IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 01 Aug 2019 | | | | |
| Name | Affiliation | Address | Phone | Email |
|  | | | | |
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|  | | | | |
| Author and Officer presiding: | | | | |
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Abstract

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 01 Aug 2019

**Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **01aug** | **30jul** | **25jul** | **02may** | **09may** | **30may** | **06jun** | **13jun** | **20jun** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** | **x** | **x** |  |  | **x** | **x** |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** |  | **x** |  | **x** |  | **x** | **x** | **x** |
| Harrington | Tim | Pro ID & UWB Alliance | **x** | **x** | **x** |  |  |  | **x** | **x** | **x** |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kenney | John | Toyota ITC |  |  |  | **x** | **x** |  | **x** | **x** | **x** |
| Kerry | Stuart | ARRIS/Ruckus |  |  |  | **x** | **x** | **x** |  | **x** |  |
| Lynch | Mike | MJLynch Assoc | **x** |  | **x** |  | **x** |  | **x** | **x** | **x** |
| Nikolich(lmsc) | Paul | Self and others |  |  |  |  | **x** | **x** | **x** | **x** |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
| Scott | Andy | NCTA | **x** |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE |  |  |  |  | **x** |  |  |  |  |
| Verso | Billy | DecaWave | **x** | **x** |  | **x** |  |  |  |  |  |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** | **x** |  | **x** | **x** |  |  |  |

**Non-Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **01aug** | **31jul** | **25jul** | **02may** | **09may** | **30may** | **06jun** | **13jun** | **20jun** |
| Au | Edward | Huawei | **early** | **x** | **x** |  |  |  |  |  |  |
| Caldwell | Winston | Fox |  | **x** |  |  |  |  |  | **x** | **x** |
| Levy | Joseph | Interdigital | **x** | **x** | **x** |  |  | **x** |  |  | **x** |
| Sherlock | Ian | TI |  |  | **x** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

Chair calls the meeting to order at 15:03 ET.

1. Chair presents slides 2, 3, and 4 of 802.18-19/0104r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 5, of 802.18-19/0104r01, the agenda:
   1. Call to Order
   2. Administrative items
      1. Need a recording secretary, Peter Ecclesine (Cisco), thanks!
   3. Approve agenda & last minutes
   4. Discussion items
      1. EU Items
      2. ITU-R Items
      3. MCMC (Malaysia) WRC-19 consultation.
      4. UWB petition for rule making
      5. 40th anniversary
      6. General Discussion Items
   5. Actions required
      1. MCMC comments
      2. UWB Comments
      3. Anything new today
   6. AOB and Adjourn
3. Chair presents slide 6 & 7, Administrative – Motions and more
   1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Peter Ecclesine (Cisco Systems)

Seconded by: Mike Lynch (MJLync Assoc.)

Discussion? None

Vote: Approved by unanimous consentt

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 25 July 2019 in document: <https://mentor.ieee.org/802.18/dcn/19/18-19-0101-00-0000-minutes-11july19-rrtag-teleconference.docx> Posted: 26-Jul-2019 10:22:57 ET

Moved by: Vijay Auluck (Self)

Seconded by: Ben Rolfe (Blind Creek Assoc.)

Discussion? None

Vote: Approved by unanimous consent

* 1. The Chair noted the RR-TAG is in need of a vice-chair and secretary**, is there anyone that can help?** no response
  2. **Motion: To approve the minutes from the IEEE 802.18 Ad Hoc 30 July 2019 in document:** [**https://mentor.ieee.org/802.18/dcn/19/18-19-0103-00-0000-minutes-30july19-rrtag-adhoc.docx**](https://mentor.ieee.org/802.18/dcn/19/18-19-0103-00-0000-minutes-30july19-rrtag-adhoc.docx) **Posted:** 31-Jul-2019 09:45:37 ET

