



## Health informatics — Personal health device communication

Part 10418:

### Device specialization — International Normalized Ratio (INR) monitor

#### TECHNICAL CORRIGENDUM 1

*Informatique de santé — Communication entre dispositifs de santé personnels — Partie 10418: Spécialisation des dispositifs — Surveillance du rapport normalisé international (INR)*

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEEE 11073-10418 was prepared by the IEEE 11073 Standards Committee of the IEEE Engineering in Medicine and Biology Society (as IEEE Std 11073-10418-2014/Cor 1:2015). It was adopted by Technical Committee ISO/TC 215, *Health informatics*, in parallel with its approval by the ISO member bodies, under the “fast-track procedure” defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE. IEEE is responsible for the maintenance of this document with participation and input from ISO member bodies.

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Health informatics—Personal health device communication

# Part 10418: Device specialization— International Normalized Ratio (INR) monitor

## Corrigendum 1

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**IEEE Engineering in Medicine and Biology Society**

Approved 3 September 2015

**IEEE-SA Standards Board**

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**Abstract:** A normative definition of communication between personal telehealth International Normalized Ratio (INR) devices (agents) and managers (e.g., cell phones, personal computers, personal health appliances, and set top boxes) is established in this standard in a manner that enables plug-and-play interoperability. Work done in other ISO/IEEE 11073 standards is leveraged, including existing terminology, information profiles, 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 functionality of INR devices is defined in this standard. In the context of personal health devices, the measurement of the prothrombin time (PT) that is used to assess the level of anticoagulant therapy and its presentation as the International Normalized Ratio compared to the prothrombin time of normal blood plasma is referred to in INR monitoring. Applications of the INR monitor include the management of the therapeutic level of anticoagulant used in the treatment of a variety of conditions. The data modeling and its transport shim layer according to IEEE Std 11073-20601™-2014 are provided by this standard, and the measurement method is not specified.

This standard corrects errors that have been identified in the IEEE Std 11073-10418-2011 to make it easier to implement the standard in an interoperable fashion.

**Keywords:** IEEE 11073™, IEEE 11073-10418™, IEEE 11073-20601™, ISO/IEEE 11073-10418, ISO/IEEE 11073-20601, International Normalized Ratio (INR) monitor, medical device communication, personal health devices

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## Introduction

This introduction is not part of IEEE Std 11073-10418™-2011/Cor 1-2015, Health informatics—Personal health device communication—Part 10418: Device specialization—International Normalized Ratio (INR) monitor—Corrigendum 1.

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 medication monitoring 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. It leverages appropriate portions of existing standards including ISO/IEEE 11073 terminology and information models. It specifies the use of specific term codes, formats, and behaviors in telehealth environments restricting ambiguity in base frameworks in favor of interoperability. This standard defines a common core of communication functionality for personal telehealth INR devices. In this context, the measurement of the prothrombin time (PT) that is used to assess the level of anticoagulant therapy and its presentation as the International Normalized Ratio (INR) compared with the PT of normal blood plasma is referred to in INR monitoring. Applications of the INR monitor include the management of the therapeutic level of anticoagulant used in the treatment of a variety of conditions.

This standard corrects errors that have been identified in IEEE Std 11073-10418-2011 to make it easier to implement the standard in an interoperable fashion.

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## Health informatics—Personal health device communication

# Part 10418: Device specialization— International Normalized Ratio (INR) monitor

## Corrigendum 1

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## 5. INR monitor device concepts and modalities

*Delete the following subclause as shown:*

### ~~5.9 Device alarm conditions~~

~~This provides information on any device specific alarm conditions.~~

*Change the following index of subtitles and renumber as shown:*

### ~~5.10~~ 5.9 INR value out of bounds

### ~~5.11~~ 5.10 Extended capabilities

### ~~5.12~~ 5.11 Target level for INR

### ~~5.13~~ 5.12 Current level of medication

### ~~5.14~~ 5.13 Recommended new level of medication

### ~~5.15~~ 5.14 Context information