

# P11073-20701

---

**Submitter Email:** [stefan.schlichting@draeger.com](mailto:stefan.schlichting@draeger.com)

**Type of Project:** New IEEE Standard

**PAR Request Date:** 19-Oct-2014

**PAR Approval Date:** 10-Dec-2014

**PAR Expiration Date:** 31-Dec-2018

**Status:** PAR for a New IEEE Standard

---

**1.1 Project Number:** P11073-20701

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

---

**2.1 Title:** Standard for Service-Oriented Medical Device Exchange Architecture & Protocol Binding

---

**3.1 Working Group:** Upper\_Layer (EMB/11073/UL)

**Contact Information for Working Group Chair**

**Name:** Jan Wittenber

**Email Address:** [jan.wittenber@gmail.com](mailto:jan.wittenber@gmail.com)

**Phone:** 978-494-2439

**Contact Information for Working Group Vice-Chair**

None

---

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

**Contact Information for Sponsor Chair**

**Name:** Todd Cooper

**Email Address:** [toddcooperafc@gmail.com](mailto:toddcooperafc@gmail.com)

**Phone:** +1 858-442-9200

**Contact Information for Standards Representative**

**Name:** Elliot Sloane

**Email Address:** [ebsloane@gmail.com](mailto:ebsloane@gmail.com)

**Phone:** 215-895-2690

---

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 06/2015

**4.3 Projected Completion Date for Submittal to RevCom:** 02/2016

---

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

**5.2 Scope:** The scope of this standard is a service-oriented medical device architecture and communication protocol specification for distributed system of point-of-care medical (PoC) medical devices and medical IT systems that need to exchange data or safely control networked PoC medical devices by identifying the functional components, their communication relationships as well as the binding of the components and communication relationships to protocol specifications.

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

**If yes please explain:** - Domain Information & Service Model for service-oriented Point-of-Care medical device communication (Proposed No.: IEEE P11073-10702)

- Medical Devices Communication Profile for Web Services. (Proposed No.:IEEE P11073-20702)

**5.4 Purpose:** The standard defines an architecture for service-oriented distributed PoC medical devices and medical IT system. It defines a binding of the participant and communication model as defined in IEEE 11073-10702 to MDPWS (Medical Devices Communication Profile for Web Services) for transport over Web services. Moreover, a binding to Network Time Protocol (NTP) and Differentiated Services (DiffServ) is defined for time synchronization and transport quality-of-service requirements.

**5.5 Need for the Project:** Currently there is no part of 11073 that defines an architecture and protocol specification for communication of medical devices in an Internet Protocol (IP)-based distributed PoC medical devices and medical IT system. Hence, this project defines a profile for a service-oriented architecture and defines an implementation that fulfills the requirements of the architecture by referencing standards that

exist or are currently under development.

**5.6 Stakeholders for the Standard:** Medical device manufacturers, medical information technology companies, health care providers that use the devices, organizations that utilize these definitions (e.g., Integrating the Healthcare Enterprise (IHE))

---

**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):**