**Moved by:** Vijay Auluck (Self)

**Seconded by:** Ben Rolfe (Blind Creek Assoc.)

**Discussion? None**

**Vote:** Approved by unanimous consent

1. Chair presents slides 8-9, EU items to share
   1. Nothing brought up.
2. Chair presents slides 10, ITU-R items to share
   1. A place holder for now, a works in progress.
3. Chair presents slides 11-12, MCMC (Malaysia WRC-19 consultation
   1. MCMC consultation with their position on WRC-19 Agenda Items.
      1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0092-00-0000-mcmc-public-consultation-malaysia-position-for-wrc-19.pdf>
   2. Comments due 09 August, there.
      1. **Will try to approve this week, and then ‘try’ for an early close with the LMSC ballot. If responses are not quick enough, we will miss the deadline.**
   3. Comments making good progress and the Ad Hoc really helped along with several member’s diligence on working the topics. See:
      1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0099-11-0000-mcmc-public-consultation-wrc-19-ais-ieee-802-views.docx> (or latest)
   4. **Will did final review, updated just a little, voted and approved.** 
      1. Note: the chair did send an FYI to the LMSC to prepare them for an Early Close ballot that can not go the full 10 days.
   5. **Motion:** Move to approve the comments in <https://mentor.ieee.org/802.18/dcn/19/18-19-0099-0013-0000-mcmc-public-consultation-wrc-19-ais-ieee-802-views.docx> response to MCMC’s consultation on WRC-19 Agenda Items. With the chair of 802.18 to have editorial privileges and send to the LMSC(EC) for review/approval and submission to MCMC before 08 August 2019.

**Moved by:** Hassan Yaghoobi (Intel)

**Seconded by:** Mike Lynch (MJLync Assoc.)

**Discussion? none**

**Vote: \_9\_Y / \_0\_\_N / \_0\_A**

**Voters: Hassan, Peter, TimH, Jay, Andy, Ben, Billy, Mike, Vijay**

**Motion: Passed**

**Number in attendance: \_10\_**

1. Chair presents slides 13-14, **UWB petition for rule making**
   * 1. **UWB petition for rule making, public notice is out.**
     2. [**https://www.fcc.gov/ecfs/search/filings?proceedings\_name=RM-11844&sort=date\_disseminated,DESC**](https://www.fcc.gov/ecfs/search/filings?proceedings_name=RM-11844&sort=date_disseminated,DESC) **(cg rm-11844)**
        1. <https://ecfsapi.fcc.gov/file/10618992215487/2019%20FINAL%20PETITION%20FOR%20RULE%20MAKING%20for%20FCC%20Filing.pdf>
        2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0079-00-0000-bosch-petition-for-rulemaking-uwb-devices-and-systems.pdf>
        3. Feedback heard, there is more than just updates from past waivers.
        4. On 18 July, from the FCC. - **Makes Comments then due by 17 August.**
        5. Report No. 3130 July 18, 2019 CONSUMER & GOVERNMENTAL AFFAIRS BUREAU REFERENCE INFORMATION CENTER PETITION FOR RULEMAKINGS FILED Interested persons may file statements opposing or supporting the Petition for Rulemakings listed herein within 30 days, or as noted. See sections 1.4 and 1.405 of the Commission's rules for further information.
     3. 2 members working on comments to review and the Ad Hoc really helped along with several member’s diligence on working the topics.
     4. **We did a final review, voted and approved.** 
        1. Starting with: <https://mentor.ieee.org/802.18/dcn/19/18-19-0106-02-0000-uwb-petition-reply-802.docx>
        2. Note: the chair did send an FYI to the LMSC to prepare ballot is coming.
     5. **Motion:** Move to approve the ex parte in <https://mentor.ieee.org/802.18/dcn/19/18-19-0106-04-0000-uwb-petition-reply-802.docx> response to FCC’s public notice RM-11844 on a UWB Petition for Rule Making. With the chair of 802.18 to have editorial privileges and send to the LMSC(EC) for review/approval and submission to the FCC before 15 August 2019.

