Manufacturer Disclosure Statement for Medical Device Security -- MDS2

Spacelabs Healthcare	98000	091-0412-00 Rev A	May-22
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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	Pathfinder SL Ambulatory ECG	_			
		Version 1.9.4				
DOC-3	Device Model	98000				
DOC-4	Document ID	091-0412-00 Rev A				
DOC-5	Manufacturer Contact Information	Spacelabs Healtcare,				
		35301 SE Center Street,				
		Snoqualmie, WA 98065				
DOC-6	Intended use of device in network-connected	The Pathfinder SL Ambulatory ECG	_			
	environment:	Analyser is a software product. The				
		application runs as a single process				
		on client PCs in Sentinel network				
		topologies. The intended use is to				
		analyse recorded ECG stored in				
		Sentinel to produce a report for a				
		clinician. the output report can be				
		stored in Sentinel or sent to a				
		printer				
DOC 7	Document Release Date	Mar. 22				
DOC-7 DOC-8	Coordinated Vulnerability Disclosure: Does the	May-22 Yes	_			
DOC-8	manufacturer have a vulnerability disclosure program		_			
	for this device?					
DOC-9	ISAO: Is the manufacturer part of an Information	No				
DOC-5	Sharing and Analysis Organization?	140	_			
DOC-10	Diagram: Is a network or data flow diagram available	Yes	We have network diagrams of our DC suite with			
500 10	that indicates connections to other system	.65	Pathfinder SL as part of those models. This is not			
	components or expected external resources?		published and can be made available on request.			
DOC-11	SaMD: Is the device Software as a Medical Device (i.e	. Yes	_			
	software-only, no hardware)?					
DOC-11.1	Does the SaMD contain an operating system?	No				
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				
	MANAGEMENT OF PERSONALLY IDENTIFIABLE	See Note	Note #			
	INFORMATION			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
				1EC 1K 80001-2-2:2012	14131 3P 6UU-33 KEV. 4	130 2/002:2013
	Can this device display, transmit, store, or modify					
A A D U . 4	personally identifiable information (e.g. electronic	v			40.2	. 45 4 4
MPII-1	Protected Health Information (ePHI))?	Yes	_		AR-2	A.15.1.4
MADIL 2	Does the device maintain personally identifiable information?	Yes			AR-2	A.15.1.4
MPII-2	IIIIOIIIIauOII!	163			An-z	A.13.1.4

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			Dathfinder CL stores towninformation (1)
	Doos the device maintain necessally identified		Pathfinder SL stores temporary information within
	Does the device maintain personally identifiable		the volatile memory of the supporting PC. If power
MADU 2.1	information temporarily in volatile memory (i.e., until	V	is lost, newly entered data
MPII-2.1	cleared by power-off or reset)?	Yes	MAY be lost.
	Does the device store personally identifiable	N	
MPII-2.2	information persistently on internal media?	No	_
	-:-		
MADIL 2.2	Is personally identifiable information preserved in the		
MPII-2.3	device's non-volatile memory until explicitly erased?	No	_
MADU 2 4	Does the device store personally identifiable	No	
MPII-2.4	information in a database?	NO	_
	Does the device allow configuration to automatically		
	Does the device allow configuration to automatically delete local personally identifiable information after it		
MADIL 2 F	is stored to a long term solution?	N/A	
MPII-2.5	Does the device import/export personally identifiable	IN/A	_
	information with other systems (e.g., a wearable monitoring device might export personally		
MPII-2.6	identifiable information to a server)?	Yes	
IVIFII-Z.O	Does the device maintain personally identifiable	i es	
	information when powered off, or during power		
MPII-2.7	service interruptions?	No	
IVIPII-2.7	Does the device allow the internal media to be	INO I	_
	removed by a service technician (e.g., for separate		
MPII-2.8	destruction or customer retention)?	N/A	
IVIPII-2.8	Does the device allow personally identifiable	IN/A	_
	information records be stored in a separate location		
	from the device's operating system (i.e. secondary		
	internal drive, alternate drive partition, or remote		
MPII-2.9	storage location)?	No	
MPII-3	Does the device have mechanisms used for the	Yes	
IVIPII-5	transmitting, importing/exporting of personally	res	
	identifiable information?		
	Does the device display personally identifiable		
MPII-3.1	information (e.g., video display, etc.)?	Yes	
IVIPII-5.1	iniorniation (e.g., video display, etc.):	res	_
	Does the device generate hardcopy reports or images		
MPII-3.2	containing personally identifiable information?	Yes	
IVIPII-3.2	containing personally identifiable information:	res	_
	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		
MPII-3.3	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, FireWire,		
MPII-3.4	etc.)?	No	_
	Does the device transmit/receive personally		
	identifiable information via a wired network		Only when sending a report to a local/networked
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	Yes	printer.
	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	

