

**SLOVENSKI STANDARD**  
**oSIST prEN ISO/IEEE 11073-10407:2022**  
**01-september-2022**

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**Zdravstvena informatika - Interoperabilnost naprav - 10407. del: Komunikacija osebnih medicinskih naprav - Specialne naprave - Kontrolna naprava za merjenje krvnega pritiska (ISO/IEEE/FDIS 11073-10407:2022)**

Health informatics - Device interoperability - Part 10407: Personal health device communication - Device specialization - Blood pressure monitor (ISO/IEEE/FDIS 11073-10407:2022)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 10407: Gerätespezifikation - Blutdruckmonitor (ISO/IEEE/FDIS 11073-10407:2022)

Informatique de santé - Interopérabilité des dispositifs - Partie 10407: Communication entre dispositifs de santé personnels - Spécialisation des dispositifs - Moniteur de pression sanguine (ISO/IEEE/FDIS 11073-10407:2022)

**Ta slovenski standard je istoveten z: prEN ISO/IEEE 11073-10407**

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**ICS:**

11.040.55	Diagnostična oprema	Diagnostic equipment
35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology

**oSIST prEN ISO/IEEE 11073-10407:2022 en,fr,de**



FINAL  
DRAFT

INTERNATIONAL  
STANDARD

ISO/IEEE  
FDIS  
11073-10407

ISO/TC 215

Secretariat: ANSI

Voting begins on:  
2022-06-16

Voting terminates on:  
2022-11-03

**Health informatics — Device  
interoperability —**

**Part 10407:  
Personal health device communication  
— Device specialization — Blood  
pressure monitor**

*Informatique de santé — Interopérabilité des dispositifs —*

*Partie 10407: Communication entre dispositifs de santé personnels —  
Spécialisation des dispositifs — Moniteur de pression sanguine*

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This second edition cancels and replaces the first edition (ISO/IEEE 11073-10407:2010), which has been technically revised.

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**IEEE Std 11073-10407™-2020**  
(Revision of IEEE Std 11073-10407-2008)

**Health informatics—Personal health device communication**

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

Developed by the

**IEEE 11073™ Standards Committee**  
of the  
**IEEE Engineering in Medicine and Biology Society**

Approved 30 January 2020

**IEEE SA Standards Board**

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**ISO/IEEE 11073-10407:2022(E)**

**Abstract:** 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 blood pressure monitor 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 blood pressure monitors.

**Keywords:** blood pressure monitor, IEEE 11073-10407™, medical device communication, personal health devices

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## Introduction

This introduction is not part of IEEE Std 11073-10407-2020, Health informatics—Personal health device communication—Part 10407: Device specialization—Blood pressure monitor.
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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™-2019 and describes a specific, interoperable communication approach for blood pressure monitors.<sup>a</sup> These standards align with and draw on the existing clinically focused standards to provide support for communication of data from personal health devices.

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