

		Manufacturer Disclosure Stateme	nt for Medical Device Security – MDS ²		
		DEVICE [DESCRIPTION		
Clinica Device	Categor al inform Model Connec	ation archive Karos Health Incorporated Software Revision	Document ID 2017.09.037 Document Release Document Releas		
Repres Contac	acturer or sentative et Informa	Michel Pawlicz / Director of Operations	Manufacturer Contact Information 5850 Opus Parkway, Suite 300, Minnetonka, MN (952) 487-9500	55343, US <i>A</i>	4
Vitrea	Connec	device in network-connected environment: tion is a secure, patient-based archive and workfloon open standards (HL7, DICOM, XDS).	ow solution for all clinical information (imaging and i	non-imaging)	l
		MANAGEMENT	OF PRIVATE DATA		
	R	efer to Section 2.3.2 of this standard for the proper interpr	retation of information requested in this form.	Yes, No, N/A, or See Note	Note #
А	Can this	device display, transmit, or maintain private data (include	ling electronic Protected Health Information [ePHI])?		
В	B.1	private data elements that can be maintained by the de Demographic (e.g., name, address, location, unique ident	ification number)?	Yes	_
		Medical record (e.g., medical record #, account #, test or Diagnostic/therapeutic (e.g., photo/radiograph, test results)		Yes	_
	B.4 B.5	Open, unstructured text entered by device user/operator	?	Yes Yes No	_
С	B.6	Personal financial information? ing private data - Can the device:		No	_
	C.2	Maintain private data temporarily in volatile memory (i.e., Store private data persistently on local media? mport/export private data with other systems?	until cleared by power-off or reset)?	Yes Yes Yes	_
D	Mechan	Maintain private data during power service interruptions? sms used for the transmitting, importing/exporting of priv Display private data (e.g., video display, etc.)?		Yes	_
		Generate hardcopy reports or images containing private Retrieve private data from or record private data to rem card, memory stick, etc.)?		No No	_
		Transmit/receive or import/export private data via dedica FireWire, etc.)?	ted cable connection (e.g., IEEE 1073, serial port, USB,	No	_
	D.5 D.6	Transmit/receive private data via a wired network connectors Transmit/receive private data via an integrated wireless r		Yes	_
	D.7 D.8	import private data via scanning? Other?		Yes No See Note	<u>_</u>
_	ement of Data no	Private data can be imported and exported	d to local disk through a web browser	See Note	ı

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

Sop-301.300.T012 (B) Page 1 of 6



HN 1-2013

Device	Catego	v	Manufacturer	Document ID	Document Release Da	te	
Clinical information archive			Karos Health Incorporated	2017.09.037	5/27/2015		
Device	Model		Software Revision		Software Release Date		
Vitrea	Conne	ction	7.5		4/17/2019		
			SECURITY	CAPABILITIES			
	F	Refer to Section 2.3.2 o	f this standard for the proper interp	retation of information rec	quested in this form.	Yes, No, N/A, or See Note	Note #
1	AUTO	MATIC LOGOFF (ALOF	-			OCC NOIC	-
	The de	vice's ability to prevent	access and misuse by unauthorize	ed users if device is left in	dle for a period of time.		
1-1		-	to force reauthorization of logged-i word protected screen saver)?	n user (s) after a predeter	mined length of inactivity (e.g.,	Yes	
	1-1.1	Is the length of inactivi or configurable range]	ty time before auto-logoff/screen lo in notes.)	ck user or administrator of	configurable? (Indicate time [fixed	Yes	2
	1-1.2	Can auto-logoff/screer	n lock be manually invoked (e.g., vi	a a shortcut key or proxim	nity sensor, etc.) by the user?		_
		0.00.5				Yes	
ALOF		2. Configurable					
notes:							
2		CONTROLS (AUDT) ility to reliably audit acti	vity on the device .				
2-1	Can the	e medical device creat	e an audit trail?			Yes	
2-2	Indicate	e which of the following	events are recorded in the audit lo	g:		165	-
	2-2.1	Login/logout		•		Voc	
		Display/presentation o	f data			Yes	-
		Creation/modification/e				Yes	-
		Import/export of data f				Yes	_
			of data from/to external (e.g., netwo	urk) connection		N/A	3
		-2.5.1 Remote service		ink) conficction		Yes	
			•			Yes	
		Other events? (describ	·	1 12 0 221		Yes	_
2-3			ed to identify individual events reco	orded in the audit log:			
		User ID				Yes	_
	2-3.2	Date/time				Yes	
AUDT notes:			ode (SN). All audit records con		Record Repository (ARR), Secu- specifications. 3 - Direct expor		
3	AUTHO	ORIZATION (AUTH)					\neg
	The ab	ility of the device to det	ermine the authorization of users.				
3-1	Can the	e device prevent acces	s to unauthorized users through u s	ser login requirements or	other mechanism?	Yes	
3-2		ers be assigned differe administrators, etc.)?	nt privilege levels within an applica	tion based on 'roles' (e.g.	, guests, regular users , power	Yes	
3-3		e device owner/operate al root or admin account	or obtain unrestricted administrative t)?	e privileges (e.g., access	operating system or application	Yes	
AUTH notes:							