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	Does the device transmit/receive personally					
	identifiable information over an external network					
MPII-3.7	(e.g., Internet)?	No	_		AR-2	A.15.1.4
MPII-3.8	Does the device import personally identifiable information via scanning a document?	No				
IVIPII-3.0	information via scallling a document?	NO				
	Does the device transmit/receive personally					
MPII-3.9	identifiable information via a proprietary protocol?	No				
	Does the device use any other mechanism to					
	transmit, import or export personally identifiable					
MPII-3.10	information?	No			AR-2	A.15.1.4
Management of Priva	ate Data notes:				AR-2	A.15.1.4
	AUTOMATIC LOGOFF (ALOF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's ability to prevent access and misuse by					
	unauthorized users if device is left idle for a period of					
	time.					
	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					
ALOF-1	protected screen saver)?	No		Section 5.1, ALOF	AC-12	None
ALOI-1	protected screen savery:		_	Section 3.1, ALOI	AC 12	None
	la tha langth of innetivity time hafana avea					
	is the length of inactivity time before auto-					
ALOF-2	Is the length of inactivity time before auto- logoff/screen lock user or administrator configurable?	N/A		Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
ALOF-2		N/A		Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
ALOF-2	logoff/screen lock user or administrator configurable?	N/A				
ALOF-2	logoff/screen lock user or administrator configurable? AUDIT CONTROLS (AUDT)	N/A		Section 5.1, ALOF IEC TR 80001-2-2:2012	AC-11 NIST SP 800-53 Rev. 4	A.11.2.8, A.11.2.9 ISO 27002:2013
ALOF-2	logoff/screen lock user or administrator configurable?	N/A	All Audit logging is payformed by Costing			
ALOF-2	logoff/screen lock user or administrator configurable? AUDIT CONTROLS (AUDT)	N/A	All Audit logging is performed by Sentinel.			
ALOF-2	logoff/screen lock user or administrator configurable? AUDIT CONTROLS (AUDT)	N/A				
ALOF-2	logoff/screen lock user or administrator configurable? AUDIT CONTROLS (AUDT)	N/A	Pathfinder SL CAN ONLY be installed on either a			
ALOF-2	logoff/screen lock user or administrator configurable? AUDIT CONTROLS (AUDT)	N/A	Pathfinder SL CAN ONLY be installed on either a Sentinel Client or a Sentinel Workstation. Pathfinder			
ALOF-2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device.		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			ISO 27002:2013
AUDT-1	logoff/screen lock user or administrator configurable? AUDIT CONTROLS (AUDT)		Pathfinder SL CAN ONLY be installed on either a Sentinel Client or a Sentinel Workstation. Pathfinder			
	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or		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	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.5.1.1, A.5.1.2, A.6.1.1,
AUDT-1	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs?	No No	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	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.5.1.1, A.5.1.2, A.6.1.1,
AUDT-1	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail?	No No	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	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.5.1.1, A.5.1.2, A.6.1.1,
AUDT-1 AUDT-1.1	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate	No No	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	IEC TR 80001-2-2:2012 Section 5.2, AUDT	NIST SP 800-53 Rev. 4	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2
AUDT-1 AUDT-1.1 AUDT-1.2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the	No No	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	Section 5.2, AUDT Section 5.2, AUDT	NIST SP 800-53 Rev. 4 AU-1 AU-2	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log:	No No No	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	Section 5.2, AUDT Section 5.2, AUDT Section 5.2, AUDT	AU-1 AU-2 AU-2	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts?	No No No No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None None None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts?	No No No No No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None None None None None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2 AUDT-2.3	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges?	No No No No No No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	ISO 27002:2013 A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None None None None None None None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts?	No No No No No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None None None None None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2 AUDT-2.3	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges? Creation/modification/deletion of users?	No No No No No No No No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	ISO 27002:2013 A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None None None None None None None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2 AUDT-2.3 AUDT-2.4 AUDT-2.5	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges?	No No No No No No No No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2 None None None None None None None None None None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2 AUDT-2.3 AUDT-2.4	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges? Creation/modification/deletion of users? Presentation of clinical or PII data (e.g. display, print)?	No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2.1 AUDT-2.2 AUDT-2.3 AUDT-2.4 AUDT-2.5	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges? Creation/modification/deletion of users? Presentation of clinical or PII data (e.g. display, print)? Creation/modification/deletion of data?	No	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	Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2 AUDT-2.3 AUDT-2.4 AUDT-2.5 AUDT-2.6	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges? Creation/modification/deletion of users? Presentation of clinical or PII data (e.g. display, print)? Creation/modification/deletion of data? Import/export of data from removable media (e.g.	No N	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	Section 5.2, AUDT Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	None
AUDT-1 AUDT-1.1 AUDT-1.2 AUDT-2 AUDT-2.1 AUDT-2.2 AUDT-2.3 AUDT-2.4 AUDT-2.5 AUDT-2.6	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device. Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID? Does other personally identifiable information exist in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log: Successful login/logout attempts? Unsuccessful login/logout attempts? Modification of user privileges? Creation/modification/deletion of users? Presentation of clinical or PII data (e.g. display, print)? Creation/modification/deletion of data? Import/export of data from removable media (e.g. USB drive, external hard drive, DVD)?	No N	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	Section 5.2, AUDT Section 5.2, AUDT	AU-1 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2 AU-2	None

