

Nanosonics Limited 7-11 Talavera Road, Macquarie Park, NSW 2113, Australia T: + 61 2 8063 1600 E: info@nanosonics.com.au W: www.nanosonics.com.au

Customer Information Notice: CIN105

trophon[®]2 IT Security FAQ

Contents

Definitions and Acronyms	2
Nanosonics IT Risk Assessment FAQ	3

1

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk

Nanosonics Europe GmbHNanosonics France(EU Representative)2 route de la Noue 91190,Poppenbütteler Bogen 66, 22399,Gif dur Yvette, France.Hamburg, GermanyT: 01.64.86.58.59 T: +49 40 468 568 85 E: info@nanosonics.eu W: www.nanosonics.eu

E: info@nanosonics.fr W: www.nanosonics.fr

Nanosonics France
2 route de la Noue 91190,
Gif dur Yvette, France.
T: 01.64.86.58.59Nanosonics Japan
8F Yamato Building, 5-27-3 Sendagaya,
Shibuya-ku, Tokyo 151-0051 Japan
T: +81 (3) 6865 6648 E: info@nanosonics.jp W: www.nanosonics.jp



Definitions and A	Definitions and Acronyms		
ΗΙΡΑΑ	Refers to the Health Insurance Portability and Accountability Act of 1996, in particular the portion of the Act known as Administrative Simplification (Subpart F) dealing with the privacy of individually identifiable health information.		
BAA	Business Associate Agreement is a contract between a HIPAA covered entity and a HIPAA business associate (BA). The contract protects personal health information (PHI) in accordance with HIPAA guidelines.		
PHI	 Protected Health Information is information that is a subset of health information, including demographic information, and: 1. Is created or received by a health-care provider, health plan, employer or health-care clearinghouse; and 2. Relates to the past, present or future physical or mental health or condition of an individual; the provision of health care to an individual; or the past, present or future payment for the provision of health care to an individual; or b. There is a reasonable basis to believe the information can be used to identify the individual. 		
Privacy/Security Officer	The person in the Facility who is the designated point of contact for HIPAA-related issues and whose position includes oversight of training related to HIPAA.		
IP	Internet Protocol (IP) obtains the address of where the data is required to be sent.		
ТСР	Transmission Control protocol (TCP) is responsible for data being delivered to the specified IP. TCP Port 8443 is the protocol enables two hosts to establish a connection and exchange streams of data.		
TLS	Transport Layer Security (TLS) is a cryptographic protocol that provides end-to-end security of data sent between applications over the Internet.		
X. 509 Certificate	A digital certificate that uses the widely accepted international X. 509 public key infrastructure (PKI) standard to verify that a public key belongs to the user, computer or service identity contained within the certificate.		
AES	Advanced Encryption Standard (AES) is a symmetric block cipher chosen by the U.S Government to protect classified information and is implemented in software and hardware. The number is in relation to the key length (i.e. AES 256 means that the key length is 256bits).		

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk



Nanosonics IT Risk Assessment FAQ		
Details		
Company:	Nanosonics Ltd.	
Product/Device/System name:	trophon2	
Product/Device/System name	The trophon2 device is a stand-alone high-level	
functionality description:	disinfection medical device with embedded	
	software. There are no other related software or	
	other components that need to be installed or	
	configured for the device to operate.	
Is the device FDA approved?	Yes, the device is FDA-cleared.	
Operating System		
What type of Operating System	It uses a custom embedded Linux Yocto –	
does the device use?	Dunfell operating system	
What type of security features	The Operating System security features utilize:	
does the Operating System	Firewall	
utilize?	 USB Connections Monitoring 	
	Activity Audit Logs	
	CD/USB boot disabled	
Connectivity		
Is the device networked?	System does not require to be networked, can	
	utilize wired networking (LAN) for customer to	
	integrate device onto own network.	
Is the device able to connect to	Yes, the device is able to be connected to the	
other systems?	customers electronic medical record (eMR)	
	system.	
	Yes, the device is able to connect to the local	
	network time server to synchronize its date and	
	time.	
Is the device able to be remotely	No, the device cannot be remotely serviced for	
serviced?	the purpose of a software upgrade.	
What are the ports and	Port 8443: TCP https for S&M and 3 rd party	
protocols required for	connection	
communications?	Port 53: UDP domain name resolution	
	Port 123: UDP NTP default port for local date and time server	
Software		
Current Software Version	1.6	
What type of patching/update	The device receives:	
support does the device	 Manual updates by service 	
receive?	 Manual updates by service Part of corrective maintenance 	
Does the device support any		
anti-virus/malware software?	No, the device does not support any anti- virus/malware software.	
anti-viius/inaiwale suitwale?	งแนง/แลเพลเธ งบแพลเธ.	

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk



Does the software follow any standards, practices or tests?	 Yes, the devices software follows: IEC 62304 Ed 1.1 (link) Guidance for the Content of Premarket Submissions for Software Contained in Medical Devices – Document issued on: May 11, 2005 (link) Secure by design practices Source code review and testing Application penetration testing
Data & Data Management	Date chaut the disinfection surles completed by
What type of data is created,	Data about the disinfection cycles completed by
processed, stored, or received by the system or application?	trophon2 (time, date, operator, probe, reprocessing data).
Where is the application/data	Data about the disinfection cycles completed by
being processed or stored?	trophon2 are stored in the device and accessible
	(read-only) via a thermal printer (trophon
	Printer), download to USB Drive, or via a
	network connection.
Is data transmitted over a	Data is accessible (read-only) to 3 rd party
private or public network?	applications over the network. Security is
	provided via user-level authentication with TLS
What turns of data is	and X.509 certificates.
What type of data is transferred?	Data about the disinfection cycles completed by trophon2 (time, date, operator, probe,
	reprocessing data).
Does the device display,	The device maintains PII which includes the
transmit, or maintain private	Operator Name, however it does not store PHI.
data (including electronic	
Protected Health Information	
["ePHI"])?	
Storage & Accounts	No the device does not use the second
Does the device/application	No, the device does not require a server or
require a server or workstation? Does the device require any	workstation
authentication, AD security or	No, the device does not require any authentication, AD security or password policies.
password polices?	additionation, Ab security of password policies.
Does the device have an auto-	No, the device does not have an auto-log off
log off period of inactivity?	period for inactivity

