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AGFA AGENT Health Care

FOREWORD

This document consists of the Manufacturer Disclosure Statement for Device Security (MDS² form). The intent of the MDS² form is to supply healthcare providers with important information to assist them in assessing the VULNERABILITY and risks associated with protecting ELECTRONIC PROTECTED HEALTH INFORMATION (ePHI) transmitted or maintained by devices. Because security risk assessment spans an entire organization, this document focuses on only those elements of the security risk assessment process associated with devices and systems that maintain or transmit ePHI.

The MDS² form should:

- (1) Be useful to healthcare provider organizations worldwide. While the form does supply information important to providers who must comply with HIPAA privacy and security rules, the information presented may be useful for any healthcare provider who aspires to have an effective information security RISK MANAGEMENT program. Outside the US, providers would therefore find the MDS² form an effective tool to address regional regulations such as EU 95/46 (Europe), Act on the Protection of Personal Information (Act No. 57 of 2003, Japan), and PIPEDA (Canada).
- (2) Include device specific information addressing the technical security-related attributes of the individual device model.
- (3) Provide a simple, flexible way of collecting the technical, device-specific elements of the common/typical information needed by provider organizations (device users/operators) to begin device information security (i.e., confidentiality, integrity, availability) risk assessments.
- (4) HIMSS and NEMA grant permission to make copies and use this form.

Using the information in the MDS² form together with information collected about the care delivery environment (e.g., through tools like ACCE / ECRI's Guide for Information Security for Biomedical Technology), the provider's multidisciplinary risk assessment team can review assembled information and make informed decisions on implementing a local security management plan.

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AGFA 4900 Health Care

Section 1 INSTRUCTIONS FOR OBTAINING AND USING THE MDS² FORM

1.1 USING THE MDS² FORM (HEALTHCARE PROVIDERS)

1.1.1 Section 1 – Questions 1-19

Section 1 of the MDS² form contains information on the type of data maintained / transmitted by the device, how the data is maintained / transmitted, and other security-related features incorporated in the device, as appropriate. The field "Other Security Considerations" allows the manufacturer to add some general security considerations.

PLEASE BE ADVISED—An indication of a device's ability to perform any listed function (i.e., a "Yes" answer) is not an implicit or explicit endorsement or authorization by the manufacturer to configure the device or cause the device to perform those listed functions.

It is important to distinguish between capability and permission. The questions contained on the MDS² form refer to device capability. Permission is a contractual matter separate from the MDS² form and is not covered by the MDS² form. Making changes to a device without explicit manufacturer authorization may have significant contractual, regulatory and liability issues.

1.1.2 Section 2 – Explanatory notes

The optional section 2 of the MDS² form contains space for explanatory notes if the manufacturer needs more space to explain specific details to the answers on questions 1-19.

NOTE—Agfa HealthCare may elect to attach supplementary material if additional space for recommended practices or explanatory notes is necessary.

1.2 THE ROLE OF HEALTHCARE PROVIDERS IN THE SECURITY MANAGEMENT PROCESS

It is the obligation of the users of the MDS² form (e.g., the healthcare provider) to employ all necessary and appropriate safeguards to meet their regulatory and organizational requirements. The MDS² document is intended to assist healthcare providers in meeting their regulatory obligations regarding device security. The healthcare provider organization (e.g., a hospital) has the ultimate responsibility for providing effective security management. Agfa HealthCare can assist providers in their security management programs by offering information describing:

- the type of data maintained / transmitted by the manufacturer's product;
- how data is maintained / transmitted by the manufacturer's product;
- any security-related features incorporated in the manufacturer's product.



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In order to effectively manage medical information security and comply with relevant regulations, healthcare providers must employ ADMINISTRATIVE, PHYSICAL and TECHNICAL SAFEGUARDS—most of which are extrinsic to the actual device

1.3 DEFINITIONS

Administrative Safeguards: Administrative actions, policies, and procedures to manage the selection, development, implementation, and maintenance of security measures to protect electronic Protected Health Information and to manage the conduct of the covered entity's workforce in relation to the protection of that information. [45 CFR Part 164]

Anti-Virus Software: See VIRUS SCANNER

Audit trail: Data collected and potentially used to facilitate a security audit [45 CFR Part 142]

Biometric ID: A biometric identification system identifies a human from a measurement of a physical feature or repeatable action of the individual (e.g., hand geometry, retinal scan, iris scan, fingerprint patterns, facial characteristics, DNA sequence characteristics, voice prints, handwritten signature). [45 CFR Part 142]