CYBER SECURITY PRODUCT UPGRADES (CSUP)

Spacelabs Healthcare	re 98000	091-0412-00 Rev	A May-22			
	Application Programming Interface (API) and similar]		
AUDT-2.8.2	activity?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-2.9	Emergency access?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-2.10	Other events (e.g., software updates)?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-2.11	Is the audit capability documented in more detail?	No	_	Section 5.2, AUDT	AU-2	None
	Can the owner/operator define or select which					
AUDT-3	events are recorded in the audit log?	No		Section 5.2, AUDT	AU-2	None
	Is a list of data attributes that are captured in the					
AUDT-4	audit log for an event available?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-4.1	Does the audit log record date/time?	No	_	Section 5.2, AUDT	AU-2	None
	Can date and time be synchronized by Network Time					
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-5	Can audit log content be exported?	No	_	Section 5.2, AUDT	AU-2	None
AUDT-5.1	Via physical media?	No	_			
	Via IHE Audit Trail and Node Authentication (ATNA)					
AUDT-5.2	profile to SIEM?	No	_			
	Via Other communications (e.g., external service					
AUDT-5.3	device, mobile applications)?	No	_			
	Are audit logs encrypted in transit or on storage					
AUDT-5.4	media?	No	_			
	Can audit logs be monitored/reviewed by					
AUDT-6	owner/operator?	No	_			
		No		Section 5.2, AUDT	AU-2	None
AUDT-7	Are audit logs protected from modification?					
AUDT-7 AUDT-7.1	Are audit logs protected from access?	No				
AUDT-7	Are audit logs protected from access? Can audit logs be analyzed by the device?		_	Section 5.2, AUDT	AU-2	None
AUDT-7 AUDT-7.1	Are audit logs protected from access? Can audit logs be analyzed by the device? AUTHORIZATION (AUTH) The ability of the device to determine the	No		Section 5.2, AUDT IEC TR 80001-2-2:2012	AU-2 NIST SP 800-53 Rev. 4	None ISO 27002:2013
AUDT-7 AUDT-7.1	Are audit logs protected from access? Can audit logs be analyzed by the device? AUTHORIZATION (AUTH) The ability of the device to determine the authorization of users.	No No	Pathfinder SL does not directly prevent access. The	•		
AUDT-7 AUDT-7.1	Are audit logs protected from access? Can audit logs be analyzed by the device? AUTHORIZATION (AUTH) The ability of the device to determine the authorization of users. Does the device prevent access to unauthorized users	No No	Pathfinder SL does not directly prevent access. The	•		
AUDT-7 AUDT-7.1 AUDT-8	Are audit logs protected from access? Can audit logs be analyzed by the device? 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	No No	authorization to use Pathfinder SL is granted by	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
AUDT-7 AUDT-7.1	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism?	No No		•		
AUDT-7 AUDT-7.1 AUDT-8	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated	No No	authorization to use Pathfinder SL is granted by	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
AUDT-7 AUDT-7.1 AUDT-8	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization	No No	authorization to use Pathfinder SL is granted by	IEC TR 80001-2-2:2012 Section 5.3, AUTH	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	No No	authorization to use Pathfinder SL is granted by	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device	No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH Section 5.3, AUTH	NIST SP 800-53 Rev. 4	A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)?	No No	authorization to use Pathfinder SL is granted by	IEC TR 80001-2-2:2012 Section 5.3, AUTH	NIST SP 800-53 Rev. 4	ISO 27002:2013 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required?	No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH Section 5.3, AUTH	NIST SP 800-53 Rev. 4	A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH Section 5.3, AUTH Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or	No No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?	No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	NIST SP 800-53 Rev. 4 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)? Does the device authorize or control all API access	No No No No No No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?	No No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)? Does the device authorize or control all API access requests?	No No No No No No No No No	authorization to use Pathfinder SL is granted by permission held within the Sentinel system	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1
AUDT-7 AUDT-7.1 AUDT-8 AUTH-1 AUTH-1.1 AUTH-1.2 AUTH-1.3 AUTH-2	Are audit logs protected from access? Can audit logs be analyzed by the device? 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 mechanism? Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device (e.g., Active Directory)? Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)? Does the device authorize or control all API access	No No No No No No No No No	authorization to use Pathfinder SL is granted by	Section 5.3, AUTH	IA-2 IA-2 IA-2 IA-2 IA-2 IA-2 IA-2	A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1 A.9.2.1

