		Manufac	turer Disclosure State	ement for Medical Device Se	curity – MDS ²		
				CE DESCRIPTION	,		
Device	e Categ	jory	Manufacturer	Document ID	Document Release	Date	
Prone Breast Biopsy System Hologic, Inc			•	MAN-05009	10/21/2016		
Device Model			Software Revision		Software Release D)ate	
	n Prone		1.0.1		4/11/2016	Julio	
7 1111111	II I TOIL			-Manufacturer Contact Informa			
Manuf	acturer	or Company Nar	ne	Manufacturer Contact Informa	ition		
	sentativ			Chris.Fischer@hologic.com			
Conta Inform			e Name/Position	1			
	ation	Chris Fischer					
The H the pa	lologic@ tient's	® Affirm [™] Prone Br diagnostic work up. 7	The system is fully function	/3D TM imaging prone breast biopsy sy all with no network connectivity, how chive biopsy procedure images.			
			MANAGEM	ENT OF PRIVATE DATA			
	Ref	er to Section 2.3.2 of	this standard for the proper i	interpretation of information requested	I in this form.	Yes, No, N/A, or See Note	Note #
А			nsmit, or maintain private c	lata (including electronic Protected	Health Information		
	[ePHI]])?				Yes	
В	Types	•	ents that can be maintained	•			
	B.1	Demographic (e.g.,	name, address, location, un	ique identification number)?		Yes	
	B.2	Medical record (e.g.	, medical record #, account	#, test or treatment date, device iden	tification number)?		
						Yes	
	B.3	Diagnostic/therapeu characteristics)?	itic (e.g., photo/radiograph, t	est results, or physiologic data with id	entifying	Yes	
	B.4	Open, unstructured	text entered by device user	/operator?		Yes	
	B.5	Biometric data?				No	_
	B.6	Personal financial in	formation?			No	
С		aining private data - (Can the device :				
	C.1			mory (i.e., until cleared by power-off o	r reset)?	Yes	
	C.2		persistently on local media?			Yes	_
	C.3		te data with other systems?			Yes	
	C.4	•	ta during power service inte	·		Yes	
D			0, 1 0 1	ing of private data – Can the device :		V	
	D.1		(e.g., video display, etc.)?			Yes	_
	D.2		reports or images containing	• •	VD OD DOM town	Yes	
	D.3	CF/SD card, memor	ry stick, etc.)?	ta to removable media (e.g., disk, D		Yes	_
	D.4	Transmit/receive or USB, FireWire, etc.)		via dedicated cable connection (e.g., I	EEE 1073, serial port,	Yes	
	D.5	Transmit/receive pr etc.)?	ivate data via a wired netwo	ork connection (e.g., LAN, WAN, VPN	, intranet, Internet,	Yes	
	D.6	Transmit/receive pr infrared, etc.)?	ivate data via an integrated	wireless network connection (e.g., W	Fi, Bluetooth,	Yes	_
	D.7	Import private data	via scanning?			No	
	D.8	Other?	-			No	
Manag Private	gement e Data						

Device	Category	Manufacturer	Document ID	Document Release	Date	
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Device	e Model	Software Revision Software Release			Date	
Affirm	n Prone	1.0.1		4/11/2016		
		SECU	RITY CAPABILITIES			
	Refer to Section 2.3.2 o	of this standard for the proper	r interpretation of information red	quested in this form.	Yes, No, N/A, or See Note	Note #
1	AUTOMATIC LOGOFF (unauthorized users if device is	left idle for a period of time		
1 1		·		·		
1-1	inactivity (e.g., auto-logof	f, session lock, password pro	,	-	Yes	
	1-1.1 Is the length of ina time [fixed or conf	Yes	1			
			ed (e.g., via a shortcut key or pr	oximity sensor, etc.) by the	Yes	
AL OF	1. Inactivity logo	ut interval configurable by co	ustomer.			
ALOF notes:						
2	AUDIT CONTROLS (AU	DT)				
	The ability to reliably aud	it activity on the device.				
