Manufacturer Disclosure Statement for Medical Device Security -- MDS2

0		Objective ID: A601330	24-Apr-20
	Question		See note
Question ID	Question		See note
DOC-1	Manufacturer Name	Nanosonics Limited	_
OC-2	Device Description	Automated High Level Disinfection System for Ultrasound Probes	<u> </u>
OC-3	Device Model	trophon2 - Software Version: v1.6	<u> </u>
DOC-4	Document ID	Objective ID: A601330	_
		7-11 Talavera Road, Macquarie Park	
		NSW 2113 Australia	
		T: +61 2 8063 1600,	
DOC-5	Manufacturer Contact Information	E: customerservice@nanosonics.com.au	
			_
		The trophon2 device is a stand-alone high-level disinfection medical device	
		with embedded software. The device does not store electronic Protected	
		Health Information (ePHI). There are no other related software or other	
		components that need to be installed or configured for the device to operate.	
		Data about the disinfection cycles completed by the trophon2 device are	
		stored in the device and accessible (read only) via a thermal printer, download	
		to USB Drive, or via a network connection. Data is accessible (read only) to 3rd	
	Intended use of device in network-connected	party applications over the network. Security is provided via user-level	
00C-6	environment:	authentication with TLS and X.509 certificates.	
000-7	Document Release Date	24/04/2023	
	bocument nelease bate	24/04/2023	′ —
			Nanosonics is an ISO 27001 compliant organisatio
	Coordinated Vulnerability Disclosure: Does the		and has existing vulnerability management policie
	manufacturer have a vulnerability disclosure	Vor	and procedures as part of its Information Security
DOC-8	program for this device?	Yes	Management System (ISMS).
	ISAO: Is the manufacturer part of an Information	Ne	
DOC-9	Sharing and Analysis Organization?	No	
		Ethernet IIIII III	
		Connector RJ45	
		Hospital/Clinic	
	Diservers la sustanti en dete fless diservers escilette	Network	
	Diagram: Is a network or data flow diagram available	open for for basis to	
	that indicates connections to other system	allow communication	
DOC-10	components or expected external resources?		-
	SaMD: Is the device Software as a Medical Device		
DOC-11	(i.e. software-only, no hardware)?	No	
DOC-11.1	Does the SaMD contain an operating system?	N/A	
	Does the SaMD rely on an owner/operator provided		
DOC-11.2	operating system?	N/A	
	Is the SaMD hosted by the manufacturer?		
DOC-11.3		N/A	
DOC-11.4	Is the SaMD hosted by the customer?	N/A	
			-
		Yes, No,	
		N/A, or	
		See Note	Note #
	MANAGEMENT OF PERSONALLY IDENTIFIABLE		
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	MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION		
	INFORMATION		The trophon2 device does not maintain ePHI,
	INFORMATION Can this device display, transmit, store, or modify		however it does maintain PII, as the Operator Nar
	INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic		however it does maintain PII, as the Operator Nar is recorded with each disinfection cycle when the
MPII-1	INFORMATION Can this device display, transmit, store, or modify	Yes	however it does maintain PII, as the Operator Nar is recorded with each disinfection cycle when the AcuTrace feature is enabled.
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Nanosonics Limited	trophon2 - Software Version: v1.6	Objective ID: A601330	24-Apr-2023
MPII-2.9	Does the device allow personally identifiable information records be stored in a separate location from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote storage location)?	No	Using the 3rd party web service interface, customer can retrieve the information and store in their server.
	Does the device have mechanisms used for the		The trophon2 device allows for the export of HLD cycle logs in a .csv format via USB connection. The