IEC TR 80001-2-2:2012

ISO 27002:2013

NIST SP 800-53 Rev. 4

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

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				1	
	Does the device contain Non-Operating System				
	commercial off-the-shelf components? If yes,				
CSUP-5	complete 5.1-5.4.	Yes			
	Does the device documentation provide instructions		The COTS components are built in to the Pathfinder		
	for owner/operator installation of patches or		SL system, patches or updates will require a new		
CSUP-5.1	software updates?	No	version of Pathfinder SL.		
000. 0.1	sortware apaates.		Version of Facilities SE		
	Does the device require vendor or vendor-authorized				
CSUP-5.2	service to install patches or software updates?	No			
C30F-3.2	service to instail patches of software updates:	NO			
	Book the decision of the control of				
	Does the device have the capability to receive remote				
CSUP-5.3	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-5.4	manufacturer?	No			
	Does the device contain other software components				
	(e.g., asset management software, license				
	management)? If yes, please provide details or				
CSUP-6	refernce in notes and complete 6.1-6.4.	No			
C301-0	Does the device documentation provide instructions	No			
	for owner/operator installation of patches or				
CCLID C 1	· · · · · · · · · · · · · · · · · · ·	Vaa			
CSUP-6.1	software updates?	Yes			
	Does the device require vendor or vendor-authorized				
CSUP-6.2	service to install patches or software updates?	No	_		
	Does the device have the capability to receive remote				
CSUP-6.3	installation of patches or software updates?	Yes			
	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?	No			
	Does the manufacturer notify the customer when				
CSUP-7	updates are approved for installation?	Yes	_		
	Does the device perform automatic installation of				
CSUP-8	software updates?	No			
	Does the manufacturer have an approved list of third-				
CSUP-9	party software that can be installed on the device?	No			
	Can the owner/operator install manufacturer-				
	approved third-party software on the device				
CSUP-10	themselves?	No			
C30F-10	Does the system have mechanism in place to prevent	140	_		
CCUP 10 1	installation of unapproved software?	Vos			
CSUP-10.1		Yes	_		
	Does the manufacturer have a process in place to				
CSUP-11	assess device vulnerabilities and updates?	Yes			
	Does the manufacturer provide customers with				
CSUP-11.1	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) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

