IEEE P802.22 Wireless RANs

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| 2018 November Plenary IEEE 802.22 Working Group Minutes |
| Date: 2018-11-11 |
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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 2018 November Plenary Meeting held in Bangkok, Thailand from Nov. 11th to Nov. 16th.

**November 2018 Plenary Meeting Minutes**

**MINUTES**

##### 12th November Monday PM1 (WG Opening Plenary)

The WG chairman, Dr Apurva N. Mody called the meeting to order at 1:30 PM local time. There were 4 participants (4 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 22-18-0029 Rev3

https://mentor.ieee.org/802.22/dcn/18/22-18-0029-03-0000-802-22-november-plenary-working-group-agenda.xls

Move: Roger Hislop

Second: Oliver Holland

For: 3

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 July 2018 WG Plenary Meeting can be found at:

<https://mentor.ieee.org/802.22/dcn/18/22-18-0026-00-0000-802-22-working-group-meeting-motions.docx>

***Motion - Approval of the Meeting Minutes***

Move to Approve the July Plenary Meeting Minutes

<https://mentor.ieee.org/802.22/dcn/18/22-18-0026-00-0000-802-22-working-group-meeting-motions.docx>

Move: Gianfranco Miele

Second: Oliver Holland

For: 3

Against: 0

Abstain: 1

**Motion Passes**. Agenda is approved

**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.

**12th November, Monday PM2 – 802.22.3 Spectrum Characterization and Occupancy Sensing**

The Task Group carried out 802.22.3 Draft 4.0 Working Group Letter Ballot comment review.

##### 13th November, Tuesday AM1 – 802.22 Revision

The Working Group carried out 802.22 Draft 3.0 Working Group Letter Ballot comment review.

##### 13th November, Tuesday AM2 – Regulatory Task Group

The 802.22 WG members attended the 802.18 Regulatory Task Group

##### 13th November, Tuesday PM1 - Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 4.0 Working Group Letter Ballot comment review.

##### 13th November, Tuesday PM2 – Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 4.0 Working Group Letter Ballot comment review.

##### 14th November, Wednesday AM1 – Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 4.0 Working Group Letter Ballot comment review.

##### 14th November Wednesday AM2 – PAR Comment Responses

The 802.22 Working Group members addressed and resolved the comments related to the 802.22 Revision and 802.22.3 SCOS PAR Extension Requests.

##### 14th November Wednesday PM1 – Mid Week Plenary

The Working Group passed motions related to the 802.22 and 802.22.3 Comment Responses.

***802.22 Revision PAR Extension Request and Confirmation of the CSD***

802.22 Working Group Approves the 802.22 Revision PAR Extension Request as can be found in

<https://mentor.ieee.org/802.22/dcn/18/22-18-0041-00-0000-802-22-revision-par-extension.pdf>. 802.22 Working Group confirms that the Draft Standard is consistent with the Criteria for Standards Development for the Project as can be found in the Document:

<https://mentor.ieee.org/802-ec/dcn/17/ec-17-0062-00-ACSD-802-22-revision-project-csd.pdf>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

***Modification to the 802.22 Revision PAR Extension Request and Confirmation of the CSD***

802.22 Working Group Approves the modification to the 802.22 Revision PAR Extension Request as can be found in

<https://mentor.ieee.org/802.22/dcn/18/22-18-0041-01-0000-802-22-revision-par-extension.docx>. 802.22 Working Group confirms that the Draft Standard is consistent with the Criteria for Standards Development for the Project as can be found in the Document:

<https://mentor.ieee.org/802-ec/dcn/17/ec-17-0062-00-ACSD-802-22-revision-project-csd.pdf>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

***802.22.3 Revision PAR Extension Request and Confirmation of the CSD***

802.22 Working Group Approves the 802.22.3 PAR Extension Request as can be found in

<https://mentor.ieee.org/802.22/dcn/18/22-18-0040-00-0000-802-22-3-par-extension-request.pdf>. 802.22 Working Group confirms that the Draft Standard is consistent with the Criteria for Standards Development for the Project as can be found in the Document:

<https://mentor.ieee.org/802-ec/dcn/18/ec-18-0076-00-ACSD-802-22-3.docx>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

***Modification to the 802.22.3 PAR Extension Request and Confirmation of the CSD***

802.22 Working Group Approves the modification to the 802.22.3 PAR Extension Request as can be found in

<https://mentor.ieee.org/802.22/dcn/18/22-18-0040-01-0000-802-22-3-par-extension-request.docx>. 802.22 Working Group confirms that the Draft Standard is consistent with the Criteria for Standards Development for the Project as can be found in the Document:

<https://mentor.ieee.org/802-ec/dcn/18/ec-18-0076-00-ACSD-802-22-3.docx>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

***Approval of the Comment Responses on the 802.22 Revision and 802.22.3 SCOS – PAR Extension Request***

802.22 Working Group Approves the comment responses to the 802.22 Revision and 802.22 Spectrum Characterization and Occupancy Sensing PAR Extension Requests as can be found in:

<https://mentor.ieee.org/802.22/dcn/18/22-18-0049-00-0000-p802-22-and-p802-22-3-par-comment-resolutions.pptx>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

