Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Spacelabs Healthcare 90217 and 90217A 091-0312-00 Rev B 1-Dec-2020 **Question ID** See note Question DOC-1 Manufacturer Name Spacelabs Healthcare Device Description ABP Monitor DOC-2 DOC-3 Device Model 90217 and 90217A DOC-4 Document ID 091-0312-00 Rev B Spacelabs Healthcare Ltd., Unit B, Foxholes Centre, John Tate Rd, Hertford SG13 7DT DOC-5 Manufacturer Contact Information Intended use of device in network-connected See Note DOC-6 environment: 6 14 DOC-7 Document Release Date Dec-20 Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure DOC-8 program for this device? ISAO: Is the manufacturer part of an Information Sharing and Analysis Organization? DOC-9 Diagram: Is a network or data flow diagram available that indicates connections to other system DOC-10 components or expected external resources? See Note 15 SaMD: Is the device Software as a Medical Device DOC-11 (i.e. software-only, no hardware)? No DOC-11.1 Does the SaMD contain an operating system? N/A Does the SaMD rely on an owner/operator provided DOC-11.2 operating system? N/A Is the SaMD hosted by the manufacturer? DOC-11.3 N/A DOC-11.4 Is the SaMD hosted by the customer? N/A Yes, No, N/A, or Note # See Note MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic MPII-1 Protected Health Information (ePHI))? See Notes 1 Does the device maintain personally identifiable MPII-2 information? See Notes Does the device maintain personally identifiable information temporarily in volatile memory (i.e., MPII-2.1 until cleared by power-off or reset)? No Does the device store personally identifiable MPII-2.2 information persistently on internal media? Yes Is personally identifiable information preserved in the device's non-volatile memory until explicitly MPII-2.3 Yes Does the device store personally identifiable MPII-2.4 information in a database? No Does the device allow configuration to automatically delete local personally identifiable information after MPII-2.5 it is stored to a long term solution? Yes Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally MPII-2.6 identifiable information to a server)? See Notes Does the device maintain personally identifiable information when powered off, or during power MPII-2.7 service interruptions? Yes Does the device allow the internal media to be

removed by a service technician (e.g., for separate

destruction or customer retention)?

MPII-2.8

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	Does the device allow personally identifiable		
	information records be stored in a separate location		
	from the device's operating system (i.e. secondary		
MPII-2.9	internal drive, alternate drive partition, or remote storage location)?	N/A	2
IVIFII-2.9	Does the device have mechanisms used for the	N/A	2
	transmitting, importing/exporting of personally		
MPII-3	identifiable information?	See Notes	1
	Does the device display personally identifiable		
MPII-3.1	information (e.g., video display, etc.)? Does the device generate hardcopy reports or	No	_
	images containing personally identifiable		
MPII-3.2	information?	No	_
	Does the device retrieve personally identifiable information from or record personally identifiable		
	information to removable media (e.g., removable-		
	HDD, USB memory, DVD-R/RW,CD-R/RW, tape,		
MPII-3.3	CF/SD card, memory stick, etc.)?	No	_
	Does the device transmit/receive or import/export		
	personally identifiable information via dedicated cable connection (e.g., RS-232, RS-423, USB,		
MPII-3.4	FireWire, etc.)?	Yes	1
	Does the device transmit/receive personally		
	identifiable information via a wired network		
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	No	_
	Does the device transmit/receive personally identifiable information via a wireless network		
	connection (e.g., WiFi, Bluetooth, NFC, infrared,		
MPII-3.6	cellular, etc.)?	No	_
	Does the device transmit/receive personally		
MPII-3.7	identifiable information over an external network (e.g., Internet)?	No	
IVIFII-3.7	Does the device import personally identifiable	140	_
MPII-3.8	information via scanning a document?	No	
MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol?	Yes	1
IVIFII-3.5	Does the device use any other mechanism to	res	1
	transmit, import or export personally identifiable		
MPII-3.10	information?	No	_
Management of Priva	te Data notes:		
	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.		
	Can the device be configured to force		
	reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff,		
ALOF-1	session lock, password protected screen saver)?	N/A	
-	Is the length of inactivity time before auto-	,	-
	logoff/screen lock user or administrator		
ALOF-2	configurable?	N/A	_
	AUDIT CONTROLS (AUDT)		
	The ability to reliably audit activity on the device.		
	Can the medical device create additional audit logs		
AUDT-1	or reports beyond standard operating system logs?	No .	_
AUDT-1.1	Does the audit log record a USER ID?	N/A	_
AUDT-1.2	Does other personally identifiable information exist in the audit trail?	N/A	
	Are events recorded in an audit log? If yes, indicate	17/7	
	which of the following events are recorded in the		
AUDT-2	audit log:	N/A	_
AUDT 2.2	Successful login/logout attempts?	N/A	_
AUDT-2.2 AUDT-2.3	Unsuccessful login/logout attempts? Modification of user privileges?	N/A N/A	_
AUDT-2.4	Creation/modification/deletion of users?	N/A	_