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk



Does the device have any	No, the device does not require authorization to
access controls?	operate (e.g. Password controls).
	When enabled, the device does have access
	controls via RFID to run disinfection cycles.
	Details are programmed on RFID chips and
	information programmed to the card/tag is at the
	discretion of the hospital/site.
What account types are used on	The device does not utilize any generic or
the device?	default/guest accounts
How are these account types	These account types are not required to be
managed?	managed as they are not utilized on the device
Access	
Does the device support any	No, the device does not support any User,
User, Vendor or Privileged	Vendor or Privileged access.
access?	
Does the device allow remote	No, the device does not provide remote access
User or Vendor access?	to the User or the Vendor.
Auditing & Logging	
Is there any audit logging of	Yes, the device has logging capabilities with
data activity on the device?	references to READ, WRITE, UPDATE, VIEW
	and PRINT actions.
	*Note:
	READ - will read the data on the text file stored
	WRITE - will write new data to a text file
	UPDATE - will write on a previously saved text file stored
	VIEW – will only show specified data, not all of
	the data (i.e. trophon2 "Last Cycle" View will
	display only date, time, operator, etc.)
	PRINT – will print the data saved to that text file
What type of information does	The information captured is:
the audit log include?	Operator name
	 Medical instrument name & serial number
	Date
	Time
	 Action (View and print)
	 Data type (text)
Can the data be exported from	Yes, the data can be exported from the device.
the device?	It can export it as a CSV file.
Encryption	
Is data encrypted in transit?	Yes, using TLS 1.2
Is sensitive data encrypted at	No
rest/storage	
·······································	

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk



Are backups encrypted?	No	
Other Devices		
Does the device require any additional devices (i.e. tablets, smartphones, laptops etc.)?	No the device does not require any additional devices to be managed.	
Data Backup and Disaster Recove		
Does the device create any backups of the data?	No the device does not automatically create any backups of the data. The data is saved and stored internally on the device and can be retrieved via USB download. The data can also be retrieved by the service team via service and maintenance software.	
How frequently does the device create these backup?	The device does not create backups.	
Does the device have a disaster recovery service?	No the device does not have a disaster recover service.	
3 rd Party Applications/Software		
Is all software and code inventoried?	Yes all software and code is inventoried. This is done in the risk assessment under SOUP Items (Software Of Unknown Provenance)	
Do you have formal processes in place for tracking and managing the use of open source code? What 3 rd party software does the	Yes, this is declared and analyzed in the risk assessment under SOUP Items (Software Of Unknown Provenance) Linux – Operating System	
device use?	Qt Framework – Display Apache Derby – Database Java – Application Spring, Eclipse – Web service Google GRPC – for remote procedure calls.	
What uses does the 3 rd party software have?	The 3 rd party software is restricted to Service.	
System Diagram		
System Diagram		

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk



ΗΙΡΑΑ	
Is there an active BAA?	No, the device does not require to be under the HIPAA legislation as it does not used, create, stored, transmit, access, view, or disclose any PHI.
Is PHI being disclosed to you (vendor) other than in the capacity as member of the customer?	No, the device does not require to be under the HIPAA legislation as it does not used, create, stored, transmit, access, view, or disclose any PHI.
Is there a Privacy/Security Officer designated?	No, the device does not require to be under the HIPAA legislation as it does not used, create, stored, transmit, access, view, or disclose any PHI.
Do you have policies and procedures in place to ensure the physical and technical safegaurding of PHI?	No, the device does not require to be under the HIPAA legislation as it does not used, create, stored, transmit, access, view, or disclose any PHI.

The trophon family includes trophon[®] EPR and trophon[®]2 devices which share the same core technology of 'sonically activated' hydrogen peroxide.

Nanosonics and trophon are trade marks of Nanosonics Limited.

7

CIN105 v7.0 | Approval Date: March 2023 | Valid until: March 2026 | F-643 Please contact your local Nanosonics representative should you require any additional information regarding this Customer Information Notice.

Nanosonics, Inc 7205 E 87th Street, Indianapolis, IN 46256 USA T: 1-844-876-7466 E: info@nanosonics.us W: www.nanosonics.us

Nanosonics Europe Limited Unit 2, Linfit Court, Colliers Way, Clayton West, Huddersfield, HD8 9WL, United Kingdom T: +44 1484 860581 E: info@nanosonics.co.uk W: www.nanosonics.co.uk

 Nanosonics Europe GmbH
 Nanosonics France

 (EU Representative)
 2 route de la Noue 91190,

 Poppenbütteler Bogen 66, 22399,
 Gif dur Yvette, France.

 Hamburg, Germany
 T: 01,64,86,58,59
 T: +49 40 468 568 85 E: info@nanosonics.eu W: www.nanosonics.eu

 Nanosonics France
 Nanosonics Japan

 2 route de la Noue 91190,
 8F Yamato Building, 5-27-3 Sendagaya,

 Gif dur Yvette, France.
 Shibuya-ku, Tokyo 151-0051 Japan

 T: 01.64.86.58.59
 T: +81 (3) 6865 6648

 E: info@nanosonics.fr
 Ei info@nanosonics.jp

 W: www.nanosonics.fr
 W: www.nanosonics.jp