***Motion to Request Conditional Approval to Launch Sponsor Ballot for 802.22 Revision***

802.22 Working Group authorizes the 802.22 Working Group Chair to request conditional approval to launch the 802.22 Revision Sponsor Ballot from the IEEE 802 Executive Committee for Draft 5.0 or the Draft that has achieved greater than 75% Approval Ratio and completion of two Working Group Re-circulation Ballots. Working Group confirms that the Draft Standard is consistent with the Criteria for Standards Development for the Project as can be found in the Document:

<https://mentor.ieee.org/802-ec/dcn/17/ec-17-0062-00-ACSD-802-22-revision-project-csd.pdf>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

***Motion to Request the Launch of Sponsor Ballot for 802.22.3***

802.22 Working Group authorizes the 802.22 Working Group Chair to request unconditional or conditional approval to launch the 802.22.3 Sponsor Ballot from the IEEE 802 Executive Committee for Draft 7.0 or the Draft that has achieved greater than 75% Approval Ratio and completion of two Working Group Re-circulation Ballots. 802.22 Working Group confirms that the Draft Standard is consistent with the Criteria for Standards Development for the Project as can be found in the Document:

<https://mentor.ieee.org/802-ec/dcn/18/ec-18-0076-00-ACSD-802-22-3.docx>

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

The Task Group carried out 802.22.3 Draft 5.0 Working Group Letter Ballot comment review.

##### 14th November Wednesday PM2 – Spectrum Characterization and Occupancy Sensing

The Task Group carried out 802.22.3 Draft 4.0 Working Group Letter Ballot comment review.

##### 15th November Thursday AM1 – Regulatory Task Group

The Working Group members attended the 802.18 Regulatory Task Group

##### 15th November Thursday AM2 – IEEE 802.22 Working Group Closing Plenary

At the start of the Plenary Meeting there were 4 Voting Members in the Room.

The Task Group carried out 802.22.3 Draft 4.0 Working Group Letter Ballot comment review.

***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 2019 plenary meeting.

Move: Roger Hislop

Second: Oliver Holland

For: 3

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: Gianfranco Miele

Second: Oliver Holland

For: 3

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: Roger Hislop

Second: Oliver Holland

For: 3

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: Gianfranco Miele

Second: Oliver Holland

For: 3

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- Approval of the Comment Resolutions for 802.22 on Draft 3.0***

The 802.22 WG approves the Comment Resolutions on 802.22 Revision Draft 3.0 as found in Document:

 <https://mentor.ieee.org/802.22/dcn/18/22-18-0030-05-0000-802-22-draft-3-revision-comment-resolution-database.xlsx>

Move: Gianfranco Miele

Second: Oliver Holland

For: 3

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.

**Bangkok, Thailand, Location Survey**

Venue is great. Food was great. It’s a long way but worth coming here.

Meetings rooms are really spread out. Hard to keep track of various sessions. Elevators were not great.

Social was okay. Too much traffic. Food was average. Music was great.

**Motion– Motion to adjourn**

Move to adjourn.

Move: Oliver Holland

Second: Gianfranco Miele

Any discussions, Any objections.

**Motion Passes.**

The group was adjourned at 12:30 pm local time on Thursday 14th November 2018.

**802.22 Attendance List**

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| [**SA PIN**](https://imat.ieee.org/802.22/attendance-summary?o=5a&b=2458072%2079199&d=2458438%2079199) | [**Name ▲**](https://imat.ieee.org/802.22/attendance-summary?o=0d&b=2458072%2079199&d=2458438%2079199) | **Current Involvement Level** | **Mar 2018** | **Jul 2018** | **Nov 2018** |
| 95674 | anago, richard | Observer | [8%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9567400001) |  |  |
| 87588 | Cotton, Michael G | Observer | [75%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=8758800001) |  |  |
| 95226 | Eales, Bradley | Observer | [92%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9522600001) |  |  |
| 87266 | Hislop, Roger | Observer |  |  | [82%](https://imat.ieee.org/802.22/breakout-attendance?p=2390200005&t=8726600001) |
| 15014 | Holland, Oliver | Observer | [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) | [82%](https://imat.ieee.org/802.22/breakout-attendance?p=2390200005&t=1501400001) |
| 8480 | Jeong, ByungJang | Voting Member | [17%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=848000001) |  |  |
| 25852 | Kalke, Jerome | Voting Member | [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) |  |
| 24144 | Kang, Hyunduk | Voting Member |  |  | [18%](https://imat.ieee.org/802.22/breakout-attendance?p=2390200005&t=2414400001) |
| 6113 | Lynch, Michael | Voting Member |  | [20%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=611300001) |  |
| 3074 | Marks, Roger | Observer |  | [10%](https://imat.ieee.org/802.22/breakout-attendance?p=2389500005&t=307400001) |  |
| 95660 | Matabishi, Lloyd | Observer | [17%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9566000001) |  |  |
| 91065 | Miele, Gianfranco | Observer | [83%](https://imat.ieee.org/802.22/breakout-attendance?p=2388800005&t=9106500001) |  | [109%](https://imat.ieee.org/802.22/breakout-attendance?p=2390200005&t=9106500001) |
| 3751 | Mody, Apurva | Voting Member | [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) | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2390200005&t=375100001) |
| 92287 | umutoni, yvonne | 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)