2-1	Can the medical device	create an audit trail?			Yes	_
2-2	Indicate which of the follo	wing events are recorded in	the audit log:			
	2-2.1 Login/logout					
	2-2.2 Display/presentati	on of data			Yes	_
	2-2.3 Creation/modification	tion/deletion of data			Yes	_
	2-2.4 Import/export of d	ata from removable media			Yes	_
	2-2.5 Receipt/transmiss	ion of data from/to external (e.g., network) connection		Yes	
	2-2.5.1 Remote ser	vice activity			Yes	
	2-2.6 Other events? (de	escribe in the notes section)			N/A	
2-3	Indicate what information	is used to identify individual	events recorded in the audit log	j:		
	2-3.1 User ID				Yes	
	2-3.2 Date/time				Yes	
	Audit trail availab	ole to all Manager level users	s through the Hologic software.			
AUDT notes:						
3	AUTHORIZATION (AUTI	H)				
		o determine the authorization	of users.			
3-1	Can the device prevent a	access to unauthorized users	s through user login requiremen	ts or other mechanism?	Yes	
3-2	Can users be assigned dipower users , administrate		n an application based on 'roles'	(e.g., guests, regular users ,	Yes	
3-3	Can the device owner/op application via local root of		dministrative privileges (e.g., acc	cess operating system or	Yes	
AUTH notes:		ndividual operator accounts counts and revoke existing a	and differing operator roles (Toccounts.	echnologic and Manager.) Ma	nager level u	isers

Device Of Prone Bit Device Maffirm F	reast Biopsy System Model Prone	Hologic, Inc Software Revision 1.0.1	MAN-05009	10/21/2016 Software Release 4/11/2016	Date	
Device N	Model Prone	Software Revision			Date	
Affirm I						
	Refer to Section 2.3.2 of the				Yes, No,	++
		his standard for the prope	r interpretation of information reques	ted in this form.	N/A, or See Note	Note #
4 C	CONFIGURATION OF SEC	URITY FEATURES (CNF	FS)			
т	The ability to configure/re-co	onfigure device security	capabilities to meet users' needs.			
4-1 C	Can the device owner/opera	ator reconfigure product s	ecurity capabilities?		No	
CNFS notes:						
5 (CYBER SECURITY PRODU	JCT UPGRADES (CSUP				\neg
T	Γhe ability of on-site service	staff, remote service staff	f, or authorized customer staff to inst	all/upgrade device 's sec	curity patches.	
			lied to the device as they become av	/ailable?	No	
	5-1.1 Can security patches	s or other software be inst	alled remotely?		No	_
CSUP notes:	_		alated medical device, all software up regular basis through tested software	•	to be validate	d by
6 F	HEALTH DATA DE-IDENTI	FICATION (DIDT)				$\overline{}$
т	The ability of the device to α	directly remove information	n that allows identification of a person	n.		
6-1 E	Does the device provide an	integral capability to de-i	dentify private data?		Yes	
	Patient data can b	e de-identified through th	ne standard software			_
DIDT notes:						
7 [DATA BACKUP AND DISA	STER RECOVERY (DTE	SK)			$\overline{}$
т	The ability to recover after d	amage or destruction of	device data, hardware, or software.			
	Does the device have an insuch as tape, disk)?	tegral data backup capab	ility (i.e., backup to remote storage or	r removable media	No	
DTDI	System only acts as	a temporary store of patie	ent data before it is transmitted to PA	ACS. Any disaster recove	ery will be	
DTBK notes:	performed by Holog	ic Service.				
8 E	EMERGENCY ACCESS (EI	MRG)				-
	The ability of device users private data.	to access private data in	case of an emergency situation that	requires immediate acce	ss to stored	
8-1 C	Does the device incorporate	e an emergency access	("break-glass") feature?		No	_
EMRG notes:						
9 F	HEALTH DATA INTEGRIT	AND AUTHENTICITY (IGAU)			_
	How the device ensures that he originator.	at data processed by the o	device has not been altered or destro	oyed in an unauthorized r	manner and is	from
9-1 [Does the device ensure the	integrity of stored data w	ith implicit or explicit error detection/o	correction technology?	No	
IGAU notes:	System only acts as	a temporary store of patie	ent data before it is transmitted to PA	ACS.		

