_		manara		tement for Medical Device Security ICE DESCRIPTION		
ovic	o Catoo	00/	Manufacturer		ument Release Date	_
evic	e Categ	Oly	Hologic, Inc		/2017	
L				_		
	e Mode		Software Revision		ware Release Date	
eno	va		ALL	N/A		
		Company Na	ame	Manufacturer Contact Information		
	Ifacturer	monogie, me	:	deepak.arora@hologic.com		
	esentativ		ive Name/Position	1		
onta	act Infor		ra / SW Manager	I		
ton		-	rk-connected environment:			
			tomosynthesis images.	veloped by Hologic to assist radiologists in the	analysis of digital	
			MANAGE	MENT OF PRIVATE DATA		
					Yes, No,	Ħ
	Ref	er to Section 2.3.2 o	f this standard for the prope	r interpretation of information requested in this		
	Con t	ia device diaplay, t	ronomit or mointain nuivete	data (including electronic Protected Health In	See Note	
	[ePH]		ansmit, or maintain private	data (including electronic Protected Health in	Yes	
			ments that can be maintaine	d by the device :	103	-
	B.1	•		nique identification number)?	Yes	
	B.2			t #, test or treatment date, device identification		
	D.2	Medical lecold (e.	y., medical lecold #, accourt		Yes	
	B.3	Diagnostic/therap	autic (e.g. photo/radiograph	test results, or physiologic data with identifying		
	D.5	characteristics)?	eutic (e.g., prioto/radiograph,		Yes	
	B.4		d text entered by device us	or/operator?	No	
	В.4 В.5	Biometric data?			No	
	B.6	Personal financial	information?		No	
		aining private data			NO	
	C.1			omeny (i.e., until cleared by power off or reset)?	Yes	
	C.1 C.2	-		emory (i.e., until cleared by power-off or reset)?	Yes	
	C.2 C.3	-	n persistently on local media ate data with other systems		Yes	
	C.3 C.4		-		Yes	
		-	ata during power service int		103	
				rting of private data – Can the device :	Yes	
	D.1 D.2		a (e.g., video display, etc.)?		Yes	
			y reports or images containing	ng private data? lata to removable media (e.g., disk, DVD, CD-		
	D.3	CF/SD card, mem		ata to removable media (e.g., disk, DVD, CD-	ROM, tape, No	
				win dedicated cable connection (a.g. IEEE 10		
	D.4	USB, FireWire, etc	· · ·	via dedicated cable connection (e.g., IEEE 107	73, senai port, Yes	
	D.5		,	vork connection (e.g., LAN, WAN, VPN, intrane		
	0.0	etc.)?	nivale uala via a wireu netv	VOIR CONNECTION (E.G., LAN, VVAN, VPN, INTRNE	t, internet, Yes	
	D.6	,	rivate data via an integrate	d wireless network connection (e.g., WiFi, Blue		
	0.0	etc.)?	mivate uata via all integrate	a wireless network connection (e.g., wiFI, Dide	See Note	
	ד ח	,	a via coonning?		No	
	D.7 D.8	Import private dat	a via scanning?		No	
	0.0	Other?		formed as travel as a manufil and the second s		.1
				ferred network connection. Cenova does not c	neck for connection type w	vne
	igement	of transmitting	data			

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

HN 1-2013 Page 18

Device	Category	Manufacturer Document ID		Document Release	Date	
		Hologic, Inc	MAN-05343 REV 001	42928		
Device Cenov		Software Revision		Software Release D	are Release Date	
Cenov	a			IN/A		_
<u> </u>		SECU	RITY CAPABILITIES		Yes, No,	- 14
	Refer to Se	ction 2.3.2 of this standard for the proper	r interpretation of information request	ted in this form.	N/A, or See Note	Note #
1		LOGOFF (ALOF) ability to prevent access and misuse by t	unauthorized users if device is left in	dle for a period of time.		
1-1		e be configured to force reauthorization		·		
	(e.g., auto-log	off, session lock, password protected sci	reen saver)?		Yes	1
		ength of inactivity time before auto-logof xed or configurable range] in notes.)	t/screen lock user or administrator c	onfigurable? (Indicate	No	
	1-1.2 Can a	ito-logoff/screen lock be manually invoke	ed (e.g., via a shortcut key or proxim	ity sensor, etc.) by the	No	
	user?	-logoff			NO	
ALOF notes:	1. auto	-10g011				
2		ROLS (AUDT) eliably audit activity on the device.				
2.4						
2-1		cal device create an audit trail?	the cudit leav		Yes	
2-2		of the following events are recorded in t	the audit log:			
	2-2.1 Login/	-			Yes	
		//presentation of data			N/A	
		on/modification/deletion of data			N/A	
		export of data from removable media			N/A	
		t/transmission of data from/to external (e.g., network) connection		Yes	
		Remote service activity			Yes	
	2-2.6 Other	events? (describe in the notes section)			No	
2-3	Indicate what	information is used to identify individual	events recorded in the audit log:			
	2-3.1 User I	2			Yes	
	2-3.2 Date/ti	me			Yes	
AUDT						
notes:						
3	AUTHORIZAT	TON (AUTH)				
	The ability of t	he device to determine the authorization	of users.			
3-1	Can the devic	e prevent access to unauthorized users	through user login requirements or	other mechanism?	Yes	_
3-2		assigned different privilege levels within administrators, etc.)?	an application based on 'roles' (e.g.	, guests, regular users ,	Yes	
3-3	Can the devic	e owner/operator obtain unrestricted ad local root or admin account)?	Iministrative privileges (e.g., access	operating system or	No	_
AUTH notes:						

