Manufacturer Disclosure Statement for Medical Device Security – MDS2								
	DEVICE DESCRIPTION							
Device Category		Manufacturer	Document ID	Document Release Date				
Medical Device Class Im		Vital Images A/S	2015.05.024	6/25/2019				
Device Model		Software Revision		Software Release Date				
EasyViz		7.7		7/12/2019				
Company Name		e	Manufacturer Contact Informa	tion				
Manufacturer or Representative Contact Information	Vital Images A/S Representative Name/Position Marcel Lantinga		Krumptappen 4, Etage 3, 2500 Valby, Denmark					

Intended use of device in network-connected environment:

	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 #
	Can t [ePHI	his device display, transmit, or maintain private data (including electronic Protected Health Information])?	Yes	
В	Types	s 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)?	Yes	
	B.3	Diagnostic/therapeutic (e.g., photo/radiograph, test results, or physiologic 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	
С	Maint	Maintaining 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?	No	
D	Mech	anisms used for the transmitting, importing/exporting of private data – Can the device:		
	D.1	Display private data (e.g., video display, etc.)?	Yes	
	D.2	Generate hardcopy reports or images containing private data?	Yes	
	D.3	Retrieve private data from or record private data to removable media (e.g., disk, DVD, CD-ROM, tape, 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 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 of Private Data notes:

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Medical Device Class Im	Vital Images A/S	2015.05.024	6/25/2019
Device Model	Software Revision	<u> </u>	Software Release Date

EasyV	/iz	7.7 7/12/2019							
		SECURITY CAPABILITIES							
	Refer t	o 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 #					
1	AUTOMATIC LOGOFF (ALOF) The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.								
1-1	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password protected screen saver)? Yes								
	1-1.1	Is the length of inactivity time before auto-logoff/screen lock user or administrator configurable? (Indicate time [fixed or configurable range] in notes.)	Yes	Configurable					
	1-1.2	Can auto-logoff/screen lock be manually invoked (e.g., via a shortcut key or proximity sensor, etc.) by the user?	No						
ALOF notes:			'	_					
2		CONTROLS (AUDT) illity to reliably audit activity on the device.							
2-1	Can th	e medical device create an audit trail?	Yes						
2-2	Indica	e which of the following events are recorded in the audit log:		_					
	2-2.1	Login/logout	Yes						
	2-2.2	Display/presentation of data	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	2.5.1 Remote service activity	No	_					
	2-2.6	Other events? (describe in the notes section)	No	_					
2-3	Indica	e what information is used to identify individual events recorded in the audit log:		_					
	2-3.1	User ID	Yes						
	2-3.2	Date/time	Yes	_					
		The product implement parts of the IHE ATNA integration profile.		_					
AUDT notes:									
3		ORIZATION (AUTH) illity of the device to determine the authorization of users.							
3-1	Can th	e device prevent access to unauthorized users through user login requirements or other mechanism?	Yes	_					
3-2		sers be assigned different privilege levels within an application based on 'roles' (e.g., guests, regular power users, administrators, etc.)?	Yes	_					
3-3		e device owner/operator obtain unrestricted administrative privileges (e.g., access operating system or ation via local root or admin account)?	Yes						
AUTH notes:									
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Devic	ce Category	Manufacturer	Document ID	Document Relea	se Date		
Medi	dical Device Class Im Vital Images A/S 2015.05.024 6/25/2019						
Devic	Device Model Software Revision Software Release Date						
Easy	yViz	7.7		7/12/2019			
Yes, No, 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							
4 CONFIGURATION OF SECURITY FEATURES (CNFS) The ability to configure/re-configure device security capabilities to meet users' needs.							
	ine ability to configure/re-co	ornigure device security capabil	illes to meet users meeus.				