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

Sop-301.300.T012 (B) Page 2 of 6



	Category al information archive	Manufacturer Karos Health Incorporated	Document ID 2017.09.037	Document Release Date 5/27/2015	e	
Device Model			Software Revision Software Release			
	Connection	7.5		4/17/2019		
Г	Refer to Section 2.3.2	of this standard for the proper interp	retation of information re	equested in this form.	Yes, No, N/A, or See Note	Note #
4	CONFIGURATION OF SEC	URITY FEATURES (CNFS)			OCC NOIC	_
	,	onfigure device security capabilities				
4-1	Can the device owner/opera	ator reconfigure product security cap	pabilities?		Yes	_
CNFS notes:						
5	CYBER SECURITY PRODU	-				
	The ability of on-site service	staff, remote service staff, or authorize	zed customer staff to ins	tall/upgrade device 's security patches	3 .	
5-1	Can relevant OS and device	security patches be applied to the d	avice as they become a	wailable?		
J-1		s or other software be installed remot	-	valiable:	Yes	-
	o our obsum, paterio				Yes	-
CSUP notes:						
6	HEALTH DATA DE-IDENTIFE The ability of the device to o	FICATION (DIDT) directly remove information that allower	s identification of a perso	on.		
6-1	Does the device provide an	integral capability to de-identify priva	ate data?		No	
DIDT notes:						_
7	DATA BACKUP AND DISAS		handrian anathrian			
7.4	•	amage or destruction of device data,		ov manna valda maadia avab oo tana		
7-1	disk)?	tegral data backup capability (i.e., bac	ckup to remote storage t	or removable media such as tape,	Yes	
DTBK notes:						
8	EMERGENCY ACCESS (EM	•				
	The ability of device users t	to access private data in case of an o	emergency situation that	t requires immediate access to stored	private data	a.
8-1	Does the device incorporate	e an emergency access ("break-glas	s") feature?		Yes	_
EMRG notes:						
9		AND AUTHENTICITY (IGAU) it data processed by the device has r	not been altered or destr	oyed in an unauthorized manner and	is from the	
9-1	Does the device ensure the	integrity of stored data with implicit o	r explicit error detection/	correction technology?	Yes	
IGAU notes:						

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

Sop-301.300.T012 (B) Page 3 of 6



HN 1-2013

	Category al information archive	Manufacturer	Document ID	Document Release I	Date	
		Karos Health Incorpora	ted 2017.09.037	5/27/2015		
	Model Connection	Software Revision		Software Release D	ate	
			interpretation of information requ		Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTION/P The ability of the device to	•	emove malicious software (malw a	are).		
10-1	Does the device support th	e use of anti-malware software	(or other anti-malware mechanis	sm)?	No	
	* *	endently re-configure anti-malw		,	No	_
	10-1.2 Does notification of	f malware detection occur in the	device user interface?		No	
	10-1.3 Can only manufacti	urer-authorized persons repair sy	ystems when malware has been	detected?		
			_		Yes	_
10-2		ill or update anti-virus software			No	_
10-3	can the device owner/oper software?	ator (technically/physically) upos	ate virus definitions on manufactu	urer-installed anti-virus	No	
MLDP notes:	The device does	not install or otherwise cont	rol malware software.		NO	
11	NODE AUTHENTICATION The ability of the device to	(NAUT) authenticate communication par	tners/nodes			
11-1	· ·	upport any means of node auther and are authorized to receive trans	ntication that assures both the se sferred information?	nder and the recipient of data	Yes	_
notes:	PERSON AUTHENTICATION Ability of the device to auth	•				
10 1	•		(a) and password(a) for at least a	no unar?		
12-1	Does the device support us	serroperator-specific username((s) and password(s) for at least of	ne user?	Yes	
	12-1.1 Does the device su	pport unique user/operator -spe	cific IDs and passwords for multip	ple users?	Yes	_
12-2	Can the device be configur NDS, LDAP, etc.)?	red to authenticate users through	h an external authentication servi	ce (e.g., MS Active Directory,	Yes	_
12-3	Can the device be configur	ed to lock out a user after a cert	tain number of unsuccessful logor	n attempts?		
					See Note	4
12-4	Can default passwords be	changed at/prior to installation?			N/A	5
12-5	Are any shared user IDs us	•			Yes	_
12-6	Can the device be configur	ed to enforce creation of user ac	ccount passwords that meet esta	blished complexity rules?	0	_
12 7	Can the davise he configure	rod on that appount passwards as	vniro poriodically?		See Note	4
12-7	•	red so that account passwords ex		II December	See Note	4
PAUT notes:	4. Managed thro	ugh external authentication s	service. 5. There is no defau	ilt Password.		
13	PHYSICAL LOCKS (PLOK Physical locks can prevent data stored on the device	unauthorized users with physica	al access to the device from com	promising the integrity and conf	dentiality of pri	ivate
13-1	Are all device components without tools)?	maintaining private data (other	than removable media) physica	lly secure (i.e., cannot remove	N/A	
PLOK notes:	The device is a s	oftware component only and	d does not own or control the	physical hardware.	1471	

