			Manufact	turer Disclosure	e Statemen	t for Medical De	vice Security – MDS	2		
						ESCRIPTION	·			
Devic	e Cate	gory		Manufacturer		Document ID	Document Re	elease C	Date	
Ultras	sound I	maging	System	EchoNous, Inc.		D007127	11th May,20	21		
Devic	Device Model Software Revision Software Release Da						ease Da	ate		
Echol	Nous B	ladder	/ EchoNous	5.1.0			11th May,20	21		
Vein	ein / Uscan									
			Company Nam	16		Manufacturer Conta	ct Information			
	facturer		EchoNous, Inc	>.		8310 154th Ave NE	E, Ste 200			
	Representative Redmond WA 98052-3864 Contact Information Representative Name/Position									
Oonta	ioi iiiioi		Richard Torres	s / Customer Suppor	rt Admin	Tel: 1-844-854-080	0 richard.torres@echono	us.com		
Inten	ded us	e of de	vice in network-	connected environm	nent:					
	-				•		Abdominal, Musculoske			
_						_	er that is used to automatic	-		lder
volun	ne. The	device	may receive so	ftware updates over	the network.	The device may tran	smit medical record data	o a rem	ote system.	
Н	_			MANA	GEMENT (OF PRIVATE DA	TA			
		_				-			Yes, No,	#
	Ref	fer to S	ection 2.3.2 of the	his standard for the	proper interpre	etation of information	requested in this form.		N/A, or	Note
									See Note	ž
A				-		=	otected Health Informati	on	Yes	1
В		-		ents that can be mai	-					
	B.1 B.2				-	entification number)?	wiee identification number	·\	Yes	2
	B.3					or treatment date, de ults, or physiologic da	vice identification number) :	Yes	2
	B.4	-					ata with identifying		Yes	2
	B.5	-	າ, ພາເຣເເພດເພາຍພ ເ netric data?	ext entered by devic	se user/opera	tor :			Yes No	2
	B.6	_	onal financial inf	formation?					No	
С			private data - C						110	
	C.1	_			tile memory (i	.e., until cleared by po	ower-off or reset)?		Yes	3
	C.2			ersistently on local r					Yes	3
	C.3	•		e data with other sys					Yes	3
L	C.4		-	a during power servi	-				Yes	3
D						orivate data – Can th	e device:		Vas	4
	D.1 D.2			(e.g., video display, eports or images co		to data?			Yes Yes	4
	D.2 D.3				• •		ı., disk, DVD, CD-ROM, ta	ne	103	7
	D.0		D card, memory	-	rate data to re	movable media (e.g	., dion, DVD, OD 1101vi, ta	ρο,	No	
	D.4	Tran	smit/receive or i	mport/export private	e data via ded	icated cable connecti	on (e.g., IEEE 1073, seria	port,		
		USB	, FireWire, etc.)	?					Yes	4
	D.5		-				AN, VPN, intranet, Interne		No	
	D.6				grated wireles	s network connection	n (e.g., WiFi, Bluetooth, inf	rared,	Yes	4
	D.7	Othe	rt private data	via scanning?					No N/A	
	D.8	Othe		con ha configured so	o no a DU I data	o is displayed or store	ed. However, it is also pos	cible to		
				lay, store and send e		is displayed of store	a. However, it is also pos	sidie to	configure ii	ie
			•	• 1		e, unique ID, Organis	sation name, test date, ultr	asound	images,	
			unstructured n	otes and annotations	S.	-			_	
	gement						tion of the exam (study), s			n
Privat	e Data	notes:					when remote storage is c	_		
							ne local display. Hardcopy			ICD
							, the ePHI information car be enforced (setting an An			
			password).	oor computer and ap	Proprieto sect	and seemings should t	or office (seeing an All	aroid ta	core dispiny	

Device Category		Manufacturer	Document ID	Document Release	Date	
Ultrasound Imaging System		EchoNous, Inc.	D007127	11th May,2021		
Device	Model	Software Revision		Software Release D	ate	
EchoNous Bladder / EchoNous		5.1.0		11th May,2021		
Vein /	Uscan	<u>i </u>		i		
		SECU	RITY CAPABILITIES			
	Refer to Section 2.3.2 of t	his standard for the proper	interpretation of information req	juested in this form.	Yes, No, N/A, or See Note	Note #
1	AUTOMATIC LOGOFF (AL	OF)			000 11010	
	The device 's ability to preven	ent access and misuse by t	unauthorized users if device is I	eft idle for a period of time.		
