IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 13 Feb 20 | | | | |
| Name | Affiliation | Address | Phone | Email |
|  | | | | |
|  |  |  |  |  |
|  | | | | |
| 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, 13 Feb 20

**Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **13feb** | **11feb** | **06feb** | **30jan** | **23jan** | **09jan** | **02jan** | **26dec** | **19dec** |
| Auluck | Vijay | Self Employed |  |  |  |  |  | **x** | **x** |  |  |
| Boldy | David | Broadcom | **x** | **x** | **x** | **x** |  |  |  |  |  |
| De Vegt | Rolf | Qualcomm | **x** |  |  | **x** |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **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** |
| Jefferies | Tim | FutureWei | **x** |  | **x** | **x** | **x** |  |  |  | **x** |
| Kain | Carl | Noblis, Inc. | **x** | **x** |  | **x** | **x** | **x** |  |  | **x** |
| Kenney | John | Toyota ITC |  |  | **x** | **x** | **x** | **x** |  |  | **x** |
| Kerry | Stuart | Ruckus/CommScope | **x** | **x** |  | **x** | **x** |  |  |  |  |
| Lansford | Jim | Qualcomm |  |  |  |  |  |  |  |  |  |
| Lepp | James | BlackBerry | **x** | **x** | **x** |  | **x** | **x** |  |  | **x** |
| Lynch | Mike | MJLynch Assoc | **x** |  |  | **x** |  | **x** | **x** | **x** | **x** |
| Nikolich(lmsc) | Paul | Self and others |  |  |  |  |  |  |  |  |  |
| Palm | Stephen | Broadcom |  |  |  | **x** | **x** |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. |  | **x** | **x** |  |  |  | **x** | **x** | **x** |
| Sarris | Ioannis | u-blox |  | **x** | **x** |  | **x** |  |  |  |  |
| Schiessl | Sebastian | u-blox | **x** | **x** | **x** |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE | **x** |  | **x** | **x** | **x** |  | **x** |  | **x** |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **13feb** | **11feb** | **06feb** | **30jan** | **23jan** | **09jan** | **02jan** | **26dec** | **19dec** |
| Aboul-Magd | Osama | Huawei |  |  |  |  |  |  |  |  |  |
| Au | Edward | Huawei | **x** |  | **x** | **x** |  |  | **x** | **x** |  |
| Hamilton | Mark | Ruckus/CommScope | **x** |  |  |  |  |  |  |  |  |
| Hervieu | Lili | Cable TV Labs | **x** |  | **x** |  |  |  |  |  | **x** |
| Levy | Joseph | Interdigital | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Lisa | Ward | Rohde&Schwarz |  |  | **x** |  |  | **x** |  |  |  |
| Perkins | Richard | Qorvo |  |  |  |  |  |  |  |  | **x** |
| Yucek | Tevfik | Qualcomm |  | **x** |  |  |  |  |  |  | **x** |
| User 4 |  |  |  |  |  |  | **x** |  |  |  |  |

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

1. Chair presents slides 2 – 6 of 802.18-20/0015r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0015r01, the agenda:
   1. Call to Order
   2. Administrative items
      1. Someone to take some notes: Peter Ecclesine (Cisco)
   3. Approve agenda & last minutes
   4. Discussion items
      1. EU Items
      2. ITU-R Items
      3. Ofcom spectrum access for Wi-Fi consultation
      4. FCC 5.9 GHz FCC’s NPRM
      5. General Discussion Items
   5. Actions required
      1. FCC 5.9 GHz NPRM contributions
      2. Ofcom Wi-Fi consultation contributions
      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: Stuart Kerry (Ruckus/Ruckus/CommScope

Seconded by: Mike Lynch (MJLynch Assoc)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 06 Feb 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0014-00-0000-minutes-06feb20-rrtag-teleconference.docx> 07-Feb-2020 23:49:09 ET

Moved by: David Boldy (Broadcom)

