IEEE P802.22 Wireless RANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2016 March Plenary IEEE 802.22 Working Group Minutes | | | | |
| Date: 2016-03-14 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Gabriel Villardi | NICT | Yokosuka, Japan | +81(0)46-847-5438 | gpvillardi@nict.go.jp |
| Apurva Mody | BAE Systems | Merrimack, NH | 404-819-0314 / 603-809-0459 | [apurva.mody@baesystesms.com](mailto:apurva.mody@baesystesms.com); [apurva\_mody@yahoo.com](mailto:apurva_mody@yahoo.com) |

**IEEE 802.22 Wireless Regional Area Networks**

**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 N. 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)**>**.

Abstract

This document contains the minutes of the IEEE 802.22 Working Group 2016 March Plenary Meeting held in Macau from 14th to 18th, March 2016.

**March 2016 Plenary**

**MINUTES**

##### 14th March Monday PM1 (WG Opening Plenary and Elections)

The WG chairman, Dr Mody, called the meeting to order at 1:30 PM local time. There were 7 participants (6 are voting members) in the room at the opening of the session.

WG announced that the meeting was in quorum since it was announced more than 45 days in advance.

**1.1 Approval of Agenda**

**The WG chair, Dr. Mody, explained agenda for the plenary session in Dallas.**

***Motion - Approval of Agenda***

Move to Approve the Agenda as shown in Document 22-16-0000 Rev2

(<https://mentor.ieee.org/802.22/dcn/16/22-16-0002-01-0000-ieee-802-22-wg-march-plenary-working-group-agenda.xls>)

Move: Jerry Kalke

Second: Chang-woo Pyo

For: 5 (No objection)

Against: 0

Abstain: 1

**Motion Passes**. Agenda is approved

**1.2 Approval of the minutes of the last session**

The minutes of the 802.22 November 2015 WG Plenary Meeting can be found at:

<https://mentor.ieee.org/802.22/dcn/15/22-15-0029-00-000b-2015-november-plenary-ieee-802-22-working-group-minutes.docx>

***Motion- Approval of Minutes***

Move to approve the 802.22 WG November Plenary meeting minutes held in Dallas as shown in Document 22-15-0029 Rev0

(<https://mentor.ieee.org/802.22/dcn/15/22-15-0029-00-000b-2015-november-plenary-ieee-802-22-working-group-minutes.docx>)

Move: Chang-woo Pyo

Second: Jerry Kalke

For: 4

Against: 0

Abstain: 2

**Motion Passes**. Minutes are approved

**2. Administrative Issues**

The WG Chair, Dr. Mody, reviewed the usual administrative slides on Patent Policy, Letter of Assurance, Anti-trust statement, IEEE code of ethics, etc.

The WG Chair, Dr. Mody, reminded everyone that the attendance recording is being done electronically as usual.

**1.3 Working Group and Task Group Elections**

The Secretary for the Working Group, Mr. Jerry Kalke announced that only one nomination was received thus far for the position of the Chair of the IEEE 802.22 Working Group from Dr. Apurva N. Mody.

In addition, the 802.22 WG has received interest from

Mr. Roger Hislop – Internet Solutions (South Africa) to be the Chair of the IEEE 802.22.3 Task Group on Spectrum Characterization and Occupancy Sensing (SCOS), and from Mr. Michael Cotton (National Telecommunications Information Administration, USA) to be the Vice Chair of the IEEE 802.22.3 Task Group.

**Working Group Motions**

***Motion- Election of the Chairman of the IEEE 802.22 Working Group***

The IEEE 802.22 Working Group elects Dr. Apurva N. Mody to be the Chair of the IEEE 802.22 Working group with acclamation

Move: Chang-woo Pyo

Second: Jerry Kalke

For: 5

Against: 0

Abstain: 0

**Motion Passes**

***Motion- Election of the Chairman of the IEEE 802.22.3 Spectrum Characterization and Occupancy Sensing (SCOS) Task Group***

The IEEE 802.22 Working Group elects Mr. Roger Hislop (Data Dimension, South Africa) to be the Chair of the IEEE 802.22.3 Task Group with acclamation

Move: Chang-woo Pyo

Second: Jerry Kalke

For: 5

Against: 0

Abstain: 1

**Motion Passes**

##### 15th March Tuesday AM1 – Spectrum Characterization and Occupancy Sensing

1. The WG chairman, Dr Mody, called the meeting to order at 09:00 AM local time. There were 7 participants (4 are voting members) in the room at the opening of the session.
2. The requirements for the SCOS were discussed in the WG session (Document [22-15-0008](https://mentor.ieee.org/802.22/dcn/15/22-15-0008-00-0003-scos-functional-rquirements-document.doc)).
3. Roger Hislop made a presentation on SCOS proposed work stream
4. There were questions from Dr. Reuben Salazar (Landys and Gyr), Dr. Hidetoshi Yokota (Landys and Gyr) and Dr. Ryuji Kohno (Center of Medical Information) on the similarities and difference between IEEE 802.22.3 and IEEE 802.15.4s (Spectrum Resources Usage in WPANs).
5. The Chair of IEEE 802.22 and 802.22.3 explained the scope and plans of SCOS.
6. The participants said that 802.22.3 planned to do a lot more that 802.15.4s. It would be nice for 802.22 WG to set up reciprocal attendance with 802.15 WG so that participants from 802.15.4s could attend the 802.22.3 sessions while not losing their attendance in 802.15.
7. The Chair of 802.22 said that he will talk to Dr. Bob Heile (Chair of 802.15) to make this happen.

