IEEE P802.22  
Wireless RANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Minutes of the teleconference on June 13, 2011 on regional area smart grid and critical infrastructure monitoring | | | | |
| Date: 2011-06-15 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| M. Azizur Rahman | NICT | 3-4 Hikari no oka, Yokosuka, Kanagawa, Japan | +81-46-847-5060 | aziz.jp@ieee.org |

Abstract

This document presents the minutes of the teleconference on June 13, 2011 on regional area smart grid and critical infrastructure monitoring.

**WG teleconference meeting minutes**

**Notice:** This document has been prepared to assist IEEE 802.22. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

**Release:** The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.22.

**Patent Policy and Procedures:** The contributor is familiar with the IEEE 802 Patent Policy and Procedures

<[**http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf**](http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf)>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair Apurva Mody <[apurva.mody@ieee.org](mailto:apurva.mody@ieee.org)> as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.22 Working Group. **If you have questions, contact the IEEE Patent Committee Administrator at <**[**patcom@ieee.org**](mailto:patcom@ieee.org)**>**.

**June 13, 9-10:30 PM ET**

**Attendees:**

Apurva Mody (BAE Systems), Gerald Chouinard (CRC), Ivan Reede (AmeriSys), Jerry Kalke (CBS), Anthony Franklin (ETRI), Shigenobu Sasaki (Niigata University), Chang Woo Pyo (NICT), Zhang Xin (NICT), Chunyi Song (NICT), M. Azizur Rahman (NICT)

**Minutes:**

1. Meeting call to order by Apurva Mody
2. Zhang Xin presented the document 802.22-11-68r0 titled “Review of 802.16 & Comparison with 802.22 Smart Grid and Critical Infrastructure Monitoring”
3. The group passed the opinion that similar comparison with LTE would be interesting.
4. There was an opinion that the stand alone network in 802.16n couldn’t be implemented in TVWS due to the need for backhaul to connect to geolocation database
5. The advanteage of OFDMA from the perspective of high BS power over all subcarriers and low user terminal power over few sub carriers was explained. For example Canada permits 4 W transmission from user terminal that may take any power spectral density. By contrast US imposes power limit at every 100 kHz.
6. The group showed interest in a concept of a Master BS and many slave BS covering a huge area. The slave BS turns off scheduling and listens to Master BS’s scheduling. Strategic BS locations may make a huge coverage without increasing price. Packets can be reassembled in slave BS and success rate may be increased. Howevr, there are few issues such as CPE cannot lock to two BSs simultaneously. How to do freq. sync. In DS?
7. The thinks we could discuss relevant 802.11 standard projects as well as P2030 and powerline communication standards
8. It was discussed the present proposed name of the study group is too long and not convenient. A name proposal was “**White Space Regional Area Grid**”. Here grid doesn’t necessarily mean power lines, but may include such applications. Grid is akin to mesh but may be simpler. One appealing point of it is this can support alternate way of connection if the CPE to BS connection is interrupted.
9. The group needs to formally inform EC about the study group soon after the standard is approved (May be by June 16).
10. Meeting adjourned by Apurva Mody