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

Sop-301.300.T012 (B) Page 4 of 6



Device	Category	Manufacturer	Document ID	Document Release Da	ite	
Clinical information archive		Karos Health Incorporated	2017.09.037	5/27/2015		
Device	Model	Software Revision		Software Release Date	e	
Vitrea	Connection	7.5		4/17/2019		
	Refer to Section 2.3.2 of	of this standard for the proper interp	retation of information reques	sted in this form.	Yes, No, N/A, or See Note	Note #
14		TY COMPONENTS IN DEVICE LIF	•			
	Manufacturer's plans for secu	rity support of 3rd party components	s within device life cycle.			
14-1	In the notes section, list the preversion number(s).	ovided or required (separately purc	hased and/or delivered) oper	ating system(s) - including	See Note	_
14-2	Is a list of other third party app	plications provided by the manufactu	ırer available?		Yes	
RDMP notes:		mponents are included in the de ditional OS installations or licer		nd are automatically installe	ed as part o	f
15	SYSTEM AND APPLICATION The device's resistance to cyl	, ,				
15-1	Does the device employ any recognized hardening standar	hardening measures? Please indicads.	ate in the notes the level of co	onformance to any industry-	Yes	
15-2		mechanism (e.g., release-specific hacturer-authorized program or softwa		ensure the installed	Yes	6
15-3	Does the device have externa	al communication capability (e.g., ne	etwork, modem, etc.)?		Yes	
15-4	Does the file system allow the Windows platforms)?	implementation of file-level access	controls (e.g., New Technolo	gy File System (NTFS) for MS	Yes	
15-5	Are all accounts which are no applications?	t required for the intended use of th	ne device disabled or deleted	I, for both users and	Yes	
15-6	Are all shared resources (e.g.	, file shares) which are not required	for the intended use of the o	device, disabled?	Yes	
15-7	Are all communication ports w	hich are not required for the intend	ed use of the device closed/	/disabled?		
15-8	Are all services (e.g., telnet, fi intended use of the device d	le transfer protocol [FTP], internet ir	nformation server [IIS], etc.), v	which are not required for the	Yes	 7
15-9	Are all applications (COTS ap	plications as well as OS-included ap of the device deleted/disabled?	oplications, e.g., MS Internet	Explorer, etc.) which are not		,
15-10	•	controlled or removable media (i.e.,	a source other than an inter	nal drive or memory	Yes	
15-11	component)?	authorized by the device manufact			Yes	_
					N/A	8
SAHD	7. None of the listed s installer/updater spec to be removed.	cked automatically by the product in ervices are installed. The only servi ffically checks for the presence of in ware package and does not own or	ces listening are SSH and Vit secure services such as rsh-	server, telnet-server and if prese		
16	SECURITY GUIDANCE (SGL	•				
	The availability of security guid	dance for operator and administrate	or of the system and manufac	cturer sales and service.		
16-1	Are security-related features of	locumented for the device user?			Yes	
16-2	Are instructions available for opersonal or other sensitive da	levice/media sanitization (i.e., instruta)?	uctions for how to achieve the	e permanent deletion of	N/A	
SGUD	notes:					

