		Manufact	urer Disclosure Sta	tement for Medical Device Se	ecurity – MDS <sup>2</sup>		
			DEV	ICE DESCRIPTION			
Devic	e Categ	jory	Manufacturer	Document ID	Document Release	Date	
Mamı	nograp	hy System	Hologic, Inc	MAN-02859	1		
Devic	e Mode		Software Revision		Software Release D	Date	
	Dimensions / 3Dimensions 1.9 / 2.0						
5 mile	norono i	-			1		
Monut	facture	Company Nam	ie	Manufacturer Contact Inform			
	sentati	inologie, me		Chris.Fischer@hologic.com			
	ct Infor	Doprocontative	e Name/Position				
		Chris Fischer					
ntend	ded us	e of device in network	-connected environment:				
The H	Iologic	R Selenia Dimensio	ns® Mammography sys	tem and 3Dimensions® Mammograph	v system are designed	to capture ar	nd
				bhy <sup>™</sup> images to a downstream PACS			
			MANAGE	MENT OF PRIVATE DATA			_
						Yes, No,	#
	Refe	er to Section 2.3.2 of the	nis standard for the prope	er interpretation of information requeste	d in this form.	N/A, or See Note	Note #
A	Can t	his <b>device</b> display, tra	nsmit, or maintain <b>privat</b> e	e data (including electronic Protected	Health Information		
	[ePHI		•	, C		Yes	
В	Types	of private data elem	ents that can be maintain	ed by the <b>device</b> :			
	B.1	Demographic (e.g., ı	name, address, location,	unique identification number)?		Vac	
	БО				ntification number)?	Yes	
	B.2	Medical record (e.g.,	, medical record #, accou	nt #, test or treatment date, <b>device</b> ide	nuncation number)?	V	
	БJ	Diagnastis/thereas	tie (e.g. shate/radiograph	, taat raavita, ar nhysialaasia data with i	dentify in a	Yes	
	B.3	characteristics)?	lic (e.g., prioto/radiograph	n, test results, or physiologic data with i	dentifying	N	
	D 4	,		and an amoto ro		Yes	
	B.4		text entered by <b>device us</b>	ser/operator?		Yes	-
	B.5	Biometric data?	formation			See Note	1
<u>^</u>	B.6 Maint	Personal financial in				No	
С	C.1	aining private data - C		aamany (i.a. until alaarad by nowar off	or react)?	Yes	
	C.1 C.2			nemory (i.e., until cleared by power-off	or reset)?	Yes	
	C.2 C.3		persistently on local media			Yes	
	C.3 C.4		e data with other systems			Yes	
_		•	a during power service in	•		105	
D				orting of <b>private data</b> – Can the <b>device</b>	):	Yes	
	D.1 D.2		(e.g., video display, etc.)			Yes	
			reports or images contain			105	
	D.3			data to removable media (e.g., disk, I	JVD, CD-ROM, tape,	Yes	
	5.4	CF/SD card, memor	• /			1 05	
	D.4			<b>a</b> via dedicated cable connection (e.g.,	IEEE 1073, serial	Yes	
	5.5	port, USB, FireWire,				1 05	
	D.5	•	vate data via a wired het	work connection (e.g., LAN, WAN, VP	N, Intranet, Internet,	Yes	
		etc.)?	and a data site of the state			1 05	
	D.6		vate data via an integrate	ed wireless network connection (e.g., V	viri, Bluetooth,	No	
	D 7	infrared, etc.)?				No	
	D.7	Import private data	via scanning?			No	
	D.8	Other?	11 0 1 11				—
				ric fingerprint scanner for user login a			
Mana	gement			basswords can be used instead. Per the	· · · · · · · · · · · · · · · · · · ·		
	e Data			nt. Instead, it makes a map of 25 to 40			n pu
mat	- Data	it into a data fo	ormat called a template.	The template can only be interpreted b	y the specific biometri	c engine.	

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Device Category		Manufacturer	Document ID	Document Release Date		
Mammography System		Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release D	late	
Dimen	sions / 3Dimensions	1.9 / 2.0		42955		
		SECU	RITY CAPABILITIES		Yes, No,	
	Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in this form.					Note #
1	AUTOMATIC LOGOFF (A The device's ability to pre-	,	unauthorized <b>users</b> if <b>device</b> is	left idle for a period of time.	See Note	
1-1	Can the <b>device</b> be config		n of logged-in <b>user</b> (s) after a pred		Yes	
	1-1.1 Is the length of ina		off/screen lock <b>user</b> or administra	ator configurable? (Indicate	Yes	1
			ked (e.g., via a shortcut key or pr	roximity sensor, etc.) by the	Yes	_
ALOF notes:	1. Inactivity logo	at interval configurable by o	customer.			