**Moved by:** Ben Rolfe (UWB Alliance)

**Seconded by:** Tim Harrington (UWB Alliance)

**Discussion?** none

**Vote: \_7\_Y / \_0\_N / \_2\_A**

**Voters: Hassan, Peter, TimH, Jay, Andy, Ben, Billy, Mike, Vijay**

**Motion: Passed**

**Number in attendance: \_10\_**

1. Chair presents slide 15 & 16, 40th Anniversary
   1. Planning has started for the IEEE 802 40th anniversary next March (2020).  As part of this effort, we are working together to formulate an 802 high level story. Part of the story is addressing how 802 technologies have impacted the world and will continue to do so going forward
   2. To that end – Each working group (and TAG) is being asked to provide examples of technologies that have influenced application spaces in the past and what are your respective groups working on for the future that you think could have the same impact.
   3. **Some very nice feedback so far:**
   4. **The RR-TAG has contributed to supportive rulemaking around the world to expand availability of license exempt spectrum, which has enabled innovation leading to connecting everything with everything.  Few bits go from one place to another without traversing an 802 technology operating in licensed exempt spectrum.  802.18 advocacy has encouraged adoption of new models for spectrum sharing, the full benefit of which is just beginning to be realized.**
   5. **Expansion of license exempt spectrum:** 
      1. Adoption of mmWave around the world, following the USA lead
      2. Expansion of spectrum availability world-wide for licensed-exempt operation below 1 GHz
         1. Expanding opportunity for IoT, Smart city, etc.
      3. Expansion and harmonization of license-exempt bands above 1 GHz
         1. The most significant license-exempt 5 GHz technology has come from IEEE efforts.
      4. Advocacy of THz allocations
   6. **Spectrum sharing**
      1. Advocacy of white space and cognitive sharing
   7. **Anything else the RR-TAG can feedback by friday?**
2. Chair presents slide 17 & 18, General discussion items
   1. **Japan MIC’s WRC-19 final position:**
      1. After the consultation ends on July 1, Japan MIC has published its final position today on various WRC-19 agenda items for its preparation to APG19-5 and WRC-19:
      2. <http://www.soumu.go.jp/main_content/000634928.pdf>
   2. **USA FCC proposed rule 3.7-4.2GHz Band Proceeding**
      1. FR Document: [2019-15749](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.federalregister.gov_documents_2019_07_23_2019-2D15749_wireless-2Dtelecommunications-2Dbureau-2Dinternational-2Dbureau-2Doffice-2Dof-2Dengineering-2Dand-2Dtechnology-2Dand-3Futm-5Fcampaign-3Dsubscription-2Bmailing-2Blist-26utm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=lPdoklwdyDyrBwZaKh8N3mswnd7mVwDGKi8dLuqyGMU&s=YoyXbEqZ0y58XXDSBjJ1zJ0TPX_XnLELbsdB1UZamDE&e=) Citation: 84 FR 35365
      2. [PDF](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.govinfo.gov_content_pkg_FR-2D2019-2D07-2D23_pdf_2019-2D15749.pdf-3Futm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail-26utm-5Fcampaign-3Dsubscription-2Bmailing-2Blist&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=lPdoklwdyDyrBwZaKh8N3mswnd7mVwDGKi8dLuqyGMU&s=uu-gfcxWcOIfCRNoMa5FXHkIu9udiaIu4ZaX3LgN-3s&e=) Pages 35365-35368 *(4 pages)* [Permalink](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.federalregister.gov_d_2019-2D15749-3Futm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail-26utm-5Fcampaign-3Dsubscription-2Bmailing-2Blist&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=lPdoklwdyDyrBwZaKh8N3mswnd7mVwDGKi8dLuqyGMU&s=3-snQ1M-hQwtCyoxwU6ftCpmTOr12gkv8mJZRpbGjXA&e=)
      3. Abstract: In this document, we invite interested parties to supplement the record to address issues raised by commenters in response to the Commission's July 2018 Notice of Proposed Rulemaking Specifically, among other issues, the Bureaus and Offices seek comment on proposed auction-based approaches, other transition mechanisms to introduce new flexible-use licensing in the band, appropriate repurposing methodologies, Fixed Satellite Service earth station protection criteria, and technical rules, as...
   3. **South Africa (ICASA): NOTICE OF INTENTION TO AMEND ANNEXURE B OF THE RADIO FREQUENCY SPECTRUM REGULATIONS, 2015** 
      1. <https://www.icasa.org.za/news/2019/icasa-begins-a-process-to-review-annexure-b-of-the-radio-frequency-spectrum-regulations-of-2015>
      2. In this regard, ICASA has published a notice of its intention to amend Annexure B in the Government Gazette where interested stakeholders are invited to submit written representations with regards to the proposed amendments by close of business on 06 September 2019
3. Chair presents slide 19, Actions required
   * MCMC (Malaysia) consultation on WRC-19 Agenda Items, comments
   * UWB petition for rule making comments
   1. Ongoing:
   2. WPT use of license-exempt bands
   3. Digital Divide, how can we help?
4. Chair presents slide 20 Any Other Business
   1. Nothing brought up
5. Chair presents slide 21, Adjourn
   1. Next teleconference: 08 August 2019 – 15:00 – <15:55 ET
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-12-0000-teleconference-call-in-info.pptx> (or latest)
      2. All late changes/cancellations will be sent out to the 802.18 list server.
   2. Adjourn:
      1. Agenda complete, any objection to Adjourn.
      2. None heard, Adjourn at 15:55 ET.
   3. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 17 – 19 Sept. 2019 Wireless Interim in the JW Marriott Hotel, Hanoi, Vietnam
      1. Normal time slots, Tuesday AM2 and Thursday AM1
      2. <http://www.mtgevents.com.au/ieee2019/visa-and-travel/>
   4. **Thank You**