Manufacturer Disclosure Statement for Medical Device Security -- MDS2

 Spacelabs Healthcare
 98000
 091-0426-00 Rev A
 Aug-24

Question ID	Question		See note
DOC-1	Manufacturer Name	Spacelabs Healthcare	
DOC-2	Device Description	Pathfinder SL Ambulatory ECG Version 1.10.0	_
DOC-3	Device Model	98000	
DOC-4	Document ID	091-0426-00 Rev A	
DOC-5	Manufacturer Contact Information	Spacelabs Healtcare Ltd,	_
		Unit B, Foxholes centre,	
		John Tate Road	
		Hertford, SG13 7DT	
DOC-6	Intended use of device in network-connected	United Kingdom The Spacelabs Pathfinder SL Holter	
DOC-0	environment:	Analyzer is intended to be used to	_
	chili onnene.	analyze recordings of ambulatory	
		electrocardiograms made on compatible	
		Holter recorders. It is capable of	
		detecting certain abnormal arrhythmias,	
		and allows the operator to view and edit	
		the EGG and the analysis results, and	
		construct a report for physician use.	
		The Spacelabs Pathfinder SL Holter	
		Analyzer is intended for use on adult	
		patients only as a screening device to	
		determine the need for clinical diagnosis	
		and evaluation by polysomnography	
		based on the patient's score. The EGG	
		recording may be obtained at any	
		location specified by a physician including home, hospital or clinic.	
		Subjects screened for sleep apnoea	
		should have periods of sleep of at least 4	
		hours duration during which the EGG is	
		predominantly sinus rhythm in nature.	
DOC-7	Document Release Date	Aug-24	
DOC-8	Coordinated Vulnerability Disclosure: Does the	Yes	_
	manufacturer have a vulnerability disclosure		
DOC-9	program for this device? ISAO: Is the manufacturer part of an Information	No	
500 3	Sharing and Analysis Organization?		_
DOC-10	Diagram: Is a network or data flow diagram available	Yes	We have network diagrams of our DC suite with
	that indicates connections to other system		Pathfinder SL as part of those models. This is not
	components or expected external resources?		published but can be made available on request.
DOC-11	SaMD: Is the device Software as a Medical Device	Yes	_
DOC-11.1	(i.e. software-only, no hardware)? Does the SaMD contain an operating system?	No	
DOC-11.1 DOC-11.2	Does the SaMD rely on an owner/operator provided	Yes	
	operating system?		
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

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MPII-1	Can this device display, transmit, store, or modify	Yes	
	personally identifiable information (e.g. electronic		
	Protected Health Information (ePHI))?		
MPII-2	Does the device maintain personally identifiable	Yes	_
	information?		
MPII-2.1	Does the device maintain personally identifiable	Yes	_
	information temporarily in volatile memory (i.e.,		
	until cleared by power-off or reset)?		
MPII-2.2	Does the device store personally identifiable	No	_
	information persistently on internal media?		
MPII-2.3	Is personally identifiable information preserved in	No	_
	the device's non-volatile memory until explicitly		
	erased?		
MPII-2.4	Does the device store personally identifiable	No	_
	information in a database?		
MPII-2.5	Does the device allow configuration to automatically	N/A	_
	delete local personally identifiable information after		
	it is stored to a long term solution?		
MPII-2.6	Does the device import/export personally	Yes	
	identifiable information with other systems (e.g., a		
	wearable monitoring device might export personally		
	identifiable information to a server)?		
MPII-2.7	Does the device maintain personally identifiable	No	_
	information when powered off, or during power		
	service interruptions?		
MPII-2.8	Does the device allow the internal media to be	N/A	_
	removed by a service technician (e.g., for separate		
MADU 2.0	destruction or customer retention)?	No	
MPII-2.9	Does the device allow personally identifiable	No	
	information records be stored in a separate location		
	from the device's operating system (i.e. secondary		
	internal drive, alternate drive partition, or remote		
MADUL 2	storage location)?	V	
MPII-3	Does the device have mechanisms used for the	Yes	_
	transmitting, importing/exporting of personally		
MPII-3.1	identifiable information? Does the device display personally identifiable	Yes	
IVIFII-3.1	information (e.g., video display, etc.)?	res	_
MPII-3.2	Does the device generate hardcopy reports or	Yes	
IVIF II-3.2	, , ,	res	-
	images containing personally identifiable information?		
MPII-3.3	Does the device retrieve personally identifiable	Yes	
1011 11 3.3	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.)?		
	cirysb cara, memory stick, etc.,.		
MPII-3.4	Does the device transmit/receive or import/export	No	
WIF II-3.4	personally identifiable information via dedicated	INO	_
	cable connection (e.g., RS-232, RS-423, USB,		
	FireWire, etc.)?		
MPII-3.5	Does the device transmit/receive personally	Yes	Only when manually exporting an analysis or when
	identifiable information via a wired network		sending a report to a local/networked printer.
	connection (e.g., RJ45, fiber optic, etc.)?		serialing a report to a local/fletworked printer.
MPII-3.6	Does the device transmit/receive personally	No	
5.0	identifiable information via a wireless network		
	connection (e.g., WiFi, Bluetooth, NFC, infrared,		
	cellular, etc.)?		
MPII-3.7	Does the device transmit/receive personally	No	
	identifiable information over an external network		
	(e.g., Internet)?		
MPII-3.8	Does the device import personally identifiable	No	
	information via scanning a document?		
MPII-3.9	Does the device transmit/receive personally	No	
1	identifiable information via a proprietary protocol?		
	, ., ., ,,		
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MPII-3.10	Does the device use any other mechanism to	No	_
	transmit, import or export personally identifiable		
	information?		