Electronic Media: (1) Electronic storage media, including memory devices in computers (hard drives) and any removable/transportable digital memory media, such as magnetic tapes or disks, optical disks, or digital memory cards. (2) Transmission media used to exchange information already in electronic storage media, including, for example, the Internet (wide open), extranet (using Internet technology to link a business with information accessible only to collaborating parties), leased lines, dial-up lines, and private networks, and the physical movement of removable/transportable electronic storage media. Certain transmissions, including of paper via facsimile and of voice via telephone, are not considered to be transmissions via electronic media because the information being exchanged did not exist in electronic form before the transmission. [45 CFR Part 160.103]

Electronic Protected Health Information (ePHI): individually identifiable health information (IIHI) that is (1) transmitted by or (2) maintained in electronic media. [45 CFR Part 160.103]

Individually Identifiable Health Information (IIHI): Individually identifiable health information is information that is a subset of health information, including demographic information collected from an individual, and: (1) Is created or received by a health care provider, health plan, employer, or health care clearinghouse; and (2) Relates to the past, present, or future physical or mental health or condition of an individual; the provision of health care to an individual; or the past, present, or future payment for the provision of health care to an individual; and (i) That identifies the individual; or (ii) With respect to which there is a reasonable basis to believe the information can be used to identify the individual. [45 CFR Part 160.103].

Personal Identification Number (PIN): A number or code assigned to an individual and used to provide verification of identity. [45 CFR Part 142]

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Physical Safeguards: The physical measures, policies, and procedures to protect a covered entity's electronic information systems and related buildings and equipment from natural and environmental hazards and unauthorized intrusion. [45 CFR Part 164]

Remote Service: A support service (e.g., testing, diagnostics, software upgrades) while not physically or directly connected to the device (e.g., remote access via modem, network, Internet).

Removable Media: See ELECTRONIC MEDIA

Security Risk Analysis: Conducting an accurate and thorough assessment of the potential risks and vulnerabilities to the integrity, availability, and confidentiality of electronic protected health information. [45 CFR Part 164]

Security Risk Management: (1) The ongoing process of assessing risk, taking steps to reduce risk to an acceptable level, and maintaining that level of risk. [NIST SP 800-26] (2) Security measures sufficient to reduce risks and vulnerabilities to a reasonable and appropriate level. [45 CFR Part 164]

Technical Safeguards: The technology, policies, and procedures to protect electronic Protected Health Information and control access to it. [45 CFR Part 164]

Token: A physical authentication device that the user carries (e.g., smartcard, SecureIDtm, etc.). Often combined with a PIN to provide a two-factor authentication method that is generally thought of as superior to simple password authentication.

Virus: In general, computer code that is either:

- (1) A type of programmed threat—a code fragment (not an independent program) that reproduces by attaching to another program. It may damage data directly, or it may degrade system performance by taking over system resources, which are then not available to authorized users.
- (2) Code embedded within a program that causes a copy of itself to be inserted in one or more other programs; in addition to propagation, the virus usually performs some unwanted function. [45 CFR Part 164]

Virus scanner: A computer program ("ANTI-VIRUS SOFTWARE") that detects a VIRUS computer program, or other kind of malware (e.g., worms and Trojans), warns of its presence, and attempts to prevent it from affecting the protected computer. Malware often results in undesired side effects generally unanticipated by the user.)

Vulnerability: A flaw or weakness in system procedures, design, implementation, or internal controls that could be exercised (accidentally triggered or intentionally exploited) and result in a security breach or a violation of the system's security policy. [NIST SP 800-30]

