IEEE P802.22 Wireless RANs

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| 2017 November Plenary IEEE 802.22 Working Group Minutes |
| Date: 2017-11-0 |
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**IEEE 802.22 Wireless Regional Area Networks**

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Abstract

This document contains the minutes of the IEEE 802.22 Working Group 2017 November Plenary Meeting held in Orlando from November 5th to November 10th 2017.

**November 2017 Plenary Meeting**

**MINUTES**

##### 6th November Monday PM1 (WG Opening Plenary)

The WG chairman, Dr Mody, called the meeting to order at 1:30 PM local time. There were 5 participants (5 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 San Antonio.**

***Motion - Approval of Agenda***

Move to Approve the Agenda as shown in Document 22-17-0077 Rev1

(<https://mentor.ieee.org/802.22/dcn/17/22-17-0077-01-0000-802-22-november-plenary-agenda.xls>)

Move: Jerry Kalke

Second: Oliver Holland

For: 4

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 March 2017 WG Plenary Meeting can be found at:

<https://mentor.ieee.org/802.22/dcn/17/22-17-0053-00-0000-july-plenary-meeting-minutes.docx>

***Motion- Approval of Minutes***

Move to approve the 802.22 WG March Plenary meeting minutes held in Vancouver as shown in Document 22-17-0053 Rev0

(<https://mentor.ieee.org/802.22/dcn/17/22-17-0053-00-0000-july-plenary-meeting-minutes.docx>)

Move: Jerry Kalke

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**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.

The Chair of the Working Group asked if anyone was aware of any patents that were infringing on the 802.22 Standards. There were none.

BAE Systems notified the group that they have some patents in the spectrum sensing and spectrum management domains.

**Working Group Motions**

**6th November, Monday PM2 – 802.22 Revision**

The working group addressed and resolved the comments received during the 802.22 Working Group Letter Ballot 1.0. The comment database along with resolutions may be found in the following Document: <https://mentor.ieee.org/802.22/dcn/17/22-17-0089-00-0000-802-22-revision-comment-resolution-database.xlsx>

##### 7th November Tuesday AM1 - Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

Also had discussions of other similar standards – SigMF, WinnForum, P1900..

##### 7th November Tuesday AM2 - Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

##### 7th November Tuesday PM1 - Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

##### 7th November Tuesday PM1 – ISO/IEC/JTC1 Standing Committee

The Vice Chair of the 802.22 Working Group attended the ISO/IEC/JTC1 Standing committee.

The FDIS Letter Ballot for 802.22a and 802.22b passed and the standards have been approved as of July 2017. We need to address and respond to the comments from China National Body.

##### 8th November Wednesday AM1 – Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

##### 8th November Wednesday AM2 – Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

##### 8th November Wednesday PM1 – Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

##### 8th November Wednesday PM2 – Spectrum Characterization and Occupancy Sensing

In this session we addressed and resolved the comments from the Working Group Letter Ballot 2.

##### 9th November Thursday AM1 – IEEE 802.22 Revision

In this session we addressed and resolved the comments from the Working Group Letter Ballot 1 for the 802.22 Revision Project.

We also addressed and resolved the comments from the China NB for the 802.22b FDIS Ballot. The comment resolutions may be found in the Document: <https://mentor.ieee.org/802.22/dcn/17/22-17-0090-00-0000-802-22b-iso-iec-jtc1-comment-resolutions.docx>

##### 9th November Thursday AM2 – IEEE 802.22 Working Group Closing Plenary

At the start of the Plenary Meeting there were 5 Voting Members in the Room and one non-voting member. Tim Godfrey, the Chair of 802.24 indicated that he would like to be included in the ballot pools as an Ex-Officio member of the 802.22 WG.

***Motion – Working Group Approval for the IEEE 802.22b ISO/IEC/JTC1 FDIS Ballot Comment Resolutions***

Move to Approve the Proposed Response in regards to the ISO Approval of the IEEE 802.22b Standard to the China NB Comments as contained in Document <https://mentor.ieee.org/802.22/dcn/17/22-17-0090-00-0000-802-22b-iso-iec-jtc1-comment-resolutions.docx>

Move: Jerry Kalke

Second: Mike Cotton

Approve: 5

Disapprove: 0

Abstain: 1

***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 2018 plenary meeting.

Move: Roger Hislop

Second: Jerry Kalke

For: 5

Against: 0

Abstain: 1

**Motion Passes**.

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

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

Description: The 802.22 WG is likely to meet only during Plenary Meetings. But more interim meetings may be necessary

Move: Roger Hislop

Second: Mike Cotton

For: 5

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- 802.22.3 Third Working Group Letter Ballot***

Move to authorize the 802.22.3 Task Group Chair, and the Editor to issue the 802.22.3 Draft 3.0 on, or before February 1st 2018 based on the resolutions to the comments that were received in the Working Group Letter Ballot 2. The working authorizes the ballot resolution committee to address and resolve the comments and circulate them with the Draft 3.0 for confirmation.

