IEEE P802.22
Wireless RANs

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| 2014 January Interim Working Group Meeting Minutes for IEEE 802.22 |
| Date: 2014-03-21 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Chunyi Song | NICT | Yokosuka, Japan | +81(0)46-847-5095 | songe@nict.go.jp |
| Apurva Mody | BAE Systems | Merrimack, NH | 404-819-0314 / 603-809-0459 | apurva.mody@baesystesms.com; apurva\_mody@yahoo.com |

**IEEE 802.22**

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Abstract

This document contains the minutes of the IEEE 802.22 Working Group 2014 March Plenary Meeting held in Bei Jing from 16th to 21st March 2014.

Wireless Regional Area Networks

**March 2014 Plenary**

**MINUTES**

##### 17th Jan Monday PM1 (WG Opening Plenary)

WG chairman Dr Mody called the meeting to order at 1:30 PM EST. 9 participants (all are voting members) were in the room at the opening of the session. A new participant from Huawei (Yuchun Wu) was in the meeting room and 802 chair Paul Nikolich joined the meeting during late period of meeting.

Two candidates Apurva Mody and Chang-woo Pyo are nominated as WG chair and vice chair, respectively. The nominatiuon period is closed at 1:30pm 17th March Beijing time.

**1.1 Approval of Agenda**

**The WG chair explained agenda for the plenary session in Beijing.**

***Motion - Approval of Agenda***

Move to Approve the Agenda as shown in Document 22-14-0032 Rev1

(https://mentor.ieee.org/802.22/dcn/14/22-14-0032-00-0000-ieee-802-22-wg-march-plenary-agenda.xls)

Move: Apurva Mody

Second: Chunyi Song

For: 9

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 Junuary Interim Meeting Minute can be found at:

https://mentor.ieee.org/802.22/dcn/14/22-14-0031-00-0000-meeting-minutes-of-ieee-802-22-wg-january-los-angeles.docx

***Motion- Approval of Minute***

Move to Approve the 802.22 working group January Interim meeting minute at Los-Angeles as shown in Document 22-14-0031 Rev1

(https://mentor.ieee.org/802.22/dcn/14/22-14-0031-01-0000-meeting-minutes-of-ieee-802-22-wg-january-interim-los-angeles.docx)

Move: Apurva Mody

Second: Chang-woo Pyo

For: 9

Against: 0

Abstain: 0

**Motion Passes**. Minute is approved

**2. Administrative Issues**

WG Chair reviewed the usual administrative slides on Patent Policy, Letter of Assurance, etc.

WG Chair reminded everyone that the attendance recording is being done electronically as usual.

**3. 802.22 Revision PAR and Criteria for Standard Development**

Cooments from the other 802 WG 802.22 Revision PAR and Criteria for Standard Development (CSD), especially from WG 802.16 were discussed.

**Motion– 802.22 REVISION PAR and Criteria for Standard Development – Approval to submit to EC and make subsequent actions**

Move to approve the contents of the document:22-13-0138Rev6 https://mentor.ieee.org/802.22/dcn/13/22-13-0138-06-0000-802-22-revision-par.docx as the contents of the P802.22 Revision PAR, and the contents of the document:22-13-0156Rev4 https://mentor.ieee.org/802.22/dcn/13/22-13-0156-04-0000-802-22-revision-par-5c.docx as the contents of the P802.22 Revision PAR Criteria for Standard Development (CSD), to be forwarded to the IEEE 802 EC. To allow the Chair to make a motion during the Closing EC Meeting seeking approval to submit the PAR form to IEEE SA NESCOM. To allow the Chair to make subsequent submission of the PAR form to the IEEE SA NESCOM upon its approval from the EC. To allow the Chair to make the necessary changes to the PAR form based on the comments from IEEE 802 EC or the IEEE SA NESCOM members and submit the revised PAR to the NESCOM.

Move: Chang-woo Pyo

Second: Apurva Mody

For: 9

Against: 0

Abstain: 0

Motion Passes.

**4. Some unresolved questions/concerns regarding spectrum sharing from ITU were discussed**

**5. Plan for spectrum occupancy sensing PAR and 5C during Beijing meeting was discussed.**

**6. The meeting was recessed at 15:30 PM.**

##### 18th March Tuesday AM1

1. The slot was used for 802.22b TG till to 9:30am and then shifted to use by WG.

2. 14 participants were in the meeting room, including 9 voting members and 5 local students.

3. Chair led the comment resolution for the **spectrum occupancy sensing PAR and 5C.**

4. Chair introduced 802.22 scope and activities to the student participants.

5.The meeting was recessed at 10:10 AM.

