IEEE P802.22 Wireless RANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2018 July Plenary IEEE 802.22 Working Group Minutes | | | | |
| Date: 2018-07-13 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Apurva Mody | BAE Systems | Merrimack, NH, USA | 404-819-0314 / 603-809-0459 | [apurva.mody@baesystesms.com](mailto:apurva.mody@baesystesms.com); [apurva.mody@WhiteSapceAlliance.org](mailto:apurva.mody@WhiteSapceAlliance.org) |
| Oliver Holland | King’ s College, London |  |  | [oliver.holland@kcl.ac.uk](mailto:oliver.holland@kcl.ac.uk) |

**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 2018 July Plenary Meeting held in San Diego from July 8th to 13th 2018.

**July 2018 Plenary Meeting Minutes**

**MINUTES**

##### 9th July Monday PM1 (WG Opening Plenary)

The WG chairman, Dr Apurva N. Mody, was delayed. Dr. Oliver Holland, the Vice Chair of the Group acted as the Chairman for the Day 1 of the plenary meeting.

Dr. Holland called the meeting to order at 1:30 PM local time. There were 5 participants (2 were 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, explained agenda for the plenary session in March.**

***Motion - Approval of Agenda***

Move to Approve the Agenda as shown in Document 22-18-0023 Rev0

<https://mentor.ieee.org/802.22/dcn/18/22-18-0023-00-0000-802-22-july-plenary-working-group-agenda.xls>

Move: Jerry Kalke

Second:

For: 2

Against: 0

Abstain: 0

**Motion Passes**. Agenda is approved

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

The minutes of the 802.22 March 2018 WG Plenary Meeting can be found at:

<https://mentor.ieee.org/802.22/dcn/18/22-18-0013-00-0000-802-22-wg-march-2018-plenary-meeting-minutes.docx>

**2. Administrative Issues**

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

**Other Working Group Motions**

The chair informed the Working Group that he appoints Bradley Eales, NTIA to be an 802.22 Working Group Member.

**9th July, Monday PM2 – 802.22.3 Spectrum Characterization and Occupancy Sensing**

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

##### 10th July Tuesday AM1 - Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

##### 10th July Tuesday AM2 - Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

##### 10th July Tuesday PM1 - - Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

##### 10th July Tuesday PM2 – 802.24

The working group participated in the 802.24 meeting on IoT.

##### 11th July Wednesday AM1 – 802.22 Revision

The Chair of the Group announced that IEEE 802.22 Revision Working Group Letter Ballot 3.0 was launched.

Ballot Start Date: July 10th 2018

Ballot End Date: Wednesday, Thursday, August 9th 2018

Ballot Pool: 802.22 WG Voting Members

During the meeting the WG reviewed the contribution on TV WhiteSpace regulations.

##### 11th July Wednesday AM2 – Spectrum Characterization and Occupancy Sensing

This meeting was canceled.

##### 11th July Wednesday PM1 – Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

##### 11th July Wednesday PM2 – Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

##### 11th July Thursday AM1 – Spectrum Characterization and Occupancy Sensing

This meeting was canceled

##### 11th July Thursday AM2 – IEEE 802.22 Working Group Closing Plenary

At the start of the Plenary Meeting there were 3 Voting Members in the Room.

The Task Group carried out 802.22.3 Draft 3.0 Working Group Letter Ballot comment review.

***Motion - Approval of Modified Agenda***

Move to Approve the Agenda as shown in Document 22-18-0023 Rev1

<https://mentor.ieee.org/802.22/dcn/18/22-18-0023-01-0000-802-22-july-plenary-working-group-agenda.xls>

Move: Jerry Kalke

Second: Oliver Holland

For: 2

Against: 0

Abstain: 1

**Motion Passes**. Agenda is approved

***Motion- Approval of March Plenary WG Minutes***

Move to approve the 802.22 WG March 2018 Plenary meeting minutes held in Chicago as shown in Document 22-18-0013 Rev0

<https://mentor.ieee.org/802.22/dcn/18/22-18-0013-00-0000-802-22-wg-march-2018-plenary-meeting-minutes.docx>

Move: Jerry Kalke

Second: Oliver Holland

For: 2

Against: 0

Abstain: 1

**Motion Passes**. Minutes are approved

***Information Item – Passed during the March 2018 Plenary Meeting***

***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: Mike Cotton

Second: Jerry Kalke

For: 5

Against: 0

Abstain: 1

**Motion Passes**.

***Information Item – Passed during the March 2018 Plenary Meeting***

***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: Bradley Eales

Second: Oliver Holland

For: 5

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- Launch of 802.22 Subsequent Revision and Re-circulation Ballots***

The 802.22 WG authorizes the WG Chair to launch of 802.22 Revision Subsequent Working Group Letter Ballots and Re-circulation ballots to keep building the consensus and improve the Approval Ratio. The WG authorizes the WG Chair to start the creation of the Sponsor Ballot Pool in preparation for the Sponsor Ballot Launch.