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	Presentation of clinical or PII data (e.g. display,		
AUDT-2.5	print)?	N/A	_
AUDT-2.6	Creation/modification/deletion of data?	N/A	
	Import/export of data from removable media (e.g.	·	_
AUDT-2.7	1	N/A	
AUD1-2.7	USB drive, external hard drive, DVD)?	N/A	_
	Receipt/transmission of data or commands over a		
AUDT-2.8	network or point-to-point connection?	N/A	_
AUDT-2.8.1	Remote or on-site support?	N/A	_
	Application Programming Interface (API) and similar		
AUDT-2.8.2	activity?	N/A	
	Emergency access?		_
AUDT-2.9	• .	N/A	_
AUDT-2.10	Other events (e.g., software updates)?	N/A	_
AUDT-2.11	Is the audit capability documented in more detail?	N/A	_
	Can the owner/operator define or select which		
AUDT-3	events are recorded in the audit log?	N/A	
	Is a list of data attributes that are captured in the	.4	
ALIDT 4		NI/A	
AUDT-4	audit log for an event available?	N/A	_
AUDT-4.1	Does the audit log record date/time?	N/A	_
	Can date and time be synchronized by Network Time		
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	N/A	
AUDT-5	Can audit log content be exported?	N/A	_
			_
AUDT-5.1	Via physical media?	N/A	_
	Via IHE Audit Trail and Node Authentication (ATNA)		
AUDT-5.2	profile to SIEM?	N/A	_
	Via Other communications (e.g., external service		
AUDT-5.3	device, mobile applications)?	N/A	
	Are audit logs encrypted in transit or on storage	.4	_
ALIDT E 4		NI/A	
AUDT-5.4	media?	N/A	_
	Can audit logs be monitored/reviewed by		
AUDT-6	owner/operator?	N/A	_
AUDT-7	Are audit logs protected from modification?	N/A	_
AUDT-7.1	Are audit logs protected from access?	N/A	_
AUDT-8	Can audit logs be analyzed by the device?	N/A	
7.021 0	cult dudit logs be unalyzed by the device.	14,71	=
	AUTHORIZATION (AUTH)		
	The ability of the device to determine the		
	authorization of users.		
	Does the device prevent access to unauthorized		
	users through user login requirements or other		
		NI.	
AUTH-1	mechanism?	No	_
	Can the device be configured to use federated		
	credentials management of users for authorization		
AUTH-1.1	(e.g., LDAP, OAuth)?	No	
	Can the customer push group policies to the device		_
AUTH-1.2	(e.g., Active Directory)?	No	
A0111 1.2	· -	110	_
	Are any special groups, organizational units, or group		
AUTH-1.3	policies required?	No	_
	Can users be assigned different privilege levels based		
	on 'role' (e.g., user, administrator, and/or service,		
AUTH-2	etc.)?	No	
	•		_
	Can the device owner/operator grant themselves		
	unrestricted administrative privileges (e.g., access		
	operating system or application via local root or		
AUTH-3	administrator account)?	No	<u>_</u>
	Does the device authorize or control all API access		
AUTH-4	requests?	No	
	•		_
ALITH F	Does the device run in a restricted access mode, or	NI-	
AUTH-5	'kiosk mode', by default?	No	_

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.