1-1	Can the device be configure (e.g., auto-logoff, session lo		of logged-in user (s) after a pred reen saver)?	etermined length of inactivity	Yes	5
	1-1.1 Is the length of inact	ivity time before auto-logof	f/screen lock user or administra	tor configurable? (Indicate		
		rable range] in notes.)			Yes	5
	1-1.2 Can auto-logoff/scre user?	en lock be manually invoke	ed (e.g., via a shortcut key or pro	oximity sensor, etc.) by the	Yes	5
ALOF		des the ability to configure	a system-wide (rather than use	r-specific) screen lock that is	configurable	via
notes:	the system setting.					
2	AUDIT CONTROLS (AUDT)					
	The ability to reliably audit a	ctivity on the device .				
2-1	Can the medical device cre	eate an audit trail ?			No	
2-2	Indicate which of the following	ng events are recorded in t	he audit log:			
	2-2.1 Login/logout				N/A	
	2-2.2 Display/presentation	of data			N/A	
	2-2.3 Creation/modification	n/deletion of data			N/A	
	2-2.4 Import/export of data	from removable media			N/A	
	2-2.5 Receipt/transmission	n of data from/to external (e	e.g., network) connection		N/A	
	2-2.5.1 Remote servi	ce activity			N/A	
	2-2.6 Other events? (desc	ribe in the notes section)			N/A	
2-3	Indicate what information is	used to identify individual	events recorded in the audit log:			
	2-3.1 User ID				N/A	
	2-3.2 Date/time					
AUDT notes:						
notos.						
3	AUTHORIZATION (AUTH)					
	The ability of the device to c	letermine the authorization	of users.			
3-1	Can the device prevent acc	ess to unauthorized users	through user login requirements	s or other mechanism?	Yes	6
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	6		
3-3	Can the device owner/ operator obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?			No	6	
AUTH notes:	controlled to individual user logilis. Access to offiasound scalling functionality may be inflitted via a pa					to

Device Category		Manufacturer	Document Releas	Document Release Date		
Ultraso	ound Imaging System	EchoNous, Inc.	D007127	11th May,2021		
Device	Model	Software Revision Softwa		Software Release	Date	
	lous Bladder / EchoNous	5.1.0		11th May,2021	24.0	
	Uscan			11		
Г	Refer to Section 2.3.2 of	this standard for the prope	r interpretation of information re	quested in this form.	Yes, No, N/A, or	Note #
	CONFIGURATION OF OF	NUDITY EFATURES (SNE	2)		See Note	Z
4	The ability to configure/re-c	•	s) capabilities to meet users' need	ds.		
4-1	Can the device owner/oper	ator reconfigure product s e	ecurity capabilities?		Yes	7
CNFS notes:	7. The device admin	nistrator may configure a n	number of settings/restrictions v	ia the settings.		
5	CYBER SECURITY PROD	UCT UPGRADES (CSUP)				
	The ability of on-site service	e staff, remote service staff	, or authorized customer staff to	install/upgrade device 's sed	curity patches.	
5-1	Can relevant OS and device	e security patches be appli	ied to the device as they becom	ne available?	Yes	
	5-1.1 Can security patche	es or other software be insta	alled remotely?		No	
	•		·		110	
CSUP notes:						
6	HEALTH DATA DE-IDENT	IFICATION (DIDT)				
	The ability of the device to	directly remove information	n that allows identification of a p	erson.		
6-1	Does the device provide an	n integral capability to de-id	lentify private data?		See Note	8
DIDT	8. De-identification	is performed on data sent	to the manufacturer to improve	the product. The sending of	f this data requi	ires
DIDT notes:	an opt-in from the o	customer.				
	DATA BACKUP AND DISA	CTED DECOVEDY (DTD)	7)			
ľ		•	•) evice data, hardware, or softwa	re.		
7-1	· ·	-			h	
/-1	as tape, disk)?	педгаг чата раскир сарарп	lity (i.e., backup to remote stora	ge of removable media suc	No	
DTBK notes:						
8	EMERGENCY ACCESS (E	MRG)				
			case of an emergency situation	that requires immediate acce	ess to stored	
8-1	Does the device incorporate	e an emergency access ("break-glass") feature?		No	
EMRG notes:						
9	HEALTH DATA INTEGRIT	Y AND AUTHENTICITY (IG	GAU)			
		·	evice has not been altered or de	estroyed in an unauthorized	manner and is	from
9-1	Does the device ensure the	e integrity of stored data wi	th implicit or explicit error detect	ion/correction technology?	Yes	9
IGAU notes:	9. Implicit error det protocols supported		mented in the internal flash stor	age file system, and the wire	eless communic	cation

Device	Category	Manufacturer	Document ID	Document Release I	Date	
Ultrasound Imaging System		EchoNous, Inc.	D007127	11th May,2021		
Device	Model	Software Revision		Software Release Da		
	lous Bladder / EchoNous	5.1.0		11th May,2021		
Vein /				,,,,,,		
Г	Refer to Section 2.3.2 of the	is standard for the proper	interpretation of information rec	quested in this form.	Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTION/PR	OTECTION (MLDP)				
		` ,	nd remove malicious software ((malware).		