Move: Jerry Kalke

Second: Oliver Holland

For: 2

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- Launch of 802.22.3 Subsequent Revision and Re-circulation Ballots***

The 802.22 WG authorizes the WG Chair to launch of 802.22.3 SCOS Subsequent Working Group Letter Ballots and Re-circulation ballots to keep building the consensus and improve the Approval Ratio. The WG authorizes the WG Chair to start the creation of the Sponsor Ballot Pool in preparation for the Sponsor Ballot Launch.

Move: Jerry Kalke

Second: Oliver Holland

For: 2

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- Authorize the Working Group Chair to Request 802.22 PAR Extension***

The 802.22 Working Group Authorizes the Working Group Chair to make a motion to the IEEE 802 Executive Committee for the PAR Extension for one year of the 802.22 Revision Standard during the November 2018 Plenary Meeting or earlier.

Move: Jerry Kalke

Second: Oliver Holland

For: 2

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- Authorize the Working Group Chair to Request 802.22.3 PAR Extension***

The 802.22 Working Group Authorizes the Working Group Chair to make a motion to the IEEE 802 Executive Committee for the PAR Extension for one year of the 802.22.3 SCOS Standard during the November 2018 Plenary Meeting or earlier.

Move: Jerry Kalke

Second: Oliver Holland

For: 2

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- Oliver Holland to be designated to be the Chief Editor for the 802.22.3***

The 802.22 Working Group appoints Oliver Holland to be designated as the Chief Editor of the 802.22.3 SCOS Standard

Move: Jerry Kalke

Second: Oliver Holland

For: 2

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.

**San Diego Location Survey**

9/10. Very nice location, in downtown. Nice modern hotel. Food was excellent. Breakfast was 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 12:30 pm local time on Thursday 12th July 2018.

**802.22 Attendance List**

|  |
| --- |
|  |
| [**SA PIN**](https://imat.ieee.org/802.22/attendance-summary?o=5a&b=2457948%2079199&d=2458314%2079199) | [**Name ▲**](https://imat.ieee.org/802.22/attendance-summary?o=0d&b=2457948%2079199&d=2458314%2079199) | **Current Involvement Level** | **Nov 2017** | **Mar 2018** | **Jul 2018** |
| 94071 | [Al-Badrawi, Mahdi](mailto:mhv35%40wildcats.unh.edu) | Observer | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=9407100001) |  |  |
| 95674 | [anago, richard](mailto:anago.richard%40gmail.com) | Observer |  | [8%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9567400001) |  |
| 87588 | [Cotton, Michael G](mailto:mcotton%40ntia.doc.gov) | Observer | [110%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=8758800001) | [75%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=8758800001) |  |
| 95226 | [Eales, Bradley](mailto:beales%40ntia.doc.gov) | Observer |  | [92%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9522600001) |  |
| 87266 | [Hislop, Roger](mailto:roger.hislop%40is.co.za) | Observer | [110%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=8726600001) |  |  |
| 15014 | [Holland, Oliver](mailto:oliver.holland%40ieee.org) | Observer | [110%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=1501400001) | [92%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=1501400001) | [90%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=1501400001) |
| 8480 | [Jeong, ByungJang](mailto:bjjeong%40etri.re.kr) | Voting Member |  | [17%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=848000001) |  |
| 25852 | [Kalke, Jerome](mailto:jkalkesr%40att.net) | Voting Member | [120%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=2585200001) | [83%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=2585200001) | [70%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=2585200001) |
| 6113 | [Lynch, Michael](mailto:mjlynch%40mjlallc.com) | Voting Member |  |  | [20%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=611300001) |
| 3074 | [Marks, Roger](mailto:r.b.marks%40ieee.org) | Observer |  |  | [10%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=307400001) |
| 95660 | [Matabishi, Lloyd](mailto:lloydscientist%40gmail.com) | Observer |  | [17%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9566000001) |  |
| 91065 | [Miele, Gianfranco](mailto:g.miele%40unicas.it) | Observer |  | [83%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9106500001) |  |
| 3751 | [Mody, Apurva](mailto:apurva_mody%40yahoo.com) | Voting Member | [40%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=375100001) | [83%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=375100001) | [90%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=375100001) |
| 86961 | [Slaats, Patrick](mailto:patrick.slaats%40outlook.com) | Observer | [10%](https://imat.ieee.org/802.22/breakout-attendance?p=2388100005&t=8696100001) |  |  |
| 92287 | [umutoni, yvonne](mailto:umutoniyvonne%40gmail.com) | Observer |  | [8%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9228700001) |  |

**ANNEX**

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