Management of Private 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

ALOF-1	Can the device be configured to force	No	
	reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff,		
	session lock, password protected screen saver)?		
ALOF-2	Is the length of inactivity time before auto- logoff/screen lock user or administrator configurable?	N/A	_

AUDIT CONTROLS (AUDT)

The ability to reliably audit activity on the device.

AUDT-1	Can the medical device create additional audit logs	No	All Audit logging is performed by Sentinel.
7,001 1	or reports beyond standard operating system logs?		7 iii 7 taate 10gging 13 per 10 mea by 3e italien
	or reports beyond standard operating system logs:		Pathfinder SL CAN ONLY be installed on either a
			Sentinel Client or a Sentinel Workstation.
			Pathfinder SL has no audit logging, but Sentinel will
			audit the use of Pathfinder SL for each recording
			that is analysed.
AUDT-1.1	Does the audit log record a USER ID?	N/A	
AUDT-1.2	Does other personally identifiable information exist	N/A	_
	in the audit trail?		
AUDT-2	Are events recorded in an audit log? If yes, indicate	No	_
	which of the following events are recorded in the		
	audit log:		
AUDT-2.1	Successful login/logout attempts?	N/A	
AUDT-2.2	Unsuccessful login/logout attempts?	N/A	
AUDT-2.3	Modification of user privileges?	N/A	_
AUDT-2.4	Creation/modification/deletion of users?	N/A	
AUDT-2.5	Presentation of clinical or PII data (e.g. display,	N/A	
	print)?	,	
AUDT-2.6	Creation/modification/deletion of data?	N/A	
AUDT-2.7	Import/export of data from removable media (e.g.	N/A	
	USB drive, external hard drive, DVD)?	,	
AUDT-2.8	Receipt/transmission of data or commands over a	N/A	
	network or point-to-point connection?	,	
AUDT-2.8.1	Remote or on-site support?	N/A	
AUDT-2.8.2	Application Programming Interface (API) and similar	N/A	
7.007 2.0.2	activity?	,	
AUDT-2.9	Emergency access?	N/A	
AUDT-2.10	Other events (e.g., software updates)?	N/A	
AUDT-2.11	Is the audit capability documented in more detail?	N/A	
	is the dual capability accumented in more actum	,	
AUDT-3	Can the owner/operator define or select which	No	
	events are recorded in the audit log?		
AUDT-4	Is a list of data attributes that are captured in the	No	
	audit log for an event available?		
AUDT-4.1	Does the audit log record date/time?	N/A	
AUDT-4.1.1	Can date and time be synchronized by Network Time		
7.001 7.1.1	Protocol (NTP) or equivalent time source?	1977	_
	r rotocor (1411) or equivalent time source:		
AUDT-5	Can audit log content be exported?	No	
AUDT-5.1	Via physical media?	N/A	_
AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA)	N/A	
AUD1-3.2	profile to SIEM?	170	-
	Profile to Sicivi:		
AUDT-5.3	Via Other communications (e.g., external service	N/A	

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AUDT-5.4	Are audit logs encrypted in transit or on storage	N/A	_
	media?		
AUDT-6	Can audit logs be monitored/reviewed by	No	_
	owner/operator?		
AUDT-7	Are audit logs protected from modification?	No	
AUDT-7.1	Are audit logs protected from access?	No	_
AUDT-8	Can audit logs be analyzed by the device?	No	

