ΗN	1-2013
Р	ade 17

	Manufacturer Disclosure Statement for M			_
	DEVICE DESCRI	PTION		
evice Categ	gory Manufacturer Docum	ent ID Document Release Da	ate	
Itrasound	Butterfly Network, Inc. 950-20	007-00 v04 June, 2020		
evice Mode	Software Revision	Software Release Date	e	-
2	1.19	May, 2020	•	
<b>X</b>				
		acturer Contact Information		
lanufacturer		(203) 458-7100		
epresentati		support@butterflynetwork.com		
ontact Infor	mation Allan Bottemiller Web: h	nttps://butterflynetwork.com/contact		
	Medical Informatics Manager			
ntended us	e of device in network-connected environment:			_
	twork, Inc. (BNI) develops and manufactures point of care ultras	sound (POCUS) products Butterfly iO the PO	CUS device	۹
	ared by FDA as a Class II medical device. Butterfly Network iQ			
	to a smartphone or tablet. Ultrasound studies are conducted using			
	mobile app is used to capture image/cine, associate patient information of the state of the stat	- · · · · · · · · · · · · · · · · · · ·		
	wider can save the ultrasound study to the Butterfly Cloud. The			
	xams, as well as user provisioning, SSO/MDM integrations, and			100 (
	e calls can be initiated between two Butterfly members. A trained			
	terface of the Butterfly Cloud.	a unrasound user can guide another novice user	i anougn to	5015
i the web in	leriace of the Butterny Cloud.			
	MANAGEMENT OF PRI	VATE DATA		
			Yes, No,	*
Ref	fer to Section 2.3.2 of this standard for the proper interpretation of	f information requested in this form.	N/A, or	
			See Note	Ž
	his <b>device</b> display, transmit, or maintain <b>private data</b> (including <b>e</b>		Yes	1
Турея	s of <b>private data</b> elements that can be maintained by the <b>device</b> :			
B.1	Demographic (e.g., name, address, location, unique identification	-	Yes	_
B.2	Medical record (e.g., medical record #, account #, test or treatm	nent date, device identification number)?	Yes	
B.3	Diagnostic/therapeutic (e.g., photo/radiograph, test results, or p	hysiologic data with identifying		
	characteristics)?		Yes	_
B.4	Open, unstructured text entered by device user/operator?		Yes	_
B.5	Biometric data?		No	
B.6	Personal financial information?		No	
Maint	aining <b>private data -</b> Can the <b>device</b> :			
C.1	Maintain private data temporarily in volatile memory (i.e., until	cleared by power-off or reset)?	Yes	2
C.2	Store private data persistently on local media?		See Note	3
C.3	Import/export private data with other systems?		Yes	4
C.4	Maintain private data during power service interruptions?		Yes	_
Mech	anisms used for the transmitting, importing/exporting of private d	lata – Can the device:		
D.1	Display private data (e.g., video display, etc.)?		Yes	
D.2	Generate hardcopy reports or images containing private data?	-	No	
D.3	Retrieve private data from or record private data to removable			
	CF/SD card, memory stick, etc.)?		No	_
D.4	Transmit/receive or import/export private data via dedicated ca	able connection (e.g., IEEE 1073, serial port,		
	USB, FireWire, etc.)?		No	_
D.5	Transmit/receive private data via a wired network connection (	e.g., LAN, WAN, VPN, intranet, Internet,	N.	
	etc.)?		No	
D.6	Transmit/receive private data via an integrated wireless networ	rκ connection (e.g., WiFi, Bluetooth, infrared,	Yes	
D.7	Import private data via scanning?		Yes	_
D.8	Other?			_
	1. Butterfly iQ provides the ability for users to enter PHI	l or pull data from a DICOM Modality Worklis	t (MWL).	
	2. Ultrasound exams that may include PHI are cached with	ithin the Butterfly mobile app until successfully	uploaded	to
	the Butterfly Cloud.			
lanagement		the user uploads the study to the Butterfly Clo	ud, at whic	h
	notes: time the local data is deleted.			
		ospital system connections, such as PACS for a	rchiving ar	nd
	4. The Butterny Cloud utilizes TLS 1.2 encryption for its	ospital system connections, such as 17100 to a		
			-	olec
	Modality Worklist to pull patient demographics to the B to allow system administrators to export data to their loc	utterfly iQ mobile app. A configurable option c	-	olec

the Healthcare Information and Management Systems Society.

