

---

**P2933**

---

**Submitter Email:** florence.distefano.hudson@gmail.com

**Type of Project:** New IEEE Standard

**Project Request Type:** Initiation / New

**PAR Request Date:** 05 Mar 2019

**PAR Approval Date:** 21 May 2019

**PAR Expiration Date:** 31 Dec 2023

**PAR Status:** Active

---

**1.1 Project Number:** P2933

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

---

**2.1 Project Title:** Standard for Clinical Internet of Things (IoT) Data and Device Interoperability with TIPPSS - Trust, Identity, Privacy, Protection, Safety, Security

---

**3.1 Working Group:** Clinical IoT Data and Device Interoperability with TIPPSS(EMB/Std Com/Clinical IoT DDI with TIPPSS)

**3.1.1 Contact Information for Working Group Chair:**

**Name:** Florence Hudson

**Email Address:** florence.distefano.hudson@gmail.com

**3.1.2 Contact Information for Working Group Vice Chair:**

**Name:** Mitchell Parker

**Email Address:** mbpark@gmail.com

**3.2 Society and Committee:** IEEE Engineering in Medicine and Biology Society/Standards Committee(EMB/Std Com)

**3.2.1 Contact Information for Standards Committee Chair:**

**Name:** Carole Carey

**Email Address:** c.carey@ieee.org

**3.2.2 Contact Information for Standards Committee Vice Chair:**

**Name:** Hasan Al-Nashash

**Email Address:** hnashash@aus.edu

**3.2.3 Contact Information for Standards Representative:**

**Name:** Carole Carey

**Email Address:** c.carey@ieee.org

---

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:** Jun 2022

**4.3 Projected Completion Date for Submittal to RevCom:** Feb 2023

---

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

**5.2 Scope of proposed standard:** This standard establishes the framework with TIPPSS principles (Trust, Identity, Privacy, Protection, Safety, Security) for Clinical Internet of Things (IoT) data and device validation and interoperability. This includes wearable clinical IoT and interoperability with healthcare systems including Electronic Health Records (EHR), Electronic Medical Records (EMR), other clinical IoT devices, in hospital devices, and future devices and connected healthcare systems.

**5.3 Is the completion of this standard contingent upon the completion of another standard?** No

**5.4 Purpose:** The purpose of this project is to enable secured data sharing in connected healthcare to improve healthcare outcomes and protect patient privacy and security.

**5.5 Need for the Project:** There needs to be a set of guidelines and standards to standardize use of clinical IoT devices for precision medicine, data sharing, interoperability, and security with a goal of improved and measurable healthcare outcomes.

**5.6 Stakeholders for the Standard:** Medical device manufacturers, hardware, software and service developers and users for connected healthcare, payers, providers, patients, patient advocates, regulatory.

---

**6.1 Intellectual Property**

**6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?**

No

**6.1.2 Is the Standards Committee 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 Is it the intent to develop this document jointly with another organization?** No

---

**8.1 Additional Explanatory Notes :** This PAR submission is a recommendation of the report created from the IEEE-SA Pre-standards workstream on "Clinical IoT Data Validation and Interoperability with Blockchain" which convened 22 active participants from government, industry and academia from August 2018 through February 2019. The report includes a draft TIPSS Architectural Framework for Clinical IoT Data Validation & Interoperability which would be a starting point to be further vetted and developed as part of this proposed standards work.

Note from NesCom Admin: The PAR number changed from P2733 to P2933