**P802.22.3**

**Submitter Email:**apurva\_mody@yahoo.com
**Type of Project:**New IEEE Standard
**PAR Request Date:**19-Mar-2014
**PAR Approval Date:**
**PAR Expiration Date:**
**Status:**Unapproved PAR, PAR for a New IEEE Standard

**1.1 Project Number:**P802.22.3
**1.2 Type of Document:**Standard
**1.3 Life Cycle:**Full Use

**2.1 Title: Part 22.3: Standard Specifying Spectrum Occupancy Sensing Measurement Devices and Means that Enable Coalescing the Results from Multiple Such Devices**

**3.1** **Working Group:**Wireless Regional Area Networks Working Group (C/LM/WG802.22)
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**3.2** **Sponsoring Society and Committee:**IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
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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:**11/2016
**4.3 Projected Completion Date for Submittal to RevCom:**10/2017

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

**5.2 Scope:**

The Spectrum Occupancy Sensing (SOS) Project creates a stand-alone system specifying measurement devices and means that enable coalescing the results from multiple such devices. The aim is to use messaging structures, interfaces and primitives that are derived from IEEE Std. 802.22-2011, and to use any on line transport mechanism to achieve the control and management of the SOS system. This standard initially specifies a device operating in the bands below 1 GHz and a second device operating from 2.7 GHz to 3.7 GHz. This standard may specify interfaces and primitives to provide value added sensing information to various spectrum sharing database services.

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

**5.4 Purpose:** The purpose is to specify operating characteristics of the spectrum sensing devices.

**5.5 Need for the Project:** This project will enable creation of low cost sensors for improved spectrum utilization and other shared spectrum applications.

**5.6 Stakeholders for the Standard:**Manufacturers and users of semiconductor, personal computer, wireless devices and sensors, consumer electronic devices, mobile devices, wireless internet service providers etc.

**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?:**Yes

1. IEEE Std. 1900.6-2011: IEEE Standard for Spectrum Sensing, Interfaces and Data Structures for Dynamic Spectrum Access and other Advanced Radio Communications Systems
2. IEEE P1900.6a: IEEE Draft Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and other Advanced Radio Communication Systems Amendment: Procedures, Protocols and Data Archive Enhanced Interfaces

**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):**