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**Zdravstvena informatika - Komunikacija osebnih medicinskih naprav - 20601. del:
Profil aplikacije - Optimalni protokol izmenjave podatkov
(ISO/IEEE 11073-20601:2010)**

Health informatics - Personal health device communication - Part 20601: Application profile - Optimized exchange protocol (ISO/IEEE 11073-20601:2010)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 20601: Anwendungsprofil - Optimiertes Datenübertragungsprotokoll (ISO/IEEE 11073-20601:2010) (standards.iteh.ai)

Informatique de santé - Communication entre dispositifs de santé personnels - Partie 20601: Profil d'application - Protocole d'échange optimisé (ISO/IEEE 11073-20601:2010)

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ICS:

35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology
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**Health informatics - Personal health device communication -
Part 20601: Application profile - Optimized exchange protocol
(ISO/IEEE 11073-20601:2010)**

Informatique de santé - Communication entre dispositifs de
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Medizinische Informatik - Kommunikation von Geräten für
die persönliche Gesundheit - Teil 20601: Anwendungsprofil
- Optimiertes Datenübertragungsprotokoll (ISO/IEEE
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**Health informatics — Personal health
device communication —**

Part 20601:
**Application profile — Optimized
exchange protocol**

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*Informatique de santé — Communication entre dispositifs de santé
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Partie 20601: Profil d'application — Protocole d'échange optimisé

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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 — Independent 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*

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Introduction

ISO and IEEE 11073 standards enable communication between medical devices and external computer systems. This standard and corresponding IEEE 11073-104zz standards address a need for a simplified and optimized communication approach for personal health devices, which may or may not be regulated devices. These standards align with, and draw upon, the existing clinically focused standards to provide easy management of data from either a clinical or personal health device.

This document addresses a need for an openly defined, independent standard for converting the collected information into an interoperable transmission format so the information can be exchanged between agents and managers.

Other closely related standards include the following:

- ISO/IEEE P11073-00103 [B8]^a provides an overview of the personal health space and defines the underlying use cases and usage models.
- ISO/IEEE 11073-10101 [B12] documents the nomenclature terms that can be used.
- ISO/IEEE 11073-10201:2004 [B13] documents the extensive domain information model (DIM) leveraged by this standard.
- ISO/IEEE 11073-104zz standards define specific device specializations. For example, ISO/IEEE P11073-10404 [B9] defines how interoperable pulse oximeters work.
- ISO/IEEE 11073-20101:2004 [B14] defines the medical device encoding rules (MDER) used in this standard.

^a The numbers in brackets correspond to the numbers of the bibliography in Annex K.

Health informatics — Personal health device communication —

Part 20601:

Application profile — Optimized exchange protocol

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1. Overview

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1.1 Scope

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Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard defines a common framework for making an abstract model of personal health data available in transport-independent transfer syntax required to establish logical connections between systems and to provide presentation capabilities and services needed to perform communication tasks. The protocol is optimized to personal health usage requirements and leverages commonly used methods and tools wherever possible.

1.2 Purpose

This document addresses a need for an openly defined, independent standard for converting the information profile into an interoperable transmission format so the information can be exchanged to and from personal telehealth devices and compute engines (e.g., cell phones, personal computers, personal health appliances, and set top boxes).