AUTHORIZATION (AUTH)

The ability of the device to determine the authorization of users

	authorization of users.		
AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other mechanism?	No	Pathfinder SL does not directly prevent access. The authorization to use Pathfinder SL is granted by permission held within the Sentinel system. Pathfinder SL MUST be launched from within Sentinel and that only authorized Sentinel users have access to the launch mechanism
AUTH-1.1	Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	No	-
AUTH-1.2	Can the customer push group policies to the device (e.g., Active Directory)?	No	_
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.)?	No	_
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)?	No	
AUTH-4	Does the device authorize or control all API access requests?	No	_
AUTH-5	Does the device run in a restricted access mode, or 'kiosk mode', by default?	Yes	_

CYBER SECURITY PRODUCT UPGRADES (CSUP)

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

	device's security patches.		
CSUP-1	Does the device contain any software or firmware	Yes	_
	which may require security updates during its		
	operational life, either from the device manufacturer		
	or from a third-party manufacturer of the		
	software/firmware? If no, answer "N/A" to		
	questions in this section.		
CSUP-2	Does the device contain an Operating System? If yes,	No	Pathfinder SL is a software product. It is the
	complete 2.1-2.4.		customers responsibility to provide the physical PC
			on which it runs.
CSUP-2.1	Does the device documentation provide instructions	No	
	for owner/operator installation of patches or		
	software updates?		
CSUP-2.2	Does the device require vendor or vendor-	No	
	authorized service to install patches or software		
	updates?		
CSUP-2.3	Does the device have the capability to receive	No	
	remote installation of patches or software updates?		
CSUP-2.4	Does the medical device manufacturer allow security	Yes	Third-party manufacturers (i.e. Microsoft) can
	updates from any third-party manufacturers (e.g.,		install updates of the operating system and
	Microsoft) to be installed without approval from the		elements such as the .NET framework on the
	manufacturer?		platform where Pathfinder SL is installed.

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CSUP-3	Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4.	No	_
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	_
CSUP-4.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	_
CSUP-4.2	Does the device require vendor or vendor- authorized service to install patches or software updates?	N/A	_
CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A	_
CSUP-4.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	_
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	The COTS components are built in to the Pathfinder SL system, patches or updates will require a new version of Pathfinder SL.
CSUP-5.2	Does the device require vendor or vendor- authorized service to install patches or software updates?	No	_
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?	No	_
CSUP-6	Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or refernce in notes and complete 6.1-6.4.	No	_
CSUP-6.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	_
CSUP-6.2	Does the device require vendor or vendor- authorized service to install patches or software updates?	N/A	_
CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A	_
CSUP-6.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	N/A	_
CSUP-7	Does the manufacturer notify the customer when updates are approved for installation?	Yes	Updates may be provided by making a new version of Pathfinder SL available.
CSUP-8	Does the device perform automatic installation of software updates?	No	_

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CSUP-9	Does the manufacturer have an approved list of third party software that can be installed on the device?	No	_
CSUP-10	Can the owner/operator install manufacturer-	No	_
	approved third-party software on the device themselves?		
CSUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?	Yes	_
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?	No	_
CSUP-11.2	Is there an update review cycle for the device?	No	_

HEALTH DATA DE-IDENTIFICATION (DIDT)

The ability of the device to directly remove information that allows identification of a person.

	DIDT-1	Does the device provide an integral capability to de-	No	
		identify personally identifiable information?		
I	DIDT-1.1	Does the device support de-identification profiles	No	
		that comply with the DICOM standard for de-		
		identification?		

DATA BACKUP AND DISASTER RECOVERY (DTBK)

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

	configuration information.		
DTBK-1	Does the device maintain long term primary storage	No	_
	of personally identifiable information / patient		
	information (e.g. PACS)?		
DTBK-2	Does the device have a "factory reset" function to	Yes	The Setup Manager allows setting the device back
	restore the original device settings as provided by		to Factory Default Setup.
	the manufacturer?		
DTBK-3	Does the device have an integral data backup	No	
	capability to removable media?		
DTBK-4	Does the device have an integral data backup	No	_
	capability to remote storage?		
DTBK-5	Does the device have a backup capability for system	No	
	configuration information, patch restoration, and		
	software restoration?		
DTBK-6	Does the device provide the capability to check the	No	_
	integrity and authenticity of a backup?		

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	No	
	(i.e. "break-glass") feature?		