Move: Roger Hislop

Second: Jerry Kalke

For: 5

Against: 0

Abstain: 1

**Motion Passes**.

Chair asked the 802.22 WG Members to report any intellectual property. There were no IP reported.

None of the members stood up to report any IP related to any of the 802.22 Standards.

***Motion- 802.22 Second Working Group Letter Ballot***

Move to authorize the 802.22 Working Group Chair, and the Editor to issue the 802.22 Draft 2.0 on, or before February 1st 2018 based on the resolutions to the comments that were received in the Working Group Letter Ballot 1. The comment database with the resolutions may be found in Document: <https://mentor.ieee.org/802.22/dcn/17/22-17-0089-00-0000-802-22-revision-comment-resolution-database.xlsx>

Move: Jerry Kalke

Second: Oliver Holland

For: 5

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- 802.22.3 PAR Modification***

Move to approve the 802.22.3 PAR Modification Language as proposed in Document: <https://mentor.ieee.org/802.22/dcn/17/22-17-0093-00-0003-proposed-par-modification.docx> The chair to prepare a new PAR Document along with the existing CSD: <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0060-00-ACSD-802-22-3-spectrum-characterization-and-occupancy-sensing.pdf> and submit it for EC approval by February 1st, 2018

Move: Jerry Kalke

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

**Orlando Location Survey**

In general the group likes it. 9/10.

Wi-Fi in the room was not good.

**Motion– Motion to adjourn**

Move to adjourn.

Move: Oliver Holland

Second: Jerry Kalke

Any discussions, Any objections.

**Motion Passes.**

The group was adjourned at 11:22 am local time on Thursday 10th November 2016.

**802.22 Attendance List**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [**SA PIN**](https://imat.ieee.org/802.22/attendance-summary?o=5a&b=2457702%2079199&d=2458068%2079199) | [**Name ▲**](https://imat.ieee.org/802.22/attendance-summary?o=0d&b=2457702%2079199&d=2458068%2079199) | **Current Involvement Level** | **Mar 2017** | **Jul 2017** | **Nov 2017** |
| 94071 | Al-Badrawi, Mahdi | Observer |  |  | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=9407100001) |
| 90257 | Baker, Ken | Voting Member | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=9025700001) |  |  |
| 87588 | Cotton, Michael G | Voting Member | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=8758800001) |  | [110%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=8758800001) |
| 83410 | Furuichi, Sho | Observer | [78%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=8341000001) |  |  |
| 798 | Haasz, Jodi | Observer |  | [11%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=79800001) |  |
| 87266 | Hislop, Roger | Voting Member |  |  | [110%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=8726600001) |
| 15014 | Holland, Oliver | Voting Member | [111%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=1501400001) | [111%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=1501400001) | [110%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=1501400001) |
| 25852 | Kalke, Jerome | Voting Member | [122%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=2585200001) | [144%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=2585200001) | [120%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=2585200001) |
| 91065 | Miele, Gianfranco | Voting Member | [111%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=9106500001) | [133%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=9106500001) |  |
| 3751 | Mody, Apurva | Voting Member | [44%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=375100001) | [89%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=375100001) | [40%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=375100001) |
| 93132 | Rashidi, Habib | Observer |  | [11%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=9313200001) |  |
| 11740 | Sasaki, Shigenobu | Voting Member | [22%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=1174000001) | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=1174000001) |  |
| 22997 | Sato, Naotaka | Observer | [22%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=2299700001) |  |  |
| 92370 | Sewankambo, Irene | Observer |  | [22%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=9237000001) |  |
| 86961 | Slaats, Patrick | Observer |  | [11%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=8696100001) | [10%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=8696100001) |
| 34008 | Sun, Chen | Observer | [78%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=3400800001) |  |  |
| 89766 | Suriaputra, William | Voting Member | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=8976600001) |  |  |
| 92984 | TYAGI, VIPIN | Observer |  | [11%](https://imat.ieee.org/802.22/breakout-attendance?p=2387400005&t=9298400001) |  |

**ANNEX**

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