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STANDARD

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## Health informatics — Personal health device communication —

### Part 10419: Device specialization — Insulin pump

*Informatique de santé — Communication entre dispositifs de santé*

*personnels —*

*Partie 10419: Spécialisation du dispositif — Pompe à insuline*

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CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

Institute of Electrical and Electronics Engineers, Inc  
3 Park Avenue, New York  
NY 10016-5997, USA  
  
stds.ipr@ieee.org  
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This corrected version of ISO/IEEE 11073-10419:2016 incorporates the following corrections:

- corrected footers and formatting.

ISO/IEEE 11073 consists of the following parts, under the general title *Health informatics — Personal health device communication* (text in parentheses gives a variant of subtitle):

- *Part 10101: (Point-of-care medical device communication) Nomenclature*
- *Part 10102: (Point-of-care medical device communication) Nomenclature: Annotated ECG*

- *Part 10103: (Point-of-care medical device communication) Nomenclature: Implantable device, cardiac*
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- *Part 10407: Device specialization — Blood pressure monitor*
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**Health informatics—Personal health device communication**

# **Part 10419: Device Specialization— Insulin Pump**

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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 insulin pump devices and compute engines (e.g., cell phones, personal computers, personal health appliances, set top boxes) in a manner that enables plug-and-play interoperability, is established in this standard. Appropriate portions of existing standards including ISO/IEEE 11073 terminology, information models, application profile standards, and transport standards are leveraged. The use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability are specified. A common core of communication functionality for personal telehealth insulin pump devices is defined.

**Keywords:** IEEE 11073-10419™, insulin pump, medical device communication, personal health devices

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Charles R. Abbruscato  
Nabil AbuJbara  
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Jeremy Byford-Rew  
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Carole C. Carey  
Santiago Carot-Nemesio  
Randy W. Carroll  
Simon Carter  
Seungchul Chae  
Rahul Chauhan  
James Cheng  
Peggy Chien  
Chia-Chin Chong

Saeed A. Choudhary  
Jinhan Chung  
Malcolm Clarke  
John A. Cogan  
John T. Collins  
Cory Condek  
Todd H. Cooper  
David Cornejo  
Douglas Coup  
Nigel Cox  
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Tomio Crosley  
David Culp  
Allen Curtis  
Ndifor Cyril Fru  
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Eyal Dassau  
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Russell Davis  
Ed Day  
Sushil K. Deka  
Ciro de la Vega  
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Lane Desborough  
Kent Dicks  
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Xiaolian Duan  
Brian Dubreuil  
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Michihiro Enokida  
Javier Escayola Calvo  
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Bosco T. Fernandes  
Christoph Fischer  
Morten Flintrup  
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Eric Freudenthal  
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Nicolae Goga  
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Raul Gonzalez Gomez  
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## Introduction

This introduction is not part of IEEE Std 11073-10419-2015, Health informatics—Personal health device communication—Part 10419: Device Specialization—Insulin Pump.

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. This document uses the optimized framework created in ISO/IEEE 11073-20601:2010<sup>1</sup> and describes a specific, interoperable communication approach for insulin pumps. These standards align with and draw on the existing clinically focused standards to provide support for communication of data from clinical or personal health devices.

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<sup>1</sup>For information on references, see Clause 2.

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