

Manufacturer Disclosure Statement for Medical Device Security – MDS ²				
DEVICE DESCRIPTION				
Device Category Imaging Archive	Manufacturer Laitek Inc.	Document ID	Document Release Date 4/24/17	
Device Model Semperdata	Software Revision 4.x		Software Release Date 7/1/2016	
Manufacturer or Representative Contact Information	Company Name Laitek Inc.	Manufacturer Contact Information		
	Representative Name/Position Laitek Support			
<p>Intended use of device in network-connected environment: Semperdata includes Semperdata Dynamic Archive, a DICOM archive, and optionally, the Semperdata VAAA Registry, an XDS Document Registry and Repository for enterprise sharing of documents and images. These provide storage, query and retrieve capabilities using DICOM, DICOMweb and IHE XDS interfaces. Semperdata is also used to migrate PACS and EMR data.</p>				
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 ?	No	—
	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 ?	No	—
	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.)?	Yes	—
	D.6	Transmit/receive private data via an integrated wireless network connection (e.g., WiFi, Bluetooth, infrared, etc.)?	No	—
	D.7	Import private data via scanning?	No	—
	D.8	Other?	No	—
Management of Private Data notes:				

Device Category Imaging Archive	Manufacturer Laitek Inc.	Document ID	Document Release Date 4/24/2017
Device Model Semperdata	Software Revision 4.x		Software Release Date 7/1/2016

SECURITY CAPABILITIES

		Yes, No, N/A, or See Note	# Note
Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in this form.			
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
1-1.1	Is the length of inactivity time before auto-logoff/screen lock user or administrator configurable? (Indicate time [fixed or configurable range] in notes.)	Yes	—
1-1.2	Can auto-logoff/screen lock be manually invoked (e.g., via a shortcut key or proximity sensor, etc.) by the user ?	Yes	—
ALOF notes:	1 - The duration of inactivity triggering logoff is configurable		
2	AUDIT CONTROLS (AUDT) The ability to reliably audit activity on the device .		
2-1	Can the medical device create an audit trail?	Yes	—
2-2	Indicate 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	—
2-2.5.1	Remote service activity	Yes	—
2-2.6	Other events? (describe in the notes section)	Yes	1
2-3	Indicate what information is used to identify individual events recorded in the audit log:		
2-3.1	UserID	Yes	—
2-3.2	Date/time	Yes	—
AUDT notes:	1 - Semperdata implements the IHE ATNA Integration Profile for all supported Actors		
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?	Yes	—
3-2	Can users be assigned different privilege levels within an application based on 'roles' (e.g., guests, regular users , power users , administrators, etc.)?	Yes	—
3-3	Can the device owner/ operator obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?	Yes	1
AUTH notes:	1 - The site controls privileged access		

Device Category	Manufacturer	Document ID	Document Release Date		
Imaging Archive	Laitek Inc.		4/24/2017		
Device Model	Software Revision	Software Release Date			
Semperdata	4.x	7/1/2016			
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 #	
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 ?			Yes	1
CNFS notes: 1 - Only admin level users can reconfigure user privileges					
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?			Yes	—
CSUP notes: 1 - Patches and anti-virus updates are qualified by manufacturer and supplied to customer					
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 ?			No	—
DIDT notes:					
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)?			Yes	—
DTBK notes:					
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?			N/A	1
EMRG notes: 1 - Primary access is via connected systems configurable for privileged access					
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?			Yes	1
IGAU notes: 1 - The device is storage neutral. Storage may be virtual					

Device Category	Manufacturer	Document ID	Document Release Date	
Imaging Archive	Laitek Inc.		4/24/2017	
Device Model	Software Revision	Software Release Date		
Semperdata	4.x	7/1/2016		
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 #
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)?		Yes	—
10-1.1	Can the user independently re-configure anti-malware settings?		See Note	1
10-1.2	Does notification of malware detection occur in the device user interface ?		No	—
10-1.3	Can only manufacturer-authorized persons repair systems when malware has been detected?		Yes	2
10-2	Can the device owner install or update anti-virus software ?		Yes	1
10-3	Can the device owner/ operator (technically/physically) update virus definitions on manufacturer-installed anti-virus software ?		Yes	—
MLDP notes:	1 - By default, the system is installed with Symantic Endpoint protection and configured to meet product performance specifications. 2 - Or in coordination with Technical Support			
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
NAUT notes:	1 - As specified by IHE ATNA Secure Node Integration Profile			
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 ?		Yes	—
12-1.1	Does the device support unique user/operator -specific IDs and passwords for multiple users?		Yes	—
12-2	Can the device be configured to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, etc.)?		Yes	1
12-3	Can the device be configured to lock out a user after a certain number of unsuccessful logon attempts?		Yes	1
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	2
12-6	Can the device be configured to enforce creation of user account passwords that meet established complexity rules?		Yes	—
12-7	Can the device be configured so that account passwords expire periodically?		Yes	—
PAUT notes:	1 - Through group policy or Active Directory (not the web user interface) 2 - User accounts are at customer discretion.			
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)?		See Note	1
PLOK notes:	1 - Site is responsible to restrict physical access to authorized staff			

Device Category Imaging Archive	Manufacturer Laitek Inc.	Document ID	Document Release Date 4/24/2017	
Device Model Semperdata	Software Revision 4.x		Software Release Date 7/1/2016	
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 #
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).		See Note	1
14-2	Is a list of other third party applications provided by the manufacturer available?		Yes	—
1 - Microsoft Windows 2008 R2 64bit and Windows 2012 R2				
RDMP notes:				
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	—
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?		No	—
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	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?		No	—
15-10	Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?		Yes	1
15-11	Can software or hardware not authorized by the device manufacturer be installed on the device without the use of tools?		Yes	2
1 - Can boot from removable media				
2 - Unlicensed hardware is logged				
SAHD notes:				
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:				

Device Category Imaging Archive	Manufacturer Laitek Inc.	Document ID	Document Release Date 4/24/2017	
Device Model Semperdata	Software Revision 4.x		Software Release Date 7/1/2016	
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 #
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?		Yes	1
STCF notes: 1 - Data stored to removable media can be encrypted				
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.)		See Note	1
18-3	Is private data transmission restricted to a fixed list of network destinations?		Yes	2
TXCF notes: 1 - Secure connections can be configured per IHE Technical Framework 2 - Transfer of PHI is via configured DICOM associations and DICOM and IHE web protocols with credentialed systems				
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 - Secure connections can be configured per IHE Technical Framework				
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	—
20-2.1	Can the device be configured to require the local user to accept or initiate remote access?		Yes	—
OTHR notes:				