Device	Category	Manufacturer	Document ID	Document Release	Date	
		Hologic, Inc	MAN-05343 REV 001	42928		
Device Cenov	Model	Software Revision		Software Release D	ate	
Cenov	a	ALL		N/A	Yes, No,	-
	Refer to Section 2.	3.2 of this standard for the proper	r interpretation of information request	ed in this form.	N/A, or See Note	Note #
4		OF SECURITY FEATURES (CNF				
	The ability to configur	re/re-configure device security c	apabilities to meet users' needs.			
4-1	Can the device owned	er/operator reconfigure product se	ecurity capabilities?		Yes	
CNFS notes:						
5	CYBER SECURITY	PRODUCT UPGRADES (CSUP)				
	The ability of on-site	service staff, remote service staff	, or authorized customer staff to insta	Ill/upgrade device's secu	ity patches.	
5-1			ed to the device as they become available are to the device as they become available are to be a second se	alladie ?	Yes	
	5-1.1 Can security	patches or other software be insta	alled remotely?		Yes	
CSUP notes:						
6	HEALTH DATA DE-I	DENTIFICATION (DIDT)				
	The ability of the dev	ice to directly remove information	n that allows identification of a person			
6-1	Does the device prov	vide an integral capability to de-id	entify private data?		No	
DIDT notes:						
7		D DISASTER RECOVERY (DTBI	•			
	-	-	evice data, hardware, or software.			
7-1	Does the device hav as tape, disk)?	e an integral data backup capabil	ity (i.e., backup to remote storage or	removable media such	No	
DTBK notes:						
8	EMERGENCY ACCE	ESS (EMRG)				
	The ability of device private data.	users to access private data in o	case of an emergency situation that r	equires immediate access	s to stored	
8-1	Does the device inco	prporate an emergency access (<pre>'break-glass") feature?</pre>		Yes	
EMRG notes:						
9	HEALTH DATA INTE	EGRITY AND AUTHENTICITY (I	GAU)			
	How the device ensute the originator.	ires that data processed by the d	evice has not been altered or destro	yed in an unauthorized ma	anner and is t	from
9-1	Does the device ens	ure the integrity of stored data wi	th implicit or explicit error detection/co	prrection technology?	Yes	
IGAU						
notes:						

HN 1-2013 Page 20

Device	Category	Manufacturer	Manufacturer Document ID		Date		
		Hologic, Inc	MAN-05343 REV 001	42928			
Device	Model	Software Revision		Software Release D	ate		
Cenov	a	ALL		N/A			
	Refer to Section		interpretation of information requeste	ed in this form.	Yes, No, N/A, or See Note	Note #	
10	MALWARE DETE	CTION/PROTECTION (MLDP)					
	The ability of the d	evice to effectively prevent, detect a	and remove malicious software (malv	vare).			
10-1	Does the device s	upport the use of anti-malware soft	ware (or other anti-malware mechan	ism)?	Yes		
	10-1.1 Can the us	er independently re-configure anti-n	nalware settings?		Yes		
	10-1.2 Does notifie	cation of malware detection occur in	the device user interface?		Yes		
	10-1.3 Can only m	anufacturer-authorized persons repa	air systems when malware has been	detected?			
10.0		and the second			Yes Yes		
10-2 10-3		rner install or update anti-virus software anti-virus software (technically/physically)	ware? update virus definitions on manufact	uror installed anti-virus	105		
10-3	software?			urer-installed anti-virus	Yes		
MLDP notes:							
11	NODE AUTHENTI						
	The ability of the d	levice to authenticate communication	n partners/nodes.				
11-1		rovide/support any means of node a to each other and are authorized to	uthentication that assures both the service transferred information?	ender and the recipient	Yes		
NAUT							
notes:							
12	PERSON AUTHER	NTICATION (PAUT)					
	Ability of the devic	e to authenticate users					
12-1	Does the device s	upport user/operator-specific usern	ame(s) and password(s) for at least of	one user?	Yes		
	12-1.1 Does the d	evice support unique user/operator	-specific IDs and passwords for multi	ple users?			
					Yes		
12-2		-	rough an external authentication serv	vice (e.g., MS Active	V		
10.0	Directory, NDS, LD				Yes		
12-3	Can the device be	configured to lock out a user after a	a certain number of unsuccessful logo	on attempts?	No		
12-4	Can default passw	ords be changed at/prior to installation	on?		No		
12-5	•	er IDs used in this system?			Yes		
12-6	-	-	ser account passwords that meet esta	ablished complexity			
	rules?				No		
12-7	Can the device be	configured so that account passwor	ds expire periodically?		No		
PAUT notes:							
13	PHYSICAL LOCK	S (PLOK)					
	Physical locks can		vsical access to the device from con media .	npromising the integrity a	nd confidenti	ality	
13-1	Are all device com remove without too		other than removable media) physic	ally secure (i.e., cannot	Yes		
PLOK notes:							