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	No	
	mechanisms of stored health data (e.g., hash or		
	digital signature)?		
IGAU-2	Does the device provide error/failure protection and	No	
IGAU-2	Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g.,	No	_

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.	Yes	Pathfinder SL V1.10 has been verified on platforms with Norton (Symantec) anti-virus installed.
MLDP-2.1	Does the device include anti-malware software by default?	No	_
MLDP-2.2	Does the device have anti-malware software available as an option?	No	_
MLDP-2.3	Does the device documentation allow the owner/operator to install or update anti-malware software?	Yes	_
MLDP-2.4	Can the device owner/operator independently (re-)configure anti-malware settings?	Yes	_
MLDP-2.5	Does notification of malware detection occur in the device user interface?	No	_
MLDP-2.6	Can only manufacturer-authorized persons repair systems when malware has been detected?	No	The owner/operator can re-install Pathfinder SL.
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)?	No	_
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?		_
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	No	_
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	_

NODE AUTHENTICATION (NAUT)

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

NAUT-1	Does the device provide/support any means of node	No	Node Authentication occurs between clients and
	authentication that assures both the sender and the		the Sentinel side.
	recipient of data are known to each other and are		
	authorized to receive transferred information (e.g.		
	Web APIs, SMTP, SNMP)?		

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?	No	_

CONNECTIVITY CAPABILITIES (CONN)

All network and removable media connections must be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device.

	that may be present on the device.		6
CONN-1	Does the device have hardware connectivity	No	Pathfinder SL is a software product
	capabilities?		
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	N/A	
	connectivity (e.g. LTE, Zigbee, proprietary)?		
CONN-1.1.4	Does the device support other wireless connections	N/A	
	(e.g., custom RF controls, wireless detectors)?		
CONN-1.2	Does the device support physical connections?	N/A	
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	No	
	· ·		_
CONN-1.2.2	Does the device have available USB ports?	N/A	
	, i	·	
CONN-1.2.3	Does the device require, use, or support removable	N/A	
	memory devices?		
CONN-1.2.4	Does the device support other physical connectivity?	N/A	
CONN-2	Does the manufacturer provide a list of network	Yes	A list of network ports and protocols is included in
	ports and protocols that are used or may be used on		Sentinel documentation.
	the device?		
CONN-3	Can the device communicate with other systems	Yes	Pathfinder SL communicates with Sentinel
	within the customer environment?		
CONN-4	Can the device communicate with other systems	No	
	external to the customer environment (e.g., a service		
	host)?		
CONN-5	Does the device make or receive API calls?	No	
CONN-6	Does the device require an internet connection for	No	
	its intended use?		
CONN-7	Does the device support Transport Layer Security	Yes	
	(TLS)?		
CONN-7.1	Is TLS configurable?	No	
CONN-8	Does the device provide operator control	No	
33.114 0	functionality from a separate device (e.g.,		_
	telemedicine)?		
	reiemediane):		

PERSON AUTHENTICATION (PAUT)

The ability to configure the device to authenticate

users.

PAUT-1	Does the device support and enforce unique IDs and	No	Sentinel manages user accounts on behalf of the
	passwords for all users and roles (including service		Pathfinder SL.
	accounts)?		

PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)?	N/A	Sentinel manages user accounts on behalf of the Pathfinder SL.
PAUT-2	Is the device configurable to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	No	-
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?	No	_
PAUT-5	Can all passwords be changed?	No	
PAUT-6	Is the device configurable to enforce creation of user account passwords that meet established (organization specific) complexity rules?	No	_
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?	No	_
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)?	No	_
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	Sentinel manages user accounts on behalf of the Pathfinder SL.

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	Yes	
	remaining questions in this section.		
PLOK-2	Are all device components maintaining personally	N/A	_
	identifiable information (other than removable		
	media) physically secure (i.e., cannot remove		
	without tools)?		
PLOK-3	Are all device components maintaining personally	N/A	_
	identifiable information (other than removable		
	media) physically secured behind an individually		
	keyed locking device?		
PLOK-4	Does the device have an option for the customer to	N/A	_
	attach a physical lock to restrict access to removable		
	media?		

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

Manufacturer's plans for security support of thirdparty components within the device's life cycle.

RDMP-1	Was a secure software development process, such as	Yes	
	ISO/IEC 27034 or IEC 62304, followed during product		
	development?		

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?		The list of third-party software is defined in the products' security risk assessment 807-0488-00.

