Manufacturer Disclosure Statement for Medical Device Security – MDS ²								
Device Category: * 15949		Manufacturer:* Carestream Health, Inc.	Document ID: 8F6666 Document Re 6/6/2018		ease Date):		
Device Model: DRYVIEW 6850 Laser Imaging System Software Revision: 1.x Software Release Date: May 2010								
Manufacturer or Representative Company Name: Carestream U.S.A. Telephone #:		Department: I e-mail:	epartment: US&C Service mail:					
MANAGEMENT OF ELECTRONIC PROTECTED HEALTH INFORMATION (ePHI) As defined by HIPAA Security Rule, 45 CFR Part 164)				Pule, 45 CFR	<u>Yes</u> <u>No</u> N/A	<u>Note</u> <u>#</u>		
1 2	Can this device transmit or maintain <i>electronic Protected Health Information</i> (ePHI)?							
2	 2 Types of ePHI data elements that can be maintained by the device: a. Demographic (e.g., name, address, location, unique identification number)? b. Medical record (e.g., medical record #, account #, test or treatment date, device identification number)? c. Diagnostic/therapeutic (e.g., photo/radiograph, test results, or physiologic data with identifying characteristics)? d. Open, unstructured text entered by device user/operator? 							
 Maintaining ePHI: Can the device a. Maintain ePHI temporarily in volatile memory (i.e., until cleared on by power-off or reset)? b. Store ePHI persistently on local media? 						7 7		
4		Yes	1					
-	a. Display ePHI (e.g., video				No Yes			
	 b. Generate hardcopy reports or images containing ePHI? c. Retrieve ePHI from or record ePHI to removable media (e.g., disk, DVD, CD-ROM, tape, CF/SD card, memory stick)? 							
	d. Transmit/receive or impo FireWire	ort/export ePHI via dedicated cable c	connection (e.g., IEEE 1073, serial po	ort, USB,	No			
	e. Transmit/receive ePHI vi	a a network connection (e.g., LAN, V			Yes			
	f. Transmit/receive ePHI via g. Other?	a an integrated wireless connection	(e.g., wifi, Bluetooth, Inirared)"		No N/A			
<u>ADM</u>		<u>Yes</u> No	<u>Note</u> #					
5 Does manufacturer offer operator and technical support training or documentation on device security features?						<u>#</u>		
6 What underlying operating system(s) (including version number) are used by the device?						oft <u>4</u> ws XP ded SP3		
PHYSICAL SAFEGUARDS						<u>Note</u> <u>#</u>		
7 Are all device components maintaining ePHI (other than removable media) physically secure (i.e., cannot remove without tools)?								
8	8 Does the device have an integral data backup capability (i.e., backup onto removable media such as tape, disk)?							
2 Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?								
TECHNICAL SAFEGUARDS						<u>Note</u> <u>#</u>		
10		t authorized by the device manufact	urer be installed on the device? performed by service person via net	work or	No			
11	remote connection)?		etwork locations (e.g., specific IP add		Yes No			
	b. Can the device log provid	e an audit trail of remote-service ac	tivity?	103503):	Yes	2		
12		ther software be installed remotely? vice access to device operating syste			Yes	3		
		er-validated security patches?			Yes No	6 4		
		n manufacturer-installed antivirus sc	oftware?		No	4		
13		vileges (e.g., access operating system c/operator specific ID and password?	m or application via local root or adm	nin account)?	No Yes			
14	Are access sessions terminat	ed after a predetermined length of i	nactivity (e.g., auto logoff)?		Yes			
15	Events recorded in device au a. Login and logout by users	dit log (e.g., user, date/time, action	taken): Can the audit log record		Yes			
	b. Viewing of ePHI?				No			
	c. Creation, modification ord. Import/export or transmi				No No			
16		•) feature that logs each instance of u	use?	No			
17 18	Can the device maintain ePH Controls when exchanging eF	I (e.g., by internal battery) during p	ower service interruptions?		Yes			
10	a. Transmitted only via a ph	ysically secure connection (e.g., ded			No			
		nission via a network or removable m f network addresses (i.e., host-base			No No	5		
19			it or explicit error detection/correction	on technology?	No			

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RECOMMENDED SECURITY PRACTICES

Network Requirements

The purpose of connection to an external network is for reception of DICOM image/data. The intended information flow is the DICOM image from modality to printer, and the intended routing is based on local area network that supports DICOM protocol. The external network shall be 10/100Base-T or 1000Base-T Ethernet network, providing DICOM print service based on DICOM protocol as a DICOM printer.

To ensure network security, a network firewall shall be utilized and kept up to date, and the network integrator shall ensure that only the necessary network ports are opened for remote access.

Caution

Connection of the equipment to an external network that includes other equipment could result in previously unidentified risks to patients, operators, or third parties.

The person responsible for the maintenance of this equipment shall identify, analyze, evaluate and control these risks according to IEC 80001-1:2010.

After the initial installation, subsequent changes to the network to which this equipment is connected could introduce new risks and require additional analysis. Typical changes may include

but are not limited to:Changes in the network configuration

- Connection of additional items to the network
- Disconnection of items from the network
- Update or upgrade of equipment connected to the network

EXPLANATORY NOTES (from questions 1 – 19):

IMPORTANT: Refer to <u>Instructions for the Manufacturers Disclosure Statement for Medical Device Security</u> for the proper interpretation of information provided in this form.

- 1. When Remote Service Management (RMS) is activated the hard drive of the device (where ePHI is stored) can be accessed remotely. Only qualified service personnel from Carestream Health Inc. have this kind of access.
- 2. The log will be lost if the hard drive is re-ghosted.
- 3. Certain software patches can be downloaded through RMS and installed. This can only be done by qualified Carestream Health Inc. service personnel.
- 4. The system is protected from malicious attack by utilizing the Microsoft firewall to block/disable all ports not needed for DICOM printing or secure remote access. MICROSOFT XP Embedded Security Patches have been incorporated into the software to provide additional protection. MICROSOFT no longer supports or provides security patches for Windows XP.
- 5. All RMS related network communication is encrypted and goes through the Status Link Enterprise Server owned and operated by Carestream Health Inc. in Rochester NY, USA.
- 6. Carestream Health Inc. authorized service providers must make software updates available on the device before customers can install software updates containing validated security updates. MICROSOFT / Carestream no longer provides Windows XP security updates.
- 7. ePHI stored data files that are obtained from the connected modality are deleted from memory upon the user's print job being completed.

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Adapted from Information Security for Biomedical Technology: A HIPAA Compliance Guide, ACCE/ECRI, 2004. ACCE – the American College of Clinical Engineering: ECRI – formerly the Emergency Care Research Institute.