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Manufacturer Disclosure Statement for Medical Device Security – MDS <sup>2</sup>						
	ce Category: * 15949	Manufacturer:* Carestream Health, Inc.	Document ID: 8F5613	Document Rel 6/6/2018	ease Dat	e:
Device Model: KODAK DRYVIEW 6800 Laser Imager Software Revision: 1.)		Software Revision: 1.x	Software Release Date: August 2	007		
	Manufacturer or Representative Contact Information:  Name: Technical Support Title: N/A Department  Company Name: Carestream U.S.A. Telephone #: Health, Inc. 1-800-328-2910		Department:	US&C Se	rvice	
MANAGEMENT OF ELECTRONIC PROTECTED HEALTH INFORMATION (ePHI) As defined by HIPAA Security Rule, 45 CFR Part 164)					Yes No	Note #
1 2	Can this device transmit or maintain <i>electronic Protected Health Information</i> (ePHI)?  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: <i>Can the device</i> a. Maintain ePHI temporarily in volatile memory (i.e., until cleared on by power-off or reset)?  b. Store ePHI persistently on local media?  c. Import/export ePHI with other systems?  Mechanisms used for the transmitting, importing/exporting of ePHI: <i>Can the device</i> a. Display ePHI (e.g., video display)?  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 import/export ePHI via dedicated cable connection (e.g., IEEE 1073, serial port, USB,				<u>N/A</u> Yes Yes	
3					Yes Yes No	
3					Yes Yes	7 7
4					Yes	1
					No Yes	
					No	
	FireWire	•		rt, USB,	No	
		a a network connection (e.g., LAN, V an integrated wireless connection (	· · · · · · · · · · · · · · · · · · ·		Yes No N/A	
ADM	INISTRATIVE SAFEGUARDS				Yes No N/A	Note #
5	Does manufacturer offer ope	rator and technical support training	or documentation on device security	features?	Yes	
6 What underlying operating system(s) (including version number) are used by the device?						oft XP 4 Ided SP2
PHYSICAL SAFEGUARDS					Yes No	Note #
7	Are all device components m without tools)?	aintaining ePHI (other than removal	ble media) physically secure (i.e., ca	nnot remove	<u>N/A</u> Yes	
8	Does the device have an integral data backup capability (i.e., backup onto removable media such as tape, disk)? Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory				No Yes	
7	component)?					
TECHNICAL SAFEGUARDS					Yes No N/A	Note #
10 11		ot authorized by the device manufact emotely (i.e., maintenance activities	turer be installed on the device?  performed by service person via ne	twork or	No Yes	
	a. Can the device restrict re	mote access to specific devices or ne le an audit trail of remote-service ac	etwork locations (e.g., specific IP add	dresses)?	No Yes	2
12	c. Can security patches or o	ther software be installed remotely? vice access to device operating syste	· ·		Yes	3
	a. Apply device manufacture	er-validated security patches?	ini. our the device owner/operator		Yes	6
	<ul> <li>b. Install or update antivirus</li> <li>c. Update virus definitions or</li> </ul>	s software? n manufacturer-installed antivirus so	oftware?		No No	4
	•		m or application via local root or adn	nin account)?	No	·
13		r/operator specific ID and password?			Yes	
14 15	Are access sessions terminated after a predetermined length of inactivity (e.g., auto logoff)?  Events recorded in device audit log (e.g., user, date/time, action taken): Can the audit log record				Yes	
13	a. Login and logout by users/operators?				Yes	
	b. Viewing of ePHI?	·			No	
	c. Creation, modification or				No No	
16	<ul> <li>d. Import/export or transmi</li> <li>Does the device incorporate</li> </ul>	· · · · · · · · · · · · · · · · · · ·	') feature that logs each instance of	use?	No	
17 18	·	I (e.g., by internal battery) during p	. •		Yes	
10	9 9	ysically secure connection (e.g., dec	dicated cable)?		No	
	b. Encrypted prior to transm	nission via a network or removable n	nedia?		No	5
19		f network addresses (i.e., host-base ntegrity of the ePHI data with implic	d access control list)? it or explicit error detection/correction	on technoloav?	No No	

\* Recommend use of ECRI's Universal Medical Device Nomenclature System (UMDNS).

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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.
- 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.