MPII-3	transmitting, importing/exporting of personally identifiable information?	Yes	cycle logs contain the Operator Name allocated to different steps of each cycle.
MPII-3.1	Does the device display personally identifiable information (e.g., video display, etc.)?	Yes	_
MPII-3.2	Does the device generate hardcopy reports or images containing personally identifiable information?	Yes	_
MPII-3.3	Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable- HDD, USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD card, memory stick, etc.)? Does the device transmit/receive or import/export	Yes	_
MPII-3.4	personally identifiable information via dedicated cable connection (e.g., RS-232, RS-423, USB, FireWire, etc.)? Does the device transmit/receive personally	Yes	_
MPII-3.5	identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)? Does the device transmit/receive personally identifiable information via a wireless network	Yes	-
MPII-3.6	connection (e.g., WiFi, Bluetooth, NFC, infrared, cellular, etc.)? Does the device transmit/receive personally	No	-
MPII-3.7	identifiable information over an external network (e.g., Internet)? Does the device import personally identifiable	No	_
MPII-3.8	information via scanning a document?	No	Customer-facing HLD cycle logs can be downloaded
MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol? Does the device use any other mechanism to transmit, import or export personally identifiable	Yes	via USB and Technical HLD cycle logs can be downloaded via S&M. Customer-facing HLD cycle logs can be downloaded via USB and Technical HLD cycle logs can be
MPII-3.10 Management of Priva	information? te Data notes:	Yes	downloaded via S&M.
	AUTOMATIC LOGOFF (ALOF) The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.		
ALOF-1	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password protected screen saver)?	N/A	The trophon2 device does not use passwords to restrict access to system operation upon initial login. Passwords are not used to facilitate operation of the trophon2 device. The trophon2 device does not use passwords to
ALOF-2	Is the length of inactivity time before auto- logoff/screen lock user or administrator configurable?	N/A	restrict access to system operation upon initial login. Passwords are not used to facilitate operation of the trophon2 device.
	AUDIT CONTROLS (AUDT)		
	The ability to reliably audit activity on the device.		The trophon2 device produces customer-facing HLD
AUDT-1 AUDT-1.1	Can the medical device create additional audit logs or reports beyond standard operating system logs? Does the audit log record a USER ID?	Yes Yes	logs that can be downloaded via USB in a .csv file format. These cycle logs can be used for audit purposes.
AUDT-1.2	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	
AUDT-2 AUDT-2.1	audit log: Successful login/logout attempts?	Yes N/A	_
AUDT-2.2	Unsuccessful login/logout attempts?	N/A	_
AUDT-2.3 AUDT-2.4	Modification of user privileges? Creation/modification/deletion of users? Presentation of clinical or PII data (e.g. display,	N/A N/A	
AUDT-2.5 AUDT-2.6	print)? Creation/modification/deletion of data?	No Yes	-
AUDT-2.7	Import/export of data from removable media (e.g. USB drive, external hard drive, DVD)?	Yes	_
AUDT-2.8 AUDT-2.8.1	Receipt/transmission of data or commands over a network or point-to-point connection? Remote or on-site support?	Yes Yes	-
AUDT-2.8.2	Application Programming Interface (API) and similar activity?	No	_
AUDT-2.9 AUDT-2.10	Emergency access? Other events (e.g., software updates)?	N/A Yes	The trophon2 device produces technical HLD cycle
AUDT-2.11	Is the audit capability documented in more detail?	Yes	logs which can be downloaded by an authorised technician via S&M.
AUDT-3	Can the owner/operator define or select which events are recorded in the audit log?	No	