	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	
CSUP-1	questions in this section.	N/A
C30F-1	Does the device contain an Operating System? If yes,	
00118.0		
CSUP-2	complete 2.1-2.4.	No
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSUP-2.1	software updates?	N/A
	Does the device require vendor or vendor-	
	authorized service to install patches or software	
CSUP-2.2	updates?	N/A
	Does the device have the capability to receive	
CSUP-2.3	remote installation of patches or software updates?	N/A
C30F-2.3	Does the medical device manufacturer allow security	
	·	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-2.4	manufacturer?	N/A
	Does the device contain Drivers and Firmware? If	
CSUP-3	yes, complete 3.1-3.4.	Yes
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSUP-3.1	software updates?	No
	Does the device require vendor or vendor-	
	authorized service to install patches or software	
CSUP-3.2	updates?	Yes
CJU1 J.L	apaates.	-
	Door the device have the canability to receive	
00118 0 0	Does the device have the capability to receive	
CSUP-3.3	remote installation of patches or software updates?	No
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-3.4	manufacturer?	See Notes 4
	Does the device contain Anti-Malware Software? If	
CSUP-4	yes, complete 4.1-4.4.	N/A
	Does the device documentation provide instructions	, <u>–</u>
	for owner/operator installation of patches or	
CSUP-4.1	software updates?	N/A
C30F-4.1	Does the device require vendor or vendor-	
	·	
00115 4.0	authorized service to install patches or software	N/A
CSUP-4.2	updates?	N/A
	Does the device have the capability to receive	
CSUP-4.3	remote installation of patches or software updates?	N/A
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-4.4	manufacturer?	N/A
	Does the device contain Non-Operating System	
	commercial off-the-shelf components? If yes,	
CSUP-5	complete 5.1-5.4.	No
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSLID F 1		N/A
CSUP-5.1	software updates?	N/A
	Does the device require vendor or vendor-	
	authorized service to install patches or software	
CSUP-5.2	updates?	N/A
	Does the device have the capability to receive	
CSUP-5.3	remote installation of patches or software updates?	N/A
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-5.4	manufacturer?	N/A
		_
	Does the device contain other software components	
	(e.g., asset management software, license	
CCLID C	management)? If yes, please provide details or	No
CSUP-6	refernce in notes and complete 6.1-6.4.	No
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSUP-6.1	software updates?	N/A
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N/A

N/A

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CSUP-11.1

CSUP-11.2

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CSUP-6.2	Does the device require vendor or vendor- authorized service to install patches or software updates?
CCLID C 2	Does the device have the capability to receive
CSUP-6.3	remote installation of patches or software updates? Does the medical device manufacturer allow security
	updates from any third-party manufacturers (e.g.,
	Microsoft) to be installed without approval from the
CSUP-6.4	manufacturer? Does the manufacturer notify the customer when
CSUP-7	updates are approved for installation?
	Does the device perform automatic installation of
CSUP-8	software updates?
	Does the manufacturer have an approved list of third-
CSUP-9	party software that can be installed on the device?
	Can the owner/operator install manufacturer-
CSUP-10	approved third-party software on the device themselves?
C301 10	Does the system have mechanism in place to prevent
CSUP-10.1	installation of unapproved software?
00115 44	Does the manufacturer have a process in place to
CSUP-11	assess device vulnerabilities and updates?

HEALTH DATA DE-IDENTIFICATION (DIDT)

Does the manufacturer provide customers with

Is there an update review cycle for the device?

review and approval status of updates?

