	Manufacturer Disclosure Statement for Medical Device Security – MDS ²				
	DEVICE DESCRIPTION				
Device Categ		Date			
16512Carestream Health, Inc.AF876711-Nov-19					
Device Model Software Revision Software Release		Date			
DRX Revolut	DRX Revolution ImageView and 1.4 and later Nov-19				
DRX Transpo	rtable ImageView				
Manufacturer	Company Name Manufacturer Contact Information				
	Representative Carestream Health, Inc. Telephone #: 1-800-328-2910				
Contact	Representative Name/Position e-mail:health.imaging.tsc@carestreamhealth.com				
Information	Technical Support				
Intended use	of device in network-connected environment:				
	MANAGEMENT OF PRIVATE DATA				
Refe	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 #		
	s device display, transmit, or maintain private data (including electronic Protected Health Information				
[ePHI]		Yes			
	of private data elements that can be maintained by the device :				
B.1	Demographic (e.g., name, address, location, unique identification number)?	Yes			
B.2	Medical record (e.g., medical record #, account #, test or treatment date, device identification number)?	37			
B.3	Diagnostic/therapeutic (e.g., photo/radiograph, test results, or physiologic data with identifying	Yes			
D.3	characteristics)?	Yes			
B.4	Open, unstructured text entered by device user/operator ?	Yes			
B.5	Biometric data?	No			
B.6 Personal financial information?					
C Mainta	ining private data - Can the device :				
C.1	Maintain private data temporarily in volatile memory (i.e., until cleared by power-off or reset)?	Yes			
C.2	Store private data persistently on local media?	Yes			
C.3	Import/export private data with other systems?	Yes	—		
C.4	Maintain private data during power service interruptions?	Yes	—		
	nisms used for the transmitting, importing/exporting of private data – Can the device :	Yes			
D.1 D.2	Display private data (e.g., video display, etc.)? Generate hardcopy reports or images containing private data ?	No			
D.2 D.3	Retrieve private data from or record private data to removable media (e.g., disk, DVD, CD-ROM, tape,	NO	_		
D.3	CF/SD card, memory stick, etc.)?	Yes			
D.4	Transmit/receive or import/export private data via dedicated cable connection (e.g., IEEE 1073, serial	1.00			
	port, USB, FireWire, etc.)?	No			
D.5	Transmit/receive private data via a wired network connection (e.g., LAN, WAN, VPN, intranet, Internet, etc.)?	Yes			
D.6	Transmit/receive private data via an integrated wireless network connection (e.g., WiFi, Bluetooth,				
	infrared, etc.)?	Yes			
D.7	Import private data via scanning?	No	_		
D.8	Other?	No	_		
Management Private Data r					

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DRX Revolution ImageView and		Manufacturer Carestream Health, Inc.	Document Release 43780	cument Release Date		
		Software Revision 1.4 and later	AF8767	Software Release D 43784	ate	
JRX	Fransportable ImageView	SECURIT	Y CAPABILITIES			
	Refer to Section 2.3.2 of th	is standard for the proper inte		equested in this form.	Yes, No, N/A, or See Note	# 0+01
	AUTOMATIC LOGOFF (ALC	•				
				s left idle for a period of time.		
-1	inactivity (e.g., auto-logoff, s	ed to force reauthorization of lession lock, password protect	ted screen saver)?	-	Yes	_
	time [fixed or configu	vity time before auto-logoff/sc rable range] in notes.)			Yes	
LOF	1-1.2 Can auto-logoff/screen lock be manually invoked (e.g., via a shortcut key or proximity sensor, etc.) by the user?					
