		Manufacti	urer Disclosure Sta	tement for Medical Device	ce Security - MDS ²		
	_			ICE DESCRIPTION			
Device	Cateo	ory	IManufacturer	Document ID	Document Release	Date	_
	-	y System	Hologic, Inc.	MAN-05436-001			
Device	Mode		Software Revision		Software Release D	 Date	
		st Biopsy System	1.0.1.2		Jul. 31, 2017		
		Company Name	9	Manufacturer Contact In			
Manufa	acturer			Mallory.Berko@Holog			
Repres		/e Poprocontativo	Name/Position	·i	,		
Contac	et Infor	Mallory Berko		į			
Intend	ed use		connected environment:				
				a® imaging technology is the wo	orld's first and only solution	to combine	
	_		·	eation and advanced post-biopsy			Γhe
		_		ever it can be interfaced to a RIS	_		
and to	a PAC	S to archive biopsy pro	ocedure images.				
			MANAGEN	IENT OF PRIVATE DATA			
						Yes, No,	#
	Ref	er to Section 2.3.2 of th	is standard for the proper	interpretation of information requ	uested in this form.	N/A, or See Note	Note
A	Can t	nis device display, tran	smit. or maintain private	data (including electronic Prote	cted Health Information	See Note	
	[ePHI		,	(···		Yes	
В	Types	of private data eleme	nts that can be maintaine	d by the device :			
	B.1	Demographic (e.g., na	ame, address, location, u	nique identification number)?		Yes	
	B.2	Medical record (e.g.,	medical record #, accoun	t #, test or treatment date, device	e identification number)?		
	D 0	D'	- / h - t - /	to at many life to a whole belonder that a		Yes	
	B.3	characteristics)?	c (e.g., pnoto/radiograph,	test results, or physiologic data	with identifying	Yes	
	B.4	,	ext entered by device use	er/operator?		Yes	_
	B.5	Biometric data?	in cincipally device dec	n/oporator.		No	_
	B.6	Personal financial info	ormation?			No	
С	Maint	aining private data - Ca	an the device :				
	C.1			emory (i.e., until cleared by powe	er-off or reset)?	Yes	
	C.2		ersistently on local media?			Yes	_
	C.3		data with other systems?			Yes Yes	_
D	C.4		during power service into	erruptions? rting of private data – Can the d e	evice.	103	
	D.1		e.g., video display, etc.)?	ang or private data — oan the di	CVICC.	Yes	
	D.2		ports or images containir	ng private data?		Yes	
	D.3		from or record private d	ata to removable media (e.g., d	lisk, DVD, CD-ROM, tape,	Yes	
	D.4	Transmit/receive or in	nport/export private data	via dedicated cable connection ((e.g., IEEE 1073, serial port,		
	D -	USB, FireWire, etc.)?			VDNI i di di di	Yes	
	D.5	etc.)?	ate data via a wired netw	ork connection (e.g., LAN, WAN	, VPN, intranet, internet,	Yes	
	D.6	,	ate data via an integrated	d wireless network connection (e.	a WiFi Bluetooth infrared	108	
	D.0	etc.)?	ate data via an integrated	wholess network connection (c.	.g., vvii i, bidetootii, iiiiidied,	Yes	
	D.7	Import private data v	ia scanning?			No	
	D.8	Other?	Ü			No	_
Manag							
Private	Data	notes:					

Device Category		Manufacturer Document ID Document Release D			Date	
Breast Biopsy System		Hologic, Inc.	MAN-05436-001	i		
Device Model		Software Revision		Software Release D	ate	
Brevera Breast Biopsy System		1.0.1.2		Jul. 31, 2017		
		SEC	URITY CAPABILITIES			
					Yes, No,	#
			er interpretation of information reques	ed in this form.	N/A, or See Note	Note
1	AUTOMATIC LOGOFF (AL	•				
		_	/ unauthorized users if device is left in			
1-1	(e.g., auto-logoff, session lo		n of logged-in user (s) after a predeten screen saver)?	mined length of inactivity	Yes	
	time [fixed or config	urable range] in notes.)	off/screen lock user or administrator of		Yes	1
	1-1.2 Can auto-logoff/scruuser?	een lock be manually invo	ked (e.g., via a shortcut key or proxim	ity sensor, etc.) by the	Yes	
ALOF	1. Inactivity logout	interval configurable by	customer.			
notes:						
2	AUDIT CONTROLS (AUDI	Γ)				
	The ability to reliably audit	activity on the device.				
2-1	Can the medical device cr	eate an audit trail?			Yes	
2-2	Indicate which of the follow	ing events are recorded in	the audit log:			
	2-2.1 Login/logout				Yes	
	2-2.2 Display/presentation	n of data			Yes	
	2-2.3 Creation/modification	on/deletion of data			Yes	
	2-2.4 Import/export of dat	a from removable media			Yes	
	2-2.5 Receipt/transmission	on of data from/to external	(e.g., network) connection		Yes	
	2-2.5.1 Remote serv	ice activity			Yes	
	2-2.6 Other events? (des	cribe in the notes section)			N/A	
2-3	Indicate what information is	s used to identify individua	Il events recorded in the audit log:			
	2-3.1 User ID				Yes	
	2-3.2 Date/time				Yes	
	Audit trail available	e to all Manager level use	rs through the Hologic software.			
ALIDT						
AUDT notes:						
3	AUTHORIZATION (AUTH)					
	The ability of the device to		on of users.			
3-1	Can the device prevent ac	cess to unauthorized user	rs through user login requirements or	other mechanism?	Yes	_
3-2	Can users be assigned different privilege levels within an application based on 'roles' (e.g., guests, regular users , power users , administrators, etc.)?		Yes	_		
3-3	Can the device owner/ operator obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?			Yes	_	
AUTH			s and differing operator roles (Techno	ologic and Manager.) Mar	nager level u	sers
notes:	can create new acco	ounts and revoke existing	accounts.			

