

Manufacturer Disclosure Statement for Medical Device Security – MDS²

Device Category 16512	Manufacturer Carestream Health, Inc.	Document ID 6K9389	Document Release Date 2/20/2014
Device Model See Section - Supported Models	Software Revision 5.7 and later		Software Release Date: March 2014
Manufacturer or Representative Contact Information:	Name Technical Support	Title N/A	Department US&C Service
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<u>MANAGEMENT OF ELECTRONIC PROTECTED HEALTH INFORMATION (ePHI)</u> <i>As defined by HIPAA Security Rule, 45 CFR Part 164)</i>	Yes	No	N/A	Note #
1. Can this device transmit or maintain <i>electronic Protected Health Information (ePHI)</i> ? [†]	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: <i>Can the device</i>				
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: <i>Can the device</i>				
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			10
g. Other _____ ?				N/A

<u>ADMINISTRATIVE SAFEGUARDS</u>	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?				Windows 7 Embedded Service Pack 1

<u>PHYSICAL SAFEGUARDS</u>	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	No		2, 3
8. Does the device have an integral data backup capability (i.e., backup onto removable media such as tape, disk)?	Yes			4
9. Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Yes			5

<u>TECHNICAL SAFEGUARDS</u>	Yes	No	N/A	Note #
10. Can software or hardware not authorized by the device manufacturer be installed on the device?.....	No			
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: <i>Can the device owner/operator</i>				
a. Apply device manufacturer-validated security patches?	Yes			
b. Install or update antivirus software?	No			
c. Update virus definitions on manufacturer-installed antivirus software?	N/A			6
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			7
15. Events recorded in device audit log (e.g., user, date/time, action taken): <i>Can the audit log record</i>				
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?	Yes			8
17. Can the device maintain ePHI (e.g., by internal battery) during power service interruptions?	Yes			9
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			
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).

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.

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RECOMMENDED SECURITY PRACTICES

Users must take steps to secure their networks and protect their Medical Information Systems which includes a risk assessment strategy, network defense in depth strategy, business continuity planning, etc.

SUPPORTED MODELS

Carestream DIRECTVIEW Classic CR System
Carestream DIRECTVIEW Elite CR System
Carestream DIRECTVIEW Max CR System

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 CR systems at our corporate facility. Service/technical documentation includes configuration guidelines for a certified service provider to configure the CR 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 the CD/DVD or USB drives, etc.)
3. The clinical user does not have access to the system desktop, limiting access to the Windows Operating System.
4. CR systems have the capability to complete a backup of configuration data via removable media.
5. CR systems have boot capability via the CD/DVD drive.
6. Carestream Health CR products are designed to include Intrusion Detection and Prevention System software (Symantic Critical System Protection) superior to anti-virus in terms of network protection. Customers should not load anti-virus software on these systems as they are already protected and the anti-virus software may interfere with performance.
7. The auto logout feature is provided but can be disabled by the local security administrator.
8. The customer has the option of creating an emergency access user account. This is accomplished by creating a user account and safeguarding the password such that it can be used for emergency situations.
9. The Elite and Classic CR units do not ship from the manufacturer with a UPS. If a UPS is desired, the customer must purchase a UPS and connect it to the Elite or Classis CR.
10. The system can be configured with a Bluetooth 2D Barcode Scanner to allow reading of Patients wristband.