otes:						
-	AUDIT CONTROLS (AUDT)					
	The ability to reliably audit a					
-1	Can the medical device create an audit trail ?					-
-2		ng events are recorded in the	audit log:			
	2-2.1 Login/logout				Yes	
	2-2.2 Display/presentation				Yes	
	2-2.3 Creation/modification	/deletion of data			Yes	
	2-2.4 Import/export of data	from removable media			Yes	
	2-2.5 Receipt/transmission	of data from/to external (e.g.	, network) connection		Yes	
	2-2.5.1 Remote servic	e activity			Yes	
	2-2.6 Other events? (descr	ibe in the notes section)			Yes	
2-3	Indicate what information is	used to identify individual eve	nts recorded in the audit lo	g:		
	2-3.1 User ID				Yes	
	2-3.2 Date/time				Yes	
UDT	1) Standard Window	s audit log events				
notes: B	AUTHORIZATION (AUTH)					
	• •	etermine the authorization of	users.			
8-1	Can the device prevent acce	ess to unauthorized users thr	ough user login requireme	nts or other mechanism?	Yes	
8-2	Can users be assigned diffe power users , administrators		application based on 'roles	s' (e.g., guests, regular users ,	Yes	
8-3	application via local root or a	-			Yes	
AUTH notes:	Account with Admin		tain actions such as changi	Administrator) users can use a ng Computer Name, IP Addre ity Log directories.		۲hi

Device	Category	Manufacturer	Document ID	Document Release	Date	
16512		Carestream Health, Inc.	AF8767	43780		
Device	Model Software Revision Software Release			Software Release D	Date	
DRX I	Revolution ImageView and	1.4 and later		43784		
DRX	Fransportable ImageView			I		
	Refer to Section 2.3.2 of th	nis standard for the proper int	erpretation of information	n requested in this form	Yes, No, N/A, or	Note #
					See Note	Ň
4	CONFIGURATION OF SEC The ability to configure/re-co	URITY FEATURES (CNFS) onfigure device security cap	abilities to meet users'	needs.		
4-1	Can the device owner/operation	ator reconfigure product secu	rity capabilities?		Yes	
CNFS notes:					105	
5	CYBER SECURITY PRODU	JCT UPGRADES (CSUP)				
	The ability of on-site service	staff, remote service staff, o	r authorized customer st	aff to install/upgrade device 's sec	urity patches	3.
5-1	Can relevant OS and device	e security patches be applied	to the device as they be	ecome available?	Yes	3
	5-1.1 Can security patches	or other software be installe	d remotely?		Yes	
CSUP	3) Third party / Ope	rating System security patche	es are first verified by Ca	arestream and then recommended	for installati	ion.
notes:						
6	HEALTH DATA DE-IDENTI	FICATION (DIDT)				
		directly remove information th	nat allows identification o	f a person.		
6-1	Does the device provide an	integral capability to de-ident	tify private data?		Yes	
DIDT						
notes:						
<i>'</i>	DATA BACKUP AND DISAS	. ,	i ne data hardwara ar as	stwara		
	-	amage or destruction of devi				
7-1	Does the device have an in such as tape, disk)?	tegral data backup capability	(i.e., backup to remote s	storage or removable media	Yes	4
DTBK	· · ·			n data via removable media. The s	-	
notes:	provide a mechanism forwarded to the PA		data. The systems are in	ntended to be capture devices only	y and images	; are
8	EMERGENCY ACCESS (EI	MRG)				
	The ability of device users private data.	to access private data in cas	se of an emergency situa	ation that requires immediate acce	ess to stored	
8-1	Does the device incorporate	e an emergency access ("bro	eak-glass") feature?		Yes	5
EMRG notes:		the option of creating an em rding the password such that		ount. This is accomplished by cre gency situations.	eating a user	
9	HEALTH DATA INTEGRITY	AND AUTHENTICITY (IGAL	J)			
	How the device ensures the from the originator.	It data processed by the dev i	i ce has not been altered	or destroyed in an unauthorized r	nanner and is	s
9-1	Does the device ensure the	integrity of stored data with i	mplicit or explicit error de	etection/correction technology?	Vaa	
IGAU					Yes	
notes:						

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Device Model Software Revision Software Revision DRX Revolution ImageView and 1.4 and later 43 DRX Transportable ImageView 43 Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in the transportable ImageView 43 10 MALWARE DETECTION/PROTECTION (MLDP) 14 The ability of the device to effectively prevent, detect and remove malicious software (malware). 14	780 oftware Release Date 784 vis form. Yes, No, N/A, or See Note Yes N/A N/A	ote
DRX Revolution ImageView and DRX Transportable ImageView 1.4 and later 43 Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in the transportability of the device to effectively prevent, detect and remove malicious software (malware). 43	784 is form. N/A, or See Note Yes N/A	Note
