

Technical Information Report



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AAMI/IEC TIR80001-2-8: 2016

Application of risk management for IT networks incorporating medical devices—Part 2-8: Application guidance—Guidance on standards for establishing the security capabilities identified in IEC 80001-2-2

A Technical Report prepared by AAMI and registered with ANSI

AAMI/IEC TR80001-2-8:2016



Application of risk management for IT networks incorporating medical devices—Part 2-8: Application guidance—Guidance on standards for establishing the security capabilities identified in IEC 80001-2-2

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Abstract: This technical report provides guidance for the application of the framework outlined in AAMI/IEC 80001-2-2. Managing the RISK in connecting MEDICAL DEVICES to IT-networks requires the disclosure of security-related capabilities and RISKS. AAMI/IEC 80001-2-2 presents a framework for this disclosure and the security dialog that surrounds the AAMI/IEC 80001-1 RISK MANAGEMENT of IT-networks. AAMI/IEC 80001-2-2 presents an informative set of common, descriptive security-related capabilities that are useful in terms of gaining an understanding of user needs. This report addresses each of the SECURITY CAPABILITIES and identifies SECURITY CONTROLS for consideration by all stakeholders during RISK MANAGEMENT activities, supplier selection, device selection etc.

Keywords: medical device, security, IT networks



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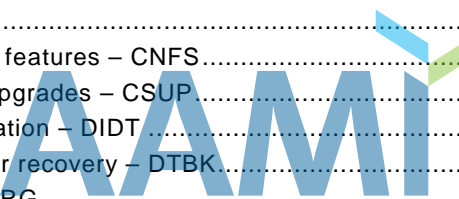
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Comments on this technical information report are invited and should be sent to AAMI, Attn: Standards Department, 4301 N. Fairfax Drive, Suite 301, Arlington, VA 22203-1633.

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Committee representation

Association for the Advancement of Medical Instrumentation Information Technology Networks Work Group

The publication of AAMI/IEC TR 80001-2-8 as a new American National Technical Report was initiated by the AAMI Information Technology Networks Work Group who provides US comments to the 80001 series via the International Organization for Standardization (ISO) ISO/TC215 – IEC/SC62A JWG7 committee.

At the time this document was published, the **AAMI Information Technology Networks** had the following members:

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Foreword

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IEC 80001-2-8, which is a technical report, has been prepared by subcommittee 62A: Common aspects of electrical equipment used in medical practice, of IEC technical committee 62: Electrical equipment in medical practice, and ISO technical committee 215: Health informatics. 1)

It is published as a double logo technical report.

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The text of this technical report is based on the following documents of IEC:

Enquiry draft	Report on voting
62A/1018/DTR	62A/1043A/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table. In ISO, the standard has been approved by 14 P-members out of 31 having cast a vote.

This publication has been drafted in accordance with the ISO IEC Directives, Part 2.

Terms used throughout this technical report that have been defined in Clause 3 appear in SMALL CAPITALS.

A list of all parts of the IEC 80001 series, published under the general title *Application of risk management for it-networks incorporating medical devices*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.



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Introduction

The IEC 80001-1 standard, *the Application of risk management to IT-networks incorporating medical devices*, provides the roles, responsibilities and activities necessary for RISK MANAGEMENT. IEC TR 80001-2-2, *the Application of risk management for IT-networks incorporating medical devices – Part 2-2: Guidance for the disclosure and communication of medical device security needs, risks and controls* is a technical report that provides additional guidance in relation to how SECURITY CAPABILITIES might be referenced (disclosed and discussed) in both the RISK MANAGEMENT PROCESS and stakeholder communications and agreements. This technical report provides guidance for the establishment of each of the SECURITY CAPABILITIES presented in IEC TR 80001-2-2.

IEC TR 80001-2-2 contains an informative set of common, descriptive SECURITY CAPABILITIES intended to be the starting point for a security-centric discussion between the vendor and purchaser or among a larger group of stakeholders involved in a MEDICAL DEVICE IT-NETWORK project. Scalability is possible across a range of different sizes of RESPONSIBLE ORGANIZATIONS (henceforth called healthcare delivery organizations – HDOs) as each evaluates RISK using the SECURITY CAPABILITIES and decides what to include or not to include according to their RISK tolerance and available resources. This documentation can be used by HDOs as input to their IEC 80001 PROCESS or to form the basis of RESPONSIBILITY AGREEMENTS among stakeholders. Other IEC 80001 technical reports will provide step-by-step guidance in the RISK MANAGEMENT PROCESS. IEC TR 80001-2-2 SECURITY CAPABILITIES encourage the disclosure of more detailed SECURITY CONTROLS. This technical report identifies SECURITY CONTROLS from key security standards which aim to provide guidance to a RESPONSIBLE ORGANIZATION when adapting the framework outlined in IEC TR 80001-2-2.

