

Manufacturer Disclosure Statement for Medical Device Security – MDS ²				
DEVICE DESCRIPTION				
Device Category Ultrasound	Manufacturer FUJIFILM SonoSite, Inc.	Document ID D17787 Rev C	Document Release Date February, 2018	
Device Model iViz ®	Software Revision 1.2		Software Release Date January, 2018	
Manufacturer or Representative Contact Information	Company Name Fujifilm SonoSite Representative Name/Position FUJIFILM SonoSite Technical Support	Manufacturer Contact Information FUJIFILM SonoSite Technical Support Phone: 877-657-8118 Email: ffss-service@fujifilm.com		
Intended use of device in network-connected environment: DICOM based communications including but not limited to: Image Archive, Modality Worklist.				
MANAGEMENT OF PRIVATE DATA				
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 #
A	Can this device display, transmit, or maintain private data (including electronic Protected Health Information [ePHI])?		Yes	
B	Types 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 ?	N/A	—
	B.6	Personal financial information?	No	—
C	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?	Yes	—
D	Mechanisms 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.)?	Yes	—
	D.5	Transmit/receive private data via a wired network connection (e.g., LAN, WAN, VPN, intranet, Internet, etc.)?	No	—
	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?	Yes	1
	D.8	Other?	—	—
Management of Private Data notes: 1 - Can import patient data from bar code reader				

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SECURITY CAPABILITIES

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 #
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-logout, session lock, password protected screen saver)?	Yes	—
1-1.1	Is the length of inactivity time before auto-logout/screen lock user or administrator configurable? (Indicate time [fixed or configurable range] in notes.)	Yes	1,2
1-1.2	Can auto-logout/screen lock be manually invoked (e.g., via a shortcut key or proximity sensor, etc.) by the user ? 1) Inactivity timer to enter sleep mode configurable to off, range from 15 seconds to 30 minutes. 2) Inactivity timer to power down configurable off, range from 15 seconds to 30 minutes. 3) iViz has Power button to lock screen 4) Auto Freeze feature makes iViz to go sleep mode and eventually to shutdown	Yes	3,4
ALOF notes:			
2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device .		
2-1	Can the medical device create an audit trail ?	No	—
2-2	Indicate which of the following events are recorded in the audit log:		
2-2.1	Login/logout	N/A	—
2-2.2	Display/presentation of data	N/A	—
2-2.3	Creation/modification/deletion of data	N/A	—
2-2.4	Import/export of data from removable media	N/A	—
2-2.5	Receipt/transmission of data from/to external (e.g., network) connection	N/A	—
2-2.5.1	Remote service activity	N/A	—
2-2.6	Other events? (describe in the notes section)	—	—
2-3	Indicate what information is used to identify individual events recorded in the audit log:		
2-3.1	User ID	N/A	—
2-3.2	Date/time	N/A	—
AUDT notes:			
3	AUTHORIZATION (AUTH) The ability of the device to determine the authorization of users.		
3-1	Can the device prevent access to unauthorized users through user login requirements or other mechanism?	See Note	1
3-2	Can users be assigned different privilege levels within an application based on 'roles' (e.g., guests, regular users , power users , administrators, etc.)?	No	—
3-3	Can the device owner/ operator obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?	No	—
AUTH notes:	1) iViz provides access control through PIN / Pattern / Password selected by user. This is not enforced; the user can opt to not have any access control.		

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4	CONFIGURATION OF SECURITY FEATURES (CNFS)			
	The ability to configure/re-configure device security capabilities to meet users' needs.			
4-1	Can the device owner/operator reconfigure product security capabilities ?		See Note	1
CNFS notes:	1) Device owner may reconfigure security capabilities such as to use passwords or not. The user can change the required logoff time.			
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 security patches be applied to the device as they become available?		Yes	1
	5-1.1 Can security patches or other software be installed remotely?		No	2
CSUP notes:	1) FFSS can send software versions over the air to the device (except in Japanese markets). 2) The product owner needs to explicitly allow and accept the available software version upgrade to be applied the device.			
6	HEALTH DATA DE-IDENTIFICATION (DIDT)			
	The ability of the device to directly remove information that allows identification of a person.			
6-1	Does the device provide an integral capability to de-identify private data ?		Yes	1
DIDT notes:	1) Anonymization of private data happens at time of export			
7	DATA BACKUP AND DISASTER RECOVERY (DTBK)			
	The ability to recover after damage or destruction of device data, hardware, or software.			
7-1	Does the device have an integral data backup capability (i.e., backup to remote storage or removable media such as tape, disk)?		No	1
DTBK notes:	1) The user can enable patient and study data backup to the cloud based archive for patient data only. Patient data can be archived to DICOM. 2) User can reset device to Factory default setting			
8	EMERGENCY ACCESS (EMRG)			
	The ability of device users to access private data in case of an emergency situation that requires immediate access to stored private data .			
8-1	Does the device incorporate an emergency access ("break-glass") feature?		No	—
EMRG notes:				
9	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)			
	How the device ensures that data processed by the device has not been altered or destroyed in an unauthorized manner and is from the originator.			
9-1	Does the device ensure the integrity of stored data with implicit or explicit error detection/correction technology?		No	—
IGAU notes:				

