

SLOVENSKI STANDARD
oSIST prEN ISO/IEEE 11073-10441:2026
01-november-2026

**Zdravstvena informatika - Interoperabilnost naprav - 10441. del: Specialne naprave
- Naprava za spremljanje kardiovaskularne kondicije in telesne aktivnosti
(ISO/IEEE FDIS 11073-10441:2026)**

Health informatics - Device interoperability - Part 10441: Device specialization -
Cardiovascular fitness and activity monitor (ISO/IEEE FDIS 11073-10441:2026)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit -
Teil 10441: Gerätespezifikation - Monitor für die Herz-Kreislauf-Fitness und -Aktivität
(ISO/IEEE FDIS 11073-10441:2026)

Informatique de santé - Communication entre dispositifs de santé personnels - Partie
10441: Spécialisation des dispositifs - Moniteur d'activité et de forme cardiovasculaire
(ISO/IEEE FDIS 11073-10441:2026)

Ta slovenski standard je istoveten z: prEN ISO/IEEE 11073-10441

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 11073-10441:2026 en,fr,de

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FINAL DRAFT International Standard

ISO/IEEE FDIS 11073-10441

Health informatics — Device interoperability —

Part 10441: Device specialization — Cardiovascular fitness and activity monitor

ISO/TC 215

Secretariat: **ANSI**

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This second edition cancels and replaces the first edition (ISO/IEEE 11073-10441:2015), which has been technically revised.

The main changes are as follows:

- updated normative reference to refer to ISO/IEEE 11073-20601-2019;
- updated the version of this device specialization;
- updated the association details based on the new version;

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- updated the wording in 6.3 regarding the observational attributes;
- add one ICS statement regarding version of device specialization;
- added some text to 6.12 to further elaborate the DIM extensibility rule;
- updated the text in 8.5.2 regarding attribute-id-list, to be compliant with 20601-V4;
- removed the year in bibliography to represent the latest version;
- made ISO/IEEE 11073-10101 a normative reference;
- updated the wording at 1.3 and 4.1 regarding the precedence of nomenclature between ISO/IEEE 11073-10101, ISO/IEEE 11073-20601, 104zz, and this standard;
- updated the usage of nomenclature-version. Tied it with the corresponding protocol-version;
- corrected some nomenclature code values;
- added the concepts of target range of heart rate (HR), speed, and energy expended;
- added the concepts of user exercise target and health status.

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IEEE Std 11073-10441™-2025
(Revision of IEEE Std 11073-10441-2013)

Health informatics — Device interoperability

**Part 10441:
Device specialization —
Cardiovascular fitness and activity
monitor**

Developed by the

IEEE 11073 Standards Committee

of the

IEEE Engineering in Medicine and Biology Society

Approved 12 February 2025

IEEE SA Standards Board

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Abstract: Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of communication between personal telehealth cardiovascular fitness and activity monitor devices and managers (e.g., cell phones, personal computers, personal health appliances, and set top boxes) in a manner that enables plug-and-play interoperability is established in this standard. Appropriate portions of existing standards are leveraged including ISO/IEEE 11073 terminology, information models, application profile standards, and transport standards. The use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability is specified. A common core of communication functionality for personal telehealth cardiovascular fitness and activity monitor devices is defined in this standard.

Keywords: activity monitor, cardiovascular fitness, IEEE 11073-10441™, medical device communication, personal health devices

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