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	Is a list of data attributes that are captured in the	
AUDT-4	audit log for an event available?	Yes
AUDT-4.1	Does the audit log record date/time?	Yes
	Can date and time be synchronized by Network Time	
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	Yes
AUDT-5	Can audit log content be exported?	Yes
AUDT-5.1	Via physical media?	Yes
	Via IHE Audit Trail and Node Authentication (ATNA)	
AUDT-5.2	profile to SIEM?	N/A
	Via Other communications (e.g., external service	
AUDT-5.3	device, mobile applications)?	Yes
	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?	Yes
AUDT-7	Are audit logs protected from modification?	Yes
AUDT-7.1	Are audit logs protected from access?	No
AUDT-8	Can audit logs be analyzed by the device?	No

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AUTHORIZATION (AUTH)

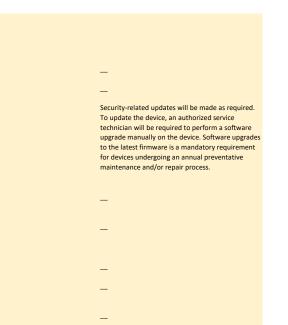
The ability of the device to determine the authorization of users.

	Does the device prevent access to unauthorized	
AUTH-1	users through user login requirements or other mechanism? Can the device be configured to use federated	See Notes
AUTH-1.1	credentials management of users for authorization (e.g., LDAP, OAuth)? Can the customer push group policies to the device	N/A
AUTH-1.2	(e.g., Active Directory)?	N/A
AUTH-1.3	Are any special groups, organizational units, or group policies required? Can users be assigned different privilege levels based	N/A
AUTH-2	on 'role' (e.g., user, administrator, and/or service, etc.)?	No
	Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or	
AUTH-3	administrator account)?	No
AUTH-4	Does the device authorize or control all API access requests? Does the device run in a restricted access mode, or	Yes
AUTH-5	'kiosk mode', by default?	N/A

CYBER SECURITY PRODUCT UPGRADES (CSUP)

device's security patches. Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section. CSUP-1 questions in this section. Does the device contain an Operating System? If yes, CSUP-2 Yes CSUP-2 complete 2.1-2.4. Vest Does the device documentation provide instructions for owner/operator installation of patches or software updates? No CSUP-2.1 software updates? No Does the device require vendor or vendor-authorized service to install patches or software updates? Yes CSUP-2.2 service to install patches or software updates? No Does the device have the capability to receive remote installation of patches or software updates? No CSUP-2.3 Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4. Yes Does the device documentation provide instructions for owner/operator installation of patches or SUP-3.1 Software updates? No CSUP-3.2 Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4. Yes Yes Does the device require vendor or vendor-authorized service to install patches or software updates? Yes Does the device requi		The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade	
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 Does the device contain an Operating System? If yes, CSUP-2 Yes Does the device contain an Operating System? If yes, complete 2.1-2.4. Yes Does the device documentation provide instructions for owner/operator installation of patches or Software updates? No CSUP-2.1 Software updates? No Does the device contain of patches or software updates? No CSUP-2.2 Service to install patches or software updates? No CSUP-2.3 Does the device have the capability to receive remote installation of patches or software updates? No CSUP-2.4 manufacturer? No Does the device contain Drivers and Firmware? If yes, Microsoft) to be installed without approval from the manufacturer? No CSUP-3.1 software updates? No CSUP-3.1 software updates? No CSUP-3.2 Does the device documentation provide instructions for owner/operator installation of patches or No CSUP-3.1 software updates? No CSUP-3.2 Does the device documentation provide instructions for owner/operator installation of patches or No CSUP-3.1 software up			
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CSUP-2.2 service to install patches or software updates? Yes Does the device have the capability to receive remote installation of patches or software updates? No Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer? No CSUP-2.4 moundacturer? N/ Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4. Yes CSUP-3.1 software updates? No CSUP-3.2 boes the device require vendor or vendor-authorized service to install patches or software updates? Yes Does the device require vendor or vendor-authorized service to install patches or software updates? Yes			
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Does the device contain Drivers and Firmware? If CSUP-3 yes, complete 3.1-3.4. Yes Does the device documentation provide instructions for owner/operator installation of patches or Yes CSUP-3.1 software updates? No Does the device require vendor or vendor-authorized service to install patches or software updates? Yes Does the device have the capability to receive Does the device have the capability to receive	CSUP-2.4	updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the	N/A
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for owner/operator installation of patches or software updates? No CSUP-3.1 Does the device require vendor or vendor-authorized service to install patches or software updates? Yes Does the device have the capability to receive Does the device have the capability to receive Yes	CSUP-3		Yes
CSUP-3.2 service to install patches or software updates? Yes Does the device have the capability to receive	CSUP-3.1	for owner/operator installation of patches or	No
	CSUP-3.2		Yes
Incourso remote installation of patches of software updates?	CSUP-3.3	Does the device have the capability to receive remote installation of patches or software updates?	No

Yes	
Yes	_
	-
Yes	_
Yes	_
Yes	_
N/A	
	_
Yes	
165	-
No	_
Yes	_
Yes	
No	_
	Audit logs can be displayed on the trophon2 display
N	
No	screen.