2	AUDIT CONTROLS (AU	•				
	The ability to reliably audi	t activity on the <b>device</b> .				
2-1	Can the medical device	create an <b>audit trail</b> ?			Yes	_
2-2	-2 Indicate which of the following events are recorded in the audit log:					
	2-2.1 Login/logout				Yes	_
	2-2.2 Display/presentati	on of data			Yes	_
	2-2.3 Creation/modificat	ion/deletion of data			Yes	
	2-2.4 Import/export of d	ata from <b>removable media</b>			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	scribe in the notes section)			N/A	_
2-3	Indicate what information	is used to identify individual	l events recorded in the audit log	:		
	2-3.1 User ID				Yes	
	2-3.2 Date/time				Yes	
	Audit trail availab	ble to all Manager level user	rs through the Hologic software			_
AUDT notes:						
3	AUTHORIZATION (AUTI	H)				
	The ability of the device to	o determine the authorizatio	n of users.			
3-1	Can the <b>device</b> prevent a	ccess to unauthorized <b>user</b>	<b>s</b> through <b>user</b> login requiremen	ts or other mechanism?	Yes	_
3-2	power users, administrate	ors, etc.)?	n an application based on 'roles'		Yes	_
3-3	Can the <b>device</b> owner/ <b>operator</b> obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?			Yes	_	
AUTH notes:	can create new accounts and revoke existing accounts					users

Device Category		Manufacturer Document ID Document Relea			Date	
Mammography System		Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release I	Date	
Dimer	nsions / 3Dimensions	1.9 / 2.0		42955		
	Refer to Section 2.3.2 of	this standard for the prope	r interpretation of information re	equested in this form.	Yes, No, N/A, or See Note	Note #
4	CONFIGURATION OF SE	CURITY FEATURES (CN	FS)		00011010	
	The ability to configure/re-	configure device security	capabilities to meet users' ne	eds.		
4-1	Can the device owner/operator reconfigure product security capabilities?					1,2
CNFS			monthly basis and can be insta			
notes:		-	m changes being applied and n nd this product be added to a d		rmance or	
5		DUCT UPGRADES (CSUP		omani.		
	The ability of on-site servio	ce staff, remote service stat	ff, or authorized customer staff	to install/upgrade <b>device</b> 's sec	curity patches.	
5-1	Can relevant OS and <b>dev</b> i	<b>ce</b> security patches be app	lied to the <b>device</b> as they beco	ome available?	Yes	1
L	5-1.1 Can security patch	es or other software be ins	talled remotely?		No	'
CSUP notes:	~ ~	nonthly critical and securi d patch lists are posted to t	ty patch validation for Dimens he Hologic website.	ions and 3Dimensions Mamn	nography plati	forms
6	HEALTH DATA DE-IDEN	TIFICATION (DIDT)				_
	The ability of the <b>device</b> to	o directly remove informatio	on that allows identification of a	person.		
6-1	Does the <b>device</b> provide a	an integral capability to de-i	dentify private data?		Yes	
DIDT notes:	1. Patient data can	be de-identified through the	he standard software			
7	DATA BACKUP AND DIS	ASTER RECOVERY (DTE	BK)			_
	The ability to recover after	damage or destruction of <b>c</b>	<b>device</b> data, hardware, or softw	/are.		