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	The ability of the device to directly remove information that allows identification of a person.					
	Does the device provide an integral capability to de-]		
DIDT-1	identify personally identifiable information?	No		Section 5.6, DIDT	None	ISO 27038
	Does the device support de-identification profiles					
	that comply with the DICOM standard for de-					
DIDT-1.1	identification?	No	_	Section 5.6, DIDT	None	ISO 27038
	DATA BACKUP AND DISASTER RECOVERY					
	(DTBK)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	•			IEC 1K 80001-2-2.2012	NIST 3F 800-33 Rev. 4	130 27002.2013
	The ability to recover after damage or destruction of					
	device data, hardware, software, or site configuration information.	1				
	Does the device maintain long term primary storage			1		
	of personally identifiable information / patient					
DTBK-1	information (e.g. PACS)?	No				
5 1 5 K 1	Does the device have a "factory reset" function to		_			
	restore the original device settings as provided by the					
DTBK-2	manufacturer?	No		Section 5.7, DTBK	CP-9	A.12.3.1
	Does the device have an integral data backup			,		
DTBK-3	capability to removable media?	No		Section 5.7, DTBK	CP-9	A.12.3.1
	Does the device have an integral data backup					
DTBK-4	capability to remote storage?	No				
	Does the device have a backup capability for system					
	configuration information, patch restoration, and					
DTBK-5	software restoration?	No				
	Does the device provide the capability to check the					
DTBK-6	integrity and authenticity of a backup?	No		Section 5.7, DTBK	CP-9	A.12.3.1
	ENAFROENCY A COPCC (FNARC)			IEC TD 90001 3 3:3013	NICT CD COO E2 Dov. 4	ISO 27002:2013
	EMERGENCY ACCESS (EMRG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	130 27002:2013
	The different decision of the					
	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.					
	Does the device incorporate an emergency access (i.e.			1		
EMRG-1	"break-glass") feature?	No		Section 5.8, EMRG	SI-17	None
LIVING-1	break-glass freature:	NO		Section 3.8, Living	31-17	None
	HEALTH DATA INTEGRITY AND AUTHENTICITY					
	(IGAU)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	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.					
	Does the device provide data integrity checking]		
	mechanisms of stored health data (e.g., hash or					
IGAU-1	digital signature)?	No		Section 5.9, IGAU	SC-28	A.18.1.3
	Does the device provide error/failure protection and			1		
	recovery mechanisms for stored health data (e.g.,					
IGAU-2	RAID-5)?	No		Section 5.9, IGAU	SC-28	A.18.1.3
	MALWARE DETECTION/PROTECTION (MLDP)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013

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

	ana remove malicious software (malware).	1	1
MLDP-1	Is the device capable of hosting executable software?	No	
	Does the device support the use of anti-malware		
	software (or other anti-malware mechanism)?		Please refer exclusions from real time antivirus
MLDP-2	Provide details or reference in notes.	Yes	scanning document :077-0255-00 Rev G
	Does the device include anti-malware software by		, and the second
MLDP-2.1	default?	No	
	Does the device have anti-malware software available		
MLDP-2.2	as an option?	No	
	Does the device documentation allow the		
	owner/operator to install or update anti-malware		
MLDP-2.3	software?	Yes	
	Can the device owner/operator independently (re-		
MLDP-2.4)configure anti-malware settings?	Yes	
	Does notification of malware detection occur in the		
MLDP-2.5	device user interface?	N/A	
	Can only manufacturer-authorized persons repair		
MLDP-2.6	systems when malware has been detected?	N/A	
MLDP-2.7	Are malware notifications written to a log?	N/A	
	Are there any restrictions on anti-malware (e.g.,		
MLDP-2.8	purchase, installation, configuration, scheduling)?	N/A	
	If the answer to MLDP-2 is NO, and anti-malware		
	cannot be installed on the device, are other		
MLDP-3	compensating controls in place or available?	N/A	
	Does the device employ application whitelisting that		
	restricts the software and services that are permitted		
MLDP-4	to be run on the device?	N/A	
	Does the device employ a host-based intrusion		
MLDP-5	detection/prevention system?	N/A	_
	Can the host-based intrusion detection/prevention		
MLDP-5.1	system be configured by the customer?	N/A	
	Can a host-based intrusion detection/prevention		
MLDP-5.2	system be installed by the customer?	N/A	

Section 5.10, MLDP	SI-3	A.12.2.1 A.9.2.3, A.9.4.5, A.12.1.2,
Section 5.10, MLDP	CM-5	A.12.1.4, A.12.5.1
Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
Section 5.10, MLDP	CP-10	A.17.1.2
Section 5.10, MLDP	AU-2	None
		A.12.6.1, A.14.2.2, A.14.2.3,
Section 5.10, MLDP	SI-2	A.16.1.3
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

NODE AUTHENTICATION (NAUT)

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

	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		
	authorized to receive transferred information (e.g.		Node Authentication occurs between clients and the
NAUT-1	Web APIs, SMTP, SNMP)?	No	Sentinel side.
	Are network access control mechanisms supported		
	(E.g., does the device have an internal firewall, or use		
NAUT-2	a network connection white list)?	N/A	_
	Is the firewall ruleset documented and available for		
NAUT-2.1	review?	No	_
	Does the device use certificate-based network		
NAUT-3	connection authentication?	No	

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

CM-7

None

A.12.5.1

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
500000000000000000000000000000000000000	50 /	, 1131211), 111 11113