	Catego	ory	Manufacturer	Document ID	Document Release	Date	
Jltraso			Butterfly Network, Inc.	950-20007-00 v04	June, 2020		
	Model		Software Revision		Software Release D	ate	
Q					May, 2020		_
			SECUR			Yes, No,	
				nterpretation of information requ	uested in this form.	N/A, or See Note	Note #
		MATIC LOGOFF (A vice's ability to pre	,	nauthorized <b>users</b> if <b>device</b> is le	eft idle for a period of time.		
-1	(e.g., a	uto-logoff, session	lock, password protected scre	,		Yes	1
		time [fixed or confi	gurable range] in notes.)	screen lock <b>user</b> or administrat		Yes	2
	1-1.2	user?		d (e.g., via a shortcut key or prodevice configuration. The Butte		Yes	1, 2
LOF otes:		app. The user will 2. The Butterfly C 24 hours.	be unable to log back into th loud provides a customizable	e lock will result in the user bein e Butterfly mobile app until a d e inactivity timer that can be set	levice lock has been re-enable	ed.	
		CONTROLS (AUD	<b>)T)</b> t activity on the <b>device</b> .				
-1			create an <b>audit trail</b> ?				Ι.
-1	-		wing events are recorded in th	o audit log:		Yes	1
-2		Login/logout		e audit log.		<b>C N</b>	
		Display/presentation	an of data			See Note	2
			ion/deletion of data			See Note	3
						Yes	+-
			ata from removable media	a natural) connection		N/A	
			ion of data from/to external (e	.g., network) connection		Yes	
		2.5.1 Remote ser	•			N/A	4
0			scribe in the notes section)	and the second section at the second section of the second section of the second section of the second se		See Note	5
2-3			is used to identify individual e	vents recorded in the audit log:			
		User ID				Yes Yes	
	2-3.2	Date/time	ed on the Butterfly Cloud an	d transmitted to the Butterfly C	loud is logged	res	
UDT			, logout is not. Session keys a	are issuds for 24 hours and auto		d manually	by
otes:		4. There is no rem	ote access to the device throu	- · · · ·			
		ORIZATION (AUTH		date/time of uploads, deletion	s, , captures and archives) is	logged.	
		•	determine the authorization of the second s	of users.			
-1				hrough <b>user</b> login requirements	or other mechanism?	Yes	1, 1
-2				an application based on 'roles' (		103	1,
-	power i Can the	users, administrato e device owner/op	ors, etc.)? erator obtain unrestricted adm	ninistrative privileges (e.g., acce		Yes	_
-3	applica			ock (password, pin, etc.) to be e	enabled. SSO/SAML integrat		
3-3 AUTH		more memorie to Cl	noree user login and passwol	a requiremento.	evice Management (MDM) fe		

## HN 1-2013 Page 19

	e Category	Manufacturer	Document ID	Document Release	e Date	
Ultras	ound	Butterfly Network, Inc.	950-20007-00 v04	June, 2020		
Device	e Model	Software Revision		Software Release	Date	_
Q		1.19		May, 2020		
	Refer to Section 2.3	3.2 of this standard for the proper inte	erpretation of information reque	ested in this form.	Yes, No, N/A, or See Note	Note #
4		F SECURITY FEATURES (CNFS) e/re-configure device security capa	abilities to meet users' needs.			
4-1	Can the <b>device</b> owner	r/operator reconfigure product <b>secur</b>	rity capabilities?		See Note	1
CNFS notes:		owner/operator can only configure a e Butterfly Cloud and user profiles a				1
5		RODUCT UPGRADES (CSUP) service staff, remote service staff, or	authorized customer staff to in	stall/upgrade <b>device</b> 's se	curity patches.	