7-1	Does the <b>device</b> have an such as tape, disk)?	integral data backup capab	ility (i.e., backup to remote stor	age or <b>removable media</b>	No	_
DTBK notes:	System only acts a performed by Hole		ent data before it is transmitted	d to PACS. Any disaster recov	very will be	
8	EMERGENCY ACCESS (	EMRG)				
	The ability of <b>device user</b> private data.	s to access <b>private data</b> in	case of an emergency situation	n that requires immediate acce	ess to stored	
8-1	Does the <b>device</b> incorpora	ate an <b>emergency access</b>	("break-glass") feature?		No	_
EMRG notes:	3					
9	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU) How the <b>device</b> ensures that data processed by the <b>device</b> has not been altered or destroyed in an unauthorized m from the originator.					s
9-1	Does the <b>device</b> ensure the	ne integrity of stored data w	vith implicit or explicit error dete	ction/correction technology?	No	
IGAU notes:						

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Device Model		Software Revision		Software Release I	Date	
Dimer	nsions / 3Dimensions	1.9 / 2.0		42955		
	Refer to Section 2.3.	2 of this standard for the prop	er interpretation of information requ	ested in this form.	Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTI	ON/PROTECTION (MLDP)			See Note	_
	The ability of the <b>devic</b>	e to effectively prevent, detectively	ct and remove malicious software ( <b>r</b>	nalware).		
10-1	Does the device supp	ort the use of anti-malware s	oftware (or other <b>anti-malware</b> med	hanism)?	Yes	_
	10-1.1 Can the user in	ndependently re-configure ant	i-malware settings?		Yes	
	10-1.2 Does notification	on of <b>malware</b> detection occur	r in the <b>device user</b> interface?		No	
	10-1.3 Can only manu	facturer-authorized persons r	epair systems when <b>malware</b> has b	een detected?	V	
10-2	Can the device owner	install or undets <b>anti virue e</b>	<b>#</b> woro?		Yes Yes	-
10-2		install or update anti-virus so	lly) update virus definitions on manu	ifacturer-installed <b>anti-</b>	105	-
100	virus software?				Yes	
MLDP notes:		tes most general Anti-Virus/Approximatic virus definition update	Anti-Malware packages and provide es are supported.	es instructions for installat	tion by the	
11			*:			
	3	ce to authenticate communica	•			
11-1	•	,	e authentication that assures both th uthorized to receive transferred infor		No	_
NAUT						
notes:						
12						
	PERSON AUTHENTIC Ability of the device to					
12-1	-		ornome(a) and password(a) for at la	ant one uner?		
12-1	Does the <b>device</b> supp	bit <b>user/operator</b> -specific use	ername(s) and password(s) for at lea	ast one user?	Yes	
	12-1.1 Does the devic	e support unique <b>user/operat</b>	t <b>or</b> -specific IDs and passwords for n	nultiple users?	Yes	_
12-2	Can the <b>device</b> be cor Directory, NDS, LDAP		through an external authentication	service (e.g., MS Active	Yes	1
12-3	•		er a certain number of unsuccessful	logon attempts?		
					Yes	
12-4		s be changed at/prior to install	lation?		Yes	_
12-5 12-6	•	Ds used in this system?	user account pacewords that most	astablished complexity	Yes	2
12-0	rules?	ingured to enforce creation of	user account passwords that meet	established complexity	Yes	3
12-7		nfigured so that account passv	words expire periodically?		Yes	
	1. Application	can be configured for LDAP	authentication			
PAUT		_	ce account for system maintenance	are shared account. Passw	ord can be cl	nange
