Manufacturer Disclosure Statement for Medical Device Security – MDS[2]

Device Category †: 16512	Manufacturer: Carestream Health Inc.	Document ID: 6H2978	Document Release Date: 9/04/2007
Device Model: DirectView DR7500	Software Revision: 4.0	Software Release Date: April 2006	

Manufacturer or Representative Contact Information:	Name: Technical Support	Title: N/A	Department: US&C Service
	Company Name: Carestream Health Inc.	Telephone #: 1-800-328-2910	e-mail: health.imaging.tsc@carestreamhealth.com

MANAGEMENT OF ELECTRONIC PROTECTED HEALTH INFORMATION (ePHI) *As defined by HIPAA Security Rule, 45 CFR Part 164)*	Yes No N/A	Note #
1. Can this device transmit or maintain *electronic Protected Health Information* (ePHI)?‡	Yes	
2. Types of ePHI data elements that can be maintained by the device:		
a. Demographic (e.g., name, address, location, unique identification number)?	Yes	
b. Medical record (e.g., medical record #, account #, test or treatment date, device identification number)?	Yes	
c. Diagnostic/therapeutic (e.g., photo/radiograph, test results, or physiologic data with identifying characteristics)?.	Yes	
d. Open, unstructured text entered by device user/operator?	Yes	
3. Maintaining ePHI: *Can the device*		
a. Maintain ePHI temporarily in volatile memory (i.e., until cleared on by power-off or reset)?	Yes	
b. Store ePHI persistently on local media?	Yes	
c. Import/export ePHI with other systems?	Yes	
4. Mechanisms used for the transmitting, importing/exporting of ePHI: *Can the device*		
a. Display ePHI (e.g., video display)?	Yes	
b. Generate hardcopy reports or images containing ePHI?	Yes	
c. Retrieve ePHI from or record ePHI to removable media (e.g., disk, DVD, CD-ROM, tape, CF/SD card, memory stick)?.	Yes	
d. Transmit/receive or import/export ePHI via dedicated cable connection (e.g., IEEE 1073, serial port, USB, FireWire)?	No	
e. Transmit/receive ePHI via a network connection (e.g., LAN, WAN, VPN, intranet, Internet)?	Yes	
f. Transmit/receive ePHI via an integrated wireless connection (e.g., WiFi, Bluetooth, infrared)?†	No	
g. Other _____ ?	N/A	

ADMINISTRATIVE SAFEGUARDS	Yes No N/A	Note #
5. Does manufacturer offer operator and technical support training or documentation on device security features?	Yes	1
6. What underlying operating system(s) (including version number) are used by the device?	Microsoft Window 2000 SP4	

PHYSICAL SAFEGUARDS	Yes No N/A	Note #
7. Are all device components maintaining ePHI (other than removable media) physically secure (i.e., cannot remove without tools)?	Yes	2,3,4
8. Does the device have an integral data backup capability (i.e., backup onto removable media such as tape, disk)?	Yes	5
9. Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Yes	6

TECHNICAL SAFEGUARDS	Yes No N/A	Note #
10. Can software or hardware not authorized by the device manufacturer be installed on the device?	Yes	
11. Can the device be serviced remotely (i.e., maintenance activities performed by service person via network or remote connection)?.	Yes	
a. Can the device restrict remote access to specific devices or network locations (e.g., specific IP addresses)?	Yes	
b. Can the device log provide an audit trail of remote-service activity?	Yes	
c. Can security patches or other software be installed remotely?	Yes	
12. Level of owner/operator service access to device operating system: *Can the device owner/operator_*		
a. Apply device manufacturer-validated security patches?	Yes	
b. Install or update antivirus software?	No	
c. Update virus definitions on manufacturer-installed antivirus software?	No	
d. Obtain administrative privileges (e.g., access operating system or application via local root or admin account)?	Yes	
13. Does the device support user/operator specific ID *and* password?	Yes	
14. Are access sessions terminated after a predetermined length of inactivity (e.g., auto logoff)?	Yes	
15. Events recorded in device audit log (e.g., user, date/time, action taken): *Can the audit log record*		
a. Login and logout by users/operators?	Yes	
b. Viewing of ePHI?	Yes	
c. Creation, modification or deletion of ePHI?	Yes	
d. Import/export or transmittal/receipt of ePHI?	Yes	
16. Does the device incorporate an emergency access ("break-glass") feature that logs each instance of use?	No	
17. Can the device maintain ePHI (e.g., by internal battery) during power service interruptions?	Yes	
18. Controls when exchanging ePHI with other devices:		
a. Transmitted only via a physically secure connection (e.g., dedicated cable)?	No	
b. Encrypted prior to transmission via a network or removable media?	No	
c. Restricted to a fixed list of network addresses (i.e., host-based access control list)?	Yes	7
19. Does the device ensure the integrity of the ePHI data with implicit or explicit error detection/correction technology?	Yes	

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

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RECOMMENDED SECURITY PRACTICES

Carestream Health Inc. recommends our customers take steps to secure their networks and protect their Medical Information Systems. A health care provider's IT security programs should include a risk assessment strategy, network defense in depth strategy, business continuity planning, etc.

EXPLANATORY NOTES ***(from questions 1 – 19):***
IMPORTANT: Refer to Instructions for the Manufacturers Disclosure Statement for Medical Device Security for the proper interpretation of information provided in this form.

1. **Carestream Health provides operator and technical training for the DirectView DR systems at our Dallas, TX facility. Service/technical documentation includes configuration guidelines for a certified service provider to configure the DR system activation of the software firewall services.**
2. **Valid Digital Certificate is required for service access (e.g. system modification, loading additional software, use of CD/DVD or USB drives etc.**
3. **Access of the CD/DVD drive or USB ports would require the individual to open the access door and slide out the CPU. Normal operation the DR system does not require the use of a keyboard.**
4. **The Clinical user does not have access to the system desktop. Limiting access to the Windows Operating System.**
5. **DR systems have the capability to complete a backup of configuration data via the floppy/CD drive.**
6. **DR systems have boot capability via the CD/DVD drive.**
7. **The system limits transfer of ePHI through defined DICOM associations, which requires defined IP addresses and AE titles.**

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