IEEE P802.22  
Wireless RANs

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| Meeting Minutes of the Spectrum Characterization and Occupancy Sensing | | | | |
| Date: 2016-09-23 | | | | |
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Abstract

This document provides the minutes of the Spectrum Characterization and Occupancy Sensing Ad-hoc held on

**Year 2016** – September 23, 2016

**1. September 23th 2016 – Spectrum Characterization and Occupancy Sensing  
Ad-Hoc Conference Call Meeting Minutes**

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1. Attendance

Apurva Mody (AM), BAE Systems

Gianni Cerro (GC), University Pegaso

Roger Hislop (RH), TG chair, Internet Solutions

John McGinn (JM), Cognitive Systems

Nilesh Khambekar (NK), University at Buffalo

Oliver Holland (OH), Kings College London

William Suriaputra (WS), Cognitive Systems

Jerry Kalke (JK), CBS

2.1 Agenda

* Attendance
* IEEE norms and processes
* Discussion
* New business

Minutes and Discussions

* Meeting started at 14h00 UTC
* The IEEE 802.22.3 Task Group Chair took the attendance
* Chair asked if everyone attending was familiar with the IEEE patent policy – No one seemed to be unfamiliar with the IEEE Patent Policy
  + <http://standards.ieee.org/board/pat/pat-slideset.pdf>
* Chair reiterated the IEEE prohibition of commercial discussion and early disclosure of Intellectual Property, and meeting commenced.
* Task Group process
  + Meeting minutes from meeting of August 26th reviewed and call for approval.
  + Moved by AM, seconded by OH, no objections, so approved.
* Task Group planning:
  + Presentation and Q&A with Oliver Holland and Bernd Bochow from IEEE P1900.6
    - More concentrating on interfaces for sensing information. How to structure info for sharing info between sensors and clients.
    - Primitives for sharing information about sensors (e..g bands they cover, antenna, etc)
    - Deosnt attempt to define the sensing system – aims to be compatible with use of spectrum sensing.
    - Client is a Cognitive Engine (or other sensros) and Data Archive
    - Gathers Sensing Information, Sensing Control Information, Sensor Information (capabilities of sensor), regulatory requirements
    - Extensively built on 1900.4 – Reviewed some of the use cases predominantly DSA, Dynamic Spectrum Sharing, distributed radio resource usage optimisation. Use cases are informative in standard.
    - Use cases have evolved – the 1900.6b has evolved from real-time sensing-centric, new draft has extended use case, more possibilities for use in spectrum databases and spectrum forensics applications.
    - Also building more on the capability to have hierarchies, with layers of sensors, gateways, managers, data stores
    - Developments in more service access points to allow distributed use with multiple users.
    - Introduction of “proxy sensor” where a sensor can act as a gateway to other sensors (which may be non-compliant/proprietary)
    - In 1900.6b there is more work being done on standardising how the data from a heterogeneous sensor environment can be interpreted and stored.
    - Originally the architecture from 1900.4 was very much client/server with embedded sensing devices. There is work being done in 1900.6 to delegate scheduling down to sensor, that they will perhaps be “smart”
    - 1900.6b looks at ability to have four different configurations of delegation, from simplest direct connection controller/sensor to one with multiple levels of proxying.
  + OH/BB shared a version of 1900.6b draft by email to RH, to be forwarded to any 802.22.3 TG members that request it.
  + Invitation was extended by 1900.6 for 802.22.3 members to present to 1900.6 group. To be discussed as to when this would be useful.
  + Plan to have Robert from VITA-49 present at next meeting.
* Meeting was adjourned at 14h30 UTC

Next meeting will be Friday 7th October.