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? Does the device support de-identification profiles	N/A	_
DIDT-1.1	that comply with the DICOM standard for de- identification?	N/A	_

DATA BACKUP AND DISASTER RECOVERY (DTBK)

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

	Does the device maintain long term primary storage
DTBK-1	of personally identifiable information / patient information (e.g. PACS)?
DIBK-1	Does the device have a "factory reset" function to
	restore the original device settings as provided by
DTBK-2	the manufacturer?
	Does the device have an integral data backup
DTBK-3	capability to removable media?
	Does the device have an integral data backup
DTBK-4	capability to remote storage?
	Does the device have a backup capability for system
	configuration information, patch restoration, and
DTBK-5	software restoration?
	Does the device provide the capability to check the
DTBK-6	integrity and authenticity of a backup?

No	-	
NI/A		
N/A	_	-
N/A	_	
N/A		
N/A		
N/A	_	_

EMERGENCY ACCESS (EMRG)

The ability of the device user to access personally identifiable information in case of a medical emergency situation that requires immediate access to stored personally identifiable information.

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EMRG-1	Does the device incorporate an emergency access (i.e. "break-glass") feature?	N/A	_
	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)? Does the device provide error/failure protection and	Yes	_
IGAU-2	recovery mechanisms for stored health data (e.g., RAID-5)?	N/A	_
	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	2
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? Does the device documentation allow the	N/A	_
MLDP-2.3	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? Does notification of malware detection occur in the	N/A	_
MLDP-2.5	device user interface?	N/A	
MLDP-2.6 MLDP-2.7	Can only manufacturer-authorized persons repair systems when malware has been detected? Are malware notifications written to a log?	N/A 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?	See Notes	2
	Does the device employ application whitelisting that restricts the software and services that are permitted		
MLDP-4 MLDP-5	to be run on the device? Does the device employ a host-based intrusion detection/prevention system?	N/A N/A	-
MILDF-3	Can the host-based intrusion detection/prevention	N/A	_
MLDP-5.1	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	_
	NODE AUTHENTICATION (NAUT) The ability of the device to authenticate communication partners/nodes.		
	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		
NAUT-1	authorized to receive transferred information (e.g. Web APIs, SMTP, SNMP)?	No	3

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NAUT 2	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or	N-	
NAUT-2	use a network connection white list)? Is the firewall ruleset documented and available for	No	_
NAUT-2.1	review?	N/A	_
NAUT-3	Does the device use certificate-based network connection authentication?	N/A	6
NAOT 5	connection authentication:	IV/A	Ū
	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.		
	Does the device have hardware connectivity		
CONN-1	capabilities?	Yes	_
CONN-1.1 CONN-1.1.1	Does the device support wireless connections? Does the device support Wi-Fi?	No No	_
CONN-1.1.1	Does the device support Wiff: Does the device support Bluetooth?	No	
CONN-1.1.3	Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)?	No	
1.1.3			_
	Does the device support other wireless connections		
CONN-1.1.4 CONN-1.2	(e.g., custom RF controls, wireless detectors)? Does the device support physical connections?	No Yes	_ 3
CONN 1.2	boes the device support physical conficctions:	ic3	3
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	No	_
CONN-1.2.2	Does the device have available USB ports? Does the device require, use, or support removable	No	_
CONN-1.2.3	memory devices?	No	_
CONN 4 2 4	Beautiful de l'en en en de libre de l'en en en l'Al 2		
CONN-1.2.4	Does the device support other physical connectivity? Does the manufacturer provide a list of network	No	_
	ports and protocols that are used or may be used on		
CONN-2	the device? Can the device communicate with other systems	No	_
CONN-3	within the customer environment?	See Notes	3
	Can the device communicate with other systems		
CONN-4	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	No	
CONN-6	its intended use? Does the device support Transport Layer Security	No	_
CONN-7	(TLS)?	N/A	_
CONN-7.1	Is TLS configurable? Does the device provide operator control	N/A	_
	functionality from a separate device (e.g.,		
CONN-8	telemedicine)?	No	_
	PERSON AUTHENTICATION (PAUT)		
	The ability to configure the device to authenticate		
	users. Does the device support and enforce unique IDs and		
	passwords for all users and roles (including service		
PAUT-1	accounts)?	See Notes	7
	Does the device enforce authentication of unique IDs and passwords for all users and roles (including		
PAUT-1.1	service accounts)?	N/A	_
	Is the device configurable to such a such		
	Is the device configurable to authenticate users through an external authentication service (e.g., MS		
PAUT-2	Active Directory, NDS, LDAP, OAuth, etc.)?	N/A	_
	Is the device configurable to lock out a year offer-		
PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	N/A	
-	Are all default accounts (e.g., technician service	,	-
DALIT 4	accounts, administrator accounts) listed in the documentation?	N/A	
PAUT-4 PAUT-5	Can all passwords be changed?	N/A N/A	_
			-

