IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 12 Dec 2019 | | | | |
| Name | Affiliation | Address | Phone | Email |
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|  | | | | |
| Author and Officer presiding: | | | | |
| Jay Holcomb,  Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | +1(509) 891-3281 | jholcomb@ieee.org |

Abstract

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 12 Dec 2019

**Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **12dec** | **05dec** | **21nov** | **07nov** | **24oct** | **17oct** | **03oct** | **12sep** | **05sep** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** |  |  | **x** | **x** | **x** | **x** | **x** | **x** |
| Harrington | Tim | Pro ID & UWB Alliance |  |  |  |  |  |  | **x** |  | **x** |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kain | Carl | Noblis, Inc. | **x** | **x** |  |  |  |  |  |  |  |
| Kenney | John | Toyota ITC | **x** | **x** |  | **x** |  |  |  |  | **x** |
| Kerry | Stuart | Ruckus/ |  |  |  | **x** |  |  | **x** | **x** | **x** |
| Lansford | Jim | Qualcomm | **x** |  |  |  |  |  |  |  |  |
| Lepp | James | BlackBerry | **x** |  | **x** |  |  |  |  |  |  |
| Lynch | Mike | MJLynch Assoc |  | **x** | **x** |  | **x** | **x** | **x** |  | **x** |
| Mody | Apurva | AIRANACULUS |  |  |  |  |  |  | **x** | **x** |  |
| Nikolich(lmsc) | Paul | Self and others |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. | **x** | **x** | **x** |  | **x** |  | **x** |  | **x** |
| Sarris | Ioannis | u-blox |  | **x** |  |  |  |  |  |  |  |
| Scott | Andy | NCTA |  |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE | **x** |  |  |  |  |  |  |  |  |
| Verso | Billy | DecaWave |  |  |  |  |  |  |  |  |  |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** |  |  |  | **x** | **x** | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **12dec** | **05dec** | **21nov** | **07nov** | **24oct** | **17oct** | **03oct** | **12sep** | **05sep** |
| Au | Edward | Huawei | **x** |  | **x** |  |  |  |  |  | **x** |
| Hervieu | Lili | Cable TV Labs |  | **x** |  |  |  |  |  |  |  |
| Levy | Joseph | Interdigital |  | **x** | **x** |  |  | **x** | **x** |  | **x** |
| Aboul-Magd | Osama | Huawei |  |  | **early** |  |  |  |  |  |  |

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

1. Chair presents slides 2 – 6 of 802.18-19/0155r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-19/0155r01, the agenda:
   1. Call to Order
   2. Administrative items
      1. Someone to take some notes: jay
   3. Approve agenda & last minutes
   4. Discussion items
      1. EU Items
      2. ITU-R Items
      3. 5.9 GHz FCC’s draft NPRM
      4. General Discussion Items
   5. Actions required
      1. 5.9 GHz NPRM comments
      2. Maybe Ofcom consultation
      3. Anything new today
      4. Later: WRC-xx Agenda Items, interest to IEEE 802
   6. AOB and Adjourn
3. Chair presents slide 8, Administrative – Motions and more
   1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Peter Ecclesine (Cisco))

Seconded by: Hassan Yaghoobi (Intel)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion**: **To approve the minutes from the IEEE 802.18 Teleconference 05 Dec 2019 in document** [**https://mentor.ieee.org/802.18/dcn/19/18-19-0154-00-0000-minutes-05dec19-rrtag-teleconference.docx**](https://mentor.ieee.org/802.18/dcn/19/18-19-0154-00-0000-minutes-05dec19-rrtag-teleconference.docx)06-Dec-2019 10:13:51 ET

Moved by: Vijay Auluck (self)

Seconded by: Jim Lansford (Qualcomm)

