

SLOVENSKI STANDARD
oSIST prEN ISO/IEEE 11073-10420:2022
01-september-2022

Zdravstvena informatika - Interoperabilnost naprav - 10420. del: Komunikacija osebnih medicinskih naprav - Specialne naprave - Analizator telesne sestave (ISO/IEEE/FDIS 11073-10420:2022)

Health informatics - Device interoperability - Part 10420: Personal health device communication - Device specialization - Body composition analyzer (ISO/IEEE/FDIS 11073-10420:2022)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 10420: Gerätespezifikation - Analysegerät für die Zusammensetzung des Körpers (ISO/IEEE/FDIS 11073-10420:2022)

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Informatique de santé - Interopérabilité des dispositifs - Partie 10420: Communication entre dispositifs de santé personnels - Spécialisation de dispositif - Analyseur de composition corporelle (ISO/IEEE/FDIS 11073-10420:2022)

Ta slovenski standard je istoveten z: prEN ISO/IEEE 11073-10420

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 11073-10420:2022 en,fr,de

FINAL
DRAFT

INTERNATIONAL
STANDARD

ISO/IEEE
FDIS
11073-10420

ISO/TC 215

Secretariat: ANSI

Voting begins on:
2022-06-16

Voting terminates on:
2022-11-03

**Health informatics — Device
interoperability —**

**Part 10420:
Personal health device communication
— Device specialization — Body
composition analyzer**

Informatique de santé — Interopérabilité des dispositifs —

*Partie 10420: Communication entre dispositifs de santé personnels —
Spécialisation de dispositif — Analyseur de composition corporelle*

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Institute of Electrical and Electronics Engineers, Inc
3 Park Avenue, New York
NY 10016-5997, USA

Email: stds.ipr@ieee.org
Website: www.ieee.org

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This second edition cancels and replaces the first edition (ISO/IEEE 11073-10420:2012), which has been technically revised.

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IEEE Std 11073-10420™-2020
(Revision of IEEE Std 11073-10420-2010)

Health informatics—Device interoperability

Part 10420: Personal health device communication—Device specialization— Body composition analyzer

Developed by the

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

Approved 4 June 2020

IEEE SA Standards Board

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ISO/IEEE 11073-10420:2022(E)

Abstract: Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of the communication between personal body composition analyzer agents and managers (e.g., cell phones, personal computers, personal health appliances, set-top boxes) is established by this standard 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 to restrict optionality in base frameworks in favor of interoperability. This standard defines a common core of communication functionality for personal telehealth body composition analyzers. In this context, the phrase “body composition analyzer” is used broadly to cover analyzing devices that measure body impedances and compute the various body components including body fat from the impedance.

Keywords: body composition analyzer, IEEE 11073-10420™, medical device communication, personal health devices

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Introduction

This introduction is not part of IEEE Std 11073-10420-2020, Health informatics—Device interoperability—Part 10420: Personal health device communication—Device specialization—Body composition analyzer.

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard establishes a normative definition of the communication between body composition analyzer agents and managers (e.g., cell phones, personal computers, personal health appliances, 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 to restrict optionality in base frameworks in favor of interoperability. This standard defines a common core of communication functionality for personal telehealth body composition analyzers. In this context, the phrase “body composition analyzer” is used broadly to cover analyzing devices that measure body impedances and compute the various body components including body fat from the impedance.

The major changes in this revision include the following:

- The addition of basal metabolism numeric object, body muscle numeric object, and bioimpedance analysis method enumeration object
- The use of base offset time
- An upgrade of the baseline protocol

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