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

Sop-301.300.T012 (B) Page 5 of 6



HN 1-2013

Device	Category	Manufacturer	Document ID	Document Release Da	ite	
	al information archive	Karos Health Incorporated	2017.09.037	5/27/2015		
Device	Model	Software Revision		Software Release Date		
	Connection	7.5		4/17/2019	-	
11100		7.0		11112010	V/ N/	
	Refer to Section 2.3.2	of this standard for the proper interp	retation of information requi	ested in this form	Yes, No, N/A, or	te #
	TROICH to Occiton 2.0.2	or this standard for the proper interp	retation of information requ	ested in this form.	See Note	Note
17	HEALTH DATA STORAGE C	ONFIDENTIALITY (STCF)				
	The ability of the device to er or removable media .	nsure unauthorized access does not	compromise the integrity a	nd confidentiality of private data s	stored on dev	vice
17-1	Can the device encrypt data	at rest?			Yes	
STCF						
notes:						
18	TRANSMISSION CONFIDEN	ITIALITY (TXCF)				
	The ability of the device to en	nsure the confidentiality of transmitte	ed private data.			
18-1	Can private data be transmit	tted only via a point-to-point dedicate	ed cable?		Yes	
18-2		or to transmission via a network or r	emovable media? (If yes, i	ndicate in the notes which		
10.0	encryption standard is implen	·	actinations?		Yes	9
18-3	•	restricted to a fixed list of network de			Yes	
TXCF		cryptographic protocols included led. All other protocols are fully		•		
notes:						
19	TRANSMISSION INTEGRITY The ability of the device to er		/ate data.			
19	The ability of the device to end Does the device support any	nsure the integrity of transmitted priv mechanism intended to ensure data		nsmission? (If yes, describe in	Vac	10
	The ability of the device to end Does the device support any the notes section how this is	nsure the integrity of transmitted priv mechanism intended to ensure data achieved.)	a is not modified during tran	ismission? (If yes, describe in	Yes	10
	The ability of the device to end Does the device support any the notes section how this is	nsure the integrity of transmitted priv mechanism intended to ensure data	a is not modified during tran	smission? (If yes, describe in	Yes	10
19-1 TXIG	The ability of the device to end Does the device support any the notes section how this is	nsure the integrity of transmitted priv mechanism intended to ensure data achieved.) S is designed to detect alternat	a is not modified during tran	ismission? (If yes, describe in	Yes	10
19-1 TXIG notes:	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL	nsure the integrity of transmitted priv mechanism intended to ensure data achieved.) S is designed to detect alternat	a is not modified during tran	ismission? (If yes, describe in	Yes	10
19-1 TXIG notes:	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate the second private mechanism intended to ensure data achieved.) S is designed to detect alternate the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved.)	a is not modified during tran	nsmission? (If yes, describe in	Yes	10
TXIG notes:	The ability of the device to end Does the device support any the notes section how this is 10. Using TLS. TL OTHER SECURITY CONSID Additional security considerate Can the device be serviced in the device be serviced in the device be serviced in the device of the device be serviced in the device be serv	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate the second private mechanism intended to ensure data achieved.) S is designed to detect alternate the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved.)	a is not modified during tran		Yes	10
19-1 TXIG notes: 20 20-1	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate the second of the s	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?		10
19-1 TXIG notes: 20 20-1	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved to ensure the second private mechanism intended to ensure data achieved.)	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?	Yes Yes	10 — —
19-1 TXIG notes: 20 20-1	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved to ensure the second private mechanism intended to ensure data achieved.)	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?	Yes Yes	10
19-1 TXIG notes: 20 20-1	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved to ensure the second private mechanism intended to ensure data achieved.)	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?	Yes Yes	10
19-1 TXIG notes: 20 20-1 20-2	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved to ensure the second private mechanism intended to ensure data achieved.)	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?	Yes Yes	10
19-1 TXIG notes: 20 20-1 20-2	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved to ensure the second private mechanism intended to ensure data achieved.)	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?	Yes Yes	10
19-1 TXIG notes: 20 20-1 20-2	The ability of the device to end Does the device support any the notes section how this is a 10. Using TLS. TL OTHER SECURITY CONSID Additional security consideral Can the device be serviced in Can the device restrict remotes the service of the device restrict remotes the device of the device of the device restrict remotes the device of the device restrict remotes the device of the device o	nsure the integrity of transmitted private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved.) S is designed to detect alternate to the second private mechanism intended to ensure data achieved the second private mechanism intended to ensure data achieved to ensure the second private mechanism intended to ensure data achieved.)	a is not modified during transons. ce security. or users or network location	ns (e.g., specific IP addresses)?	Yes Yes	10

© Copyright 2013 by the National Electrical Manufacturers Association and the Healthcare Information and Management Systems Society.

Sop-301.300.T012 (B) Page 6 of 6