##### 18th March Tuesday PM1

1. The slot was used for 802.22b TG till to 2:00pm and was then shifted to use by WG.

2. 11 participants were in the meeting room, including 9 voting members, IEEE stuff and Yuchun Wu from Huawei.

3. 802.22 WG comments to 802.11 HEW were discussed.

4. 802.22 revision PAR for 802.22-2011, namely response to comments from other WGs and corrsponding revision, were discuseed.

5. The meeting was recessed at 15:30.

##### 19th March Wednesday AM2

1. WG chairman Dr Mody called the meeting to order at 10:30 AM Beijing time.

2. 9 participants were in the meeting room, including 8 voting members and Yuchun Wu from Huawei.

3. Revision PAR for 802.22-2011, namely response to comments from other WGs and corrsponding revision were discuseed and Revision PAR for 802.22-2011 for submission to EC is made.

4. The meeting was recessed at 12:00 pm.

##### 19th March Wednesday PM1

1. WG chairman Dr Mody called the meeting to order at 13:30 PM Beijing time.

2. 13 participants were in the meeting room, including 11 voting members.

3. Following motions were conducted

**Motion to approve 802.22 response to response to revision PAR**

802.22 WG approves the resolution to the comments on the 802.22 revison PAR and the CSD as contained in document 22-13-0168Rev2 https://mentor.ieee.org/802.22/dcn/13/22-13-0168-02-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

Move: Chang-woo Pyo

Second: Apurva Mody

For: 11

Against: 0

Abstain: 0

Motion Passes.

**Motion– 802.22 REVISION PAR and Criteria for Standard Development – Approval to submit to EC and make subsequent actions**

Move to approve the contents of the document:22-14-0057Rev0 https://mentor.ieee.org/802.22/dcn/14/22-14-0057-00-0000-802-22-revision-par-document-pdf.pdf as the contents of the P802.22 Revision PAR, and the contents of the document:22-13-0156Rev5 https://mentor.ieee.org/802.22/dcn/13/22-13-0156-05-0000-802-22-revision-par-new-csd-5c.docx as the contents of the P802.22 Revision PAR Criteria for Standard Development (CSD), to be forwarded to the IEEE 802 EC. To allow the Chair to make a motion during the Closing EC Meeting seeking approval to submit the PAR form to IEEE SA NESCOM. To allow the Chair to make subsequent submission of the PAR form to the IEEE SA NESCOM upon its approval from the EC. To allow the Chair to make any necessary changes to the PAR form based on the comments from IEEE 802 EC or the IEEE SA NESCOM members and submit the revised PAR to the NESCOM.

Move: Chang-woo Pyo

Second: Apurva Mody

For: 11

Against: 0

Abstain: 0

Motion Passes.

**Motion–election of the 802.22 WG chair, vice-chair and secretary**

 Move to elect the following slate of officers for IEEE 802.22 Working Group with acclamation

WG chair: Dr. Apurva N. Mody

WG vice chair: Dr. Chang-woo Pyo

WG secretary:

Move: Jerry Kalke

Second: SungHyun Hwang

For: 11

Against: 0

Abstain: 0

Motion Passes.

4. The meeting was recessed at 15:30.

##### 20th March Thursday AM2

1. WG chairman Dr Mody called the meeting to order at 10:30 Beijing time.

2. 8 participants were in the meeting room, including 7 voting members and Yuchun Wu from Huawei.

3. PAR and CSD\_5C for the Spectrum Occupancy Sensing project was discussed.

4. The meeting was recessed at 12:00 pm.

##### 20th March Thursday PM1

1. WG chairman Dr Mody called the meeting to order at 13:15 Beijing time.

2. 9 participants were in the meeting room, including 8 voting members and Yuchun Wu from Huawei.

Following motions were made

***Motion Follow-up Telecons***

Move to allow the Chair to conduct telecons to further the activities of the 802.22 WG as he sees fit.

Move: Jerry Kalke

Second: Apurva N. Mody

Is there any objection to this motion?

No objection is heard.

**Motion Passes**.

Based on the comment resolutions as contained in document 22-13-158-03-000b https://mentor.ieee.org/802.22/dcn/13/22-13-0158-03-000b-802-22b-letter-ballot-1-comment-database.xls and the resolutions achieved for the remaining comments during the teleconference, 802.22 Working Group approves to go to the WG Letter Ballot #2. The WG requests the Task Group b chair to issue the new document Draft 2.0 of 802.22b standard and requests WG Chair to start WG Letter Ballot #2 on or before April 11, 2014.