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	Yes	
	method in describing software components?		
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?	Yes	_
SBOM-4	Is there an update process for the SBoM?	Yes	

SYSTEM AND APPLICATION HARDENING (SAHD)

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

	muiwure.		
SAHD-1	Is the device hardened in accordance with any	No	Pathfinder SL is dependent on the controls and
	industry standards?		system hardening of the underlying Windows
			operating system.
SAHD-2	Has the device received any cybersecurity	No	
	certifications?		
SAHD-3	Does the device employ any mechanisms for	No	
	software integrity checking		
SAHD-3.1	Does the device employ any mechanism (e.g.,	N/A	
	release-specific hash key, checksums, digital		
	signature, etc.) to ensure the installed software is		
	manufacturer-authorized?		
SAHD-3.2	Does the device employ any mechanism (e.g.,	N/A	
	release-specific hash key, checksums, digital		
	signature, etc.) to ensure the software updates are		
	the manufacturer-authorized updates?		
SAHD-4	Can the owner/operator perform software integrity	Yes	
	checks (i.e., verify that the system has not been		
	modified or tampered with)?		
SAHD-5	Is the system configurable to allow the	No	_
	implementation of file-level, patient level, or other		
	types of access controls?		
SAHD-5.1	Does the device provide role-based access controls?	N/A	_
SAHD-6	Are any system or user accounts restricted or	No	
S ID 0	disabled by the manufacturer at system delivery?		_
	allocation by the managed or de system delivery:		
SAHD-6.1	Are any system or user accounts configurable by the	N/A	
	end user after initial configuration?		

SAHD-6.2	Does this include restricting certain system or user	N/A	
SAIID 0.2	accounts, such as service technicians, to least	N/A	_
	privileged access?		
SAHD-7	Are all shared resources (e.g., file shares) which are	N/A	Pathfinder does not include shared resources
571112 7	not required for the intended use of the device	14/7	r daminaer abes not include shared resources
	disabled?		
SAHD-8	Are all communication ports and protocols that are	N/A	Pathfinder is not designed nor able to enable or
	not required for the intended use of the device	.,	disable communication ports or protocols.
	disabled?		р
SAHD-9	Are all services (e.g., telnet, file transfer protocol	N/A	Pathfinder is not designed nor able to enable or
	[FTP], internet information server [IIS], etc.), which		disable communication ports or protocols.
	are not required for the intended use of the device		
	deleted/disabled?		
SAHD-10	Are all applications (COTS applications as well as OS-	N/A	Pathfinder is not designed nor able to enable or
	included applications, e.g., MS Internet Explorer,		disable applications.
	etc.) which are not required for the intended use of		
	the device deleted/disabled?		
SAHD-11	Can the device prohibit boot from uncontrolled or	N/A	Pathfinder does not contain mechanisms to control
	removable media (i.e., a source other than an		booting of its host system.
	internal drive or memory component)?		
SAHD-12	Can unauthorized software or hardware be installed	N/A	Pathfinder does not contain mechanisms to control
	on the device without the use of physical tools?		installing of software or hardware of its host
			system.
SAHD-13	Does the product documentation include	No	
	information on operational network security		
	scanning by users?		
SAHD-14	Can the device be hardened beyond the default	No	_
	provided state?		
SAHD-14.1	Are instructions available from vendor for increased	N/A	_
	hardening?		
SHAD-15	Can the system prevent access to BIOS or other	N/A	Pathfinder does not contain mechanisms to control
	bootloaders during boot?		booting of its host system.
SAHD-16	Have additional hardening methods not included in	No	_
	2.3.19 been used to harden the device?		

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	No	
	the owner/operator?		
SGUD-2	Does the device have the capability, and provide	No	
	instructions, for the permanent deletion of data		
	from the device or media?		
SGUD-3	Are all access accounts documented?	N/A	Pathfinder SL does not support access accounts
SGUD-3.1	Can the owner/operator manage password control	N/A	Pathfinder SL does not support accounts
	for all accounts?		
SGUD-4	Does the product include documentation on	No	
	recommended compensating controls for the		
	device?		

HEALTH DATA STORAGE CONFIDENTIALITY (STCF)

The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media.

STCF-1	Can the device encrypt data at rest?	No	
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	_

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STCF-2	Can the encryption keys be changed or configured?	N/A	Encryption is not supported nor applicable.
STCF-3	Is the data stored in a database located on the device?	No	
STCF-4	Is the data stored in a database external to the device?	Yes	_

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 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	Pathfinder SL 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	Pathfinder SL 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	_

TRANSMISSION INTEGRITY (TXIG)

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

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

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

OTHER SECURITY CONSIDERATIONS (OTHR)

NONE

Notes:

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

information