

11073-10471

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Type of Project: New IEEE Standard

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Status: Completed

Project Record: 11073-10471

1.1 Project Number: 11073-10471

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 - Independent living activity hub

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: 01/2008

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 05/2008

5.1 Approximate number of people expected to be actively involved in the development of this project: 30

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 independent living activity hubs 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 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 independent living activity hubs. In this context, independent living activity hubs are defined as devices that communicate with simple situation monitors (binary sensors), normalize information received from the simple environmental monitors, and provide this normalized information to one or more managers. This information can be examined (for example) to determine when a person's activities/behaviors have deviated significantly from what is normal for them such that relevant parties can be notified.

Independent living activity hubs will normalize information from the following simple situation monitors (binary sensors) for the initial release of the proposed standard: Fall sensor, motion sensor, door sensor, bed/chair occupancy sensor, light switch sensor, smoke sensor, (ambient) temperature threshold sensor, PERS (personal emergency response sensor) and enuresis sensor (bed-wetting).

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes

If yes please explain: This device specialization standard depends on the device specialization common framework for personal telehealth system standard to define the generic aspects of a device. (P11073-20601 - Standard for Health Informatics - Personal Health Device)

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 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 telehealth 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 telehealth market. Implementers of this standard will have a clear definition of what is required to implement independent living activity hubs. For end users, this standard addresses a market need to provide interoperability among personal telehealth 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), payers (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: Please reference P11073-10400: Health informatics Personal health device communication Device specialization Common framework