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10 MALWARE DETECTION/PROTECTION (MLDP)				
The ability of the device to effectively prevent, detect and remove malicious software (malware).				
10-1	Does the device support the use of anti-malware software (or other anti-malware mechanism)?		No	1
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?		N/A	—
10-1.3	Can only manufacturer-authorized persons repair systems when malware has been detected?		N/A	—
10-2	Can the device owner install or update anti-virus software ?		No	—
10-3	Can the device owner/ operator (technically/physically) update virus definitions on manufacturer-installed anti-virus software ?		N/A	—
MLDP notes:	1) Installed applications are locked to read only area at time of shipment. User can not install any application, including anti-malware and anti-virus.			
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 and the recipient of data are known to each other and are authorized to receive transferred information?		Yes	1,2
NAUT notes:	1) When using DICOM based communications, the modality (sender) and the recipient must be identified. 2) Device also support Wifi certificate based authentication (EAP/TLS)			
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 user ?		No	1
12-1.1	Does the device support unique user/operator -specific IDs and passwords for multiple users?		N/A	—
12-2	Can the device be configured to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, etc.)?		No	—
12-3	Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?		Yes	—
12-4	Can default passwords be changed at/prior to installation?		Yes	1
12-5	Are any shared user IDs used in this system?		No	—
12-6	Can the device be configured to enforce creation of user account passwords that meet established complexity rules?		No	—
12-7	Can the device be configured so that account passwords expire periodically?		No	—
PAUT notes:	1) No default password set at time of shipping. Single account can be pin protected. The single user account can be pin, password, or pattern protected.			
13 PHYSICAL LOCKS (PLOK)				
Physical locks can prevent unauthorized users with physical access to the device from compromising the integrity and confidentiality of private data stored on the device or on removable media .				
13-1	Are all device components maintaining private data (other than removable media) physically secure (i.e., cannot remove without tools)?		Yes	—
PLOK notes:				

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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.			
14-1	In the notes section, list the provided or required (separately purchased and/or delivered) operating system(s) - including version number(s).		Yes	1
14-2	Is a list of other third party applications provided by the manufacturer available?		Yes	2
	RDMP notes: <ol style="list-style-type: none"> 1) Android OS 4.4.2 2) Adobe reader, Printhead application, Trice, Barcode Scanner 			
15	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.		Yes	1
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	2
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	3
15-5	Are all accounts which are not required for the intended use of the device disabled or deleted, for both users and applications?		Yes	—
15-6	Are all shared resources (e.g., file shares) which are not required for the intended use of the device , disabled?		Yes	—
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	—
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?		Yes	—
15-10	Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?		No	—
15-11	Can software or hardware not authorized by the device manufacturer be installed on the device without the use of tools?		No	—
	SAHD notes: <ol style="list-style-type: none"> 1) Device locks down all the open ports 2) Every software upgrade has unique checksum 3) Each Android App operates in a process sandbox, apps must explicitly request access to resources and data outside their 			
16	SECURITY GUIDANCE (SGUD)			
	The availability of security guidance for operator and administrator of the system and manufacturer sales and service.			
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)?		Yes	—
	SGUD notes:			

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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 data at rest?		No	—
STCF notes:				
18 TRANSMISSION CONFIDENTIALITY (TXCF)				
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?		No	—
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.)		Yes	1
18-3	Is private data transmission restricted to a fixed list of network destinations?		Yes	—
TXCF notes: 1) For network transmission, Any communication to the public secure cloud is encrypted using 128b TLS. For removable media it is not encrypted				
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.)		See Note	1
TXIG notes: 1) Use of TLS with the proper CA certs ensures that the data has not been tampered by an intermediary ("man in the middle") during transmission to the cloud.				
20 OTHER SECURITY CONSIDERATIONS (OTHR)				
Additional security considerations/notes regarding medical device security.				
20-1	Can the device be serviced remotely?		No	—
20-2	Can the device restrict remote access to/from specified devices or users or network locations (e.g., specific IP addresses)?		N/A	—
20-2.1	Can the device be configured to require the local user to accept or initiate remote access?		N/A	—
OTHR notes:				