		Manufac	turer Disclosure Staten	nent for Medical Dev	ice Security – MDS ²		
			DEVICE	EDESCRIPTION			
Devi	ce Cate	gory	Manufacturer	Document ID	Document Release	Date	
1651	2		Carestream Health, Inc.	AF8767	31-Oct-18		
Devi	ce Mode		Software Revision		Software Release I	Date	
DRX	Revolu	ution ImageView	1.2 and later		Nov-18		
Man	ufacture	Company Nan	ne	Manufacturer Contact	Information		
	esentati	"Corostroom U	ealth, Inc.	Telephone #: 1-800-3	28-2910		
Cont			tative Name/Position e-mail:health.imaging.tsc@carestreamhealth.com				
nfor	mation	Technical Sup					
nter	nded us	e of device in network	k-connected environment:	•			
_			MANAGEMEN	IT OF PRIVATE DAT			-
			MANAGEMEN	NT OF PRIVATE DATA	Α	Var. Na	
	Refe	er to Section 2 3 2 of t	this standard for the proper into	ernretation of information re	guested in this form	Yes, No, N/A, or	# te
	TON	C1 to Ocollo11 2.0.2 01 1	and standard for the proper mit	orprotation or information to	quostou in triio form.	See Note	Note
4			ansmit, or maintain private dat	ta (including electronic Pro	tected Health Information		
	[ePHI	l])?				Yes	_
3	Types	s of private data elem	nents that can be maintained b	y 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)?						
						Yes	
	B.3		itic (e.g., photo/radiograph, tes	t results, or physiologic data	a with identifying		
	D 4	characteristics)?	tout autoual bu davida a manda	ta=0		Yes	
	B.4 B.5	Biometric data?	text entered by device user/o	perator?		Yes	_
	В.6	Personal financial in	nformation?			No No	
2		taining private data -				NO	
	C.1	٠.	ta temporarily in volatile memo	orv (i.e., until cleared by pov	ver-off or reset)?	Yes	
	C.2	•	persistently on local media?	, , , , , , , , , , , , , , , , , , , ,	,	Yes	
	C.3		te data with other systems?			Yes	
	C.4		ta during power service interru	ptions?		Yes	
O	Mech	anisms used for the ti	ansmitting, importing/exporting	g of private data - Can the	device:		
	D.1	Display private data	(e.g., video display, etc.)?			Yes	
	D.2		reports or images containing p			Yes	
	D.3	Retrieve private da CF/SD card, memor	ta from or record private data ry stick, etc.)?	to removable media (e.g.,	disk, DVD, CD-ROM, tape,	Yes	
	D.4	Transmit/receive or	import/export private data via	dedicated cable connection	n (e.g., IEEE 1073, serial		
		port, USB, FireWire	, etc.)?			Yes	_
	D.5	•	ivate data via a wired network	connection (e.g., LAN, WA	N, VPN, intranet, Internet,		
		etc.)?				Yes	
	D.6	•	ivate data via an integrated wi	reless network connection (e.g., WiFi, Bluetooth,	••	
	_	infrared, etc.)?				Yes	
	D.7	Import private data	via scanning?			No	
		0.1 0					
	D.8	Other?				No	