The framework outlined in IEC TR 80001-2-2 requires shared responsibility between HDOs and MEDICAL DEVICE manufacturers (MDMs). Similarly, this guidance applies to both stakeholders, as a shared responsibility, to ensure safe MEDICAL DEVICE IT networks. In order to build a secure MEDICAL DEVICE IT network a joint effort from both stakeholders is required.

A SECURITY CAPABILITY, as defined in IEC TR 80001-2-2, represents a broad category of technical, administrative and/or organizational SECURITY CONTROLS²⁾ required to manage RISKS to confidentiality, integrity, availability and accountability of data and systems. This document presents these categories of SECURITY CONTROLS prescribed for a system and the operational environment to establish SECURITY CAPABILITIES to protect the confidentiality, integrity, availability and accountability of data and systems. The SECURITY CONTROLS support the maintenance of confidentiality and the protection from malicious intrusion that might lead to compromises in integrity or system/data availability. The SECURITY CONTROLS for each SECURITY CAPABILITY can be added to as the need arises³⁾. Controls are intended to protect both data and systems but special attention is given to the protection of both PRIVATE DATA and its subset called HEALTH DATA.

In addition to providing a basis for discussing RISK and respective roles and responsibilities toward RISK MANAGEMENT, this report is intended to supply:

- a) Health Delivery Organizations (HDOs) with a catalogue of management, operational and administrative SECURITY CONTROLS to maintain the EFFECTIVENESS of a SECURITY CAPABILITY for a MEDICAL DEVICE on a MEDICAL DEVICE IT-NETWORK;
- b) MEDICAL DEVICE manufacturers (MDMs) with a catalogue of technical SECURITY CONTROLS for the establishment of each of the 19 SECURITY CAPABILITIES.

This report presents the 19 SECURITY CAPABILITIES, their respective “requirement goal” and “user need” (identical to that in IEC TR 80001-2-2) with a corresponding list of SECURITY CONTROLS from a number of

2) For the purpose of consistency throughout this report, the term SECURITY CONTROLS refers to the technical, administrative and organizational controls/safeguards prescribed to establish SECURITY CAPABILITIES.

3) The selection of SECURITY CAPABILITIES and SECURITY CONTROLS will vary due to the diversity of MEDICAL DEVICE products and context in relation to environment and INTENDED USE. Therefore, this technical report is not intended as a “one size fits all” solution.

security standards. The security standards used for mapping SECURITY CONTROLS to SECURITY CAPABILITIES include⁴⁾:

- NIST SP 800-53, Revision 4, *Recommended Security Controls for Federal Information Systems and Organizations*

NIST Special Publication 800-53 covers the steps in the RISK MANAGEMENT Framework that address SECURITY CONTROL selection for federal information systems in accordance with the security requirements in Federal Information Processing Standard (FIPS) 200. This includes selecting an initial set of baseline SECURITY CONTROLS based on a FIPS 199 worst-case impact analysis, tailoring the baseline SECURITY CONTROLS, and supplementing the SECURITY CONTROLS based on an organizational assessment of RISK. The security rules cover 17 areas including access control, incident response, business continuity, and disaster recoverability.

- ISO IEC 15408-2:2008, *Information technology – Security techniques – Evaluation criteria for IT security – Part 2: Security functional components*

This standard defines the content and presentation of the security functional requirements to be assessed in a security evaluation using ISO IEC 15408. It contains a comprehensive catalogue of predefined security functional components that will fulfil the most common security needs of the marketplace. These are organized using a hierarchical structure of classes, families and components, and supported by comprehensive user notes.

This standard also provides guidance on the specification of customized security requirements where no suitable predefined security functional components exist.

- ISO IEC 15408-3:2008, *Information technology – Security techniques – Evaluation criteria for IT security – Part 3: Security assurance components*

This standard defines the assurance requirements of the evaluation criteria. It includes the evaluation assurance levels that define a scale for measuring assurance for component targets of evaluation (TOEs), the composed assurance packages that define a scale for measuring assurance for composed TOEs, the individual assurance components from which the assurance levels and packages are composed, and the criteria for evaluation of protection profiles and security targets.

