Does the device have the capability to receive remote installation of patches or software updates?	No	---
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?	Yes	---
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	Spacelabs conducts monthly Microsoft patch verification testing for our Windows-based products. It is recommended to review the patch test reports prior to patching in the event an update can cause impact to the hosted Spacelabs product. The patch test reports can be found here - https://www.spacelabshealthcare.com/products/security/patch-test-reports-access-form/?redirect_to=%2Fproducts%2Fsecurity%2Fpatch-test-reports%2F
CSUP-8	Does the device perform automatic installation of software updates?	No	---
CSUP-9	Does the manufacturer have an approved list of third-party software that can be installed on the device?	N/A	---
CSUP-10	Can the owner/operator install manufacturer-approved third-party software on the device themselves?	N/A	---
CSUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?	N/A	---
CSUP-11	Does the manufacturer have a process in place to assess device vulnerabilities and updates?	Yes	---
CSUP-11.1	Does the manufacturer provide customers with review and approval status of updates?	Yes	Spacelabs conducts monthly Microsoft patch verification testing for our Windows-based products. It is recommended to review the patch test reports prior to patching in the event an update can cause impact to the hosted Spacelabs product. The patch test reports can be found here - https://www.spacelabshealthcare.com/products/security/patch-test-reports-access-form/?redirect_to=%2Fproducts%2Fsecurity%2Fpatch-test-reports%2F
CSUP-11.2	Is there an update review cycle for the device?	Yes	---

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	---

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

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?	No	—
DTBK-3	Does the device have an integral data backup capability to removable media?	No	—
DTBK-4	Does the device have an integral data backup capability to remote storage?	No	—
DTBK-5	Does the device have a backup capability for system configuration information, patch restoration, and software restoration?	No	—
DTBK-6	Does the device provide the capability to check the integrity and authenticity of a backup?	No	—

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

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?	No	—
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IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

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)?	No	—
IGAU-2	Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., RAID-5)?	No	—

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

Section 5.9, IGAU

SC-28

A.18.1.3

Section 5.9, IGAU

SC-28

A.18.1.3

MALWARE DETECTION/PROTECTION (MLDP)

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

MLDP-1	Is the device capable of hosting executable software?	Yes	—
MLDP-2	Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes.	Yes	Product host server can have any commercial anti-malware product installed. Please see the ICS Anti-malware customer service notice for recommended client configuration.
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	—

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

Section 5.10, MLDP

Section 5.10, MLDP

SI-3

A.12.2.1

Section 5.10, MLDP

Section 5.10, MLDP

Section 5.10, MLDP

Section 5.10, MLDP

CM-5

AU-6

CP-10

AU-2

A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1, A.12.4.1, A.16.1.2, A.16.1.4

A.17.1.2

None

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?	N/A	---
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	---

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.

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

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)?	No	---
NAUT-2	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)?	N/A	---
NAUT-2.1	Is the firewall ruleset documented and available for review?	N/A	---
NAUT-3	Does the device use certificate-based network connection authentication?	No	---

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.

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

CONN-1	Does the device have hardware connectivity capabilities?	No	This is a software product.
CONN-1.1	Does the device support wireless connections?	N/A	
CONN-1.1.1	Does the device support Wi-Fi?	N/A	
CONN-1.1.2	Does the device support Bluetooth?	N/A	
CONN-1.1.3	Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)?	N/A	---
CONN-1.1.4	Does the device support other wireless connections (e.g., custom RF controls, wireless detectors)?	N/A	
CONN-1.2	Does the device support physical connections?	N/A	
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	N/A	
CONN-1.2.2	Does the device have available USB ports?	N/A	
CONN-1.2.3	Does the device require, use, or support removable memory devices?	N/A	---
CONN-1.2.4	Does the device support other physical connectivity?	N/A	
CONN-2	Does the manufacturer provide a list of network ports and protocols that are used or may be used on the device?	N/A	ICS is a software product that will be hosted on customer hardware. Spacelabs can provide the necessary ports and protocols for customers to configure.
CONN-3	Can the device communicate with other systems within the customer environment?	N/A	ICS is a software product that will be hosted on customer hardware.
CONN-4	Can the device communicate with other systems external to the customer environment (e.g., a service host)?	N/A	ICS is a software product that will be hosted on customer hardware. Customers manage external connections.
CONN-5	Does the device make or receive API calls?	N/A	

CONN-6	Does the device require an internet connection for its intended use?	No	---
CONN-7	Does the device support Transport Layer Security (TLS)?	Yes	---
CONN-7.1	Is TLS configurable?	N/A	This is a software application. TLS configurations are applied at the OS layer.
CONN-8	Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	No	---

PERSON AUTHENTICATION (PAUT)

The ability to configure the device to authenticate users.