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PAUT-6 PAUT-7	Is the device configurable to enforce creation of user account passwords that meet established (organization specific) complexity rules? Does the device support account passwords that expire periodically?	N/A N/A	_
PAUT-8 PAUT-9	Does the device support multi-factor authentication? Does the device support single sign-on (SSO)?	N/A N/A	_
PAUT-10 PAUT-11	Can user accounts be disabled/locked on the device? Does the device support biometric controls?	, N/A 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)? Does the application or device store or manage	N/A	_
PAUT-14 PAUT-14.1	authentication credentials? Are credentials stored using a secure method?	N/A N/A	Ξ
	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. Are all device components maintaining personally identifiable information (other than removable	No	-
PLOK-2	media) physically secure (i.e., cannot remove without tools)? Are all device components maintaining personally identifiable information (other than removable media) physically secured behind on individually.	Yes	-
PLOK-3	media) physically secured behind an individually keyed locking device? Does the device have an option for the customer to attach a physical lock to restrict access to removable	No	_
PLOK-4	media?	N/A	_
	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. Was a secure software development process, such as		
RDMP-1	ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	8
RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices? Does the manufacturer maintain a web page or other source of information on software support	N/A	-
RDMP-3	dates and updates? Does the manufacturer have a plan for managing	Yes	-
RDMP-4	third-party component end-of-life?	N/A	9
	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 SBOM-2	Is the SBoM for this product available? Does the SBoM follow a standard or common method in describing software components?	Yes	-
SBOM-2.1	Are the software components identified?	Yes	_

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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? Does the device include a command or process method available to generate a list of software	Yes	_
SBOM-3	components installed on the device?	No	_
SBOM-4	Is there an update process for the SBoM?	Yes	8
	SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and		
	malware. Is the device hardened in accordance with any		
SAHD-1	industry standards? Has the device received any cybersecurity	No	-
SAHD-2	certifications?	No	_
SAHD-3	Does the device employ any mechanisms for software integrity checking Does the device employ any mechanism (e.g.,	No	_
SAHD-3.1	release-specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-authorized? Does the device employ any mechanism (e.g., release-specific hash key, checksums, digital	Yes	10
SAHD-3.2	signature, etc.) to ensure the software updates are the manufacturer-authorized updates?	N/A	11
SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? Is the system configurable to allow the	See Notes	12
SAHD-5	implementation of file-level, patient level, or other types of access controls?	N/A	_
SAHD-5.1	Does the device provide role-based access controls?	N/A	_
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery? Are any system or user accounts configurable by the	N/A	_
SAHD-6.1	end user after initial configuration? Does this include restricting certain system or user	N/A	_
SAHD-6.2	accounts, such as service technicians, to least privileged access? Are all shared resources (e.g., file shares) which are	N/A	-
SAHD-7	not required for the intended use of the device disabled? Are all communication ports and protocols that are	N/A	_
SAHD-8	not required for the intended use of the device disabled? Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which	N/A	_
SAHD-9	are not required for the intended use of the device deleted/disabled? Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer,	N/A	_
SAHD-10	etc.) which are not required for the intended use of the device deleted/disabled?	N/A	_
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? Does the product documentation include	No	_
SAHD-13	information on operational network security scanning by users?	N/A	_
SAHD-14	Can the device be hardened beyond the default provided state? Are instructions available from younger for inscreased.	N/A	_
SAHD-14.1	Are instructions available from vendor for increased hardening?	N/A	

