IEEE P802.22 Wireless RANs

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| 2019 March Plenary IEEE 802.22 Working Group Minutes |
| Date: 2019-03-11 |
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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 2019 March Plenary Meeting held in Vancouver, Canada from March 10th to March 15th 2019.

**March 2019 Plenary Meeting Minutes**

**MINUTES**

##### 11th March 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 3 participants (3 were voting members) in the room at the opening of the session. Two IEEE SA Staff members were present – Lisa Perry and Jennifer Santulli.

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 22-19-0009 Rev1 with a request to review the Working Group Roster

https://mentor.ieee.org/802.22/dcn/19/22-19-0009-01-0000-march-plenary-working-group-agenda.xls

Move: Oliver Holland

Second: Paul Nikolich

For: 2

Against: 0

Abstain: 1

**Motion Passes**. Agenda is approved

Paul Nikolich requested the review of the Working Group Roster.

Paul suggested that the 802.22 Working Group define a time-line for their remaining two projects.

**The Working Group discussed the 802.22 Revision Work Plan.**

* Address and Resolve Comments for Draft 4.0 by March 15th 2019
* Conditional Approval to proceed to the Sponsor Ballot on March 15th from the EC
* Prepare Draft 5.0 by the end of March 2019.
* Draft 5.0 – Re-circulation to start around first week of April. 15 Days duration.
* Assuming No New Comments and No New Disapproves – get the final approval from the EC that conditions have been met.
* Send the Draft to IEEE MEC. 30 Days. Get the edited draft by the middle of May. (May 15th)
* Start the Sponsor Ballot Process by May 22nd.
* Sponsor Ballot 1 – May 22nd to June 22nd
* Comment Resolutions – Address and Resolve Comments by July 18th 2019
* PAR Extension Request to the EC just to be safe.
* Approval from the EC to send the Draft to REVCOM in July 2019.
* Prepare the new draft by July 30th 2019
* 15 Day Re-circ if more than 75% Approval. August 15th 2019
* Comment Resolutions – Address and Resolve Comments by August 30th 2019
* Prepare a New Draft by September 15th.
* Pre-submit the Draft to Revcom before September 17th
* Final Re-circ. End of September Done ….
* Approval from the EC to submit to REVCOM during the November 2019 just in case.
* **November 2019 SASB Approval**

**The Working Group discussed the 802.22.3 Work Plan.**

* Address and Resolve Comments for Draft 5.0 by April 15th 2019
* Prepare Draft 6.0 by April 30th 2019
* First Re-circulation on May 1st 2019 – 15 Days … May 15th
* Address and Resolve the Comments. June 15th
* Prepare Draft 7.0 by June 30th 2019
* Working Group Re-circ by July 15th 2019
* PAR Extension Request to the EC by July 18th …
* Approval to go to the Sponsor Ballot from the EC by July 18th 2018
* Inform the EC that conditions for the Draft to go to the Sponsor Ballot have been met – July 24th 2019
* Send the Draft to the MEC – July 24th 2019. Get the Draft back from the MEC by **August 12th.**
* Start the Sponsor Ballot Process by August 15th 2019
* Sponsor Ballot 1 – August 15th to September 15th
* Comment Resolutions – Address and Resolve Comments by October 15th 2019
* Prepare the new draft by November 15th 2019
* Sponsor Ballot Re-circ
* 15 Day Re-circ if more than 75% Approval.
* Comment Resolutions – Address and Resolve Comments by December 15th 2019
* Prepare a New Draft by Jan 15th 2020 and send it for Final re-circ.
* Final Re-circ. End of Jan 2020 ….
* E-mail or Telecon Approval from the EC to send the Draft to REVCOM
* Submit to REVCOM by Mid-Feb 2020
* **March 2020 SASB Approval**

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

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

<https://mentor.ieee.org/802.22/dcn/18/22-18-0047-00-0000-802-22-nov-plenary-meeting-minutes.docx>

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

Move to Approve the November 2018 Plenary Meeting Minutes

<https://mentor.ieee.org/802.22/dcn/18/22-18-0047-00-0000-802-22-nov-plenary-meeting-minutes.docx>

Move: Oliver Holland

Second: Sunghyun Hwang

For: 3

Against: 0

Abstain: 1

**Motion**

**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.

**11th March, Monday PM2 – Preparation for the Tutorial – Spectrum … Be Prepared for Sharing**

The group worked on the preparation of the Tutorial to be presented to the IEEE 802 Standards Committee. The tutorial was titled: Spectrum …. Be Prepared for Sharing.

**11th March, Monday Eve – Tutorial – Spectrum … Be Prepared for Sharing**

IEEE 802.22 Working Group presented the tutorial titled: “Spectrum …. Be Prepared for Sharing” during the IEEE 802 Plenary Meeting. The Tutorial was attended by around 100 people.

The Tutorial Presentation may be found here:

<https://mentor.ieee.org/802.22/dcn/19/22-19-0011-00-0000-tutorial-spectrum-be-prepared-for-sharing.pdf>

##### 12th March, Tuesday AM1 – 802.22 Revision

This session was moved to Wednesday AM1

##### 12th March, Tuesday AM2 – Spectrum Characterization and Occupancy Sensing

The 802.22 WG Members worked on the SCOS Draft 5.0 Comment Resolutions.

