IEEE P802.22 Wireless RANs

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| 2017 July Plenary IEEE 802.22 Working Group Minutes |
| Date: 2017-07-13 |
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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 July Plenary Meeting held in Berlin from July 10th to July 13th 2017.

**July 2017 Plenary Meeting**

**MINUTES**

##### 10th July Monday PM1 (WG Opening Plenary)

The WG chairman, Dr Mody, called the meeting to order at 1:30 PM local time. There were 6 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 22-17-0050 Rev0

(<https://mentor.ieee.org/802.22/dcn/17/22-17-0050-00-0000-ieee-802-22-july-plenary-working-group-agenda.xls>)

Move: Jerry Kalke

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 March 2017 WG Plenary Meeting can be found at:

<https://mentor.ieee.org/802.22/dcn/17/22-17-0018-00-0000-ieee-802-22-march-plenary-working-group-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 22-17-0018 Rev0

(<https://mentor.ieee.org/802.22/dcn/17/22-17-0018-00-0000-ieee-802-22-march-plenary-working-group-meeting-minutes.docx>)

Move: Jerry Kalke

Second: Oliver Holland

For: 3

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.

**Working Group Motions**

##### 10th July Monday PM2 – Spectrum Characterization and Occupancy Sensing

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

##### 11th July Tuesday AM1 - Spectrum Characterization and Occupancy Sensing

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

##### 11th July Tuesday AM2 - Spectrum Characterization and Occupancy Sensing

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

##### 11th Tuesday PM1 - Spectrum Characterization and Occupancy Sensing

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

##### 11th Tuesday PM1 – ISO/IEC/JTC1 Standing Committee

The Chair of the 802.22 Working Group attended the ISO/IEC/JTC1 Standing committee. It is anticipated that the 60 Day FDIS Letter Ballot for 802.22a and 802.22b will be completed in the end of July 2017.

##### 12th July Wednesday AM1 – IEEE 802.22 Revision

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

##### 12th July Wednesday AM2 – Spectrum Characterization and Occupancy Sensing

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

##### 12th July Wednesday PM1 – Tutorial on WhiteSpaces

This was perhaps the most important session for the 802.22 Working Group. The Working Group Chair and other provided a presentation to the IEEE SA Fellows who were the regulators from Senegal, Uganda, Burkina Faso and India.

The Tutorial on WhiteSpaces may be found here:

<https://mentor.ieee.org/802.22/dcn/17/22-17-0054-00-0000-tutorial-on-tv-whitespaces.pdf>

##### 12th July Wednesday PM2 – 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.

##### 13th July 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.

##### 13th July Thursday AM2 – IEEE 802.22 Working Group Closing Plenary

At the start of the Plenary Meeting there were 4 Voting Members in the Room and one non-voting member.

***Motion - Approval of Amended Agenda***

Move to Approve the Agenda as shown in Document 22-17-0050 Rev1

(<https://mentor.ieee.org/802.22/dcn/17/22-17-0050-01-0000-ieee-802-22-july-plenary-working-group-agenda.xls>)

Move: Jerry Kalke

Second: Gianfranco Miele

For: 3

Against:0

Abstain: 1

**Motion Passes**. Agenda is approved

***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 July 2018 plenary meeting.

Move: Jerry Kalke

Second: Gianfranco Miele

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 Face to Face 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: Jerry Kalke

For: 3

Against: 0

Abstain: 1

**Motion Passes**.

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

Move to authorize the 802.22.3 Task Group Chair, and the Editor to issue the 802.22.3 Draft 2.0 on, or before August 23rd 2017 based on the resolutions to the comments that were received in the Working Group Letter Ballot 1. The 802.22 Working Group accepts the Resolutions to the Comments from the 1st Working Group Letter Ballot which May be found in Document 22-17-0013-Rev7

Move: Jerry Kalke

Second: Gianfranco Miele

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.

***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 October 1st 2017 based on the resolutions to the comments that were received in the Working Group Letter Ballot 1.

Move: Jerry Kalke

Second: Gianfranco Miele

For: 3

Against: 0

Abstain: 1

**Motion Passes**.

***Motion- 802.22 TV WhiteSpace Tutorial***

Move to approve the TV WhiteSpace Tutorial as presented in Document 22-17-0054 Rev 0 - <https://mentor.ieee.org/802.22/dcn/17/22-17-0054-00-0000-tutorial-on-tv-whitespaces.pdf>

Move: Jerry Kalke

Second: Gianfranco Miele

For: 3

Against: 0

Abstain: 1

**Motion Passes**.

**Berlin Location Survey**

In general good location for future meetings.

Water was a problem. Need water to survive and coffee to function.

Easy to access for Europeans and Asians. Berlin overall is pretty cheap.

**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**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Attendance summary for C/LM/WG802.22**[Attendance summary upload](https://imat.ieee.org/802.22/summary-upload)[Export attendance summary](https://imat.ieee.org/802.22/attendance-summary.csv?b=2457609%2079199&d=2457975%2079199&s=)[Add user attendance](https://imat.ieee.org/802.22/user-attendance?fc=aOTM1%21bODk1%21cODAyLjIy%21dYgEyNDU3NjA5IDc5MTk5AWQBMjQ1Nzk3NSA3OTE5OQFzAQ__)Top of FormBottom of Form

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| **[SA PIN](https://imat.ieee.org/802.22/attendance-summary?o=5a&b=2457609%2079199&d=2457975%2079199)** | [**Name ▲**](https://imat.ieee.org/802.22/attendance-summary?o=0d&b=2457609%2079199&d=2457975%2079199) | **Current Involvement Level** | **Nov 2016** | **Mar 2017** | **Jul 2017** |
| 90257 | Baker, Ken | Observer | [122%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=9025700001) | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=9025700001) |  |
| 87588 | Cotton, Michael G | Observer | [122%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=8758800001) | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=8758800001) |  |
| 86935 | Finch, Robert | Observer | [11%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=8693500001) |  |  |
| 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 | Observer | [122%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=8726600001) |  |  |
| 15014 | Holland, Oliver | Observer | [33%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=1501400001) | [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) |
| 25852 | Kalke, Jerome | Voting Member | [133%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=2585200001) | [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) |
| 79679 | Khambekar, Nilesh | Observer | [100%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=7967900001) |  |  |
| 91065 | Miele, Gianfranco | Observer |  | [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 | [111%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=375100001) | [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) |
| 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) |
| 34008 | Sun, Chen | Observer |  | [78%](https://imat.ieee.org/802.22/breakout-attendance?p=2386700005&t=3400800001) |  |
| 89766 | Suriaputra, William | Observer | [89%](https://imat.ieee.org/802.22/breakout-attendance?p=2204700005&t=8976600001) | [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) |

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**ANNEX**

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