10-1	Does the device support the	use of anti-malware softv	vare (or other anti-malware me	echanism)?	No	
	10-1.1 Can the user indeper				N/A	
	10-1.2 Does notification of m				N/A	
	10-1.3 Can only manufacture	er-authorized persons repa	ir systems when malware has	been detected?	N/A	
10-2	Can the device owner install	or undate anti-virus soft	uara?		No	
10-2		•	update virus definitions on mar	oufacturer-installed anti-virus	110	
	software?	(toorimodily/priyolodily/	apacto virao dominiono on mar	ialactaror inicianoa anti vii ao	No	
MLDP						
notes:						
11	NODE AUTHENTICATION (•				
	The ability of the device to a	uthenticate communicatior	n partners/nodes.			
11-1			uthentication that assures both eceive transferred information?	•	No	10
NAUT notes:	10. Communication t	o the software update serv	er uses a key to authenticate th	ne client device.		
12	PERSON AUTHENTICATION	N (PAUT)				
	Ability of the device to authe	nticate users				
12-1	Does the device support use	er/operator-specific userna	ame(s) and password(s) for at I	east one user ?	Yes	11
·	12-1.1 Does the device supp	oort unique user/operator -	specific IDs and passwords for	multiple users?	Yes	11
12-2	Can the device be configured Directory, NDS, LDAP, etc.)?		ough an external authentication	n service (e.g., MS Active	No	
12-3	Can the device be configure	d to lock out a user after a	certain number of unsuccessfu	ul logon attempts?		
					No	
12-4	Can default passwords be ch		on?		N/A	12
12-5	Are any shared user IDs use				Yes	13
12-6	rules?	d to enforce creation of us	er account passwords that mee	et established complexity	No	
12-7	Can the device be configure	d so that account passwore	ds expire periodically?		No	
	11. Access to PHI da 12. There are no defa		igh user-specific usernames an	d passwords.		
PAUT notes:		s both an administrator pa	ssword, and a password to lim	it access to Ultrasound scanning	ng functiona	lity.
13	PHYSICAL LOCKS (PLOK)					
			vsical access to the device from media.	m compromising the integrity a	nd confidenti	ality
13-1	Are all device components n remove without tools)?	naintaining private data (o	ther than removable media) p	hysically secure (i.e., cannot	Yes	_
PLOK notes:						

Device Category		ory	Manufacturer		Document Release [Date	
Ultrasound Imaging System		naging System	EchoNous, Inc.	D007127	11th May,2021		
L — —	Device Model		Software Revision		Software Release Da		
		adder / EchoNous	5.1.0		11th May,2021	110	
	Uscan	adder / Lenorvous	5.1.0		11th Way,2021		
	Refe	er to Section 2.3.2 of	this standard for the proper	r interpretation of information requ	uested in this form.	Yes, No, N/A, or	# #
	11010	51 10 00011011 2.0.2 01	and drandard for the propor	miorprotation or miormation roqu		See Note	Note
14	ROAD	MAP FOR THIRD PA	ARTY COMPONENTS IN D	DEVICE LIFE CYCLE (RDMP)			
	Manuf	acturer's plans for se	curity support of 3rd party of	components within device life cyc	le.		
14-1	4-1 In the notes section, list the provided or required (separately purchased and/or delivered) operating system(s) - including version number(s).						
14-2		-	applications provided by the	e manufacturer available?		No	
RDMP							
notes:							
15			ON HARDENING (SAHD)				
	The de	evice's resistance to	cyber attacks and malware	9.			