5-1	Can relevant OS and	device security patches be applied t	to the <b>device</b> as they become a	available?	Yes	
	5-1.1 Can security p	atches or other software be installed	remotely?		See Note	1
CSUP notes:	security natch	ly mobile app does not impact mobile are delivered thorugh the Butterf			-	
6		DENTIFICATION (DIDT)				
	-	ce to directly remove information that		son.	T	1
6-1	-	ide an integral capability to de-identi			Yes	1
DIDT notes:		the ability to share de-idenfitied stu	dy links from the Butterfly Clo	oud and Butterfly mobile	app.	
7		DISASTER RECOVERY (DTBK)				
	The ability to recover a	after damage or destruction of <b>devic</b>	<b>:e</b> data, hardware, or software.			
7-1		e an integral data backup capability (	i.e., backup to remote storage	or removable media suc		1
отвк	as tape, disk)? 1. Ultrasound	exams acquired on the Butterfly iQ			Yes	1 y and
DTBK notes:	as tape, disk)? 1. Ultrasound	exams acquired on the Butterfly iQ es.			Yes	1 y and
DTBK notes:	as tape, disk)? 1. Ultrasound prior to update EMERGENCY ACCES	exams acquired on the Butterfly iQ es.	are securely uploaded to the E	Butterfly Cloud, which is	Yes backed up dail	1 y an
7-1 DTBK notes: <b>8</b> 8-1	as tape, disk)? 1. Ultrasound prior to update EMERGENCY ACCES The ability of device u private data.	exams acquired on the Butterfly iQ es.	e are securely uploaded to the E	Butterfly Cloud, which is	Yes backed up dail	1 y an
DTBK notes: 8	as tape, disk)? 1. Ultrasound prior to update EMERGENCY ACCES The ability of device u private data. Does the device incom N/A	exams acquired on the Butterfly iQ es. SS (EMRG) users to access private data in case	e are securely uploaded to the E	Butterfly Cloud, which is	Yes backed up dail	1 y an-
DTBK notes: 3 3-1 EMRG notes:	as tape, disk)? 1. Ultrasound prior to update EMERGENCY ACCES The ability of device u private data. Does the device incom S. N/A	exams acquired on the Butterfly iQ es. SS (EMRG) users to access private data in case	e are securely uploaded to the E e of an emergency situation that eak-glass") feature?	Butterfly Cloud, which is	Yes backed up dail	1 y an
DTBK notes: 3 3-1 EMRG notes:	as tape, disk)? 1. Ultrasound prior to update EMERGENCY ACCES The ability of device u private data. Does the device incom N/A HEALTH DATA INTER	exams acquired on the Butterfly iQ es. SS (EMRG) users to access private data in case rporate an emergency access ("bre	e of an emergency situation the eak-glass") feature?	Butterfly Cloud, which is at requires immediate acc	Yes backed up dail ess to stored No	_
DTBK notes: 8 8-1 EMRG	as tape, disk)? 1. Ultrasound prior to update EMERGENCY ACCES The ability of device u private data. Does the device incom S N/A HEALTH DATA INTEG How the device ensure the originator.	exams acquired on the Butterfly iQ es. SS (EMRG) users to access private data in case rporate an emergency access ("bre GRITY AND AUTHENTICITY (IGAU)	e of an emergency situation the e of an emergency situation that eak-glass") feature?	Butterfly Cloud, which is at requires immediate acc	Yes backed up dail ess to stored No	

the Healthcare Information and Management Systems Society.

Device	e Category Manufacturer Document ID Document R	elease Date	
Ultras	sound Butterfly Network, Inc. 950-20007-00 v04 June, 2020		
Device	e Model Software Revision Software Rel	lease Date	_
Q	1.19 May, 2020		
	Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in this form.	Yes, No, N/A, or See Note	Note #
0	MALWARE DETECTION/PROTECTION (MLDP)		
	The ability of the <b>device</b> to effectively prevent, detect and remove malicious software ( <b>malware</b> ).		