The 802.22 WG Members also worked on the 802.22 Revision Co-existence Assurance Document

##### 12th March, Tuesday PM1 – Tutorial on WhiteSpaces for the IEEE 802 Fellows

The 802.22 Working Group members gave a Tutorial on White Spaces to the IEEE 802 Fellows from various developing countries. The Tutorial may be found here:

<https://mentor.ieee.org/802.22/dcn/19/22-19-0013-00-0000-tutorial-on-whitespaces.pdf>

##### 12th March, Tuesday PM2 – Spectrum Characterization and Occupancy Sensing

The 802.22 WG Members worked on the SCOS Draft 5.0 Comment Resolutions.

##### 13th March, Wednesday AM1 – 802.22 Revision

The 802.22 Working Group members addressed and resolved the Comments on Draft 4.0.

##### 13th March Wednesday AM2 – 802.22 Revision

The 802.22 Working Group members addressed and resolved the Comments on Draft 4.0.

The Comment Resolution Database may be found here:

<https://mentor.ieee.org/802.22/dcn/19/22-19-0008-02-0000-802-22-wg-letter-ballot-draft-4-comment-resolutions.xlsx>

##### 13th March Wednesday PM1 – Mid Week Plenary

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

At the start of the 802.22 Mid-Week Plenary there were 4 802.22 Voting Members in the room.

***Motion to Grant 802.22 Working Group Voting Rights to Harry Bims***

802.22 Working Group approves granting Mr. Harry Bims voting rights to the 802.22 Working Group

Move: Oliver Holland

Second: Tim Godfrey

For: 3

Against: 0

Abstain: 1

**Motion Passes**.

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

***(This Motion was passed during the November 2018 Plenary Meeting and is still valid)***

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

<https://mentor.ieee.org/802.22/dcn/18/22-18-0041-01-0000-802-22-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>

Working Group requests the Chair to forward the PAR Extension Request to the IEEE 802 Executive Committee for Approval and to the IEEE SA NESCOM for consideration.

Move: Roger Hislop

Second: Oliver Holland

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

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

***(This Motion was passed during the November 2018 Plenary Meeting and is still valid)***

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>

Working Group requests the Chair to forward the PAR Extension Request to the IEEE 802 Executive Committee for Approval and to the IEEE SA NESCOM for consideration.

Move: Oliver Holland

Second:

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

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

***(This Motion was passed during the November 2018 Plenary Meeting and is still valid)***

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

802.22 Working Group authorizes the 802.22 Working Group Chair to request approval to launch the 802.22 Revision Sponsor Ballot from the IEEE 802 Executive Committee for Draft 6.0 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: Oliver Holland

Second: Tim Godfrey

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

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

***(This Motion was passed during the November 2018 Plenary Meeting and is still valid)***

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**.

***Motion to Approve the 802.22 Co-existence Assurance Document***

802.22 Working Group approves the 802.22 Revision Standard Co-existence Assurance Document and requests the Chair to forward it to the 802.19 Task Group to start the Ballot

<https://mentor.ieee.org/802.22/dcn/19/22-19-0001-00-0000-802-22-co-existence-assurance-document.docx>

Move: Oliver Holland

Second: Sunghyun Hwang

For: 4

Against: 0

Abstain: 1

**Motion Passes**.

##### 13th March Wednesday PM2 – 802.22 Revision

This session was cancelled since all the comments for the 802.22 Revision were addressed and resolved.

##### 14th March Thursday AM1 – 802.22.3 Spectrum Characterization and Occupancy Sensing

The Working Group members discussed the organization of the Draft 5.0

##### 14th March Thursday AM2 – IEEE 802.22 Working Group Closing Plenary

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

***Motion- Approval to Schedule Teleconference Meetings***

***(Motion Approved during the November 2018 Plenary – Just a Re-cap here)***

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***

***(Motion Approved during the November 2018 Plenary – Just a Re-cap here)***

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***

***(Motion Approved during the November 2018 Plenary – Just a Re-cap here)***

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***

***(Motion Approved during the November 2018 Plenary – Just a Re-cap here)***

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 4.0***

The 802.22 WG approves the Comment Resolutions on 802.22 Revision Draft 4.0 as found in Document:

 <https://mentor.ieee.org/802.22/dcn/19/22-19-0008-02-0000-802-22-wg-letter-ballot-draft-4-comment-resolutions.xlsx>

Move: Sunghyun Hwang

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 issues reported.

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

**Vancouver, Location Survey**

Venue was good. Food was good.

Very convenient location for both participants from US and Asia.

**Motion– Motion to adjourn**

Move to adjourn.

Move: Oliver Holland

Second: Sunghyun Hwang

Any discussions, Any objections.

**Motion Passes.**

The group was adjourned at 11:30 pm local time on Thursday 14th March 2018.

**802.22 Attendance List**



**ANNEX**

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