Move: Chang-woo Pyo

Second: SungHyun Hwang

for: 9

object:0

abstain:0

**Motion Passes**.

**Motion to request first EC extension for the Spectrum Occupancy Sensing Study Group**

The 802.22 Working Group authorizes the chair to request first EC extension for the Spectrum Occupancy Sensing Study Group

Move: Apurva N. Mody

Second: Chunyi Song

For: 8

Against: 0

Abstain: 0

**Motion Passes**.

3. PAR and CSD\_5C for the Spectrum Occupancy Sensing project was discussed.

**Survey of this Location**

Hotel: 7- like

Location: 9-like

Major dislike point: internet connection is not stable and the internet access has some limits.

Dislikes? 0

***Motion to Adjourn***

Motion to Adjourn

Move: Jerry Kalke

Second: Apurva N. Mody

Is there any objection to this motion?

No objection is heard.

**Motion Passes**.

**The meeting was adjourned at 15:27.**

**802.22 Attendance List January, 2014 Interim**

|  |  |  |
| --- | --- | --- |
| Canchi | Radhakrishna | Kyocera |
| El Ezabi | Ayman | U. of Cairo |
| Franklin  | Antony | ETRI |
| Flynn | Peter | Texas Instruments |
| Huh | Jae Doo | ETRI |
| Bims | Harry |  |
| Gurley | Tom | IEEE BTS |
| Hoang | VinhDien | NICT |
| **Hwang** | **Sunghyun** | ETRI, Korea |
| Harada | Hiroshi | NICT, Japan |
| Hou | Victor | Broadcom |
| Inoko | Takuya | Niigaata University |
| Jeong | Byung Jang | ETRI, Korea |
| **Kalke** | **Jerry** | CBS |
| **Kang** | **Hynduk** | ETRI |
|  |  |  |
| **Ko** | **Gwangzeen** | **ETRI, Korea** |
| Lynch | Michael | MJLA LLC |
| **Mody** | **Apurva** | BAE Systems |
| **Song** | **Chunyi** | NICT, Japan |
| **Pyo** | **Chang-Woo** | NICT, Japan |
| **Oodo** | **Masayuki** | NICT, Japan |
|  |  |  |
|  |  |  |
| **Wu** | **yuchun** | Huawei |
| Nakamura | Akira | Tamilab |
| Villardi | Gabriel | NICT, Japan |
| Sasaki | Shigenobu | Niiagata University |
| Shellhammer | Steve | Qualcomm |
| Takahashi | Nobuyuki | Niigaata |
| Tawil | Victor | NAB |
| Taylor | Larry | ACM |
| **Toh** | **Keat, Beng** | Hitachi |

*Note: Participants who had voting status appear in* ***bold****.*

**ANNEX**

**Working Group Contributions**

https://mentor.ieee.org/802.22/dcn/14/22-14-0057-00-0000-802-22-revision-par-document-pdf.pdf

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-02-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-02-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-07-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/14/22-14-0032-01-0000-802-22-march-plenary-wg-agenda.xls

https://mentor.ieee.org/802.22/dcn/14/22-14-0053-00-0000-802-22-wg-comments-on-pars-for-consideration-during-the-march-2014-plenary.pptx

https://mentor.ieee.org/802.22/dcn/14/22-14-0039-00-0000-march-plenary-opening-report.ppt

https://mentor.ieee.org/802.22/dcn/14/22-14-0032-00-0000-802-22-march-plenary-wg-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-04-0000-802-22-revision-par-new-csd-5c.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-01-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/14/22-14-0023-00-0000-overview-of-ieee-802-22-working-group.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-06-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-03-0000-802-22-revision-par-new-csd-5c.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-02-0000-802-22-revision-par-new-csd-5c.docx

https://mentor.ieee.org/802.22/dcn/14/22-14-0011-00-0000-ieee-802-22-wg-january-interim-agenda.xls

https://mentor.ieee.org/802.22/dcn/14/22-14-0010-00-0000-meeting-minutes-of-ieee-802-22-wg-november-plenary-dallas.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0176-00-0000-802-22-wg-closing-report-november-2013-plenary-meeting.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-05-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0172-00-0000-802-22-ec-closing-motions.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0171-00-0000-spectrum-occupancy-sensing-study-group.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0170-01-0000-802-22-wg-motions-at-nov-2013-plenary.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-01-0000-802-22-revision-par-5c.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-04-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-00-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0161-00-0000-press-release-for-spectrum-occupancy-system-study-group-formation.doc

https://mentor.ieee.org/802.22/dcn/13/22-13-0160-00-0000-correction-to-the-annex-9-of-the-itu-wp-6a-chairman-s-report.doc

https://mentor.ieee.org/802.22/dcn/13/22-13-0155-00-0000-november-plenary-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0159-00-0000-802-22-september-interim-meeting-minutes.doc

