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Part 10424:

Device Specialization — Sleep Apnoea Breathing Therapy Equipment (SABTE)

Informatique de santé — Communication entre dispositifs de santé personnels

Partie 10424: Spécialisation de dispositif — Équipement de thérapie respiratoire de l'apnée du sommeil (SABTE)

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Abstract: Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of the communication between sleep apnoea breathing therapy equipment (SABTE) devices (agents) and managers (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. 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 SABTE. In this context, SABTE is defined as a device that is intended to alleviate the symptoms of a patient who suffers from sleep apnoea by delivering a therapeutic breathing pressure to the patient. SABTE is primarily used in the home health-care environment by a lay operator without direct professional supervision.

Keywords: IEEE 11073-10424™, medical device communication, personal health devices, sleep apnoea breathing therapy equipment (SABTE)

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This introduction is not part of IEEE Std 11073-10424-2014, Health informatics—Personal Health Device Communication—Part 10424: Device Specialization—Sleep Apnoea Breathing Therapy Equipment (SABTE).

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 sleep apnoea breathing therapy equipment (SABTE) devices (agents) and managers (e.g., cell phones, personal computers, personal health appliances, 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 SABTE. In this context, SABTE is defined as a device that is intended to alleviate the symptoms of a patient who suffers from sleep apnoea by delivering a therapeutic breathing pressure to the patient. SABTE is primarily used in the home health-care environment by a lay operator without direct professional supervision.

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Contents

1. Overview	1
1.1 Scope	1
1.2 Purpose	2
1.1 Context	2
2. Normative references.....	2
3. Definitions, acronyms, and abbreviations	3
3.1 Definitions	3
3.2 Acronyms and abbreviations	4
4. Introduction to ISO/IEEE 11073 personal health devices standards	5
4.1 General	5
4.2 Introduction to ISO/IEEE 11073-20601 modeling constructs	5
4.3 Compliance with other standards.....	6
5. SABTE device concepts and modalities.....	7
5.1 General	7
5.2 Compliance monitoring	10
5.3 Efficacy monitoring	11
5.4 Service monitoring	13
5.5 Device settings.....	14
5.6 Therapy settings.....	14
6. Sleep apnoea breathing therapy equipment domain information model.....	18
6.1 Overview	18
6.2 Class extensions.....	18
6.3 Object instance diagram	19
6.4 Types of configuration.....	21
6.5 Profile	21
6.6 Medical device system object	23
6.7 Numeric objects.....	29
6.8 Real-time sample array objects.....	48
6.9 Enumeration objects	50
6.10 PM-store objects	60
6.11 Scanner objects	65
6.12 Class extension objects	68
6.13 SABTE information model extensibility rules	69
7. SABTE service model	69
7.1 General	69
7.2 Object access services.....	69
7.3 Object access event report services	72
8. SABTE communication model.....	73
8.1 Overview	73
8.2 Communications characteristics	73
8.3 Association procedure	73
8.4 Configuring procedure.....	75
8.5 Operating procedure	78
8.6 Time synchronization	79

9. Test associations	79
9.1 Behavior with standard configuration.....	79
9.2 Behavior with extended configurations	79
10. Conformance	80
10.1 Applicability	80
10.2 Conformance specification	80
10.3 Levels of conformance	80
10.4 Implementation conformance statements	81
Annex A (informative) Bibliography	86
Annex B (normative) Any additional ASN.1 definitions	87
B.1 Efficacy annotations bit mapping.....	87
B.2 Compliance annotations bit mapping.....	88
B.3 PHD DM status bit mapping	88
B.4 Autostart/-stop bit mapping	89
Annex C (normative) Allocation of identifiers.....	90
C.1 General.....	90
C.2 Definitions of terms and codes.....	90
C.3 Systematic derivations of terms and codes	93
Annex D (informative) Message sequence examples.....	101
Annex E (informative) Protocol data unit examples	103
E.1 General	103
E.2 Association information exchange	103
E.3 Configuration information exchange.....	106
E.4 GET MDS attributes service	109
E.5 Data reporting.....	110
E.6 Disassociation	111

Health informatics—Personal health device communication

Part 10424: Device Specialization— Sleep Apnoea Breathing Therapy Equipment (SABTE)

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1. Overview

1.1 Scope

Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard establishes a normative definition of the communication between sleep apnoea breathing therapy equipment and managers (e.g., cell phones, personal computers, personal health appliances, 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 sleep apnoea breathing therapy equipment. In this context, sleep apnoea breathing therapy equipment are defined as devices that are intended to alleviate the symptoms of a patient who suffers from sleep apnoea by delivering a therapeutic breathing pressure to the patient. Sleep apnoea breathing therapy equipment are primarily used in the home health-care environment by a lay operator without direct professional supervision.