DRX Revolution ImageView and DRX Transportable ImageView 1.4 and later 43 Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in the transportability of the device to effectively prevent, detect and remove malicious software (malware). 43	784 is form. N/A, or See Note Yes N/A	Note
DRX Transportable ImageView Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in the transportable ImageView 10 MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware).	is form. N/A, or See Note Yes N/A	Note
 MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware). 	is form. N/A, or See Note Yes N/A	Note
 MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware). 	See Note Yes N/A	_
The ability of the device to effectively prevent, detect and remove malicious software (malware).	Yes N/A	_
The ability of the device to effectively prevent, detect and remove malicious software (malware).	N/A	<u> </u>
10.1 Does the device support the use of anti-malware software (or other anti-malware machanism)?	N/A	6
10-1 Does the device support the use of anti-malware software (or other anti-malware mechanism)?		6
10-1.1 Can the user independently re-configure anti-malware settings?	N/A	
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 detec	105	
10-2 Can the device owner install or update anti-virus software ?	No	6
10-3 Can the device owner/operator (technically/physically) update virus definitions on manufacturer-in	nstalled anti- No	6
virus software?		
MLDP notes: 6) Carestream ImageView systems come pre-installed with Symantec Critical System Pro (SESCSP) which is a Intrusion Detection and Prevention System. It white-lists application does not provide user notifications.	-	
11 NODE AUTHENTICATION (NAUT)		
The ability of the device to authenticate communication partners/nodes.		
11-1 Does the device provide/support any means of node authentication that assures both the sender recipient of data are known to each other and are authorized to receive transferred information?	and the No	
NAUT	INO	
notes:		
12 PERSON AUTHENTICATION (PAUT)		
Ability of the device to authenticate users		
12-1 Does the device support user/operator -specific username(s) and password(s) for at least one us	ser? Yes	_
12-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple us	ers? Yes	
12-2 Can the device be configured to authenticate users through an external authentication service (e Directory, NDS, LDAP, etc.)?	.g., MS Active	
12-3 Can the device be configured to lock out a user after a certain number of unsuccessful logon atte	empts?	
	Yes	
12-4 Can default passwords be changed at/prior to installation?	Yes	
12-5 Are any shared user IDs used in this system?	See Note	e 7
12-6 Can the device be configured to enforce creation of user account passwords that meet establisher rules?	ed complexity Yes	
12-7 Can the device be configured so that account passwords expire periodically?	Yes	
7) The Windows OS comes with a shared user account for Carestream service that requir		
notes: authentication (password plus certificate). All other users have unique accounts. The cert Field Engineer. Further, the password can be controlled and set by customer.	-	ach
13 PHYSICAL LOCKS (PLOK)		
Physical locks can prevent unauthorized users with physical access to the device from comprom confidentiality of private data stored on the device or on removable media .	ising the integrity and	
13-1 Are all device components maintaining private data (other than removable media) physically se cannot remove without tools)?	cure (i.e., Yes	8
PLOK 8) Tools are required to gain access to the PC. notes:		

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16512		Carestream Health, Inc.	AF8767	43780		
Device Model		Software Revision		Software Release D	ate	
	Revolution ImageView and	1.4 and later		43784		
DRX '	Transportable ImageView				Yes, No,	-41
		is standard for the proper inte	•	quested in this form.	N/A, or See Note	Note #
14		RTY COMPONENTS IN DEV ourity support of 3rd party com		ycle.		
14-1	In the notes section, list the including version number(s)	provided or required (separate	ely purchased and/or deliver	red) operating system(s) -	See Note	9
14-2	Is a list of other third party a	pplications provided by the ma	anufacturer available?		Yes	
RDMP notes:	9) Windows 10 IoT	Enterprise 2016 LTSB - Prov	ided			
15	SYSTEM AND APPLICATIO	ON HARDENING (SAHD)				
	The device's resistance to c	yber attacks and malware .				