Device	Category	Manufacturer	Document ID	Document Release	Date	
		Hologic, Inc	MAN-05343 REV 001	42928		
Device	Model	Software Revision		Software Release D	ate	
Cenov	a	ALL		N/A		
	Refer to Section 2.3.2	of this standard for the prope	r interpretation of information request	ed in this form.	Yes, No, N/A, or	Note #
14			DEVICE LIFE CYCLE (RDMP)		See Note	Z
			components within device life cycle.			
14-1	including version number	er(s).	arately purchased and/or delivered) o	perating system(s) -	See Note	1,2
14-2	Is a list of other third par	rty applications provided by the	e manufacturer available?		No	
RDMP notes:		nd below) family of products nd above requires only Windo	requires Windows XP SP3 and/or W ws 7	Vindows 7		
15	SYSTEM AND APPLIC	ATION HARDENING (SAHD)				
	The device's resistance	to cyber attacks and malware	9 .			
15-1	Does the device employ industry-recognized hare		lease indicate in the notes the level of	of conformance to any	No	
15-2		y any mechanism (e.g., releas nanufacturer-authorized progra	e-specific hash key, checksums, etc.) am or software update?) to ensure the installed	No	
15-3	Does the device have e	external communication capabi	lity (e.g., network, modem, etc.)?		Yes	
15-4	Does the file system allo (NTFS) for MS Windows		evel access controls (e.g., New Techr	nology File System	Yes	
15-5	Are all accounts which a applications?	are not required for the intend	ed use of the device disabled or dele	eted, for both users and	Yes	
15-6	Are all shared resources	s (e.g., file shares) which are r	ot required for the intended use of the second seco	he device , disabled?	N/A	
15-7			the intended use of the device close		Yes	
15-8	required for the intende	d use of the device deleted/d			Yes	
15-9	are not required for the i	intended use of the device de			N/A	
	component)?		media (i.e., a source other than an ir		No	1
15-11	tools?		e manufacturer be installed on the de		Yes	
SAHD	other devices.	efault, boots from the internal	harddisk. However, the BIOS boot of	order can be changed to b	oot from a C	D or
16	SECURITY GUIDANCE					
	The availability of securi	ity guidance for operator and	administrator of the system and man	ufacturer sales and servic	e.	
16-1	Are security-related feat	ures documented for the devi	ce user?		Yes	1
16-2	of personal or other sen	sitive data)?	n (i.e., instructions for how to achieve		No	
SGUD	notes: to protect your n	Hologic Enterprise Cybersec nedical systems at: gic.com/support/image-analy	urity best practices guide for more in tics	nformation on some good	strategies or	n how

HN 1-2013 Page 22

Device	Category	Manufacturer	Document ID	Document Release	e Date	
		Hologic, Inc	MAN-05343 REV 001	42928		
Device	Model	Software Revision		Software Release	Date	
Cenov	a	ALL		N/A		
	Refer to Sectior	n 2.3.2 of this standard for the proper	interpretation of information requeste		Yes, No, N/A, or See Note	Note #
17	HEALTH DATA S	STORAGE CONFIDENTIALITY (STC	F)		00011010	
	The ability of the on device or rem	device to ensure unauthorized access ovable media.	s does not compromise the integrity a	and confidentiality of pr i	ivate data stor	red
17-1	Can the device er	ncrypt data at rest?			No	_
STCF notes:						
18	TRANSMISSION	CONFIDENTIALITY (TXCF)				
	The ability of the	device to ensure the confidentiality of	transmitted private data.			
18-1	Can private data	be transmitted only via a point-to-point	nt dedicated cable?		No	_
18-2		ncrypted prior to transmission via a ne standard is implemented.)	etwork or removable media? (If yes,	indicate in the notes	No	
18-3		ansmission restricted to a fixed list of	network destinations?		No	_
TXCF notes:						
19	TRANSMISSION	INTEGRITY (TXIG)				
	The ability of the o	device to ensure the integrity of trans	mitted private data.			
19-1		support any mechanism intended to e tes section how this is achieved.)	ensure data is not modified during trar	nsmission? (If yes,	Yes	_
TXIG notes:						
20						
20		TY CONSIDERATIONS (OTHR) y considerations/notes regarding me	dical device security			
20.1						
20-1 20-2		e serviced remotely? estrict remote access to/from specified	d devices or users or network locatio	ns (e.g., specific IP	Yes	-
	addresses)?				No	
	20-2.1 Can the de	evice be configured to require the loc	al user to accept or initiate remote ac	ccess?	Yes	-
OTHR						
notes:						