Seconded by: Stuart Kerry (Ruckus/Ruckus/CommScope

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. Remember – BRAN documents can be found in the 802.11 private area documents
   2. CEPT – ECC [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) next meeting #10, 12-14May20, Kristiansand, Norway
      1. Draft discussion is to take a 5 month delay on report B. Using a new analysis on CBTC (train control), that will come direct to FM57. (meeting in Nov is now the target)
      2. CEPT – ECC [<WGFM>](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/) next meeting #95, 10-14Feb20, Sienna, Malta
         1. Nothing specific now, possibly next week.
2. Chair presents slide 11, ITU-R items to share
   1. WP 5D will have first meeting after WRC next week, looking at sharing studies. See AIs 1.1, 1.2 and 1.4. (some question on how attendance will work with Coronavirus issues…)
   2. The Ad Hoc on M.1450 and M.1801 is making good progress and there are 2 stable drafts, please review and provide feedback:
   3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0253-01-0itu-itu-ahg-m-1450-5-edits.docx>
   4. <https://mentor.ieee.org/802.11/dcn/20/11-20-0254-01-0itu-itu-ahg-m-1801-2-edits.docx>
3. Chair presents slides12-13, Ofcom consultation on Improving spectrum access for Wi-Fi
   1. **Ofcom consultation on Improving spectrum access for Wi-Fi** 
      1. <https://www.ofcom.org.uk/consultations-and-statements/category-2/improving-spectrum-access-for-wi-fi>
      2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0006-00-0000-ofcom-consultation-improving-spectrum-access-for-wi-fi.pdf>
      3. Comments due 20 March 2020**. (would need .18 approval 05 March.)** 
         1. Based on our initial analysis and stakeholder engagement, we are proposing the following:
            1. To permit access to the 6 GHz (5925-6425 MHz) band on a licence-exempt basis with maximum EIRP levels of 250mW for indoor use and 25mW for outdoor use;
            2. And - To remove the DFS requirements from the 5.8 GHz (5725-5850 MHz) band for unlicensed indoor use only.
   2. **.18 question: With 5.9 GHz NPRM out (next topic) what do we do with this consultation?** 
      1. We only need 2-3-4 sentences on Q1 and Q3, unless we get contributions on Q2 &Q4?
      2. We have 2 volunteers drafting some text for review.
   3. **Question 1:** Do you have any comments on our proposal to open access to the 5925-6425 MHz band for licence-exempt Wi-Fi use?
      1. We would support and need to keep adj. chans in mind.
   4. **Question 2:** Do you have any comments on our technical analysis of coexistence in the 5925-6425 MHz band?
      1. (depends on contributions)
   5. **Question 3:** Do you agree with our proposal to remove DFS requirements for indoor Wi-Fi up to 200mW from the 5725-5850 MHz band?
      1. We would support. What would we say about 200mW?
   6. **Question 4:** Do you have any comments on other options that may be available for Wi-Fi and RLANs within the 5 GHz band?
      1. (depends on contributions)
4. Chair presents slide 14-18, FCC’s 5.9 GHz NPRM
   1. **The NPRM:**
   2. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0163-02-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx> (🡺r01/02 Fed. Reg. some updates.)
   3. **Proceeding 19-138:**
   4. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
   5. **Timeline, with the NPRM published - 06Feb.** 
      1. 30 days has comments due Monday 09March. (reply comments due 06April)
      2. For 10-day LMSC ballot: absolute latest would be .18 approves 27Feb,
         1. However very risky, only a few hours of pad, and would have to depend on early close from EC to help mitigate the risk, etc.
      3. **Very short discussion…**
         1. **we will target to approve in .18 on Thursday 20 February.**
   6. Ad hocs coming up: see ad hoc agenda back up slides for all the call-in info.
      1. **Updated call in information for ad hocs the 18th and on.** (since r00 of the ad hoc agenda)
      2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0018-01-0000-agenda-11feb20-rrtag-ad-hoc-telecon.pptx>
      3. Sending to .11 list server now also.
      4. Friday 14th – 3pm–et-2hr
      5. Tuesday 18th – 3pm–et-2hr
      6. Wednesday 19th - 3pm–et-2hr
      7. 20th is target to approve, next week
      8. Friday 21st - 3pm–et–2hr tbd
      9. Tuesday 25th - 3pm–et-2hr tbd
   7. Of course, not all can make each one and/or the entire time, so just asking to do what you can.
   8. Any adjustment, cancellations, etc. watch the .18 list server
   9. Chair missed putting the link to the latest draft comments in agenda rev0, here it is:
   10. Current draft comments is rev03, rev 04 will be worked in this meeting and uploaded after the meeting.
   11. <https://mentor.ieee.org/802.18/dcn/20/18-20-0020-03-0000-comments-on-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
   12. Remember from discussions in Irvine.
       1. Focus on what we all can agree on, pass on what we don’t have agreement on.
       2. Neutral on the partitioning, e.g. 45MHz/30MHz split in the NPRM
       3. Use the migration from 802.11p to 802.11bd to our advantage and how it strengthens the future of ITS, e.g. compatibility etc.
       4. What ITS functions can be done in general unlicensed spectrum, so then IEEE 802.11 can be used throughout the entire band.
          1. Promote IEEE 802 as an open standard and update the standards terminology used.
   13. Have not received OOBE contribution that we could drop in and discuss.
       1. We may have to depend on contributions from external organizations, to cover this.
   14. Chair asked to propose a timeline, this was done after the meeting and will be sent out:
   15. Friday 14th – 3pm–et-2hr
       1. Sections 2.1, 2.2 , 3.1, 3.2
   16. Tuesday 18th – 3pm–et-2hr
       1. Sections 4.2, 5.1, 6 and 7.4
       2. Do we remove OOBE?
       3. Need more contributions for 6.1
   17. Wednesday 19th - 3pm–et-2hr
       1. 8.0, conclusion, references, sections w/o blu ?s and overall review.
   18. Thursday 20th is target to approve (next week) only 55 minutes.
       1. Extremely fast read and vote.
   19. 21Feb – 02Mar LMSC(EC) ballot
   20. 03Mar 24 hrs for all votes to come in per the rules.
   21. 04Mar ready to upload to FCC
   22. slide with the motion to approve comments next week, the 20th, is standing by.
   23. See agenda later slides for details and some historical points already discussed.
5. Chair presents slide 19, General discussion items
   1. nothing today.
6. Chair presents slide 20, Actions required
   * **Comment contributions for 5.9 GHz NPRM**
   1. **Comment contributions for Ofcom consolation on WiFi; best by Wednesday morning to the chair to give a day to put into the required form, to review on Thursday.**
   2. 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 21 Any Other Business
   1. Nothing heard
2. Chair presents slide 22, Adjourn
   1. Next teleconference: 20feb2020 – 15:00 – <15:55 ET
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-14-0000-teleconference-call-in-info.pptx> (or latest)
      2. All late changes/cancellations will be sent out to the 802.18 list server.
   2. Next ad hoc on 5.9 GHz NPRM comments: Friday, 14Feb at 3pm-et
      1. Call in sent out in email.
   3. Adjourn:
      1. Agenda complete, any objection to Adjourn.
      2. None heard, Adjourn at 15:56et
   4. Next Plenary:
   5. The next face to face meeting (after next week) of the 802.18 RR-TAG will be at the IEEE 802, 15-20 March 2020 Plenary in Hilton Atlanta, Atlanta, GA, USA
   6. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start)–remember no reciprocal from other WGs
   7. (Book rooms for Montreal 12-17Jul Plenary)
   8. **Thank You**