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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	_
	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? Does the device have the capability, and provide	N/A	-
SGUD-2	instructions, for the permanent deletion of data from the device or media?	Yes	_
SGUD-3	Are all access accounts documented? Can the owner/operator manage password control	N/A	_
SGUD-3.1	for all accounts? Does the product include documentation on	N/A	_
SGUD-4	recommended compensating controls for the device?	N/A	_
	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		
STCF-1	stored on the device or removable media. Can the device encrypt data at rest?	No	
STCF-1.1	Is all data encrypted or otherwise protected?	No	_
STCF-1.2	Is the data encryption capability configured by default?	Yes	
3101 1.2	Are instructions available to the customer to		_
STCF-1.3	configure encryption?	N/A	_
STCF-2	Can the encryption keys be changed or configured? Is the data stored in a database located on the	No	_
STCF-3	device? Is the data stored in a database external to the	No	_
STCF-4	device?	No	_
	TRANSMISSION CONFIDENTIALITY (TXCF)		
	The ability of the device to ensure the confidentiality of transmitted personally identifiable information.		
	Can personally identifiable information be transmitted only via a point-to-point dedicated		
TXCF-1	cable?	Yes	_
TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media?	N/A	6
TXCF-2.1	If data is not encrypted by default, can the customer configure encryption options?	N/A	6
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	N/A	6
TXCF-4	Are connections limited to authenticated systems?	N/A	6
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	N/A	6
	TRANSMISSION INTEGRITY (TXIG) The ability of the device to ensure the integrity of transmitted data.		
	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified		
TXIG-1	during transmission?	No	13

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	Does the device include multiple sub-components	
TXIG-2	connected by external cables?	No

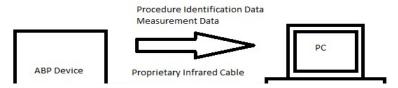
	REMOTE SERVICE (RMOT)		
	Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.		
	Does the device permit remote service connections		
RMOT-1	for device analysis or repair?	No	_
RMOT-1.1	Does the device allow the owner/operator to initiative remote service sessions for device analysis or repair?	No	
111101 1.1	Is there an indicator for an enabled and active	110	_
RMOT-1.2	remote session?	N/A	_
	Can patient data be accessed or viewed from the		
RMOT-1.3	device during the remote session?	N/A	_
	Does the device permit or use remote service		
RMOT-2	connections for predictive maintenance data?	N/A	_
	Does the device have any other remotely accessible		
	functionality (e.g. software updates, remote	21/2	
RMOT-3	training)?	N/A	<u> </u>

OTHER SECURITY CONSIDERATIONS (OTHR)

NONE

Notes:

	User can choose whether or not to store ePHI in
	device. It is not required for device to operate The
	device does not provide any other interface to enter,
	modify or view PII. PII can only be stored or
Note 1	retrieved by Sentinel via a proprietary cable
Note 2	Device has no operating System
	Data can only be transferred over a proprietary
	Infrared (Serial or USB) cable directly connected
Note 3	between device and PC
	Device does not contain software that would be
Note 4	updated by a third party
	The device cannot have other software installed.
	Update of the device software requires a proprietary
Note 5	update
	Device does not have a network interface or
Note 6	removable media
Note 7	The device does not implement users or roles
Note 8	Process complies with IEC 62304
	All third-party components are integrated at a
	source code level so there is no ongoing dependency
Note 9	on the third party.
	The device software can only be updated using
Note 10	manufacturer proprietary tools
	The device can not have updates applied. Updates
Note 11	are incorporated into a new software version
	The device performs an integrity check at each
	power on and will not start If the software has been
Note 12	modified
11010 12	Measurement data contains CRC checks to ensure
Note 13	integrity
NOIC 13	The device may be connected to a PC that is network
Note 14	connected
Note 15	Note 15
MOLE TO	NOTE 15



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Procedure Identification Data
Procedure Configuration Data