

11073-10424

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Project Record: 11073-10424

1.1 Project Number: 11073-10424
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Health informatics - Personal health device communication - Device specialization - Sleep apnoea breathing therapy equipment

3.1 Working Group: Personal_Health_Device (EMB/11073/PHD)

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3.2 Sponsoring Society and Committee: IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee (EMB/11073)

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 06/2013

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 05/2014

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2 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 healthcare environment by a lay operator without direct professional supervision.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This standard addresses a need for an openly defined, independent standard for controlling information exchange to and from personal health devices (agents) and managers (e.g. cell phones, personal computers, personal health appliances, set top boxes). Interoperability is the key to growing the potential market for these devices and enabling people to be better informed participants in the management of their

health.

5.5 Need for the Project: The applications for personal health devices differ sufficiently from other ISO/IEEE 11073 point of care medical devices so as to require derivative standards tailored to address the particular needs of the personal health market. Implementers of this standard will have a clear definition of what is required to implement the interoperable communication functionality for sleep apnoea breathing therapy equipment. For end users, this standard addresses a market need to provide interoperability among personal health devices and managers that interact with the collected information.

5.6 Stakeholders for the Standard: People who use personal health devices in home and mobile environments, personal health device vendors, personal health manager vendors, institutions that may ultimately receive data from these devices (e.g. hospitals, doctor offices, diet and fitness companies), payors (e.g. insurance companies), regulatory agencies (e.g. food and drug administration), telemedicine consultants and businesses.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: