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Health informatics - Point-of-care medical device communication - Part 30300: Transport profile - Infrared wireless (ISO/IEEE 11073-30300:2004)

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Medizinische Informatik - Kommunikation patientenaher medizinischer Geräte - Teil 30300: Transportprofil - drahtlose Infrarotübertragung

SIST EN ISO 11073-30300:2005

Informatique de santé - Communication entre dispositifs médicaux sur le site des soins - Partie 30300: Profil de transport - Faisceau infrarouge (ISO/IEEE 11073-30300:2004)

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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 11073-30300

August 2005

ICS 35.240.80

English Version

**Health informatics - Point-of-care medical device communication
- Part 30300: Transport profile - Infrared wireless (ISO/IEEE
11073-30300:2004)**

Informatique de santé - Communication entre dispositifs médicaux sur le site des soins - Partie 30300: Profil de transport - Faisceau infrarouge (ISO/IEEE 11073-30300:2004)

Medizinische Informatik - Kommunikation patientennaher medizinischer Geräte - Teil 30300: Transportprofil - drahtlose Infrarotübertragung

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EN ISO 11073-30300:2005 (E)**Foreword**

The text of ISO/IEEE 11073-30300:2004 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 11073-30300:2005 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of an identical text or by endorsement, at the latest by February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

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**Health informatics — Point-of-care
medical device communication —
Part 30300:
Transport profile — Infrared wireless**

*Informatique de santé — Communication entre dispositifs médicaux sur le
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Partie 30300: Profil de transport — Faisceau infrarouge*



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IEEE Engineering in Medicine and Biology Society

Approved 24 June 2004

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Abstract: This standard establishes a connection-oriented transport profile and physical layer suitable for medical device communications that use short-range infrared wireless. This standard defines communications services and protocols that are consistent with specifications of the Infrared Data Association (IrDA) and are optimized for point-of-care (POC) applications at or near the patient.

Keywords: access point, bedside, device interfaces, infrared, Infrared Data Association, IrDA, legacy device, medical device, medical device communications, medical information bus, MIB, patient, Simple Network Time Protocol, SNTP, point-of-care, POC, point-of-care testing, POCT, wireless

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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 11073-30300:2004(E), Health informatics — Point-of-care medical device communication — Part 30300: Transport profile — Infrared wireless.

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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