This standard defines the content and presentation of the assurance requirements in the form of assurance classes, families and components and provides guidance on the organization of new assurance requirements. The assurance components within the assurance families are presented in a hierarchical order.

- IEC 62443-3-3:2013, *Industrial communication networks – Network and system security – Part 3-3: System security requirements and security levels*

This standard provides detailed technical control system requirements (SRs) associated with the seven foundational requirements (FRs) described in IEC TS 62443-1-1 including defining the requirements for control system capability security levels, SL-C (control system). These requirements would be used by various members of the industrial automation and control system (IACS) community along with the defined zones and conduits for the system under consideration (SuC) while developing the appropriate control system target SL, SL-T(control system), for a specific asset.

- ISO IEC 27002:2013, *Information technology – Security techniques – Code of practice for information security controls*

This standard outlines guidelines for organizational information security standards and information security management practices including the selection, implementation and management of controls taking into consideration the organization's information security RISK environment(s). It is designed to be used by organizations that intend to:

- 1) select controls within the PROCESS of implementing a MEDICAL DEVICE system based on ISO IEC 27001;
- 2) implement commonly accepted information SECURITY CONTROLS;
- 3) develop their own information security management guidelines.

⁴⁾ The selection of security standards used in this technical report does not represent an exhaustive list of all potentially useful standards.

- ISO 27799:—⁵⁾, *Health informatics – Information security management in health using ISO IEC 27002*

This standard defines guidelines to support the interpretation and implementation in health informatics of ISO IEC 27002 and is a companion to that standard.

It specifies a set of detailed controls for managing health information security and provides health information security best practice guidelines. By implementing this International Standard, HDOs and other custodians of health information will be able to ensure a minimum requisite level of security that is appropriate to their organization's circumstances and that will maintain the confidentiality, integrity and availability of personal health information.



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Application of risk management for it-networks incorporating medical devices—Part 2-8: Application guidance—Guidance on standards for establishing the security capabilities identified in IEC TR 80001-2-2

1 Scope

This part of IEC 80001, which is a Technical Report, provides guidance to Health Delivery Organizations (HDOs) and MEDICAL DEVICE manufacturers (MDMs) for the application of the framework outlined in IEC TR 80001-2-2. Managing the RISK in connecting MEDICAL DEVICES to IT-NETWORKS requires the disclosure of security-related capabilities and RISKS. IEC TR 80001-2-2 presents a framework for this disclosure and the security dialog that surrounds the IEC 80001-1 RISK MANAGEMENT of IT-NETWORKS. IEC TR 80001-2-2 presents an informative set of common, descriptive security-related capabilities that are useful in terms of gaining an understanding of user needs. This report addresses each of the SECURITY CAPABILITIES and identifies SECURITY CONTROLS for consideration by HDOs and MDMs during RISK MANAGEMENT activities, supplier selection, device selection, device implementation, operation etc.

It is not intended that the security standards referenced herein are exhaustive of all useful standards; rather, the purpose of this technical report is to identify SECURITY CONTROLS, which exist in these particular security standards (listed in the introduction of this technical report), that apply to each of the SECURITY CAPABILITIES.

This report provides guidance to HDOs and MDMs for the selection and implementation of management, operational, administrative and technical SECURITY CONTROLS to protect the confidentiality, integrity, availability and accountability of data and systems during development, operation and disposal.

All 19 SECURITY CAPABILITIES are not required in every case and the identified SECURITY CAPABILITIES included in this report should not be considered exhaustive in nature. The selection of SECURITY CAPABILITIES and SECURITY CONTROLS should be based on the RISK EVALUATION and the RISK tolerance with consideration for protection of patient SAFETY, life and health. INTENDED USE, operational environment, network structure and local factors should also determine which SECURITY CAPABILITIES are necessary and which SECURITY CONTROLS most suitably assist in establishing that SECURITY CAPABILITY.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 80001-1:2010, *Application of risk management for IT-networks incorporating medical devices – Part 1: Roles, responsibilities and activities*

IEC TR 80001-2-2:2012, *Application of risk management for IT-networks incorporating medical devices – Part 2-2: Guidance for the communication of medical device security needs, risks and controls*⁶⁾

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

⁶⁾ IEC TR 80001-2-2 contains many additional standards, policies and reference materials which are also indispensable for the application of this Technical Report.