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	Category	Manufacturer	Document ID	Document Release Date		
16512	. 	Carestream Health, Inc.	AF8767	43404		
	Model	Software Revision		Software Release D	ate	
DRX I	Revolution ImageView	1.2 and later		43405		
		SECURIT	TY CAPABILITIES			
	Refer to Section 2.3.2 of	this standard for the proper inte	erpretation of information re	equested in this form.	Yes, No, N/A, or See Note	Note #
	AUTOMATIC LOGOFF (A		and a sign of a second of decidents	a late falls for a marked of the s		
	• •	vent access and misuse by una		•		
1-1	inactivity (e.g., auto-logoff	red to force reauthorization of I , session lock, password protec	ted screen saver)?	_	Yes	
		ctivity time before auto-logoff/so gurable range] in notes.)	creen lock user or administ	rator configurable? (Indicate	Yes	1
	-	reen lock be manually invoked (e.g., via a shortcut key or p	proximity sensor, etc.) by the	Yes	_
ALOF	1) Using Carestrea	m authentication the available	auto-logoff times are: 5, 10	0, 15, 30, 60 minutes or Never.		
notes:						
2	AUDIT CONTROLS (AUD	T)				—
	The ability to reliably audit					
2-1	Can the medical device of	reate an audit trail?			Yes	
2-2	Indicate which of the follow	ving events are recorded in the	audit log:			
	2-2.1 Login/logout				Yes	
	2-2.2 Display/presentation	on of data			Yes	
	2-2.3 Creation/modificati	on/deletion of data			Yes	
	2-2.4 Import/export of da	ta from removable media			Yes	
	2-2.5 Receipt/transmissi	on of data from/to external (e.g.	, network) connection		Yes	
	2-2.5.1 Remote serv	vice activity			Yes	
	2-2.6 Other events? (des	scribe in the notes section)			Yes	2
2-3	Indicate what information	s used to identify individual eve	ents recorded in the audit lo	g:		
	2-3.1 User ID					
	2-3.2 Date/time					
	2) Startup, Shutdo	wn & User Configuration chan	ges			
AUDT						
notes:						
3	AUTHORIZATION (AUTH) determine the authorization of	lieare			
3-1	•	ccess to unauthorized users thr		nts or other mechanism?	Voc	
3-2	Can users be assigned di power users , administrato	fferent privilege levels within an	application based on 'roles	s' (e.g., guests, regular users ,	Yes Yes	_
3-3		erator obtain unrestricted admir	nistrative privileges (e.g., ad	ccess operating system or	Yes	3
AUTH notes:	3) Technologist users do not have Administrator rights. Key Operator (Site Administrator) users can use Account with Administrator rights to perform certain actions such as changing Computer Name, IP Addr Administrator account does not have direct access to Patient Image or Security Log directories.					Γhis

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Device	Category	Manufacturer	Document ID	Document Release	Date		
16512		Carestream Health, Inc.	AF8767	43404			
Device	Model — — — — —	Software Revision		Software Release D			
	Revolution ImageView	1.2 and later		43405			
Г		f this standard for the proper into	erpretation of informatio	· ·	Yes, No, N/A, or See Note	Note #	
4	CONFIGURATION OF S	ECURITY FEATURES (CNFS)					
	The ability to configure/re	-configure device security capa	abilities to meet users'	needs.			
4-1	Can the device owner/op	erator reconfigure product secu	rity capabilities?		Yes		
CNFS notes:							
5	CYBER SECURITY PRO	DUCT UPGRADES (CSUP)					
	The ability of on-site serv	ice staff, remote service staff, or	authorized customer st	taff to install/upgrade device 's sec	urity patches	i.	
5-1	Can relevant OS and dev	rice security patches be applied	to the device as they b	ecome available?	Yes	4	
	5-1.1 Can security patch	nes or other software be installed	d remotely?		Yes		
CSUP notes:		perating System security patche then provided with the updates		arestream and then recommended	for installati	ion.	
6	HEALTH DATA DE-IDEN	TIFICATION (DIDT)					
	The ability of the device	o directly remove information th	at allows identification of	of a person.			
6-1	Does the device provide	an integral capability to de-ident	ify private data?		Yes		
DIDT notes:							
7	DATA BACKUP AND DIS	SASTER RECOVERY (DTBK)				$\overline{}$	
	The ability to recover after	r damage or destruction of devi	ce data, hardware, or so	oftware.			
7-1	Does the device have an such as tape, disk)?	integral data backup capability	(i.e., backup to remote s	storage or removable media	Yes	5	
DTBK notes:	· · · · · · · · · · · · · · · · · · ·	ism to backup exam and image		n data via removable media. The s ntended to be capture devices only	•		
8	EMERGENCY ACCESS	(EMRG)					
	The ability of device use private data.	rs to access private data in cas	e of an emergency situa	ation that requires immediate acce	ess to stored		
8-1	Does the device incorpor	rate an emergency access ("bre	eak-glass") feature?		Yes	6	
EMRG notes:		as the option of creating an emuarding the password such that		count. This is accomplished by created gency situations.	eating a user		
9	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)						
	How the device ensures from the originator.	that data processed by the devi	ce has not been altered	l or destroyed in an unauthorized r	nanner and is	S	
9-1	Does the device ensure	he integrity of stored data with in	mplicit or explicit error d	letection/correction technology?	Yes	_	
IGAU notes:							