CONNECTIVITY CAPABILITIES (CONN) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013

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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.		
	Does the device have hardware connectivity		
CONN-1	capabilities?	N/A	Pathfinder SL 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	
	Does the device support other wireless network		
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)?	No	
	Does the device support other wireless connections		
CONN-1.1.4	(e.g., custom RF controls, wireless detectors)?	No	
CONN-1.2	Does the device support physical connections?	N/A	
	7	,	
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	N/A	
001111 21212	boos the device have available to is Ethernet ports.	1.4/	_
CONN-1.2.2	Does the device have available USB ports?	No	
CONN-1.2.2	Does the device require, use, or support removable	140	
CONN-1.2.3	memory devices?	No	
CONN-1.2.5	memory devices:	NO	_
CONN-1.2.4	Does the device support other physical connectivity?	No	
CONN-1.2.4	Does the manufacturer provide a list of network ports	-	— Pathfinder SL does not communicate over a
	and protocols that are used or may be used on the		network. Network comms is a Sentinel function.
CONN 2	device?	N/A	network. Network comms is a Sentinei function.
CONN-2		N/A	Dathfinder Cline and was and death that will be
CONNIA	Can the device communicate with other systems	21/2	Pathfinder SL is a software product that will be
CONN-3	within the customer environment?	N/A	hosted on customer hardware.
	Can the device communicate with other systems		
	external to the customer environment (e.g., a service		
CONN-4	host)?	N/A	_
CONN-5	Does the device make or receive API calls?	N/A	
	Does the device require an internet connection for its		
CONN-6	intended use?	Yes	
	Does the device support Transport Layer Security		
CONN-7	(TLS)?	Yes	
			This is a software application. TLS configurations are
CONN-7.1	Is TLS configurable?	No	applied at the OS layer.
	Does the device provide operator control		
	functionality from a separate device (e.g.,		
CONN-8	telemedicine)?	No	
	- r ·		_

PERSON AUTHENTICATION (PAUT)

The ability to configure the device to authenticate users.

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	Does the device support and enforce unique IDs and		
	passwords for all users and roles (including service		Sentinel manages user accounts on behalf of the
PAUT-1	accounts)?	No	Pathfinder SL.
TAGTI	Does the device enforce authentication of unique IDs		i daminder de
	and passwords for all users and roles (including		
PAUT-1.1	service accounts)?	No	
77.07 2.2	Is the device configurable to authenticate users		_
	through an external authentication service (e.g., MS		
PAUT-2		No	
	Is the device configurable to lock out a user after a		_
PAUT-3	certain number of unsuccessful logon attempts?	No	
	Are all default accounts (e.g., technician service		
	accounts, administrator accounts) listed in the		
PAUT-4	documentation?	No	
PAUT-5	Can all passwords be changed?	No	
	Is the device configurable to enforce creation of user		
	account passwords that meet established		
PAUT-6	(organization specific) complexity rules?	No	
	Does the device support account passwords that		
PAUT-7	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	_
	Does the device support physical tokens (e.g. badge		
PAUT-12	access)?	No	
	Does the device support group authentication (e.g.		
PAUT-13	hospital teams)?	No	_
	Does the application or device store or manage		
PAUT-14	authentication credentials?	No	
PAUT-14.1	Are credentials stored using a secure method?	No	

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

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

	Is the device software only? If yes, answer "N/A" to	
PLOK-1	remaining questions in this section.	Yes
	Are all device components maintaining personally	
	identifiable information (other than removable	
	media) physically secure (i.e., cannot remove without	
PLOK-2	tools)?	N/A
	Are all device components maintaining personally	
	identifiable information (other than removable	
	media) physically secured behind an individually	
PLOK-3	keyed locking device?	N/A
	Does the device have an option for the customer to	
	attach a physical lock to restrict access to removable	
PLOK-4	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
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

specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-

authorized?