notes:	if needed.	· ·				Ŭ
	3. Number of a	access attempts before accour	nt lockout and password complexity	rules configurable by cus	stomer.	
13	PHYSICAL LOCKS (P	LOK)				
		vent unauthorized <b>users</b> with on the <b>device</b> or on <b>removat</b>	physical access to the <b>device</b> from <b>ble media</b> .	compromising the integrity	/ and confider	ntiality
13-1	Are all <b>device</b> compon	ients maintaining <b>private dat</b> :	a (other than <b>removable media</b> ) phy	vsically secure (i e		
	cannot remove without	•••			Yes	
PLOK notes:						

Device Category		Manufacturer				
Mammography System		Hologic, Inc	MAN-02859			_
Device Model Dimensions / 3Dimensions		Software Revision Software Release 1.9 / 2.0 42955			ate	
Dimen			er interpretation of information re-		Yes, No, N/A, or See Note	Note #
14			I DEVICE LIFE CYCLE (RDMP)			
			y components within <b>device</b> life c	-		
14-1	In the notes section, list including version numbe	• • • •	parately purchased and/or delive	red) operating system(s) -	Yes	
14-2	•	ty applications provided by t	he manufacturer available?		Yes	
	Microsoft Windo	ows 7 Professional SP1				
RDMP notes:	•					
15	SYSTEM AND APPLIC	ATION HARDENING (SAHE	ונ			
		to cyber attacks and <b>malwa</b>				
15-1	Does the <b>device</b> employ industry-recognized hard	, ,	Please indicate in the notes the	level of conformance to any	Yes	
15-2		any mechanism (e.g., relea anufacturer-authorized prog	ase-specific hash key, checksums Iram or software update?	s, etc.) to ensure the installed	Yes	
5-3			bility (e.g., network, modem, etc.	)?	Yes	
15-4	Does the file system allo (NTFS) for MS Windows	-	-level access controls (e.g., New	Technology File System	Yes	_
15-5	and applications?		ded use of the device disabled of		Yes	_
15-6	Are all shared resources	(e.g., file shares) which are	not required for the <b>intended us</b>	<b>se</b> of the <b>device</b> , disabled?	Yes	_
15-7	Are all communication po	orts which are not required f	or the <b>intended use</b> of the <b>devic</b>	e closed/disabled?	No	_
15-8	required for the intended	d use of the device deleted		- ,	Yes	_
15-9		TS applications as well as O or the <b>intended use</b> of the <b>d</b>	S-included applications, e.g., MS evice deleted/disabled?	Internet Explorer, etc.)	Yes	_
15-10	Can the <b>device</b> boot from component)?	n uncontrolled or <b>removabl</b>	e media (i.e., a source other thar	n an internal drive or memory	Yes	_
15-11	Can software or hardwar tools?	e not authorized by the <b>dev</b>	ice manufacturer be installed on	the device without the use of	Yes	_
	other vulnerabili		DLC) of the device incorporates neorporated into the product desi		CIS, STIG)	and
SAHD	2. Application us		n media includes checksum testi		les checksui	m
6	SECURITY GUIDANCE					
	The availability of securit	y guidance for <b>operator</b> and	d administrator of the system and	I manufacturer sales and servio	ce.	
16-1	Are security-related feature	ures documented for the <b>de</b>	vice user?		No	_
16-2	deletion of personal or of	ther sensitive data)?	on (i.e., instructions for how to ac	•	Yes	
SGUD	security with the	des a Cyber Security Best P Dimensions product. oduct User Manuals.	Practices document on its website	e that provides recommendation	ons on netwo	ork

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Device Category				Document Release	Document Release Date		
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Device Model		Software Revision		Software Release	Date		
Dimensions / 3Dimensions		1.9 / 2.0		42955			
	Refer to Section 2.3.2 c	of this standard for the prope	r interpretation of information rec	quested in this form.	Yes, No, N/A, or See Note	Note #	
17	HEALTH DATA STORA	GE CONFIDENTIALITY (ST	CF)				
	The ability of the <b>device</b> to <b>device</b> or <b>removable</b>		ess does not compromise the inte	egrity and confidentiality of <b>p</b>	rivate data st	ored	
17-1	Can the <b>device</b> encrypt o				Yes		
STCF notes:	System can be co		n using strong symmetric encryp emove studies shortly after comp rds.				
18	TRANSMISSION CONFI	DENTIALITY (TXCF)					
	The ability of the <b>device</b>	to ensure the confidentiality	of transmitted private data.				
18-1	Can private data be tran	smitted only via a point-to-p	oint dedicated cable?		No		
18-2	Is <b>private data</b> encrypted which encryption standar	-	network or <b>removable media</b> ? (I	f yes, indicate in the notes	No		
18-3	• •	sion restricted to a fixed list of	of network destinations?		Yes		
	Device can be co	nfigured to only transmit to	specific IP addresses. TLS can l	be used on a local network.			
TXCF notes:		5	1				
19	TRANSMISSION INTEG	<b>RITY (TXIG)</b> to ensure the integrity of trar	nsmitted <b>private data</b> .				
19-1	Does the <b>device</b> support		ensure data is not modified duri	ng transmission?(If yes,	Yes	]_	
TXIG notes:	Device supports t	the use of TLS.					
20	OTHER SECURITY CON	SIDERATIONS (OTHR)					
_		derations/notes regarding <b>m</b>	edical device security				
20-1	Can the <b>device</b> be service				V		
20-1	Can the <b>device</b> restrict re	,	ied devices or <b>users</b> or network l	ocations (e.g., specific IP	Yes Yes		
	addresses)?	o configurad to require the k	ocal <b>user</b> to accept or initiate rem	noto accoso?	No	—	
OTHR notes:							