

P11073-20601

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Type of Project: Revision to IEEE Standard 11073-20601-2008

PAR Request Date: 14-Oct-2011

PAR Approval Date: 07-Dec-2011

PAR Expiration Date: 31-Dec-2015

Status: PAR for a Revision to an existing IEEE Standard

Root Project: 11073-20601-2008

1.1 Project Number: P11073-20601

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Health Informatics - Personal Health Device Communication - Application Profile - Optimized Exchange Protocol

Changes in title: Standard for Health Informatics - Personal Health Device Communication - Application Profile - Optimized Exchange Protocol

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 11073TM 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: 10/2012

4.3 Projected Completion Date for Submittal to RevCom: 12/2013

5.1 Approximate number of people expected to be actively involved in the development of this project: 40

5.2 Scope: Within the context of the ISO/IEEE 11073 Personal Health Device standard family, this standard defines an optimized exchange protocol and modeling techniques to be used by implementers of personal health devices to create interoperability between device types and vendors. This standard establishes a common framework for an abstract model of personal health data available in transport independent transfer syntax required to establish logical connections between systems, provide presentation capabilities and services needed to perform communication tasks. The protocol is optimized to personal health usage requirements and leverages commonly-used methods and tools wherever possible.

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 and managers (e.g., cell phones, personal computers, personal health appliances, set top boxes). Interoperability is

Changes in scope: Within the context of the ISO/IEEE 11073 Personal Health Device standard family, this standard defines an optimized exchange protocol and modeling techniques to be used by implementers of standards personal for health devices to create interoperability between device communication, types this and project vendors. defines This standard establishes a common framework for making an abstract model of personal health data available in transport independent transfer syntax required to establish logical connections between systems, provide presentation capabilities and services needed to perform communication tasks. The protocol is optimized to personal health usage requirements and leverages commonly-used methods and tools wherever possible.

Changes in purpose: This document standard addresses a need for an openly defined, independent standard for converting controlling the information exchange profile into an interoperable transmission format so the information can be exchanged to and from personal

key to growing the potential market for these devices and enabling people to be better informed participants in the management of their health.

telehealth health devices and computer managers engines (e.g., cell phones, personal computers, personal health appliances, set top boxes). Interoperability is 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: To clarify known issues in the standard and extend the original framework to better support existing and future device specializations (IEEE 11073-104zz standards).

5.6 Stakeholders for the Standard: Stakeholders are people who use personal telehealth devices in home and mobile environments, personal telehealth device vendors, personal telehealth 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, 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 (Item Number and Explanation): 5.2-5.4:

ISO/IEEE 11073-20601:2010, Health informatics Personal health device communication Application profile Optimized Exchange Protocol

IEEE Std 11073-20601a-2010, Health informatics Personal health device communication Application Profile Optimized Exchange Protocol Amendment 1

IEEE Std 11073-10404-2008, Health in formatics Personal health device communication Device specialization Pulse Oximeter

IEEE Std 11073-10406-2011, Health informatics Personal health device communication Device specialization Basic

Electrocardiograph(ECG) (1 to 3-lead ECG)

IEEE Std 11073-10407-2008, Health informatics Personal health device communication Device specialization Blood Pressure Monitor

IEEE Std 11073-10408-2008, Health informatics Personal health device communication Device specialization Thermometer

IEEE Std 11073-10415-2008, Health informatics Personal health device communication Device specialization Weighing Scale

IEEE Std 11073-10417-2009, Health informatics Personal health device communication Device specialization Glucose meter

IEEE Std 11073-10418-2010, Health informatics Personal health device communication Device specialization International Normalized Ratio (INR) monitor

IEEE Std 11073-10420-2010, Health informatics Personal health device communication Device specialization Body composition analyzer

IEEE Std 11073-10421-2010, Health informatics Personal health device communication Device specialization Peak expiratory flow monitor (peak flow)

IEEE Std 11073-10441-2008, Health informatics Personal health device communication Device specialization Cardiovascular Fitness and Activity Monitor

IEEE Std 11073-10442-2008, Health informatics Personal health device communication Device specialization Strength fitness equipment

IEEE Std 11073-10471-2008, Health informatics Personal health device communication Device specialization Independent living activity hub

IEEE Std 11073-10472-2010, Health informatics Personal health device communication Device specialization Medication monitor

5.2: We have queued up a number of change requests from people that are implementing the standard, test and certification folks that are attempting to verify that the standard has been followed, and others who have read the standard and found ambiguities.