0-1	Does the <b>device</b> support the use of <b>anti-malware</b> software (or other <b>anti-malware</b> mechanism)?	See Note	1
	10-1.1 Can the <b>user</b> independently re-configure <b>anti-malware</b> settings?	Yes See Note	-
	10-1.2         Does notification of malware detection occur in the device user interface?           10-1.3         Can only manufacturer-authorized persons repair systems when malware has been detected?		1
0.0		N/A Yes	1
0-2	Can the device owner install or update <b>anti-virus software</b> ? Can the device owner/ <b>operator</b> (technically/physically) update virus definitions on manufacturer-installed <b>ant</b> i		-
0-3	software?	N/A	
ИLDP	1. Installing anti-malware software on the mobile device will not impact the Butterfly mobile app. A	I	
notes:			
1	NODE AUTHENTICATION (NAUT)		
	The ability of the <b>device</b> to authenticate communication partners/nodes.		
1-1	Does the <b>device</b> provide/support any means of node authentication that assures both the sender and the rec	ipient	1
	of data are known to each other and are authorized to receive transferred information?	Vas	1
	of data are known to each other and are authorized to receive transferred information?	Yes	1
NAUT	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed	l using HTTPS with	
NAUT notes:	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are performed	l using HTTPS with	
	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).	l using HTTPS with	
otes:	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are performed	l using HTTPS with	
otes: 2	<ol> <li>Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li>PERSON AUTHENTICATION (PAUT) Ability of the device to authenticate users</li> <li>Does the device support user/operator-specific username(s) and password(s) for at least one user?</li> </ol>	l using HTTPS with	
notes: 1 <b>2</b> 12-1	<ol> <li>Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li>PERSON AUTHENTICATION (PAUT) Ability of the device to authenticate users</li> </ol>	l using HTTPS with med via Butterfly L	ink
notes: 2 2-1	<ol> <li>Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li>PERSON AUTHENTICATION (PAUT) Ability of the device to authenticate users</li> <li>Does the device support user/operator-specific username(s) and password(s) for at least one user?</li> </ol>	l using HTTPS with med via Butterfly L Yes Yes	ink
notes: 2 2-1 12-2	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed     1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform     software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).      PERSON AUTHENTICATION (PAUT)     Ability of the device to authenticate users     Does the device support user/operator-specific username(s) and password(s) for at least one user?     12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users?     Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti	l using HTTPS with med via Butterfly L Yes Yes ive	ink
notes: 12-1 12-2 12-3	<ol> <li>Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li><b>PERSON AUTHENTICATION (PAUT)</b> Ability of the device to authenticate users</li> <li>Does the device support user/operator-specific username(s) and password(s) for at least one user?</li> <li>12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users?</li> <li>Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)?</li> <li>Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?</li> </ol>	l using HTTPS with med via Butterfly L Yes Yes ive Yes Yes	ink 1 2
12-1 12-2 12-3 12-4	<ol> <li>Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li><b>PERSON AUTHENTICATION (PAUT)</b> Ability of the <b>device</b> to authenticate <b>users</b></li> <li>Does the <b>device</b> support <b>user/operator</b>-specific username(s) and password(s) for at least one <b>user</b>?</li> <li>12-1.1 Does the device support unique <b>user/operator</b>-specific IDs and passwords for multiple users?</li> <li>Can the <b>device</b> be configured to authenticate <b>users</b> through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)?</li> <li>Can the <b>device</b> be configured to lock out a <b>user</b> after a certain number of unsuccessful logon attempts?</li> <li>Can default passwords be changed at/prior to installation?</li> </ol>	l using HTTPS with med via Butterfly L Yes Yes ive Yes	ink
2-1 2-2 2-3 2-4 2-5	<ol> <li>Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li><b>PERSON AUTHENTICATION (PAUT)</b> Ability of the device to authenticate users</li> <li>Does the device support user/operator-specific username(s) and password(s) for at least one user?</li> <li>12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users?</li> <li>Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)?</li> <li>Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?</li> </ol>	l using HTTPS with med via Butterfly L Yes Yes ive Yes Yes N/A No	1 2 3 3
12-1 12-2 12-3 12-4 12-5 12-6	<ul> <li>1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li><b>PERSON AUTHENTICATION (PAUT)</b> Ability of the device to authenticate users</li> <li>Does the device support user/operator-specific username(s) and password(s) for at least one user?</li> <li>12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users?</li> <li>Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)?</li> <li>Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?</li> <li>Can default passwords be changed at/prior to installation?</li> <li>Are any shared user IDs used in this system?</li> <li>Can the device be configured to enforce creation of user account passwords that meet established complexited to a stablished comp</li></ul>	l using HTTPS with med via Butterfly L Yes Yes ive Yes Yes N/A No ity	ink 1 2
notes: <b>12</b> 12-1	<ul> <li>1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perfort software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li><b>PERSON AUTHENTICATION (PAUT)</b> Ability of the device to authenticate users Does the device support user/operator-specific username(s) and password(s) for at least one user? 12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users? Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)? Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts? Can default passwords be changed at/prior to installation? Are any shared user IDs used in this system? Can the device be configured to enforce creation of user account passwords that meet established complexi rules? Can the device be configured so that account passwords expire periodically? 1. Butterfly Network user accounts are managed by a designated Butterfly Cloud administrator. 2. SSO/SAML integration is available to enforce create user login and password requirements.</li></ul>	l using HTTPS with med via Butterfly L Yes Yes ive Yes Yes N/A No ity Yes	1 2 3 2 2
12-1 12-2 12-2 12-3 12-4 12-5 12-6 12-7 PAUT notes:	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed         1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perforr software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2). <b>PERSON AUTHENTICATION (PAUT)</b> Ability of the device to authenticate users         Does the device support user/operator-specific username(s) and password(s) for at least one user?         12-1.1       Does the device support unique user/operator-specific IDs and passwords for multiple users?         Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)?         Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?         Can default passwords be changed at/prior to installation?         Are any shared user IDs used in this system?         Can the device be configured to enforce creation of user account passwords that meet established complexi rules?         Can the device be configured to so that account passwords expire periodically?         1. Butterfly Network user accounts are managed by a designated Butterfly Cloud administrator.         2. SSO/SAML integration is available to enforce crepate user login and password requirements.         3. There are no default passwords.	l using HTTPS with med via Butterfly L Yes Yes ive Yes Yes N/A No ity Yes	1 2 3 2 2
2 2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-7 2-AUT notes:	<ul> <li>1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed 1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perfort software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).</li> <li><b>PERSON AUTHENTICATION (PAUT)</b> Ability of the device to authenticate users Does the device support user/operator-specific username(s) and password(s) for at least one user? 12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users? Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)? Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts? Can default passwords be changed at/prior to installation? Are any shared user IDs used in this system? Can the device be configured to enforce creation of user account passwords that meet established complexi rules? Can the device be configured so that account passwords expire periodically? 1. Butterfly Network user accounts are managed by a designated Butterfly Cloud administrator. 2. SSO/SAML integration is available to enforce create user login and password requirements.</li></ul>	l using HTTPS with med via Butterfly L Yes Yes ive Yes Yes N/A No ity Yes Yes	1 2 3 2 2 2