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?** nothing heard

1. Chair presents slides 9-10, EU items to share
   1. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meetings #105, 23–27Mar20, Sophia-Antipolis**
      1. Meeting last week and nothing of note was finished.
      2. Spectrum mask work continues.
      3. EN 303 687 - 6 GHz, waiting for FM57 and SE45 to meet again.
      4. EN 301 893 - 5 GHz standard continues to be worked.
      5. EN 302 567 - 60 GHz status quo.
      6. Remember 802.11 members have access to the notes in the .11 private area.
   2. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #10, 20-22Jan20, Prague, Czech Republic**
      1. Met this week and only about 6 hrs of meetings.
      2. RLAN industry introduced a doc on fading analysis, fair amount of discussion and how to document fading. French and RLAN models will both be documented.
         1. North Sea links are an issue due to lack of terrain data, common to both ends.
2. Chair presents slide 11, ITU-R items to share
   1. Submission to update ITU-R M.1450 (Characteristics of broadband RLANs)
      1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0157-00-0000-an-update-on-the-recommendation-itu-r-m-1450-5.pptx>
      2. There are many places throughout M.1450 that are out of date w.r.t. IEEE 802 standards.
      3. 802.11 chair comments 802.11 should update their section of technology.
      4. Yes, IEEE 802 (with 802.11 and 802.18) as a sector member should consider doing a submission by 2 weeks before 27 April meeting of WG 5A.
   2. WRC-19 is over, links with updates and final acts. (will hold on this for a bit)
      1. <https://cept.org/ecc/groups/ecc/cpg/page/weekly-report-from-wrc-19>[/](https://cept.org/ecc/groups/ecc/cpg/page/weekly-report-from-wrc-19/)
      2. <https://www.itu.int/en/ITU-R/conferences/wrc/2019/Documents/PFA-WRC19-E.pdf>
      3. Our viewpoints/watch list: 1.12, 1.13, 1.15, 1.16, 9.1.5, 10 [<click here>](https://mentor.ieee.org/802.18/dcn/17/18-17-0073-07-0000-ieee-802-viewpoints-on-wrc-19-agenda-items.pptx)
      4. Comparison of our last views points to WRC-19 final acts. [<click here>](https://mentor.ieee.org/802.18/dcn/19/18-19-0152-00-0000-summary-of-the-decisions-of-selected-agenda-items-in-wrc-19.pptx)
      * Over time will work on a summary spreadsheet on comparison
   3. WRC-23 Agenda Items are at the end of 19-0152, will go through them as time permits.
   4. **AOB for ITU-R?**
      1. None heard.
3. Chair presents slide 12-14, FCC’s 5.9 GHz NPRM
   1. Mentor:
   2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0150-00-0000-chairman-pais-remarks-new-5-9-ghz-band-proposal.docx>
      1. FCC: <https://www.fcc.gov/document/chairman-pais-remarks-new-59-ghz-band-proposal>
   3. “Specifically, I’m proposing to make available the lower 45 MHz of the band for unlicensed uses like Wi-Fi and allocate the upper 20 MHz for a new automotive communications technology, Cellular Vehicle to Everything, or C-V2X. I’m also proposing that we seek public input on whether to allocate the remaining 10 MHz in the band to C-V2X or DSRC. The Commission will vote on this Notice of Proposed Rulemaking at our December 12 meeting. “
   4. **The 12 Dec Commissioners Open call agenda came out earlier today with this.**
      1. <https://www.fcc.gov/news-events/events/2019/12/december-2019-open-commission-meeting>
   5. **Draft NPRM:** 
      1. Agenda has link to draft nprm: <https://www.fcc.gov/document/promoting-innovation-59-ghz-band>
      2. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0151-00-0000-fcc19-138-draft-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
   6. **Proceeding 19-138:**
      1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
      2. Ford and Global Automakers have already filed some notices early in the week and more today.
      3. In general notices to date are as expected. Already 15 inputs/notices
   7. **What does IEEE 802 do? We should do comments.**
      1. Question asked before: what is the DOT position on this? \_\_\_\_\_
      2. **Draft timeline:** 
         1. ***Assume*** Federal Register 4 weeks after the Open Call, 12jan (normal 3 + 1 holiday)
            1. Risk: Chairman Pai wants to fast track this.
         2. They say a 30-day comment period, so 11feb.
         3. Back up 2 weeks for LMSC(EC) ballot start 28-ish jan,
         4. **So 802.18 needs to approve by 23jan**. (week after Wireless Interim)
         5. They say a 60-day reply comment period, so 12mar. .18 would need to approve 27feb.
         6. Chair will send to 802.11bd.
      3. **We need to get to specific/clear areas we want to build comments on.**
      * All – please send to listserver or the .18 chair, specific areas we should comment on.
      1. Final version of the NPRM should be out early next week. Need to get and send note on listserver with where to get it.
      2. What about asking FCC for an extension (once the date is set)? Keep in mind.
         1. Need to consider and there is a filing type: Request for extension of time.
         2. Need contributions for a request for extension of time. Who: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      3. What about asking FCC for an extension (once the date is set)? Keep in mind
         1. Need to consider and there is a filing type: Request for extension of time.
      4. Expand member’s suggested 3 focus areas we could comment on.
         1. 1- re-channelization in general
            1. The FCC is not talking sharing, as IEEE 802 has proposed in the past.
            2. We could bring out the need for sharing, where IEEE 802 a- possible points. a whole could be in agreement
         2. 2- the 30MHz channelization for ITS
            1. We could question the focus on C-V2X and pull from our 5GAA comments, e.g. forward evolution is limited
         3. 3- Emission requirements
            1. note: 11p and 11bd can work with 10MHz, the existing channel 180, which the NPRM is tbd on.
            2. Do we promote technology neutral? Commercial maybe, though safety this may not be best.
      5. How do we comment on the comment from Chairman Pai that DSRC has gone no where (why it has been slow)?
         1. Will the same forces be in effect after this?
         2. E.g. it is not totally technology, much of the slowness is institutional and standards evolved over some of that time and continues.
      6. Need to review our past comments to DoT, 5GAA, etc. what can we pull from them.
      7. Maybe some or most of our focus is on the 10 MHz where they are asking what to put in there, the only place left for DSRC.
      8. From the open meeting seems they are heading in the direction the NPRM with focus on C-V2X and Wi-Fi at the bottom. Not much on DSRC.
      9. They want the band usable sooner.
      10. There are OOBE issues and can we use that in our comments, which comes back to the band usable.
      11. What about a Guard Band and safety of life?
      12. .11 groups and then .11bd group may have some difference of opinions what to do the way the NPRM is done.
      13. Paragraph 54 and 55 are key.
4. Chair presents slide 15-16, General discussion items
   1. **Ofcom consultation on changes to the licence exemption for Wireless Telegraphy Devices; closing 17 Jan 20 (02jan for us).** [**<click here, long link>**](https://www.ofcom.org.uk/consultations-and-statements/category-3/proposal-changes-licence-exemption-wireless-telegraphy-devices?utm_medium=email&utm_campaign=Ofcom%20consults%20on%20new%20regulations%20for%20short%20range%20wireless%20devices&utm_content=Ofcom%20consults%20on%20new%20regulations%20for%20short%20range%20wireless%20devices+CID_3d9e647de99bfd4993b55510c88bf5d5&utm_source=updates&utm_term=published%20proposals)
      1. a European Commission Decision that harmonises the frequencies and technical parameters for certain categories of short-range device (SRD) applications within the 874 to 876 and 915 to 921 MHz bands; and [<the EC decision>](https://ec.europa.eu/digital-single-market/en/news/commission-harmonises-radio-spectrum-support-internet-things)
      2. an Ofcom decision to revoke the licence exemption for the use of Railway Level Crossing Radar Sensor Systems and to introduce a national licence for this equipment.
      3. **3 questions:**
      4. Question 1: Do you agree with Ofcom’s proposals to implement changes, that are consistent with the SRD Decision, within the 874 to 876 and 915 to 921 MHz frequency bands for SRDs?
      5. Question 2: Do the proposed Regulations and proposed changes to IR 2030 correctly implement our proposals?
      6. Question 3: Do you agree with Ofcom’s proposals to remove the licence exemption currently in the 2010 Regulations for Railway Level Crossing Radar Sensor Systems?
      7. Does IEEE 802 want to respond with comments? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * **Next week, 19dec, we need to decide if we work on the 3 questions or not.**
      1. Ofcom has a 3.8-4.2 GHz process that maybe more for IEEE 802.
   2. **Japan MIC is conducting a survey regarding new wireless usage at 900  
      MHz band,** specifically 845 to 860 MHz and 928 to 940 MHz that the MICis re-farming. For details, you can refer to<http://www.soumu.go.jp/menu_news/s-news/01kiban14_02000411.html>The deadline for submitting the survey is January 15, 2020.(02jan for us).
      1. IEEE 802.18 will pass on this one.
   3. ACMA comments approved on 21st of Nov. status
      1. We filed late after Early Close EC ballot did not work
   4. **On hold:**
   5. **IEEE-EU spectrum position paper update: (Will pickup later)**
      1. <https://mentor.ieee.org/802.18/dcn/18/18-18-0028-02-0000-draft-ieee-european-public-policy-position-statement-on-spectrum-management.docx>
      2. The IEEE SA position that the RR-TAG help develop, we had requested to use in the EU, in place of theirs:
         1. <https://mentor.ieee.org/802.18/dcn/18/18-18-0010-10-0000-sa-use-of-spectrum-draft-position-orig06dec17.docx>
5. Chair presents slide 17, Actions required
   * **Chair to send .18 draft timeline for comments to P802.11bd folks.**
   * **Chair to send note to list server please send in clear areas we should consider for comments.**
   * **Chair to send note on Ofcom comments, should we do comments or pass?**
   1. Soon (after 5.9 GHz):