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Г	Refer to Section 2.3.2 of	this standard for the proper	interpretation of information requ	uested in this form.	Yes, No, N/A, or See Note	Note #
4	CONFIGURATION OF SE	CURITY FEATURES (CNFS	5)			
	The ability to configure/re-o	configure device security c	apabilities to meet users' needs	S.		
4-1	Can the device owner/ope	rator reconfigure product se	curity capabilities?		No	_
CNFS notes:						
5	CYBER SECURITY PROD	UCT UPGRADES (CSUP)				
	The ability of on-site service	e staff, remote service staff	, or authorized customer staff to in	nstall/upgrade device 's secu	rity patches.	
5-1	Can relevant OS and device	ce security patches be appli	ed to the device as they become	e available?	No	_
	5-1.1 Can security patche	es or other software be insta	alled remotely?		No	_
CSUP notes:			DA regulated medical device, all ployed on a regular basis through	-	es need to be	2
6	HEALTH DATA DE-IDENT	IFICATION (DIDT)				
	The ability of the device to	directly remove information	that allows identification of a per	rson.		
6-1	Does the device provide a	n integral capability to de-id	entify private data?		Yes	
DIDT notes:	1. Patient data can	be de-identified through the	e standard software			
7	DATA BACKUP AND DISA	ASTER RECOVERY (DTBK)			
	The ability to recover after	damage or destruction of de	evice data, hardware, or software).		
7-1	Does the device have an in as tape, disk)?	ntegral data backup capabil	ity (i.e., backup to remote storage	e or removable media such	No	_
DTBK notes:	System only acts as performed by Holo		nt data before it is transmitted to	PACS. Any disaster recover	y will be	
8	EMERGENCY ACCESS (E	MRG)				
	The ability of device users private data.	to access private data in o	case of an emergency situation th	nat requires immediate acces	s to stored	
8-1	Does the device incorpora	te an emergency access ('	break-glass") feature?		No	_
EMRG notes:						
9	HEALTH DATA INTEGRIT	Y AND AUTHENTICITY (IG	AU)			
	How the device ensures that data processed by the device has not been altered or destroyed in an unauthorized the originator.					from
9-1	Does the device ensure th	e integrity of stored data wit	h implicit or explicit error detectio	on/correction technology?	No	_
IGAU notes:	System only acts as	s a temporary store of patier	nt data before it is transmitted to	PACS.		

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	Refer to Section 2.3.2 o	f this standard for the prop	per interpretation of information request	ed in this form.	Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTION/	` ,				
	The ability of the device to	o effectively prevent, detec	ct and remove malicious software (mal y	ware).		
10-1			oftware (or other anti-malware mechar	nism)?	Yes	
	10-1.1 Can the user indep	•	_		Yes	
			r in the device user interface?		No	_
	10-1.3 Can only manufact	turer-authorized persons re	epair systems when malware has beer	i detected?	Yes	
10-2	Can the device owner inst	all or update anti-virus so	oftware?		Yes	
10-3			lly) update virus definitions on manufac	turer-installed anti-virus	3	
	software?	, , , , ,			Yes	
MLDP notes:		most general Anti-Virus/A tic virus definition update	Anti-Malware packages and provides in as are supported.	nstructions for installation	on by the	
11	NODE AUTHENTICATION	N (NAUT)				
	The ability of the device to	• •	tion partners/nodes.			
11-1	•	• • •	e authentication that assures both the sto receive transferred information?	ender and the recipient	No	
					110	
NAUT notes:						
12	PERSON AUTHENTICAT	ION (PAUT)				
	Ability of the device to aut	thenticate users				
12-1	Does the device support	user/operator-specific use	ername(s) and password(s) for at least	one user?	Yes	
	12-1.1 Does the device su	upport unique user/operat	or-specific IDs and passwords for mult	iple users?		
					Yes	_
12-2	Directory, NDS, LDAP, etc	5.)?	through an external authentication sen		No	
12-3	Can the device be configu	ured to lock out a user afte	er a certain number of unsuccessful log	on attempts?	V	
12-4	Can default necessarie he	ahangad at/prior to inatall	ation?		Yes Yes	
12-4	Can default passwords be Are any shared user IDs to		ation?		Yes	1
12-6	•	•	user account passwords that meet est	ablished complexity	Yes	2
12-7	Can the device be configu	ured so that account passv	vords expire periodically?		Yes	_
	1. Applications los	gin for training and Servic	e account for system maintenance are	shared account. Passwo		nged
PAUT notes:		•	ore account lockout and password com			_
13	PHYSICAL LOCKS (PLO	K)				
	· ·	t unauthorized users with	physical access to the device from colle media.	mpromising the integrity	and confidenti	ality
13-1	Are all device component remove without tools)?	s maintaining private data	a (other than removable media) physic	cally secure (i.e., cannot	No	