12-1 12-1 12-2 12-3 12-4 12-5 12-6 12-7 PAUT	1. Transmission of data between the Butterfly mobile app and Butterfly Cloud solution is performed     1.2 encryption. DICOM Store (PACS/VNA) and Modality Worklist (MWL) connections are perform     software using HTTPS with TLS 1.2 encryption or DICOM-TLS (TLS 1.2).  PERSON AUTHENTICATION (PAUT) Ability of the device to authenticate users Does the device support user/operator-specific username(s) and password(s) for at least one user?  12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users? Can the device be configured to authenticate users through an external authentication service (e.g., MS Acti Directory, NDS, LDAP, etc.)? Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts? Can the device be configured to enforce creation of user account passwords that meet established complexi rules? Can the device be configured so that account passwords expire periodically?     1. Butterfly Network user accounts are managed by a designated Butterfly Cloud administrator.     2. SSO/SAML integration is available to enforce corporate user login and password requirements.     3. There are no default passwords. PHYSICAL LOCKS (PLOK) Physical locks can prevent unauthorized users with physical access to the device from compromising the int	A using HTTPS with med via Butterfly L Yes Yes Yes Yes N/A No ity Yes Yes Yes	1 2 2 3 2 2 2

## HN 1-2013 Page 21

	Category	Manufacturer	Document ID	Document Release	Date	
Ultrasc		Butterfly Network, Inc.	950-20007-00 v04	June, 2020		
Device i <mark>Q</mark>	Model	Software Revision		Software Release D May, 2020	ate	
IQ	Refer to S	Section 2.3.2 of this standard for the proper ir	nterpretation of information requ		Yes, No, N/A, or	Note #
14	ROADMAP	FOR THIRD PARTY COMPONENTS IN DE			See Note	Z
		er's plans for security support of 3rd party cor		le.		
14-1 14-2	including ve	section, list the provided or required (separa rsion number(s). ther third party applications provided by the n		d) operating system(s) -	See Note Yes	1, 2
RDMP notes:	1. A 2. T	list of supported mobile devices can be four he Butterfly Cloud solution is compatible wi rosoft Edge.	nd at https://www.butterflynetv	-		l — nd
15		ND APPLICATION HARDENING (SAHD)				
		's resistance to cyber attacks and <b>malware</b> .				1
15-1	industry-rec	evice employ any hardening measures? Plea ognized hardening standards.		,	See Note	1
15-2		evice employ any mechanism (e.g., release-s date is the manufacturer-authorized program		etc.) to ensure the installed	Yes	2
15-3	Does the de	evice have external communication capability	/ (e.g., network, modem, etc.)?		Yes	3
15-4		e system allow the implementation of file-leve MS Windows platforms)?	el access controls (e.g., New Te	echnology File System	No	
15-5	Are all acco applications	unts which are not required for the <b>intended</b> ?	use of the device disabled or o	deleted, for both <b>users</b> and	Yes	4
15-6	Are all shar	ed resources (e.g., file shares) which are not	required for the intended use	of the <b>device</b> , disabled?	No	5
15-7	Are all com	munication ports which are not required for th	ne intended use of the device	closed/disabled?	Yes	
15-8		ces (e.g., telnet, file transfer protocol [FTP], i the <b>intended use</b> of the <b>device</b> deleted/disa		etc.), which are not	Yes	
15-9		cations (COTS applications as well as OS-in ired for the <b>intended use</b> of the <b>device</b> dele		ternet Explorer, etc.) which	No	5
15-10	component		-	-	No	
15-11	tools?	re or hardware not authorized by the <b>device</b> r			No	_
	2. S 3. C	utterfly Network follows ISO 27001 standar oftware and firmware updates are only availa ellular and WiFi are supported.	able through the Butterfly mob	ile app.		
SAHD	are i 5. T	here are no default accounts. Access to the E nanaged by a designated Butterfly Cloud ad he Butterfly mobile app allows the mobile d s and communcation protocols when in use.	ministrator for each organization evice to function normally, how	on.		