PAUT-1	Does the device support and enforce unique IDs and passwords for all users and roles (including service accounts)?	Yes	---
PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)?	Yes	---
PAUT-2	Is the device configurable to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	Yes	---
PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	No	---
PAUT-4	Are all default accounts (e.g., technician service accounts, administrator accounts) listed in the documentation?	N/A	---
PAUT-5	Can all passwords be changed?	N/A	---
PAUT-6	Is the device configurable to enforce creation of user account passwords that meet established (organization specific) complexity rules?	N/A	---
PAUT-7	Does the device support account passwords that expire periodically?	N/A	---
PAUT-8	Does the device support multi-factor authentication?	N/A	---
PAUT-9	Does the device support single sign-on (SSO)?	N/A	---
PAUT-10	Can user accounts be disabled/locked on the device?	N/A	---
PAUT-11	Does the device support biometric controls?	N/A	---
PAUT-12	Does the device support physical tokens (e.g. badge access)?	N/A	---
PAUT-13	Does the device support group authentication (e.g. hospital teams)?	N/A	---
PAUT-14	Does the application or device store or manage authentication credentials?	No	---
PAUT-14.1	Are credentials stored using a secure method?	N/A	---

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

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

PLOK-1	Is the device software only? If yes, answer "N/A" to remaining questions in this section.	Yes	---
PLOK-2	Are all device components maintaining personally identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)?	N/A	---
PLOK-3	Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually keyed locking device?	N/A	---

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

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

PLOK-4	Does the device have an option for the customer to attach a physical lock to restrict access to removable media?	N/A	---
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Section 5.13, PLOK

PE- 3(4)

A.11.1.1, A.11.1.2, A.11.1.3

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

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

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	---
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices?	Yes	---
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	HL7 communicates with third party Hospital information systems

Section 5.14, RDMP

CM-2

None

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

Section 5.14, RDMP

CM-8

A.8.1.1, A.8.1.2

SOFTWARE BILL OF MATERIALS (SBoM)

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

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

SBOM-1	Is the SBoM for this product available?	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?	N/A	---
SBOM-3	Does the device include a command or process method available to generate a list of software components installed on the device?	N/A	---
SBOM-4	Is there an update process for the SBoM?	Yes	This is tracked via software development plan.

SYSTEM AND APPLICATION HARDENING (SAHD)

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

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

SAHD-1	Is the device hardened in accordance with any industry standards?	No	---
SAHD-2	Has the device received any cybersecurity certifications?	No	---
SAHD-3	Does the device employ any mechanisms for software integrity checking?	No	---
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)?	N/A	---

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

SAHD-5	Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls?	Yes	ICS is a software product with integrates with Windows Active Directory and access controls can be implemented through Active Directory
SAHD-5.1	Does the device provide role-based access controls?	No	
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery?	N/A	
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?	No	
SAHD-8	Are all communication ports and protocols that are not required for the intended use of the device disabled?	No	
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?	No	
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?	No	
SAHD-11	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	N/A	
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	N/A	
SAHD-13	Does the product documentation include information on operational network security scanning by users?	N/A	
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?	N/A	
SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	N/A	

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*
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?	No	
SGUD-2	Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media?	N/A	
SGUD-3	Are all access accounts documented?	N/A	
SGUD-3.1	Can the owner/operator manage password control for all accounts?	N/A	
SGUD-4	Does the product include documentation on recommended compensating controls for the device?	N/A	

IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
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?	N/A	
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IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
Section 5.17, STCF	SC-28	A.8.2.3

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	
STCF-3	Is the data stored in a database located on the device?	N/A	
STCF-4	Is the data stored in a database external to the device?	Yes	

Section 5.17, STCF

SC-28

A.8.2.3

TRANSMISSION CONFIDENTIALITY (TXCF)

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

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

TXCF-1	Can personally identifiable information be transmitted only via a point-to-point dedicated cable?	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?	No	
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	See Notes	ICS is a software product. It is recommended that customers follow the Spacelabs networking deployment guide.
TXCF-4	Are connections limited to authenticated systems?	See Notes	ICS is a software product. It is recommended that customers follow the Spacelabs networking deployment guide.
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	N/A	

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.

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

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

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.

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

RMOT-1	Does the device permit remote service connections for device analysis or repair?	No	Host server and customer controls can facilitate remote access.
RMOT-1.1	Does the device allow the owner/operator to initiate remote service sessions for device analysis or repair?	No	
RMOT-1.2	Is there an indicator for an enabled and active remote session?	No	
RMOT-1.3	Can patient data be accessed or viewed from the device during the remote session?	No	
RMOT-2	Does the device permit or use remote service connections for predictive maintenance data?	No	
RMOT-3	Does the device have any other remotely accessible functionality (e.g. software updates, remote	N/A	

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

OTHER SECURITY CONSIDERATIONS (OTHR)

NONE

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4

ISO 27002:2013

Notes:

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