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16512		Carestream Health, Inc.	AF8767	43404		
Device	Model	Software Revision		Software Release D	Date	
DRX I	Revolution ImageView	1.2 and later		43405		
-		<u> </u>			Yes, No,	#
	Refer to Section 2.3.2 of	this standard for the proper inte	erpretation of information re	equested in this form.	N/A, or	Note #
10	MALWARE DETECTION/	DOTECTION (MLDD)			See Note	Z
'0	MALWARE DETECTION/F	effectively prevent, detect and	remove malicious software	e (malware)		
40.4	•			,	V	
		ne use of anti-malware softwar		mechanism)?	Yes N/A	7
		endently re-configure anti-malv malware detection occur in the	•		N/A	,
		urer-authorized persons repair s		is been detected?	1,112	
	To the Gall only managed	aron additionized percente repair e	yotomo mon mamaro na	io boon dolociod.	Yes	
10-2	Can the device owner insta	all or update anti-virus softwar	e?		No	7
10-3		rator (technically/physically) up		anufacturer-installed anti-		
	virus software?				No	7
	-	geView systems come pre-insta			•	
MLDP		s a Intrusion Detection and Pre-	vention System. It white-li	ists applications and does not	require upda	tes. It
notes:	does not provide us	ser notifications.				
11	NODE AUTHENTICATION	` '				
	The ability of the device to	authenticate communication pa	artners/nodes.			
11-1		upport any means of node auth				
	recipient of data are known	to each other and are authoriz	ed to receive transferred in	nformation?	No	
<u> </u>						
NAUT notes:						
12	PERSON AUTHENTICATI					
	Ability of the device to auti	nenticate users				
12-1	Does the device support u	ser/operator-specific usernam	e(s) and password(s) for a	t least one user ?		
					Yes	
1	2-1.1 Does the device su	pport unique user/operator-spe	ecific IDs and passwords for	or multiple users?	N/	
40.0	One the dealer has a few	and to mother Control	ale and and annual and beautiful a	tana and an in a MO Antina	Yes	
12-2	Directory, NDS, LDAP, etc	red to authenticate users throu	gh an external authenticati	ion service (e.g., MS Active	No	
12-3	•	.): red to lock out a user after a ce	ertain number of unsuccess	sful logon attempts?	110	
120	Can the actioe be coming	rea to look out a aber after a oc	ortain number of unoucces.	orar rogori attorripto.	No	8
12-4	Can default passwords be	changed at/prior to installation?)		Yes	
12-5	Are any shared user IDs u	- · · · · · · · · · · · · · · · · · · ·			See Note	8
12-6	Can the device be configu	red to enforce creation of user	account passwords that m	eet established complexity		
	rules?				Yes	8
12-7	Can the device be configu	red so that account passwords	expire periodically?		Yes	
	8) The Carestream	application supports user authe	entication with individual	user accounts that meet compl	exity rules. 7	Γhe
PAUT	Windows OS come	es with a shared user account for	or technologists, that has to	be activated by the site Secur	rity Admin b	efore
notes:	use. Separate accou	ints when administrator rights a	are required.			
13	PHYSICAL LOCKS (PLO	()				
		unauthorized users with physic	cal access to the device fr	om compromising the integrity	and	
	confidentiality of private da	ata stored on the device or on I	removable media.			

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13-1 Are all device components maintaining private data (other than removable media) physically secure (i.e., cannot remove without tools)?

Yes

PLOK notes:

9) Tools are required to gain access to the PC.