16		GUIDANCE (SGUD)				
		ility of security guidance for <b>operator</b> and ad		nanufacturer sales and servic	æ.	1
	,	r-related features documented for the device			Yes	
16-2		ions available for <b>device</b> /media sanitization ( or other sensitive data)?	i.e., instructions for how to achi	eve the permanent deletion	Yes	1
SGUD	app notes: in th uplo	ata is only cached securely within the Butter requires the device to have a lock mechanism the user being automatically logged out of the baded to the Butterfly Cloud. The user will b in re-enabled.	m enabled before the app can b Butterfly app, which will perr	e used. Removing the device nanently delete any iQ data	e lock will re that has not b	sult been
		© Copyright 2013 by the Nation the Healthcare Information	al Electrical Manufacturers n and Management System			

Device	Category	Manufacturer	Document ID	Document Releas	e Date	
Jltras	ound	Butterfly Network, Inc.	950-20007-00 v04	June, 2020		
Device	Model	Software Revision		Software Release	Date	
Q		1.19		May, 2020		
	Refer to Section 2.3	.2 of this standard for the proper inte	erpretation of information reque	sted in this form.	Yes, No, N/A, or See Note	Note #
7		AGE CONFIDENTIALITY (STCF) ce to ensure unauthorized access do ble media.	oes not compromise the integrit	y and confidentiality of <b>p</b>	<b>rivate data</b> sto	ored
7-1	Can the <b>device</b> encry	ot data at rest?			Yes	1
STCF	1. Data cached	within the Butterfly mobile app is	encrypted with AES 256-bit.		I	I
18	TRANSMISSION CON	IFIDENTIALITY (TXCF)				
	The ability of the <b>devi</b>	<b>ce</b> to ensure the confidentiality of tra	ansmitted <b>private data</b> .			
18-1	Can <b>private data</b> be t	ransmitted only via a point-to-point o	dedicated cable?		No	_
18-2	•	ted prior to transmission via a netwo	ork or <b>removable media</b> ? (If ye	s, indicate in the notes	V	
	which encryption stand	dard is implemented.)			Yes	1, 1
18-3 TXCF	Is <b>private data</b> transm 1. Transmissio 1.2 encryption	n of data between Butterfly mobile . Telemedicine Only: Data streams	app and the Butterfly Cloud sc are encrypted using Datagram	-	Yes g HTTPS with	2 n TLS
TXCF notes:	Is <b>private data</b> transm 1. Transmissio 1.2 encryption streams are en- 2. DICOM Sto HTTPS with T	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra ore (PACS/VNA) and Modality Wo LS 1.2 encryption or DICOM-TLS	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p	Transport Layer Security	Yes g HTTPS with (DTLS) and t	2 n TLS media
18-3 TXCF notes: 19	Is private data transm 1. Transmissio 1.2 encryption streams are en- 2. DICOM Sto HTTPS with T TRANSMISSION INTE	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra ore (PACS/VNA) and Modality Wo LS 1.2 encryption or DICOM-TLS EGRITY (TXIG)	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p 6 (TLS 1.2).	Transport Layer Security	Yes g HTTPS with (DTLS) and t	2 n TLS media
TXCF notes:	Is private data transm 1. Transmissio 1.2 encryption streams are enc 2. DICOM Sto HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra ore (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensure	app and the Butterfly Cloud sc are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p 5 (TLS 1.2).	Transport Layer Security performed via Butterfly I	Yes g HTTPS with 7 (DTLS) and Link software	2 n TLS media
TXCF notes: 19	Is private data transm 1. Transmission 1.2 encryption streams are en- 2. DICOM Stor HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes starts	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra- ore (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.)	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p (TLS 1.2). tted <b>private data</b> . ure data is not modified during t	Transport Layer Security performed via Butterfly I ransmission? (If yes,	Yes g HTTPS with (DTLS) and the Link software	n TLS media using
TXCF notes: <b>19</b>	Is private data transm 1. Transmission 1.2 encryption streams are en- 2. DICOM Stor HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes starts	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra ore (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.) on of data between Butterfly mobile	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p (TLS 1.2). tted <b>private data</b> . ure data is not modified during t	Transport Layer Security performed via Butterfly I ransmission? (If yes,	Yes g HTTPS with (DTLS) and the Link software	2 media using