	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the	
CSUP-3.4	manufacturer? Does the device contain Anti-Malware Software? If	No
CSUP-4	yes, complete 4.1-4.4. Does the device documentation provide instructions for owner/operator installation of patches or	No
CSUP-4.1	software updates?	N/A
	Door the device require under as upday outboring	
CSUP-4.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes
CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g.,	N/A
CSUP-4.4	Microsoft) to be installed without approval from the manufacturer?	N/A
	Does the device contain Non-Operating System commercial off-the-shelf components? If yes,	
CSUP-5	complete 5.1-5.4. Does the device documentation provide instructions	Yes
CSUP-5.1	for owner/operator installation of patches or software updates?	No
CSUP-5.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes
	Does the device have the capability to receive	No
CSUP-5.3	remote installation of patches or software updates? Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the	NO
CSUP-5.4	manufacturer?	No
CSUP-6	Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or reference in notes and complete 6.1-6.4.	No
CSUP-6.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No
CSUP-6.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	See Notes
CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates?	No
0.5	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the	NO
CSUP-6.4	manufacturer?	No
	Does the manufacturer notify the customer when	
CSUP-7	updates are approved for installation? Does the device perform automatic installation of	Yes
CSUP-8	software updates? Does the manufacturer have an approved list of third-	No
CSUP-9	party software that can be installed on the device? Can the owner/operator install manufacturer-	No
CSUP-10	approved third-party software on the device themselves?	N/A
CSUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?	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?	Yes

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Security-related updates will be made as required. To update the device, an authorized service technician will be required to perform a software upgrade manually on the device. Software upgrades to the latest firmware is a mandatory requirement for devices undergoing an annual preventative maintenance and/or repair process.	
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Security-related updates will be made as required. To update the device, an authorized service technician will be required to perform a software upgrade manually on the device. Software upgrades to the latest firmware is a mandatory requirement for devices undergoing an annual preventative maintenance and/or repair process.	
_	
Customers are notified after the software of their device has been upgraded. Security-related updates will be made as required. To update the device, an authorized service technician will be required to perform a software upgrade manually on the device. Software upgrades to the latest firmware is a mandatory requirement for devices undergoing an annual preventative maintenance and/or repair process.	
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Nanosonics Limited trophon2 - Software Version: v1.6 24-Apr-2023 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 Does the device support de-identification profiles that comply with the DICOM standard for de-DIDT-1.1 identification? N/A DATA BACKUP AND DISASTER RECOVERY (DTBK) The ability to recover after damage or destruction of device data, hardware, software, or site configuration information. The trophon2 device maintains long term primary Does the device maintain long term primary storage storage of PII of the device operator in the form of of personally identifiable information / patient the 'Operator Name' recorded in trophon HLD cycle DTBK-1 information (e.g. PACS)? logs Yes Does the device have a "factory reset" function to restore the original device settings as provided by DTBK-2 the manufacturer? Yes Does the device have an integral data backup DTBK-3 capability to removable media? No Does the device have an integral data backup DTBK-4 capability to remote storage? No The trophon2 device maintains storage of cycle data following a software upgrade, however Does the device have a backup capability for system Nanosonics recommends that customers perfom a configuration information, patch restoration, and manual export of cycle logs prior to preventative DTBK-5 maintenance/ annual service of the device. software restoration? Yes Does the device provide the capability to check the DTBK-6 N/A 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. Does the device incorporate an emergency access EMRG-1 N/A (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 nonauthorized 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)? N/A Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., IGAU-2 RAID-5)? N/A MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware). MLDP-1 Is the device capable of hosting executable software? N/A Does the device support the use of anti-malware software (or other anti-malware mechanism)? MLDP-2 Provide details or reference in notes. No Does the device include anti-malware software by MLDP-2.1 default? No Does the device have anti-malware software MLDP-2.2 available as an option? No Does the device documentation allow the owner/operator to install or update anti-malware MLDP-2.3 software? N/A Can the device owner/operator independently (re-MLDP-2.4)configure anti-malware settings? No 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 N/A systems when malware has been detected? MLDP-2.7 Are malware notifications written to a log? N/A

