



# SLOVENSKI STANDARD

## SIST EN ISO 11073-20101:2005

01-november-2005

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**Zdravstvena informatika – Komunikacija medicinskih naprav na mestu oskrbe – 20101. del: Profili aplikacije – Temeljni standard (ISO/IEEE 11073-20101:2004)**

Health informatics - Point-of-care medical device communication - Part 20101: Application profiles - Base standard (ISO/IEEE 11073-20101:2004)

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Informatique de santé - Communication entre dispositifs médicaux sur le site des soins - Partie 20101: Profils d'applications - Norme de base (ISO/IEEE 11073-20101:2004)

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**ICS:**

35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 11073-20101**

August 2005

ICS 35.240.80

English Version

**Health informatics - Point-of-care medical device communication  
- Part 20101: Application profiles - Base standard (ISO/IEEE  
11073-20101:2004)**

Informatique de santé - Communication entre dispositifs médicaux sur le site des soins - Partie 20101: Profils d'applications - Norme de base (ISO/IEEE 11073-20101:2004)

Medizinische Informatik - Kommunikation patientennaher medizinischer Geräte - Teil 20101: Anwendungsprofil - Basisnorm

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**EN ISO 11073-20101:2005 (E)****Foreword**

The text of ISO/IEEE 11073-20101:2004 has been prepared by Technical Committee ISO/TC 215 "Health informatics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11073-20101:2005 by Technical Committee CEN/TC 251 "Health informatics", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

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INTERNATIONAL  
STANDARD

ISO/IEEE  
11073-20101

First edition  
2004-12-15

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**Health informatics — Point-of-care  
medical device communication —  
Part 20101:  
Application profiles — Base standard**

*Informatique de santé — Communication entre dispositifs médicaux sur le  
site des soins —  
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ISO/IEEE 11073-20101:2004(E)

**Health informatics — Point-of-care medical  
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Part 20101:  
Application profiles — Base standard**

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Approved 24 June 2004

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**Abstract:** The scope of this standard is upper layer [i.e., the International Organization for Standardization (ISO's) open systems interconnection (OSI) application, presentation layer, and session layer] services and protocols for information exchange under the ISO/IEEE 11073 standards for medical device communications (MDC). This standard is the base standard of the ISO/IEEE 11073-20000 medical device application profiles (MDAP), as harmonized through the Committee for European Normalization (CEN) and the ISO.

**Keywords:** abstract syntax, alarm, alert, communication, control, information model, medical device, object-oriented, point-of-care, POC, services

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*Print:* ISBN 0-7381-4091-0 SH95257  
*PDF:* ISBN 0-7381-4092-9 SS95257

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

A pilot project between ISO and the IEEE has been formed to develop and maintain a group of ISO/IEEE standards in the field of medical devices as approved by Council resolution 43/2000. Under this pilot project, IEEE is responsible for the development and maintenance of these standards with participation and input from ISO member bodies.

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## IEEE Introduction

This introduction is not part of ISO/IEEE 11073-20101:2004(E), Health informatics — Point-of-care medical device communication — Part 20101: Application profiles — Base standard.

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. They provide automatic and detailed electronic data capture of patient vital signs information and device operational data. The primary goals are to:

- Provide real-time plug-and-play interoperability for patient-connected medical devices
- Facilitate the efficient exchange of vital signs and medical device data, acquired at the point-of-care, in all health care environments

“Real-time” means that data from multiple devices can be retrieved, time correlated, and displayed or processed in fractions of a second. “Plug-and-play” means that all the clinician has to do is make the connection — the systems automatically detect, configure, and communicate without any other human interaction.

“Efficient exchange of medical device data” means that information that is captured at the point-of-care (e.g., patient vital signs data) can be archived, retrieved, and processed by many different types of applications without extensive software and equipment support, and without needless loss of information. The standards are especially targeted at acute and continuing care devices, such as patient monitors, ventilators, infusion pumps, ECG devices, etc. They comprise a family of standards that can be layered together to provide connectivity optimized for the specific devices being interfaced.

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At the time this standard was completed, the working group of the IEEE 1073 Standard Committee had the following membership:

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