15-1	Does the device employ any industry-recognized hardeni	y hardening measures? Pleas ng standards.	se indicate in the notes the I	evel of conformance to any	Yes	10
15-2		y mechanism (e.g., release-sp he manufacturer-authorized p			Yes	
15-3	Does the device have external communication capability (e.g., network, modem, etc.)?				Yes	
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)?				Yes	
15-5	and applications?	ot required for the intended u			Yes	
15-6	Are all shared resources (e.g., file shares) which are not required for the intended use of the device , disabled? Are all communication ports which are not required for the intended use of the device closed/disabled?				Yes	
15-7	Are all communication ports	which are not required for the	e intended use of the devic	e closed/disabled?	Yes	
15-8		file transfer protocol [FTP], in se of the device deleted/disab		S], etc.), which are not	Yes	
15-9	which are not required for th	applications as well as OS-inc e intended use of the device	deleted/disabled?	. ,	Yes	
	component)?	ncontrolled or removable me			Yes	11
15-11	Can software or hardware no tools?	ot authorized by the device m	anufacturer be installed on	the device without the use of	No	
	notes: 10) STIG Compliand 11) System can boot		s Field Engineer to configu	re BIOS which is password p	rotected.	
16	SECURITY GUIDANCE (SO	•				
	The availability of security g	uidance for operator and adm	ninistrator of the system and	I manufacturer sales and servi	ice.	
16-1		documented for the device u			Yes	
16-2	Are instructions available for deletion of personal or other	device /media sanitization (i. sensitive data)?	e., instructions for how to ac	chieve the permanent	Yes	
SGUD	notes:					
2000	10000.					

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Device	e Model Software Revision Software Relea		Software Release D	ate		
DRX	Revolution ImageView and	1.4 and later		43784		
DRX '	Transportable ImageView					
	Refer to Section 2.3.2 of th	nis standard for the proper inte	erpretation of information r	requested in this form.	Yes, No, N/A, or See Note	Note #
17	HEALTH DATA STORAGE	· · ·				
	The ability of the device to e on device or removable me		loes not compromise the i	ntegrity and confidentiality of pr	ivate data st	ored
17-1	Can the device encrypt data	a at rest?			Yes	12
STCF notes:		al self-encrypting hard drive				
18	TRANSMISSION CONFIDE	NTIALITY (TXCF)				
	The ability of the device to e	ensure the confidentiality of tra	ansmitted private data .			
18-1	Can private data be transmitted only via a point-to-point dedicated cable?				Yes	
18-2						
18-3	which encryption standard is implemented.) 18-3 Is private data transmission restricted to a fixed list of network destinations?				No Yes	
					res	
TXCF notes:						
19	TRANSMISSION INTEGRIT	Y (TXIG)				
	The ability of the device to e	ensure the integrity of transmi	tted private data.			
19-1	Does the device support any describe in the notes section	y mechanism intended to ens n how this is achieved.)	ure data is not modified d	uring transmission? (If yes,	No	
TXIG notes:						
20	OTHER SECURITY CONSIL	. ,				
	Additional security consider	ations/notes regarding medic	cal device security.			
20-1	Can the device be serviced	remotely?			Yes	
20-2	Can the device restrict remo addresses)?	ote access to/from specified d	levices or users or networ	k locations (e.g., specific IP	Yes	_
	20-2.1 Can the device be co	onfigured to require the local	user to accept or initiate re	emote access?	Yes	
OTHR notes:						