PLOK notes:

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Device Model		Software Revision		Software Release D	ate	
Brever	ra Breast Biopsy System	1.0.1.2		Jul. 31, 2017		
	Refer to Section 2.3.2 of	this standard for the prope	er interpretation of information requeste	ed in this form.	Yes, No, N/A, or See Note	Note #
14	ROADMAP FOR THIRD PA	ARTY COMPONENTS IN	DEVICE LIFE CYCLE (RDMP)		OCC NOIC	
	Manufacturer's plans for se	curity support of 3rd party	components within device life cycle.			
14-1	In the notes section, list the including version number(s		arately purchased and/or delivered) op	perating system(s) -	Yes	_
14-2	Is a list of other third party a	applications provided by th	e manufacturer available?		Yes	
	Microsoft Windows	s Embedded Standard 7 S	P1			
RDMP						
notes:						
15	SYSTEM AND APPLICATION	ON HARDENING (SAHD)				
	The device 's resistance to	, ,				
15-1	Does the device employ ar industry-recognized harden		Please indicate in the notes the level o	f conformance to any	Yes	
15-2	Does the device employ ar program/update is the man		se-specific hash key, checksums, etc.) am or software update?	to ensure the installed	No	
15-3	Does the device have exte	rnal communication capab	vility (e.g., network, modem, etc.)?		Yes	
15-4	Does the file system allow t (NTFS) for MS Windows pla		evel access controls (e.g., New Techn	ology File System	Yes	_
15-5	Are all accounts which are applications?	not required for the intend	led use of the device disabled or dele	ted, for both users and	Yes	
15-6	Are all shared resources (e	.g., file shares) which are	not required for the intended use of th	ne device , disabled?	Yes	
15-7			r the intended use of the device clos		No	
15-8	required for the intended u	se of the device deleted/o			Yes	_
15-9	are not required for the inte	ended use of the device d			Yes	
	component)?		media (i.e., a source other than an in	·	Yes	_
15-11	tools?		ce manufacturer be installed on the de		Yes	_
SAHD		are incorporated into the	() of the device incorporates numerous product design.	s security scans and other	r vuineraoiiii	y
						_
16	SECURITY GUIDANCE (So The availability of security g		administrator of the system and manu	ufacturer sales and servic	e.	
16-1	Are security-related feature	s documented for the dev	ice user?		No	
16-2	Are instructions available for device /media sanitization (i.e., instructions for how to achieve the permanent deletion of personal or other sensitive data)?			Yes		
Hologic provides a Cyber Security Best Practices document on its website that provides recommendations on net security with the Brevera Breast Biopsy System product. Instructions for sanitation included in user manual.						

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Brever	Brevera Breast Biopsy System 1.0.1.2 Jul. 31, 2017					
	Refer to Section 2.3.2 of	f this standard for the prope	r interpretation of information requ	ested in this form.	Yes, No, N/A, or See Note	Note #
17		E CONFIDENTIALITY (STO	-			
	The ability of the device to on device or removable n		ss does not compromise the integr	rity and confidentiality of pri	vate data sto	red
17-1	Can the device encrypt da				Yes	
STCF notes:			temporary store of ePHI. System of transmission to PACS, and supp		-	ve
18	TRANSMISSION CONFID	ENTIALITY (TXCF)				
	The ability of the device to	ensure the confidentiality	of transmitted private data.			
18-1	Can private data be trans	mitted only via a point-to-po	int dedicated cable?		No	
18-2	Is private data encrypted which encryption standard		etwork or removable media ? (If y	ves, indicate in the notes	No	_
18-3	Is private data transmission	on restricted to a fixed list o	f network destinations?		Yes	
TXCF	Device can be con TLS can be used o	•	specific IP addresses. DICOM pro	ovides no native method to e	encrypt data,	but
notes:						
19	TRANSMISSION INTEGR	ITY (TXIG)				
	The ability of the device to	ensure the integrity of tran	smitted private data .			
19-1	Does the device support a describe in the notes secti		ensure data is not modified during	transmission? (If yes,	No	
TXIG notes:						
20	OTHER SECURITY CONS	SIDERATIONS (OTHR)				
		erations/notes regarding me	edical device security.			
20-1	Can the device be service	d remotely?			Yes	
20-2	Can the device restrict reraddresses)?	mote access to/from specific	ed devices or users or network loc	cations (e.g., specific IP	Yes	
	,	configured to require the lo	cal user to accept or initiate remot	te access?	No	_
OTHR						
notes:						