ARCRONYMS

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CD: Compact Disk

CF: Compact Flash

DVD: Digital Versatile Disk

IP: Internet Protocol

LAN: Local Area Network

ROM: Read Only Memory

SD: Secure Digital

USB: Universal Serial Bus

VPN: Virtual Private Network

WAN: Wide Area Network

WiFi: Wireless Fidelity

Manufacturer Disclosure Statement for Device Security

Section 2 MDS² FORM

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Manufacturer Disclosure Statement for Medical Device Security - MDS ²							
Device Category [†] Medical device software		Manufacturer [†] Agfa HealthCare		Document ID		Document Release Date	
Device Model IMPAX		Software Revision 6.4		Software Release Date			
Manufacturer or Name Alex Reis Representative Contact Information:		Title Software A Product Archited Lead				loo Research and opment	
Company Name Agf		HealthCare Telephone # 51 x2369		9 746 6210	e-mail	alex.reis@agfa.com	
1. Can this device transmit 2. Types of ePHI data elem a. Demographic (e.g. b. Medical record (e.g. c. Diagnostic/therape d. Open, unstructured 3. Maintaining ePHI: Can th a. Maintain ePHI temp b. Store ePHI persiste c. Import/export ePH 4. Mechanisms used for the a. Display ePHI (e.g., b. Generate hardcopy c. Retrieve ePHI from d. Transmit/receive o e. Transmit/receive e f. Transmit/receive e g. Other ADMINISTRATIVE SAFEGUAR	nor maintain electronicents that can be main, name, address, loca p., medical record #, a utic (e.g., photo/radio dext entered by device porarily in volatile meently on local media?. I with other systems? It with other systems? It wideo display)? reports or images co or record ePHI to rerer import/export ePHI PHI via a network cor PHI via an integrated	TH INFORMATION (ePHI) As defice Protected Health Information intained by the device: tion, unique identification numbers account #, test or treatment date ograph, test results, or physiologice user/operator? Simory (i.e., until cleared on by provided in the content of the co	ber)?	fication number) entifying characte et)? F/SD card, memorerial port, USB, Firet)? erred)? rred)? ?	? eristics) ry stick) eWire)?	Yes	
Client: Windows XP (x86 SP1 Application Server: Wind	5) Professional SP3, W dows 2003 Server R2	ng version number) are used b Vindows Vista (x86, x64) Home SP2, Standard or Enterprise Ec 64) R2 SP2 Standard or Enterpi	Basic, Home Pre	emium, Business,	Enterp	orise, and Ultimate	
PHYSICAL SAFEGUARDS 7. Are all device components maintaining ePHI (other than removable media) physically secure (i.e., cannot remove without tools)? Yes 8. Does the device have an integral data backup capability (i.e., backup onto removable media such as tape, disk)?							
11. Can the device be service a. Can the device resi b. Can the device log c. Can security patche	red remotely (i.e., main trict remote access to provide an audit trail es or other software b	the device manufacturer be instance activities performed by serest specific devices or network locus of remote-service activity? be installed remotely?	rvice person via net cations (e.g., spe	work or remote cor cific IP addresses	nection)	? .Yes Yes	

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		Manufacturer Disclosure Statement for Medical Device Security -	- MDS ²
	a. b. c. d.	Apply device manufacturer-validated security patches? Install or update antivirus software? Update virus definitions on manufacturer-installed antivirus software? Obtain administrative privileges (e.g., access operating system or application via local root or admin account)?	Yes Yes Yes
14.	Are	s the device support user/operator specific ID <i>and</i> password?	
13.	a. b. c. d.	Viewing of ePHI? Import/export or transmittal/receipt of ePHI?	Yes Yes
16. 17.		s the device incorporate an emergency access ("break-glass") feature that logs each instance of use? the device maintain ePHI (e.g., by internal battery) during power service interruptions?	
18.	Cont a. b. c.	trols when exchanging ePHI with other devices: Transmitted only via a physically secure connection (e.g., dedicated cable)? Encrypted prior to transmission via a network or removable media? Restricted to a fixed list of network addresses (i.e., host-based access control list)?	Yes
19.	Does	s 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).

Manufacturer Disclosure Statement for Medical Device Security - MDS²

2.1.1 RECOMMENDED SECURITY PRACTICES

Introduction

This is a cumulative effort based on past experience with earlier previous systems, Security Seminars and direct input from Military sites.

System Hardening

- Verify System Operation Prior to Hardening
- Backup Procedure Prior to Hardening
- Procedure For Back out Purposes Only
- Database Hardening Procedures
- Manually complete remaining lockdown of script tasks
- Operating System Hardening Procedure
- Internet Information Server Hardening Procedure

PASSWORD MANAGEMENT

- Password protect the classes/admin directory
- Update Web services, system and user account passwords

ACCESS CONTROL

- Configure to auto logoff user
- Configure access to confidential information (VIP Studies via Confidentiality Code)
- Configure Web services for encryption



SECTION 2					
EXPLANATORY NOTES (from questions $1 - 19$) IMPORTANT: Refer to Section 1.2.2 of the Instructions for this form for the proper interpretation of information requested in this form).					
1. Communication between IMPAX Client and Server can be wireless. Receiving and transmitting data wirelessly is possible if enabled by the hardware however, it is not a standard configuration.					
2. Software can be installed on client workstations. No other software is allowed to be installed on servers.					
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