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IEEE Std 11073-10407™-2020
(Revision of IEEE Std 11073-10407-2008)

Health informatics—Personal health device communication

Part 10407: Device specialization—Blood pressure monitor

Developed by the

IEEE 11073™ Standards Committee
of the
IEEE Engineering in Medicine and Biology Society

Approved 30 January 2020

IEEE SA Standards Board

Abstract: Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard establishes a normative definition of communication between personal telehealth blood pressure monitor devices and compute engines (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, information models, application profile standards, and transport standards. It specifies the use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability. This standard defines a common core of communication functionality for personal telehealth blood pressure monitors.

Keywords: blood pressure monitor, IEEE 11073-10407™, medical device communication, personal health devices

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Introduction

This introduction is not part of IEEE Std 11073-10407-2020, Health informatics—Personal health device communication—Part 10407: Device specialization—Blood pressure monitor.

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. This document uses the optimized framework created in IEEE Std 11073-20601™-2019 and describes a specific, interoperable communication approach for blood pressure monitors.[a] These standards align with and draw on the existing clinically focused standards to provide support for communication of data from personal health devices.

[a] Information on references can be found in Clause 2.

Contents

1. Overview 12
1.1 Scope 12
1.2 Purpose 12
1.3 Word usage 12
1.4 Context 13

2. Normative references....13

3. Definitions, acronyms, and abbreviations 14
3.1 Definitions 14
3.2 Acronyms and abbreviations 15

4. Introduction to ISO/IEEE 11073 personal health devices 15
4.1 General 15
4.2 Introduction to IEEE 11073-20601 modeling constructs 16
4.3 Compliance with other standards....17

5. Blood pressure monitor device concepts and modalities....17
5.1 General 17
5.2 Systolic and diastolic pressure....18
5.3 Mean arterial pressure....18
5.4 Pulse rate 18
5.5 Blood pressure measurement status....18

6. Blood pressure monitor domain information model....18
6.1 Overview 18
6.2 Class extensions....18
6.3 Object instance diagram 18
6.4 Types of configuration....20
6.5 Medical device system object 20
6.6 Numeric objects....25
6.7 Real-time sample array objects....30
6.8 Enumeration objects 34
6.9 PM-store objects....35
6.10 Scanner objects....35
6.11 Class extension objects....36
6.12 Blood pressure monitor information model extensibility rules....36

7. Blood pressure monitor service model 36
7.1 General 36
7.2 Object access services....36
7.3 Object access event report services 38

8. Blood pressure monitor communication model....38
8.1 Overview 38
8.2 Communication characteristics....38
8.3 Association procedure 39
8.4 Configuring procedure....41
8.5 Operating procedure 43
8.6 Time synchronization 43

9. Test associations 44
9.1 General 44
9.2 Behavior with standard configuration 44
9.3 Behavior with extended configurations 44

10. Conformance 44
10.1 Applicability 44
10.2 Conformance specification 45
10.3 Levels of conformance 45
10.4 Implementation conformance statements 45

Annex A (informative) Bibliography 51

Annex B (normative) Additional ASN.1 definitions 52
B.1 Device and sensor status bit mapping 52

Annex C (normative) Allocation of identifiers 53

Annex D (informative) Message sequence examples 55

Annex E (informative) Protocol data unit examples 57
E.1 General 57
E.2 Association information exchange 57
E.3 Configuration information exchange 60
E.4 GET MDS attributes service 63
E.5 Data reporting 65
E.6 Disassociation 66

Annex F (informative) Revision history 67