SAHD-3.1

98000 May-22 Spacelabs Healthcare 091-0412-00 Rev A ROADMAP FOR THIRD PARTY COMPONENTS IN IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013 DEVICE LIFE CYCLE (RDMP) Manufacturer's plans for security support of thirdparty components within the device's life cycle. Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product RDMP-1 development? Section 5.14, RDMP CM-2 None Does the manufacturer evaluate third-party applications and software components included in RDMP-2 the device for secure development practices? Section 5.14, RDMP CM-8 A.8.1.1, A.8.1.2 Does the manufacturer maintain a web page or other source of information on software support dates and RDMP-3 updates? Section 5.14, RDMP CM-8 A.8.1.1, A.8.1.2 The list of third-party software is defined in the Does the manufacturer have a plan for managing RDMP-4 third-party component end-of-life? products' software development plan. CM-8 A.8.1.1, A.8.1.2 Yes Section 5.14, RDMP SOFTWARE BILL OF MATERIALS (SBoM) IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013 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. Is the SBoM for this product available? SBOM-1 Yes Does the SBoM follow a standard or common method in describing software components? SBOM-2 SBOM-2.1 Are the software components identified? Are the developers/manufacturers of the software SBOM-2.2 components identified? Are the major version numbers of the software SBOM-2.3 components identified? SBOM-2.4 Are any additional descriptive elements identified? N/A Does the device include a command or process method available to generate a list of software components installed on the device? SBOM-3 SBOM-4 Is there an update process for the SBoM? Yes IEC TR 80001-2-2:2012 NIST SP 800-53 Rev. 4 ISO 27002:2013 SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and CM-7 A.12.5.1* malware. Pathfinder SL is dependent on the controls and Is the device hardened in accordance with any A.6.2.1, A.6.2.2, A.13.1.1, system hardening of the underlying Windows SAHD-1 industry standards? operating system. Section 5.15, SAHD AC-17(2)/IA-3 A.13.2.1, A.14.1.2/None Has the device received any cybersecurity A.14.2.7, A.15.1.1, A.15.1.2, Section 5.15, SAHD SAHD-2 certifications? SA-12(10) A.15.1.3 Does the device employ any mechanisms for software SAHD-3 ntegrity checking Does the device employ any mechanism (e.g., release

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	Does the device employ any mechanism (e.g., release			1		
	specific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer					
CALID 2.2	•			Continue E 1E CAUD	CNA	4011 4012
SAHD-3.2	authorized updates?	No	_	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
	Can the owner/operator perform software integrity					A.6.2.2, A.9.1.2, A.9.4.1,
	checks (i.e., verify that the system has not been					A.9.4.4, A.9.4.5, A.13.1.1,
SAHD-4	modified or tampered with)?	Yes	_	Section 5.15, SAHD	AC-3	A.14.1.2, A.14.1.3, A.18.1.3
	Is the system configurable to allow the					
	implementation of file-level, patient level, or other					
SAHD-5	types of access controls?	No		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-5.1	Does the device provide role-based access controls?	No		Section 5.15, SAHD	CM-7	A.12.5.1*
SATID-3.1	Are any system or user accounts restricted or	INO	_	Section 5.15, SAITE	CIVI-7	A.12.3.1
SAHD-6	disabled by the manufacturer at system delivery?	N/A		Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
ЗАПИ-0	Are any system or user accounts configurable by the	N/A		Section 5.15, SAND	CIVI-8	A.o.1.1, A.o.1.2
CALID C 1	end user after initial configuration?	N/A		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.1	Does this include restricting certain system or user	N/A	-	Section 3.13, SAITE	CIVI-7	A.12.5.1
	accounts, such as service technicians, to least					
SAHD-6.2	privileged access?	21/2		Continue E 1E CAUD	CM-7	A.12.5.1*
SAHD-6.2	Are all shared resources (e.g., file shares) which are	N/A	_	Section 5.15, SAHD	CIVI-7	A.12.5.1*
SAHD-7	not required for the intended use of the device disabled?	NI		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-7		No	Deth finder Clie and the control of Control	Section 5.15, SAHD	CIVI-7	A.12.5.1*
	Are all communication ports and protocols that are not required for the intended use of the device		Pathfinder SL is a software product. Spacelabs can			
SAHD-8	disabled?	Yes	provide the necessary ports and protocols for	Section 5.15, SAHD	SA-18	None
SAHD-8		res	customers to configure.	Section 5.15, SAHD	5A-18	None
	Are all services (e.g., telnet, file transfer protocol					
	[FTP], internet information server [IIS], etc.), which					
CALID	are not required for the intended use of the device deleted/disabled?	N/A		Section 5.15, SAHD	CM-6	None
SAHD-9		N/A	_	Section 5.15, SAHD	CIVI-6	None
	Are all applications (COTS applications as well as OS-					
	included applications, e.g., MS Internet Explorer, etc.)					
CALID 40	which are not required for the intended use of the	N/A		Continue E 1E CALID	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
SAHD-10	device deleted/disabled? Can the device prohibit boot from uncontrolled or	N/A	_	Section 5.15, SAHD	31-2	A.10.1.5
SAHD-11	removable media (i.e., a source other than an internal					
SAHD-11	drive or memory component)?	N/A	_			
	Can unauthorized software or hardware be installed					
SAHD-12	on the device without the use of physical tools?	N/A				
SATID-12	on the device without the use of physical tools:	N/A	_			
	Does the product documentation include information					
SAHD-13	on operational network security scanning by users?	N/A				
SAIID-13	Can the device be hardened beyond the default	N/A				
SAHD-14	provided state?	N/A				
2011D-14	Are instructions available from vendor for increased	11/1	-	1		
SAHD-14.1	hardening?	N/A				
3AUD-14.1	Can the system prevent access to BIOS or other	N/A		1		
SHAD-15	bootloaders during boot?	N/A				
31 IAU-13	Have additional hardening methods not included in	N/A		1		
SAHD-16	2.3.19 been used to harden the device?	N/A				
2V110-10	2.5.15 been used to harden the device!	N/PS		1		