MLDP-2.8

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Objective ID: A601330

ABC123

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Nanosonics Limited	trophonz - sortware version. vi.o	objective ID. Add1550	24-Apr-2025
	If the answer to MLDP-2 is NO, and anti-malware cannot be installed on the device, are other		By product design, access to the system is protected by the front cover of the trophon2 device. Users would have to physically damage the device front cover to obtain access to the system,
MLDP-3	compensating controls in place or available?	Yes	which is password-protected.
MLDP-4	Does the device employ application whitelisting that restricts the software and services that are permitted to be run on the device?	N/A	
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	N/A	_
MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	N/A	
MLDP-5.2	Can a host-based intrusion detection/prevention system be installed by the customer?	N/A	
WLDF-5.2	system be installed by the customer?	IV/A	_
	NODE AUTHENTICATION (NAUT) The ability of the device to authenticate communication partners/nodes.		
	Does the device provide/support any means of node authentication that assures both the sender and the recipient of data are known to each other and are		
NAUT-1	authorized to receive transferred information (e.g. Web APIs, SMTP, SNMP)?	Yes	Using mutual authentication with TLS and X.509 certificates.
NAUT-2	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)?	See Notes	Only white-listed ports are enabled.
NAUT-2.1	Is the firewall ruleset documented and available for review?	See Notes	Only white-listed ports are enabled.
NAUT-3	Does the device use certificate-based network connection authentication?	Yes	_
	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.		
CONN-1 CONN-1.1	Does the device have hardware connectivity capabilities? Does the device support wireless connections?	Yes No	Ethernet cable
CONN-1.1.1 CONN-1.1.1 CONN-1.1.2	Does the device support Wieless connections? Does the device support Wi-Fi? Does the device support Bluetooth?	No No	- - -
CONN-1.1.3	Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)?	No	_
CONN-1.1.4 CONN-1.2	Does the device support other wireless connections (e.g., custom RF controls, wireless detectors)? Does the device support physical connections?	No Yes	Ξ
CONN-1.2.1 CONN-1.2.2	Does the device have available RJ45 Ethernet ports? Does the device have available USB ports? Does the device require, use, or support removable	Yes	=
CONN-1.2.3 CONN-1.2.4	memory devices? Does the device support other physical connectivity?	Yes	-
CONN-2	Does the manufacturer provide a list of network ports and protocols that are used or may be used on the device?	Yes	(HTTPS) TCP port 8443 (NTP) UDP port 123 (NDS) UDP port 53
CONN-3	Can the device communicate with other systems within the customer environment?	Yes	The trophon2 device can connect with the facility network (e.g. with the NTP within the customer environment), however this is not a requirement to facilitate operation of the device.
CONN-4	Can the device communicate with other systems external to the customer environment (e.g., a service host)?	No	_
CONN-5 CONN-6	Does the device make or receive API calls? Does the device require an internet connection for its intended use?	Yes	-
CONN-6	TS Intended USE? Does the device support Transport Layer Security (TLS)?	No Yes	_
CONN-7.1	Is TLS configurable? Does the device provide operator control functionality from a separate device (e.g.,	No	
CONN-8	telemedicine)?	No	_
	PERSON AUTHENTICATION (PAUT) The ability to configure the device to authenticate users.		
	Does the device support and enforce unique IDs and passwords for all users and roles (including service		Operators require a programmed (RFID) 'trophon AcuTrace Operator Card' to initiate disinfection cycles if AcuTrace is utilized, otherwise this can be done via the device touch screen. No passwords are
PAUT-1	accounts)?	N/A	required.