* **Start to consider what are IEEE 802 viewpoints are for WRC-23 agenda items.** 
  1. Ongoing:
     1. WPT use of license-exempt bands and UWB in cell phones
     2. Digital Divide, how can we help?

1. Chair presents slide 18 Any Other Business
   1. FYI - Does IEEE 802 have any concerns/inputs on RF exposure? FCC has a proceeding with an NPRM as part of it (along with an R&O and NOI resolution).
   2. FYI - Sounds like the FCC R&O for 6GHz may move to the 28feb open meeting, stay tuned.
2. Chair presents slide 19, Adjourn
   1. Next teleconference: 19 Dec 2019 – 15:00 – <15:55 ET
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-13-0000-teleconference-call-in-info.pptx> (or latest) *(new call in on 09Jan)*
      2. All late changes/cancellations will be sent out to the 802.18 listserver.
   2. Meeting on the 26th? \_will head that way, knowing maybe with limited folks\_
   3. Will meet on 02 Jan also.
   4. Adjourn:
      1. Agenda complete, any objection to Adjourn.
      2. None heard, Adjourn at 15:57 ET.
   5. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 12–17 Jan. 2019 Wireless Interim in the Hotel Irvine, Irvine, California, USA
   6. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start) – remember no reciprocal from other WGs
   7. **Thank You**