Device	Category	Manufacturer	Document ID	Document Release	Date	
Prone Breast Biopsy System		Hologic, Inc	MAN-05009	10/21/2016		
Device Model		Software Revision		Software Release D	ate	
Affirn	Prone	1.0.1		4/11/2016		
Г	Refer to Section 2.3.2 of	this standard for the prope	er interpretation of information reque	ested in this form.	Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTION/	PROTECTION (MLDP)				
	The ability of the device to	effectively prevent, detec	t and remove malicious software (m	alware).		
10-1	Does the device support t	he use of anti-malware so	oftware (or other anti-malware mech	nanism)?	Yes	
	10-1.1 Can the user indep		_		Yes	
			in the device user interface?		No	
	10-1.3 Can only manufact	urer-authorized persons re	epair systems when malware has be	en detected?	Yes	
10-2	Can the device owner inst	all ar undata anti virus ca	ftware?		Yes	
10-2	Can the device owner inst		Itware: ly) update virus definitions on manuf	acturer-installed anti-	103	
	virus software?	rator (toorimounly/priyoloun	y) apaate vii as deliintiens on manai	dotaror instanca unti	Yes	
MLDP notes:		most general Anti-Virus/A tic virus definition updates	anti-Malware packages and provides are supported.	s instructions for installatio	on by the	
11	NODE AUTHENTICATION	N (NAUT)				
	The ability of the device to	authenticate communicat	ion partners/nodes.			
11-1			authentication that assures both the o receive transferred information?	e sender and the recipient	No	
NAUT notes:						
12	PERSON AUTHENTICAT	ION (PAUT)				
	Ability of the device to aut	henticate users				
12-1	Does the device support u	user/operator-specific use	rname(s) and password(s) for at lea	st one user?	Yes	
	12-1.1 Does the device su	ipport unique user/operato	or-specific IDs and passwords for m	ultiple users?	Yes	_
12-2	Can the device be configured Directory, NDS, LDAP, etc.		through an external authentication s	service (e.g., MS Active	No	_
12-3	Can the device be configu	ired to lock out a user afte	r a certain number of unsuccessful l	ogon attempts?		
					Yes	
12-4		changed at/prior to installa	ation?		Yes Yes	- 1
12-5	Are any shared user IDs to	•	upor account passwords that most	actablished complexity	168	1
12-6	rules?	ired to emorce creation or	user account passwords that meet e	established complexity	Yes	_2_
12-7		ured so that account passw	vords expire periodically?		Yes	
	· ·	·	e account for system maintenance a	re shared account. Passwor		nged
PAUT notes:			ore account lockout and password co			_
13	PHYSICAL LOCKS (PLO	K)				
	-	t unauthorized users with paths the device or on removab	physical access to the device from one of the media.	compromising the integrity a	and confiden	tiality
13-1	Are all device component remove without tools)?	s maintaining private data	(other than removable media) phy	sically secure (i.e., cannot	No	
PLOK notes:						

Device	e Category	Manufacturer	Document ID	Document Release I	Date		
Prone Breast Biopsy System		Hologic, Inc	MAN-05009	10/21/2016	10/21/2016		
Device	e Model	Software Revision		Software Release D	ate		
Affirn	n Prone	1.0.1		4/11/2016			
Г	Refer to Section 2.3.2 or	f this standard for the prop	er interpretation of information rec	quested in this form.	Yes, No, N/A, or See Note	Note #	
14	ROADMAP FOR THIRD F	PARTY COMPONENTS IN	DEVICE LIFE CYCLE (RDMP)				
	Manufacturer's plans for s	ecurity support of 3rd part	y components within device life c	ycle.			
14-1	In the notes section, list the including version number(parately purchased and/or deliver	red) operating system(s) -	Yes		
14-2	Is a list of other third party	applications provided by t	he manufacturer available?		Yes		
	Microsoft Window	vs 7 Professional SP1					
RDMF notes:							
15	SYSTEM AND APPLICAT	TION HARDENING (SAH	D)				
	The device 's resistance to	cyber attacks and malwa	are.				