<https://mentor.ieee.org/802.22/dcn/13/22-13-0136-00-0000-september-interim-working-group-agenda.xls>

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https://mentor.ieee.org/802.22/dcn/13/22-13-0138-00-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0143-01-0000-ieee-802-22-july-plenary-working-group-meeting-minutes.doc

<https://mentor.ieee.org/802.22/dcn/13/22-13-0143-01-0000-ieee-802-22-july-plenary-working-group-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0136-01-0000-september-interim-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0138-01-0000-802-22-revision-par.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0152-00-0000-802-22c-amendment-par-on-spectrum-sensing-information-representation-dissemination-and-fusion.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0152-01-0000-802-22c-amendment-par-on-spectrum-sensing-information-representation-dissemination-and-fusion.docx>

https://mentor.ieee.org/802.22/dcn/13/22-13-0154-00-0000-wg-motions.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0136-00-0000-september-interim-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0126-00-0000-ieee-802-22-july-plenary-closing-report.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0123-01-0000-ieee-802-22-inputs-to-doc-18-13-0085-for-itu-question-236-on-power-grid-management-systems.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0123-00-0000-ieee-802-22-inputs-to-doc-18-13-0085-for-itu-question-236-on-power-grid-management-systems.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0096-02-0000-july-plenary-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0116-00-0000-ieee-802-11-activities-on-spectrum-sharing.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0115-00-0000-ieee-802-15-4m-wpan-standard-in-tvws.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0114-00-0000-ieee-itu-joint-meeting-spectrum-sharing-and-white-space-standardization-to-bridge-the-digital-divide.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0113-00-0000-ieee-802-and-itu-welcome-meeting.pdf

https://mentor.ieee.org/802.22/dcn/13/22-13-0112-00-0000-ieee-802-19-1-overview.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0111-00-0000-itu-r-studies-on-crs-including-white-spaces.pdf

https://mentor.ieee.org/802.22/dcn/13/22-13-0110-00-0000-tvws-managing-the-spaces-or-better-managing-inefficiencies.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0109-00-0000-ieee-802-22-whitespace-enabled-rural-broadband-to-cognitive-m2m.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0096-01-0000-july-plenary-working-group-agenda.xls

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<https://mentor.ieee.org/802.22/dcn/13/22-13-0072-01-0000-may-interim-working-group-agenda.xls>

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<https://mentor.ieee.org/802.22/dcn/13/22-13-0077-00-0000-march-plenary-working-group-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0085-00-0000-ieee-802-response-to-the-unii-band-nprm.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0087-00-0000-802-22-inputs-to-itu-question-236-on-smart-grid-power-management-systems.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0054-00-0000-march-plenary-ec-closing-motions.ppt>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0034-03-0000-march-plenary-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0034-02-0000-march-plenary-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0046-01-0000-802-22-inputs-to-802-24-for-sgip-pap2.xlsx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0046-00-0000-802-22-inputs-to-802-24-for-sgip-pap2.xlsx>

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<https://mentor.ieee.org/802.22/dcn/13/22-13-0041-00-0000-802-22-wg-opening-report.ppt>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0039-00-0000-january-interim-wg-meeting-minutes.doc>

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<https://mentor.ieee.org/802.22/dcn/13/22-13-0005-00-0000-ieee-802-22-1-advanced-beaconing-press-release.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0006-00-0000-november-2012-penary-working-group-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0007-00-0000-802-22-inputs-to-802-18-on-fcc-nprm-in-the-3550-3650-mhz-band.doc>

<https://mentor.ieee.org/802.22/dcn/12/22-12-0104-01-0000-802-24-sg-tag-input.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0006-01-0000-november-2012-penary-working-group-meeting-minutes.doc>

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**Press Release**

<https://mentor.ieee.org/802.22/dcn/13/22-13-0005-00-0000-ieee-802-22-1-advanced-beaconing-press-release.docx>

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**Executive Committee Motions and Reports**

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https://mentor.ieee.org/802.22/dcn/13/22-13-0043-00-0000-march-plenary-working-group-motions.doc

<https://mentor.ieee.org/802.22/dcn/13/22-13-0041-00-0000-802-22-wg-opening-report.ppt>

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##### Advanced Beaconing to Expand Protection of Licensed Service

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