IEEE P802.22
Wireless RANs

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| Spectrum Characterization and Occupancy Sensing – draft standard contribution |
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Abstract

This document provides a contribution for the Spectrum Characterization and Occupancy Sensing TG

**Year 2017** – November 9

**November 9th 2017 – Spectrum Characterization and Occupancy Sensing contribution to draft standard**

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**Approved PAR**

This Standard defines a Spectrum Characterization and Occupancy Sensing (SCOS) System.

It specifies measurement parameters and device behaviors. It includes protocols for reporting measurement information that enable coalescing the results from multiple such devices. The standard leverages interfaces and primitives that are derived from IEEE Std. 802.22-2011, and uses any on-line transport mechanism available to achieve the control and management of the system. Interfaces and primitives are provided for conveying value added sensing information to various spectrum sharing database services. This standard specifies a device operating in the bands below 1 GHz and a second device operating from 2.7 GHz to 3.7 GHz.

**Proposed PAR**

This Standard defines a Spectrum Characterization and Occupancy Sensing (SCOS) System. It defines the formats for system configuration and spectrum measurement parameters. It includes protocols for reporting measurement information that allow the coalescing of results from multiple systems. The standard leverages interfaces and primitives that are derived from IEEE Std. 802.22-2011. It uses any available transport mechanism to control and manage the system , and to share sensing data. The standard provides means for conveying value added sensing information to various spectrum database services.