15-1	Does the device employ a industry-recognized harde		Please indicate in the notes the le	evel of conformance to any	Yes		
15-2	Does the device employ a program/update is the ma	, , , , , , , , , , , , , , , , , , , ,	ase-specific hash key, checksums gram or software update?	, etc.) to ensure the installed	No		
15-3	Does the device have external communication capability (e.g., network, modem, etc.)?				Yes	_	
15-4	Does the file system allow (NTFS) for MS Windows p		-level access controls (e.g., New	Technology File System	Yes		
15-5	Are all accounts which are applications?	not required for the inten	ded use of the device disabled o	r deleted, for both users and	Yes		
15-6	Are all shared resources (e.g., file shares) which are	not required for the intended us	e of the device, disabled?	Yes		
15-7	Are all communication por	ts which are not required f	for the intended use of the device	e closed/disabled?	No		
15-8	Are all services (e.g., telne required for the intended		P], internet information server [IIS /disabled?	6], etc.), which are not	Yes		
15-9	Are all applications (COTS are not required for the int	• •	S-included applications, e.g., MS deleted/disabled?	Internet Explorer, etc.) which	Yes		
15-10	Can the device boot from component)?	uncontrolled or removabl	e media (i.e., a source other than	an internal drive or memory	Yes		
15-11	Can software or hardware tools?	not authorized by the dev	ice manufacturer be installed on t	the device without the use of	Yes		
SAHD		lopment Life Cycle (PDL) are incorporated into the	C) of the device incorporates nun product design.	nerous security scans and othe	r vulnerabili	ty	
16	SECURITY GUIDANCE (SGUD)					
			d administrator of the system and	manufacturer sales and service	e.		
16-1	Are security-related featur	es documented for the de	vice user?		No		
16-2	Are instructions available of personal or other sensit		ion (i.e., instructions for how to ac	hieve the permanent deletion	Yes		
SGUD		a Cyber Security Best Prac Affirm Prone product.	ctices document on its website the	at provides recommendations	on network		

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Device Category Prone Breast Biopsy System		Manufacturer Hologic, Inc	Document ID MAN-05009	Document Releas 10/21/2016	e Date	
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Device Model		Software Revision		Software Release	Date	
Affirm	Prone	1.0.1		4/11/2016		
	Refer to Section 2.3.2 of	f this standard for the prope	er interpretation of information reque	sted in this form.	Yes, No, N/A, or See Note	Note #
17	HEALTH DATA STORAG	E CONFIDENTIALITY (ST	CF)			
	The ability of the device to on device or removable r		ess does not compromise the integrit	ty and confidentiality of p	rivate data sto	ored
17-1	Can the device encrypt da	ata at rest?			Yes	_
STCF notes:			temporary store of ePHI. System ca ul transmission to PACS, and suppo			
18	TRANSMISSION CONFID	DENTIALITY (TXCF)				
	The ability of the device to	ensure the confidentiality	of transmitted private data.			
18-1	· ·	mitted only via a point-to-p	•		No	
18-2	•		network or removable media? (If ye	es indicate in the notes	110	_
	which encryption standard		metheric en remerable media: (ii ye	o, maioato in the notes	No	
18-3	Is private data transmissi	on restricted to a fixed list o	of network destinations?		Yes	
	Device can be con	figured to only transmit to	specific IP addresses. DICOM prov	vides no native method to	encrypt data,	but
TXCF	TLS can be used o	_				
notes:						
19	TRANSMISSION INTEGR					
	The ability of the device to	ensure the integrity of tran	nsmitted private data .			
19-1	Does the device support a describe in the notes section	•	ensure data is not modified during t	transmission? (If yes,	No	_
TXIG						
notes:						
20	OTHER SECURITY COM	SIDED ATIONS (OTUD)				
20	OTHER SECURITY CONS	erations/notes regarding m	edical device security			
20.4			edical device security.			
20-1	Can the device be service	•			Yes	
20-2	Can the device restrict readdresses)?	mote access to/from specifi	ed devices or users or network loca	ations (e.g., specific IP	Yes	
		configured to require the la	ocal user to accept or initiate remote	arress?		-
	20 2.1 Oan the device be	configured to require the fe	bear user to accept or initiate remote	, 400033:	No	-
OTUD						
OTHR notes:						