CNFS notes:								
5	5 CYBER SECURITY PRODUCT UPGRADES (CSUP) The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.							
5-1	Can relevant OS and device	e security patches be applied	to the device as they become	ome available?	Yes			
	5-1.1 Can security patches	s or other software be installed	d remotely?		Yes	_		
CSUF notes:						_		
6	HEALTH DATA DE-IDENT	IFICATION (DIDT) directly remove information the	at allows identification of a	ı person.				
6-1	Does the device provide an	integral capability to de-ident	ify private data?		Yes	The anonymization service can be used for this purpose		
DIDT notes:								
7		ASTER RECOVERY (DTBK) damage or destruction of device	ce data, hardware. or soft	ware.				
7-1		tegral data backup capability (No	_		
DTBK notes:								
8	EMERGENCY ACCESS (E The ability of device users to	MRG) o access private data in case	of an emergency situation	n that requires immediate a	access to stored	d private data.		
8-1	Does the device incorporate	e an emergency access ("brea	ak-glass") feature?		No	_		
EMR0 notes:								
9		Y AND AUTHENTICITY (IGA at data processed by the device		destroyed in an unauthori	zed manner an	d is from the originator.		
9-1	Does the device ensure the technology?	integrity of stored data with in	nplicit or explicit error dete	ection/correction	See Note	No, EasyViz is primarily a data viewer (and creator)		
IGAU notes:								
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	e Category	Manufacturer	Document ID	Document Relea	ase Date			
	cal Device Class Im	Vital Images A/S	2015.05.024	6/25/2019	- D-t-			
Easy	e Model Viz	Software Revision 7.7		Software Releas 7/12/2019	e Dale			
	Refer to Section 2.3.2 of this	standard for the proper interp	pretation of information re-	quested in this form.	Yes, No, N/A, or See Note	Note #		
10	MALWARE DETECTION/P The ability of the device to e	ROTECTION (MLDP) effectively prevent, detect and	remove malicious softwa	re (malware).				
10-1		e use of anti-malware software		,	No			
	10-1.1 Can the user indepe	ndently re-configure anti-malv	vare settings?	·	No			
	10-1.2 Does notification of malware detection occur in the device user interface?							

Yes

No

No

10-1.3 Can only manufacturer-authorized persons repair systems when malware has been detected?

10-3 Can the device owner/operator (technically/physically) update virus definitions on manufacturer-installed antivirus software?

10-2 Can the device owner install or update anti-virus software?

MLDP notes:	The device does not install or otherwise control malware software.	·	
	NODE AUTHENTICATION (NAUT) The ability of the device to authenticate communication partners/nodes.		
	Does the device provide/support any means of node authentication that assures both the sender and the recipient of data are known to each other and are authorized to receive transferred information?	See Note	HTTPS authentication is used for login and backend services and for display connections. HTTPS can also be used with MINT archives. DICOM connectionsdo not support TLS, but EasyViz does support DICOM Supplement 99 authentication with kerberos.
NAUT notes:			
	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 user?		
		Yes	
12	2-1.1 Does the device support unique user/operator-specific IDs and passwords for multiple users?	Yes	_
	Can the device be configured to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, etc.)?	Yes	_
12-3	Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?	See Note	Managed through external authentication service
12-4	Can default passwords be changed at/prior to installation?	N/A	There is no default Password
12-5	Are any shared user IDs used in this system?	See Note	Integrations can be done with a shared user account
	Can the device be configured to enforce creation of user account passwords that meet established complexity rules?	See Note	Managed through external authentication service
12-7	Can the device be configured so that account passwords expire periodically?	See Note	Managed through external authentication service
PAUT notes:			
	PHYSICAL LOCKS (PLOK) Physical locks can prevent unauthorized users with physical access to the device from compromising the integ device or on removable media.	rity and confid	dentiality of private data stored on the
	Are all device components maintaining private data (other than removable media) physically secure (i.e., cannot remove without tools)?	N/A	
PLOK notes:	The device is a software component only and does not own or control the physical hardware		-
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Device Category Manufacturer Document ID Document Release Date Medical Device Class Im Vital Images A/S 2015.05.024 6/25/2019 Software Release Date Device Model Software Revision EasyViz 7/12/2019 Yes, No, N/A, or $Refer \ to \ Section \ 2.3.2 \ of \ this \ standard \ for \ the \ proper \ interpretation \ of \ information \ requested \ in \ this \ form.$ Note # See Note 14 ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP) Manufacturer's plans for security support of 3rd party components within device life cycle. In the notes section, list the provided or required (separately purchased and/or delivered) operating system(s) - including version number(s). See Note 14-2 Is a list of other third party applications provided by the manufacturer available? Yes RDMP notes: SYSTEM AND APPLICATION HARDENING (SAHD)

	The device's resistance to cyber attacks and malware.		
15-1	Does the device employ any hardening measures? Please indicate in the notes the level of conformance to any industry-recognized hardening standards.	No	
15-2	Does the device employ any mechanism (e.g., release-specific hash key, checksums, etc.) to ensure the installed program/update is the manufacturer-authorized program or software update?	Yes	On Windows the executables and MSI installers are signed with Extended Validation digital certificate. On linux the MD5 sums of the rpm packages are included in the releases notes.
15-3	Does the device have external communication capability (e.g., network, modem, etc.)?	Yes	III the releases hotes.
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	Are all accounts which are not required for the intended use of the device disabled or deleted, for both users and applications?	See Note	The recommended installation is based on a minimum OS installation. The easyviz installer will only pull in required components
15-6	Are all shared resources (e.g., file shares) which are not required for the intended use of the device, disabled?	See Note	The recommended installation is based on a minimum OS installation. The easyviz installer will only pull in required
15-7	Are all communication ports which are not required for the intended use of the device closed/disabled?	Yes	
15-8	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device deleted/disabled?	Yes	If EasyViz is correctly installed from a minimal OS installtion: None of the listed services are installed. The only services listening are SSH and EasyViz application services.
15-9	Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of the device deleted/disabled?	See Note	Non-essential but useful programs are typically deployed, but only available to users logged in via the console or ssh
15- 10	Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Ne	
15- 11	Can software or hardware not authorized by the device manufacturer be installed on the device without the use of tools?	No N/A	The device is a software package and does not own or control the hardware environment on which it is installed.
SAHD notes:			
16	SECURITY GUIDANCE (SGUD) The availability of security guidance for operator and administrator of the system and manufacturer sales and so	ervice.	
16-1	Are security-related features documented for the device user?	Yes	
16-2	Are instructions available for device/media sanitization (i.e., instructions for how to achieve the permanent deletion of personal or other sensitive data)?	N/A	_
SGUD notes:			

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Device Model Software Revision Software Release Date						
EasyViz	EasyViz 7.7 7/12/2019					
Yes, No, Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in this form. N/A, or See Note						
17 HEALTH DATA STORAGE CONFIDENTIALITY (STCF) The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of private data stored on device or removable media.						
17-1 Can the device encrypt dat	a at rest?			No	_	

STCF notes:			
18	TRANSMISSION CONFIDENTIALITY (TXCF)		
40.4	The ability of the device to ensure the confidentiality of transmitted private data.		
18-1	Can private data be transmitted only via a point-to-point dedicated cable?	Yes	
18-2	Is private data encrypted prior to transmission via a network or removable media? (If yes, indicate in the notes which encryption standard is implemented.)	See Note	DICOM C-FIND and C-MOVE operations are not encrypted as archives typically don't use/support it. DB2 database connections are also not encrypted. Internal communication in the cluster via mcop is not encrypted. These services all rely on a trusted network. All communication with clients and backends are encrypted with HTTPS/TLS.
18-3	Is private data transmission restricted to a fixed list of network destinations?	See Note	
		See Note	EasyViz itself can send private data to EasyViz thin clients and EasyViz workstations/thick clients. These do not have fixed destinations, but instead use encryption and require authentication and authorization. Transmission of data with the DICOM standard can only be done to configured AE titles. Configuration of AE titles require administrative privileges
TXCF notes:			
19	TRANSMISSION INTEGRITY (TXIG) The ability of the device to ensure the integrity of transmitted private data.		
19-1	Does the device support any mechanism intended to ensure data is not modified during transmission? (If yes, describe in the notes section how this is achieved.)	Yes	Using TLS. TLS is designed to detect alternations.
TXIG notes:			
20	OTHER SECURITY CONSIDERATIONS (OTHR) Additional security considerations/notes regarding medical device security.		
20-1	Can the device be serviced remotely?	Yes	
20-2	Can the device restrict remote access to/from specified devices or users or network locations (e.g., specific IP addresses)?	Yes	_
2	Can the device be configured to require the local user to accept or initiate remote access?	No	_
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Yes No N/A See Note