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Second edition 2022-12

### **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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#### Health informatics—Personal health device communication

# Part 10407: Device specialization—Blood pressure monitor

Developed by the

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**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<sup>™</sup>, 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.

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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<sup>&</sup>lt;sup>a</sup> Information on references can be found in Clause 2.

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