SBOM-2.4

Are any additional descriptive elements identified? N/A

Nanosonics Limited	trophon2 - Software Version: v1.6	Objective ID: A601330	24-Apr-2023
PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)?		
PAUI-1.1	Is the device configurable to authenticate users	N/A	-
PAUT-2	through an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	N/A	-
PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts? Are all default accounts (e.g., technician service	N/A	-
PAUT-4	accounts, administrator accounts) listed in the documentation?	N/A	
PAUT-5	Can all passwords be changed?	N/A	The trophon2 device does not utilise passwords to facilitate device operation.
	Is the device configurable to enforce creation of user account passwords that meet established	N/6	The trophon2 device does not utilise passwords to
PAUT-6 PAUT-7	(organization specific) complexity rules? Does the device support account passwords that expire periodically?	N/A N/A	facilitate device operation. The trophon2 device does not utilise passwords to facilitate device operation.
PAUT-8	Does the device support multi-factor authentication?		
PAUT-9	Does the device support single sign-on (SSO)?	N/A	-
PAUT-10 PAUT-11	Can user accounts be disabled/locked on the device? Does the device support biometric controls?	N/A N/A	
PAUT-12	Does the device support physical tokens (e.g. badge access)? Does the device support group authentication (e.g.	No	_
PAUT-13	hospital teams)? Does the application or device store or manage	No	-
PAUT-14 PAUT-14.1	authentication credentials? Are credentials stored using a secure method?	No N/A	_
	PHYSICAL LOCKS (PLOK) Physical locks can prevent unauthorized users with		
	physical access to the device from compromising the integrity and confidentiality of personally identifiable information stored on the device or on removable media		
PLOK-1	Is the device software only? If yes, answer "N/A" to remaining questions in this section. Are all device components maintaining personally identifiable information (other than removable	No	-
PLOK-2	media) physically secure (i.e., cannot remove without tools)?	Yes	_
PLOK-3	Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually keyed locking device?	See Notes	By product design, access to the trophon2 device components is protected by the front cover. Users would have to physically damage the front cover to obtain access to the device components.
PLOK-4	Does the device have an option for the customer to attach a physical lock to restrict access to removable media?	No	_
	ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)		
	Manufacturer's plans for security support of third- party components within the device's life cycle.		
RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes	_
	Does the manufacturer evaluate third-party		
RDMP-2	applications and software components included in the device for secure development practices? Does the manufacturer maintain a web page or	Yes	-
RDMP-3	other source of information on software support dates and updates?	Yes	_
RDMP-4	Does the manufacturer have a plan for managing third-party component end-of-life?	Yes	_
	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 DMM criticity of the section supports controls in the Section 2019 of the section		
SBOM-1	RDMP section. Is the SBoM for this product available? Does the SBoM follow a standard or common	Yes	-
SBOM-2 SBOM-2.1	method in describing software components? Are the software components identified?	Yes 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	_

Nanosonics Limited trophon2 - Software Version: v1.6 Objective ID: A601330 24-Apr-2023 Does the device include a command or process method available to generate a list of software SBOM-3 components installed on the device? No 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. The trophon2 device has been developed in compliance with IEC 62304:2006+AMD1:2015. Medical device software - Software life cycle processes. The trophon2 device has X.509 Certificates installed. The device accepts incoming connection using TLS and with mutual authentication. Ports Is the device hardened in accordance with any used by the trophon2 device are white-listed and SAHD-1 where appropriate are restricted to localhost. industry standards? Yes Has the device received any cybersecurity SAHD-2 certifications? Yes Does the device employ any mechanisms for SAHD-3 software integrity checking No Does the device employ any mechanism (e.g., release specific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-SAHD-3.1 authorized? Yes Does the device employ any mechanism (e.g., releasespecific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer SAHD-3 2 authorized updates? Yes Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)? SAHD-4 No Is the system configurable to allow the implementation of file-level, patient level, or other No SAHD-5 types of access controls? SAHD-5.1 Does the device provide role-based access controls? No Are any system or user accounts restricted or SAHD-6 disabled by the manufacturer at system delivery? N/A Are any system or user accounts configurable by the SAHD-6.1 end user after initial configuration? Does this include restricting certain system or user N/A accounts, such as service technicians, to least SAHD-6.2 privileged access? N/A Are all shared resources (e.g., file shares) which are not required for the intended use of the device SAHD-7 disabled? N/A Are all communication ports and protocols that are not required for the intended use of the device SAHD-8 disabled? Yes Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device SAHD-9 deleted/disabled? Are all applications (COTS applications as well as OSincluded applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of SAHD-10 the device deleted/disabled? N/A Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an SAHD-11 internal drive or memory component)? Yes Can unauthorized software or hardware be installed on the device without the use of physical tools? SAHD-12 No Does the product documentation include information on operational network security SAHD-13 scanning by users? N/A Can the device be hardened beyond the default SAHD-14 provided state? No Security-related updates will be made as required. To update the device, an authorized service technician will be required to perform a software upgrade manually on the device. Software upgrades to the latest firmware is a mandatory requirement Are instructions available from vendor for increased for devices undergoing an annual preventative SAHD-14.1 N/A hardening? maintenance and/or repair process. By product design, access to BIOS is prevented by the front cover of the trophon2 device. Users would Can the system prevent access to BIOS or other have to physically damage the device front cover to SHAD-15 bootloaders during boot? See Notes obtain access. Have additional hardening methods not included in SAHD-16 2.3.19 been used to harden the device? N/A