15-1		the device employ ar ry-recognized harden	-	lease indicate in the notes the lev	el of conformance to any	Yes	14
15-2			ny mechanism (e.g., release ufacturer-authorized progra	e-specific hash key, checksums, e ım or software update?	etc.) to ensure the installed	Yes	15
15-3	Does the device have external communication capability (e.g., network, modem, etc.)?				Yes	16	
15-4	Does the file system allow the implementation of file-level access controls (e.g., New Technology File System (NTFS) for MS Windows platforms)?				echnology File System	Yes	
15-5	Are all accounts which are not required for the intended use of the device disabled or deleted, for both users and applications?				deleted, for both users and	N/A	
15-6			.g., file shares) which are n	ot required for the intended use	of the device , disabled?	Yes	17
15-7	Are all	communication ports	s which are not required for	hich are not required for the intended use of the device closed/disabled?	closed/disabled?	100	
	7 O Q	John Marie Port			5.0000, 0.000.00	Yes	17
15-8], internet information server [IIS],	etc.), which are not	*7	
			se of the device deleted/di			Yes	17
15-9			applications as well as OS- ended use of the device de	-included applications, e.g., MS In eleted/disabled?	ternet Explorer, etc.) which	Yes	
15-10		ne device boot from upnent)?	incontrolled or removable	media (i.e., a source other than a	n internal drive or memory	No	
15-11	Can so tools?	oftware or hardware r	not authorized by the devic	e manufacturer be installed on the	e device without the use of	No	
		14. The device has	no incoming ports open an	d has unused applications disable	ed through the use of the devi	ice administ	trator
			There is no specific conformations are checked by	rmance to any particular hardenir before installation.	ng standards.		
SAHD	notes:	16. The device has					
		17. The device prov	vides no services (no incon	ning ports).			
16	OFOLI	DITY OUIDANOE (O	OLID)				
16		RITY GUIDANCE (So		administrator of the system and m	nanufacturer sales and service	Δ	
16.1	The availability of security guidance for operator and administrator of the system and manufacturer sales and service. Are security related features documented for the device user ?						
16-1 Are security-related features documented for the device user ?				Yes	18		
16-2	of personal or other sensitive data)?				Yes	18	
SCHD	notos:	18. Security options	s are explained in the syste	m user manual (P003948).			
SGUD	notes:						

Device Category		Manufacturer Document ID Docum		Document Release	ıment Release Date		
Ultras	ound Imaging System	EchoNous, Inc.	D007127	11th May,2021			
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EchoN	Nous Bladder / EchoNous	5.1.0		11th May,2021			
Vein /	Uscan	<u>i</u>		i			
	Pofor to Section 2.2.2 of	this standard for the proper	interpretation of information red	guested in this form	Yes, No,	Note #	
	Helef to Section 2.3.2 of	this standard for the proper	interpretation of information rec	questeu in triis ionni.	N/A, or See Note	Not	
17	HEALTH DATA STORAGE	CONFIDENTIALITY (STC	F)				
	The ability of the device to on device or removable m		s does not compromise the inte	grity and confidentiality of pri	vate data sto	red	
17-1	Can the device encrypt data at rest?					19	
	19. The internal sto	orage is encrypted and is pro	otected via the device password	l.			
STCF notes:			•				
18	TRANSMISSION CONFIDE	ENTIALITY (TXCF)					
	The ability of the device to	ensure the confidentiality o	f transmitted private data .				
18-1	Can private data be transr	nitted only via a point-to-poi	nt dedicated cable?		No		
18-2	Is private data encrypted p which encryption standard		etwork or removable media? (I	f yes, indicate in the notes	Yes	20	
18-3	Is private data transmission	on restricted to a fixed list of	network destinations?		No		
		_	via Wi-Fi security mechanisms	s. Other security is protocol de	ependent. BC	X	
TXCF	export and Signosti	ics upload is protected via l	HTTPS.				
notes:							
19	TRANSMISSION INTEGRI	TY (TXIG)					
		ensure the integrity of trans	mitted private data .				
19-1	Does the device support a	ny mechanism intended to e	ensure data is not modified duri	ng transmission? (If yes,			
	describe in the notes section	,			Yes	21	
TXIG	21. Some file types packet checksums.	transmitted (such as PNG)	include checksums. The USB	protocol and Wi-Fi protocols	include indiv	/idual	
notes:	packet checksums.						
20	OTHER SECURITY CONS	IDERATIONS (OTHR)					
		erations/notes regarding me	dical device security.				
20-1	Can the device be serviced	d remotely?			No		
20-2	Can the device restrict rem	note access to/from specifie	d devices or users or network I	ocations (e.g., specific IP			
	addresses)?				No		
	20-2.1 Can the device be	configured to require the loc	cal user to accept or initiate rem	note access?	N/A		
OTHR							
notes:							