3. The WG recessed at 10:00 local time.

##### 10th November Tuesday AM2

1. The WG chairman, Dr Mody, called the meeting to order at 11:00 AM local time. There were 5 participants (4 are voting members) in the room at the opening of the session.

2. The WG discussed the SCOS standard structure during the WG session.

3. The WG recessed at 12:00 local time.

##### 11th November Wednesday AM1

1. The WG chairman, Dr Mody, called the meeting to order at 08:00 AM local time. There were 4 participants (4 are voting members) in the room at the opening of the session.
2. The WG has revised the time line of IEEE 802.22.1 (document [802.22-15-0028](https://mentor.ieee.org/802.22/dcn/15/22-15-0028-00-0001-advanced-beacon-revised-timeline.ppt))
3. The WG has proposed the timeline of IEEE 802.22.3 (document [802.22-15-0031](https://mentor.ieee.org/802.22/dcn/15/22-15-0032-00-0003-802-22-3-schedule-and-timelines.ppt))
4. The WG recessed at 10:00 local time.

##### 11th November Wednesday AM2

1. The WG chairman, Dr Mody, called the meeting to order at 10:30 AM local time. There were 5 participants (4 are voting members) in the room at the opening of the session.

2. The WG has drafted the selection criteria for the advanced beacons system (document 802.22-15-0033).

***Motion- Motion to Approve the IEEE 802.22.1 Advanced Beaconing Functional Requirements Document***

Move to approve the IEEE 802.22.1 Advanced Beaconing Revision Project Functional Requirements Document as contained in 22-15-21rev0 (<https://mentor.ieee.org/802.22/dcn/15/22-15-0021-00-0001-advanced-beacon-functional-requirements-document.doc>).

Move: Gabriel Villardi

Second: Chang-woo Pyo

For: 4

Against: 0

Abstain: 0

**Motion Passes**.

***Motion- Motion to Approve the IEEE 802.22.1 Advanced Beaconing Selection Criteria Document***

Move to approve the IEEE 802.22.1 Advanced Beaconing Selection Criteria Document as contained in 22-15-33rev0 (<https://mentor.ieee.org/802.22/dcn/15/22-15-0033-00-0001-advanced-beacon-revision-selection-criteria.doc>).

Move: Gabriel Villardi

Second: Chang-woo Pyo

For: 4

Against: 0

Abstain: 0

**Motion Passes**.

3. The WG recessed at 12:00 local time.

##### 12th November Thursday AM1

1. The WG chairman, Dr Mody, called the meeting to order at 08:00 AM local time. There were 4 participants (4 are voting members) in the room at the opening of the session.

2. The WG group has worked on the first draft of the IEEE 802.22.3 Spectrum Characterization and Sensing (SCOS).

3. The WG recessed at 10:00 local time.

##### 16th March Thursday AM2 and Closing Plenary

1. The WG chairman, Dr Mody, called the meeting to order at 11:30 AM local time. There were 6 voting members in the room at the opening of the session. Totally 7 people.

***Motion- Election of the Vice-Chairman of the IEEE 802.22 Working Group***

The IEEE 802.22 Working Group elects Dr. Chang-woo Pyo to be the Vice-Chair of the IEEE 802.22 Working group with acclamation

Move: Roger Hislop

Second: Jerry Kalke

For: 5

Against: 0

Abstain: 0

**Motion Passes**

***[Re-cap for Information Only] Motion- Approval to Schedule Teleconference Meetings***

Move to authorize the 802.22 WG chair to schedule teleconference meetings as he sees fit to conduct the business of 802.22 WG from now until November 2016 plenary meeting.

Move: Jerry Kalke

Second: Chang-woo Pyo

For: 4

Against: 0

Abstain: 0

**Motion Passes**.

***Motion- Empower the 802.22 WG Chair to Schedule to Face to Face Meetings when Necessary***

Move to empower the 802.22 WG chair to schedule the Face to Face Meetings when necessary as long as 45 day notice is provided.

Description: The 802.22 WG is likely to meet twice per year during the Plenary Meetings for 2016. The plan is to meet during the March and November 2016 Plenary, but it may be necessary to meet in July 2016.

Move: Chang-woo Pyo

Second: Jerry Kalke

For: 3

Against: 0

Abstain: 1

**Motion Passes**.

**Macau Location Survey**

Great hotel

Macau accessibility is an issue.

Macau is expensive. Nothing much to do outside the conference environment.

**Motion– Motion to adjourn**

Move to adjourn.

Move: Jerry Kalke

Second: Chang-woo Pyo

For: 4

Against: 0

Abstain: 0

**Motion Passes.**

The group was adjourned at 14:30 pm local time on Thursday 12th November 2015.

**802.22 Attendance List March, 2015 Plenary**

|  |  |  |
| --- | --- | --- |
| **Pyo** | **Chang-Woo** | NICT, Japan |
| **Mody** | **Apurva** | BAE Systems |
| **Nikolich** | **Paul** | Self |
| **Kalke** | **Jerry** | CBS Corp. |
| Kohno | Ryuji | Center of Medical Information (Japan) |
| Hislop | Roger | Data Dimension |
| Salazar | Reuban | Landys and Gyr |
| Shellhammer | Stephen | Qualcomm |
| Shigenobu | Sasaki | Niigata University |
| Yokota | Hidetoshi | Landys and Gyr |

*Note: Participants who had voting status appear in* ***bold****.*

**ANNEX**

**Working Group Contributions can be found at** [**https://mentor.ieee.org/802.22/documents**](https://mentor.ieee.org/802.22/documents)