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Nanosonics Limited	trophon2 - Software Version: v1.6	Objective ID: A601330	24-Apr-2023
	Availability of security guidance for operator and administrator of the device and manufacturer sales		
SGUD-1	and service. Does the device include security documentation for the owner/operator?	No	_
(CUD 2	Does the device have the capability, and provide instructions, for the permanent deletion of data from		
SGUD-2	the device or media?	No	_
SGUD-3	Are all access accounts documented? Can the owner/operator manage password control	N/A	-
SGUD-3.1	for all accounts? Does the product include documentation on	N/A	_
SGUD-4	recommended compensating controls for the device?	N/A	_
	HEALTH DATA STORAGE CONFIDENTIALITY (STCF)		
	The ability of the device to ensure unauthorized		
	access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media.		
STCF-1 STCF-1.1	Can the device encrypt data at rest? Is all data encrypted or otherwise protected?	No No	-
STCF-1.2	Is the data encryption capability configured by default?	N/A	
STCF-1.3	Are instructions available to the customer to configure encryption?	N/A	
STCF-2	Can the encryption keys be changed or configured?	N/A	_
STCF-3	Is the data stored in a database located on the device?	Yes	_
STCF-4	Is the data stored in a database external to the device?	No	_
	TRANSMISSION CONFIDENTIALITY (TXCF)		
	The ability of the device to ensure the confidentiality		
	of transmitted personally identifiable information. Can personally identifiable information be		
TXCF-1	transmitted only via a point-to-point dedicated cable?	Yes	
			Transmission via network is using TLS protocol
	Is personally identifiable information encrypted prior		while downloading to removable media is not encrypted. The downloaded data in removable
TXCF-2	to transmission via a network or removable media? If data is not encrypted by default, can the customer	Yes	media is in read-only mode.
TXCF-2.1	configure encryption options?	No	_
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	N/A	_
TXCF-4	Are connections limited to authenticated systems?	Yes	_
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	N/A	
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	TRANSMISSION INTEGRITY (TXIG) The ability of the device to ensure the integrity of transmitted data.		
	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified		
TXIG-1	during transmission?	Yes	Using mutual TLS authentication.
			The trophon Printer can be connected to the trophon2 device to support the printing of HLD cycle records for paper-based record-keeping. The trophon Printer is connected to the trophon2
TXIG-2	Does the device include multiple sub-components connected by external cables?	See Notes	device by external cables. The trophon Printer is an accessory to the trophon2 device.
	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	_
	Does the device allow the owner/operator to initiative remote service sessions for device analysis		
RMOT-1.1	or repair? Is there an indicator for an enabled and active	No	-
RMOT-1.2	remote session? Can patient data be accessed or viewed from the	N/A	-
RMOT-1.3	device during the remote session? Does the device permit or use remote service	N/A	-
RMOT-2	connections for predictive maintenance data?	No	_

OTHER SECURITY CONSIDERATIONS (OTHR)

Notes:

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

Note 1