FXCF notes: 19 19-1 FXIG notes:	Is private data transm 1. Transmission 1.2 encryption streams are enc. 2. DICOM Sto HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes s 1. Transmission 1.2 encryption OTHER SECURITY C	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra- bre (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.) on of data between Butterfly mobile ONSIDERATIONS (OTHR)	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p (TLS 1.2). tted <b>private data</b> . ure data is not modified during t app and the Butterfly Cloud so	Transport Layer Security performed via Butterfly I ransmission? (If yes,	Yes g HTTPS with (DTLS) and the Link software	2 media using
TXCF notes: 19 19-1 TXIG notes: 20	Is private data transm 1. Transmissio 1.2 encryption streams are enc 2. DICOM Sto HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes s 1. Transmissio 1.2 encryption OTHER SECURITY C Additional security co	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra ore (PACS/VNA) and Modality Wo CLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.) on of data between Butterfly mobile ONSIDERATIONS (OTHR) nsiderations/notes regarding medic	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p (TLS 1.2). tted <b>private data</b> . ure data is not modified during t app and the Butterfly Cloud so	Transport Layer Security performed via Butterfly I ransmission? (If yes,	Yes g HTTPS with (DTLS) and the Link software	2 n TLS media using
TXCF notes: 19 19-1 TXIG notes: 20	Is private data transm 1. Transmissio 1.2 encryption streams are en- 2. DICOM Sto HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes s 1. Transmissio 1.2 encryption OTHER SECURITY C Additional security co Can the device be set	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra- ore (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.) on of data between Butterfly mobile ONSIDERATIONS (OTHR) nsiderations/notes regarding medic rviced remotely?	app and the Butterfly Cloud sc are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p 5 (TLS 1.2). tted <b>private data</b> . ure data is not modified during t app and the Butterfly Cloud sc <b>ral device</b> security.	Transport Layer Security performed via Butterfly I ransmission? (If yes, plution is performed usin	Yes g HTTPS with (DTLS) and the Link software	2 n TLS media using
TXCF notes: 19 19-1 TXIG notes: 20	Is private data transm 1. Transmissio 1.2 encryption streams are en- 2. DICOM Sto HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes s 1. Transmissio 1.2 encryption OTHER SECURITY C Additional security co Can the device be set Can the device restric addresses)?	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra- ore (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.) on of data between Butterfly mobile ONSIDERATIONS (OTHR) nsiderations/notes regarding medic viced remotely?	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p 6 (TLS 1.2). tted <b>private data</b> . ure data is not modified during t app and the Butterfly Cloud so ral device security.	Transport Layer Security performed via Butterfly I ransmission? (If yes, plution is performed usin tions (e.g., specific IP	Yes g HTTPS with (DTLS) and f Link software g HTTPS with No N/A	2 n TLS media using
TXCF notes: 9 9-1 TXIG notes: 20-1	Is private data transm 1. Transmissio 1.2 encryption streams are en- 2. DICOM Sto HTTPS with T TRANSMISSION INTE The ability of the device Does the device supp describe in the notes s 1. Transmissio 1.2 encryption OTHER SECURITY C Additional security co Can the device be set Can the device restric addresses)?	nission restricted to a fixed list of net on of data between Butterfly mobile . Telemedicine Only: Data streams crypted using Secure Real-time Tra- ore (PACS/VNA) and Modality Wo TLS 1.2 encryption or DICOM-TLS EGRITY (TXIG) Ce to ensure the integrity of transmit ort any mechanism intended to ensu- section how this is achieved.) on of data between Butterfly mobile ONSIDERATIONS (OTHR) nsiderations/notes regarding medic rviced remotely?	app and the Butterfly Cloud so are encrypted using Datagram ' insport Protocol (SRTP). orklist (MWL) connections are p 6 (TLS 1.2). tted <b>private data</b> . ure data is not modified during t app and the Butterfly Cloud so ral device security.	Transport Layer Security performed via Butterfly I ransmission? (If yes, plution is performed usin tions (e.g., specific IP	Yes g HTTPS with (DTLS) and the Link software Yes g HTTPS with No	2 n TLS media using