SLOVENSKI STANDARD
SIST EN ISO 11073-10408:2011

01-maj-2011

Zdravstvena informatika - Komunikacija osebnih medicinskih naprav - 10408. del: Specialne naprave - Termometer (ISO/IEEE11073-10408:2010)

Health informatics - Personal health device communication - Part 10408: Device specialization - Thermometer (ISO/IEEE11073-10408:2010)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 10408: Gerätespezifikation - Thermometer (ISO/IEEE 11073-10408:2010)

Informatique de santé - Communication entre dispositifs de santé personnels - Partie 10408: Spécialisation des dispositifs - Thermomètre (ISO/IEEE 11073-10408:2010)

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35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology

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EUROPEAN STANDARD

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EN ISO 11073-10408

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ICS 35.240.80

English Version

Health informatics - Personal health device communication - Part 10408: Device specialization - Thermometer (ISO/IEEE 11073-10408:2010)

Informatique de santé - Communication entre dispositifs de santé personnels - Partie 10408: Spécialisation des dispositifs - Thermomètre (ISO/IEEE 11073-10408:2010)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 10408: Gerätespezifikation - Thermometer (ISO/IEEE 11073-10408:2010)

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Contents

Page

Foreword

The text of ISO/IEEE 11073-10408:2010 has been prepared by Technical Committee ISO/TC 215 “Health informatics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11073-10408:2011 by Technical Committee CEN/TC 251 “Health informatics” the secretariat of which is held by NEN.

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INTERNATIONAL STANDARD

ISO/IEEE 11073-10408

First edition
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Health informatics — Personal health device communication —

Part 10408: Device specialization — Thermometer

Informatique de santé — Communication entre dispositifs de santé personnels —

Partie 10408: Spécialisation des dispositifs — Thermomètre

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Contents

Page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

IEEE Standards documents are developed within the IEEE Societies and the Standards Coordinating Committees of the IEEE Standards Association (IEEE-SA) Standards Board. The IEEE develops its standards through a consensus development process, approved by the American National Standards Institute, which brings together volunteers representing varied viewpoints and interests to achieve the final product. Volunteers are not necessarily members of the Institute and serve without compensation. While the IEEE administers the process and establishes rules to promote fairness in the consensus development process, the IEEE does not independently evaluate, test, or verify the accuracy of any of the information contained in its standards.

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ISO/IEEE 11073-10408 was prepared by the 11073 Committee of the Engineering in Medicine and Biology Society of the IEEE (as IEEE Std 11073-10408-2008). It was adopted by Technical Committee ISO/TC 215, *Health informatics*, in parallel with its approval by the ISO member bodies, under the “fast-track procedure” defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE. Both parties are responsible for the maintenance of this document.

ISO/IEEE 11073 consists of the following parts, under the general title *Health informatics — Personal health device communication (text in parentheses gives a variant of subtitle)*:

— *Part 10101: (Point-of-care medical device communication) Nomenclature*

— *Part 10201: Domain information model*

— *Part 10404: Device specialization — Pulse oximeter*

— *Part 10407: Device specialization — Blood pressure monitor*

— *Part 10408: (Point-of-care medical device communication) Device specialization — Thermometer*

— *Part 10415: (Point-of-care medical device communication) Device specialization — Weighing scale*

— *Part 10417: Device specialization — Glucose meter*

— *Part 10471: (Point-of-care medical device communication) Device specialization — Independant living activity hub*

— *Part 20101: (Point-of-care medical device communication) Application profiles — Base standard*

— *Part 20601: (Point-of-care medical device communication) Application profile — Optimized exchange protocol*

— *Part 30200: (Point-of-care medical device communication) Transport profile — Cable connected*

— *Part 30300: (Point-of-care medical device communication) Transport profile — Infrared wireless*

Introduction

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. This document uses the optimized framework created in IEEE Std 11073-20601[a] and describes a specific, interoperable communication approach for weighing scales. These standards align with, and draw upon, the existing clinically focused standards to provide support for communication of data from clinical or personal health devices.

[a] For information on references, see Clause 2.

Health informatics — Personal health device communication —

Part 10408: Device specialization — Thermometer

1. Overview

1.1 Scope

Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard establishes a normative definition of communication between personal telehealth thermometer devices and compute engines (e.g., cell phones, personal computers, personal health appliances, and set top boxes) in a manner that enables plug-and-play interoperability. It leverages appropriate portions of existing standards, including ISO/IEEE 11073 terminology, information models, application profile standards, and transport standards. It specifies the use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability. This standard defines a common core of communication functionality for personal telehealth thermometers.

1.2 Purpose

This standard addresses a need for an openly defined, independent standard for controlling information exchange to and from personal health devices and compute engines (e.g., cell phones, personal computers, personal health appliances, and set top boxes). Interoperability is the key to growing the potential market for these devices and to enabling people to be better informed participants in the management of their health.