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Device	e Category	Manufacturer	Document ID	Document Release	Date	
16512		Carestream Health, Inc.	AF8767	43404		
	e Model	Software Revision		Software Release D	ate	
DRX	Revolution ImageView	1.2 and later		4 3405		
	Refer to Section 2.3.2 of t	his standard for the proper in	nterpretation of information	requested in this form.	Yes, No, N/A, or See Note	Note #
14		ARTY COMPONENTS IN DE	•	•		
	•	curity support of 3rd party co	•	•		
14-1	including version number(s		,	vered) operating system(s) -	See Note	10
14-2	, ,	applications provided by the	manufacturer available?		Yes	
RDMP	10) Windows 10 Er	terprise - Provided				
notes:						
15	SYSTEM AND APPLICATION	ON HARDENING (SAHD)				
	The device 's resistance to	cyber attacks and malware.				
15-1	Does the device employ ar industry-recognized harden	•	ease indicate in the notes th	e level of conformance to any	No	
15-2		ny mechanism (e.g., release- the manufacturer-authorized	•	·	No	
15-3	Does the device have exte	rnal communication capabilit	ty (e.g., network, modem, et	tc.)?	Yes	
15-4	(NTFS) for MS Windows pla	,			Yes	_
15-5	and applications?	not required for the intended		·	Yes	
15-6	Are all shared resources (e	.g., file shares) which are no	t required for the intended	use of the device, disabled?	Yes	
15-7	Are all communication ports	s which are not required for t	he intended use of the dev	vice closed/disabled?	Yes	
15-8	` •	, file transfer protocol [FTP], se of the device deleted/dis		[IIS], etc.), which are not	Yes	
15-9	which are not required for the	applications as well as OS-ing intended use of the devi	ce deleted/disabled?	• ,	Yes	_
	component)?			an an internal drive or memory	Yes	11
15-11	Can software or hardware r tools?	not authorized by the device	manufacturer be installed o	on the device without the use of	No	_
SAHD	notes:	t from DVD or USB - requi	res Field Engineer to confi	gure BIOS which is password pr	rotected	
	11) System can 600	t from D v D of CSD - requi	res ricid Engineer to config	guic B105 which is password pr	lotected.	
16	SECURITY GUIDANCE (So The availability of security g	•	dministrator of the system a	nd manufacturer sales and servi	ce.	
16-1	Are security-related feature	s documented for the device	e user?		Yes	
16-2	Are instructions available for deletion of personal or other	or device /media sanitization r sensitive data)?	(i.e., instructions for how to	achieve the permanent	Yes	_
SGUD	notes:					

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Device	e Category	Manufacturer	Document ID	Document Release	Date	
16512		Carestream Health, Inc.	AF8767	43404		
	e Model	Software Revision		Software Release I	Date	
DRX 1	Revolution ImageView	1.2 and later		43405		
	Refer to Section 2.3.2 of	this standard for the proper inte	erpretation of information re	quested in this form.	Yes, No, N/A, or See Note	Note #
17		E CONFIDENTIALITY (STCF)		and and and and and		
	on device or removable r	o ensure unauthorized access d media.	oes not compromise the int	legrity and confidentiality of p i	ivate data st	orea
17-1	Can the device encrypt da	ata at rest?			Yes	
STCF notes:						
18	TRANSMISSION CONFID	DENTIALITY (TXCF)				
	The ability of the device to	o ensure the confidentiality of tra	ansmitted private data .			
18-1	Can private data be trans	smitted only via a point-to-point of	dedicated cable?		Yes	
18-2	Is private data encrypted which encryption standard	prior to transmission via a netwo	ork or removable media ? ((If yes, indicate in the notes	No	
18-3	Is private data transmissi	on restricted to a fixed list of net	twork destinations?		Yes	
TXCF notes:						
19	TRANSMISSION INTEGR	` ,				
	The ability of the device to	o ensure the integrity of transmit	tted private data .			
19-1	Does the device support a describe in the notes section	any mechanism intended to ension how this is achieved.)	ure data is not modified dur	ring transmission? (If yes,	No	
TXIG notes:						
20	OTHER SECURITY CONS	` '	al davida asserbit			
20.4	•	lerations/notes regarding medic	ai device security.			
20-1	Can the device be service	•			Yes	
20-2	Can the device restrict readdresses)?	mote access to/from specified d	evices or users or network	locations (e.g., specific IP	Yes	

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