SECURITY GUIDANCE (SGUD)

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

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	Does the device include security documentation for			Cooling Edg COUR	AT 2/DL 2	. 7.2.2.4.4.2.2.4/2.4.4.4.4
SGUD-1	the owner/operator? Does the device have the capability, and provide	No		Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
	instructions, for the permanent deletion of data from					A.8.2.3, A.8.3.1, A.8.3.2,
SGUD-2	the device or media?	N/A		Section 5.16, SGUD	MP-6	A.11.2.7
5005 2	and device of inicula.	, and a second s	_	300000000000000000000000000000000000000	0	A.9.1.2, A.9.2.3, A.9.4.4,
SGUD-3	Are all access accounts documented?	N/A		Section 5.16, SGUD	AC-6,IA-2	A.9.4.5/A.9.2.1
	Can the owner/operator manage password control					
SGUD-3.1	for all accounts?	N/A	_			
	Does the product include documentation on					
SGUD-4	recommended compensating controls for the device?	N/A				
	HEALTH DATA STORAGE CONFIDENTIALITY					
	(STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	(0.0.)					
	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	_	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.1	Is all data encrypted or otherwise protected?	N/A				
	Is the data encryption capability configured by					
STCF-1.2	default?	N/A				
CTCF 4.3	Are instructions available to the customer to	01/0				
STCF-1.3	configure encryption?	N/A				
STCF-2	Can the encryption keys be changed or configured?	N/A		Section 5.17, STCF	SC-28	A.8.2.3
3101-2	Is the data stored in a database located on the	IV/A		Section 5.17, 51ci	36-28	A.6.2.3
STCF-3	device?	N/A				
5.5.5	Is the data stored in a database external to the					
STCF-4	device?	Yes	_			
	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
	Can personally identifiable information be					
	transmitted only via a point-to-point dedicated					
TXCF-1	cable?	No		Section 5.18, TXCF	CM-7	A.12.5.1
	Is personally identifiable information encrypted prior					
TXCF-2	to transmission via a network or removable media?	No	_	Section 5.18, TXCF	CM-7	A.12.5.1
	If data is not encrypted by default, can the customer					
TXCF-2.1	configure encryption options?	No	_			
			Pathfinder SL is a software product. It is			
	Is personally identifiable information transmission		recommended that customers follow the Spacelabs			
TXCF-3	restricted to a fixed list of network destinations?	See Notes	networking deployment guide.	Section 5.18, TXCF	CM-7	A.12.5.1
			Pathfinder SL is a software product. It is			
			recommended that customers follow the Spacelabs			
TXCF-4	Are connections limited to authenticated systems?	See Notes	networking deployment guide.	Section 5.18, TXCF	CM-7	A.12.5.1
-	<u> </u>			.		

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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.			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? Does the device include multiple sub-components	No		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
TXIG-2	,	N/A				
	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.		AC-17	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2
RMOT-1.1		N/A				
RMOT-1.2	Is there an indicator for an enabled and active remote session? Can patient data be accessed or viewed from the	N/A				A.6.2.1, A.6.2.2, A.13.1.1,
RMOT-1.3	l '	N/A	_		AC-17	A.13.2.1, A.14.1.2
RMOT-2	connections for predictive maintenance data? Does the device have any other remotely accessible functionality (e.g. software updates, remote	N/A				
RMOT-3	training)?	N/A				

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

NONE

Notes:

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

Note 1 information