IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 20 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, 20 Feb 20

**Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **20feb** | **19feb** | **18feb** | **14feb** | **13feb** | **11feb** | **06feb** | **30jan** | **23jan** |
| Auluck | Vijay | Self Employed |  |  |  |  |  |  |  |  |  |
| Boldy | David | Broadcom | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
| De Vegt | Rolf | Qualcomm | **x** |  |  |  | **x** |  |  | **x** |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** | **x** |  | **x** | **x** | **x** | **x** | **x** |  |
| Fang | Yonggang | ZTE TX Inc |  | **x** |  |  |  |  |  |  |  |
| Harrington | Tim | Pro ID & UWB Alliance |  |  |  |  |  |  |  |  |  |
| 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** |
| Kenney | John | Toyota ITC | **x** | **x** | **x** |  |  |  | **x** | **x** | **x** |
| Kerry | Stuart | Ruckus/CommScope | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** |
| Lansford | Jim | Qualcomm |  |  |  | **x** |  |  |  |  |  |
| Lepp | James | BlackBerry | **x** | **x** |  | **x** | **x** | **x** | **x** |  | **x** |
| Lynch | Mike | MJLynch Assoc |  |  |  |  | **x** |  |  | **x** |  |
| Nikolich(lmsc) | Paul | Self and others | early | early | **x** |  |  |  |  |  |  |
| Palm | Stephen | Broadcom |  |  |  |  |  |  |  | **x** | **x** |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. |  |  | **x** |  |  | **x** | **x** |  |  |
| Salaszar | Ruben | Landis & Gyr | **x** |  |  |  |  |  |  |  |  |
| Sand | Stephen | DLR | **x** |  |  |  |  |  |  |  |  |
| Sarris | Ioannis | u-blox | **x** | **x** | **x** | **x** |  | **x** | **x** |  | **x** |
| Stanley (lmsc) | Dorothy | HPE |  |  |  | **x** | **x** |  | **x** | **x** | **x** |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | | |
| **20feb** | **19feb** | **18feb** | **14feb** | **13feb** | **11feb** | **06feb** | **30jan** | **23jan** | |
| Aboul-Magd | Osama | Huawei |  | **x** |  |  |  |  |  |  |  | |
| Au | Edward | Huawei |  |  |  |  | **x** |  | **x** | **x** |  | |
| Hamilton | Mark | Ruckus/CommScope |  |  |  |  | **x** |  |  |  |  | |
| Haskou | Abdullah | Interdigital |  |  |  | **x** |  |  |  |  |  | |
| Hervieu | Lili | Cable TV Labs | **x** |  |  |  | **x** |  | **x** |  |  | |
| Levy | Joseph | Interdigital | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | |
| Lisa | Ward | Rohde&Schwarz |  |  | **x** |  |  |  | **x** |  |  | |
| Perkins | Richard | Qorvo |  |  |  |  |  |  |  |  |  | |
| Roy | Dick | Self | **x** | **x** | **x** | **x** |  |  |  |  |  | |
| Schiessl | Sebastian | u-blox | **x** | **x** | **x** |  | **x** | **x** | **x** |  | |  |
| Yucek | Tevfik | Qualcomm |  |  |  |  |  | **x** |  |  |  | |
| User 4 |  |  |  |  |  |  |  |  |  |  | **x** | |

Chair calls the meeting to order at 15:02 ET.

1. Chair presents slides 2 – 6 of 802.18-20/0023r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0023r01, 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 consultation on spectrum access for Wi-Fi
      4. FCC NPRM on 5.9 GHz
      5. General Discussion Items
   5. Actions required
      1. FCC NPRM on 5.9 GHz comments to EC if approved
      2. Ofcom consultation on Wi-Fi 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/CommScope)

Seconded by: Tim Jefferies (FutureWei)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 13 feb 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0016-00-0000-mnutes-13feb20-rrtag-teleconference.docx> 13-Feb-2020 22:33:13 ET

Moved by: Stuart Kerry (Ruckus/CommScope)

Seconded by: Peter Ecclesine (Cisco systems)

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. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meetings #105, 23–27Mar20, Sophia-Antipolis**
      1. Couple of go-to meetings preparing for f2f in March on:
      2. Preamble detection
      3. Drafting 6 GHz harmonized standard.
   3. CEPT – ECC [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) next meeting #11, 15-16Apr20, Copenhagen, Denmark
      1. Draft ECC Report 316 (Sharing studies assessing short-term interference from Wireless Access Systems including Radio Local Area Networks (WAS/RLAN) into Fixed Service in the frequency band 5925-6425 MHz) went to public consultation,
         1. To complement the existing studies of ECC Report 302 related to the short-term interference protection of Point-to-Point Fixed Service from WAS/RLAN indoor only deployments as well as potential WAS/RLAN portable devices that operate outdoor with power levels significantly lower than that for indoor use.
2. Chair presents slide 11, ITU-R items to share
   1. nothing to share today
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. Will check with volunteers if we can have something next week to 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 14-17, 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. **Before it was a very short discussion…**
         1. **we will target to approve in .18 on Thursday 20 February (today)**
   6. Remember from discussions in Irvine. (high level direction on comments)
      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.
      5. In Wednesday’s ad hoc, was able to get through all the content.
      6. Here is the last marked up revision r09:
         1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0020-09-0000-comments-on-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
      7. Here is the last revision r10, a cleaned copy of r09.
         1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0020-10-0000-comments-on-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
      8. We reviewed/updated rev11 with the goal to vote on it.
         1. Note: we needed to at least add a draft watermark, hence will review r11,
         2. There are a few grammar updates that have been sent in before the meeting,
         3. In the meeting, a member requested to remove end of introduction (802.11 Tiger team info) and section 3.2; this was approved
            1. This caused a reference to not to be used.
            2. The voters approved to allow the chair editorial privilege to update all the reference numbering later, before submittal to LMSC ballot.
            3. Which will become r13 marked up and r14 clean for LMSC ballot.
         4. We reviewed and updated some grammar and removed the 802.15 in front of Bluetooth® in section 4 (and added a footnote for ®.)
         5. A difficult discussion on the conclusion after the time limit set to start vote.
            1. Running extremely late, was not able to come to agreement by all on any proposed updates to the conclusion, either more on WLAN or more on ITS, so with time negative, we left as it was.
         6. This caused a delay in the voting and was not able to upload a clean copy (and mentor had errors would not upload), so voters approved to vote on marked up r11 and allow chair to use editorial privilege to upload clean copy r12 later.
      9. With it approved, then goal is: 21Feb – 02Mar LMSC(EC) ballot
         1. 03Mar 24 hrs for all votes to come in per the rules.
         2. 04Mar ready to upload to FCC
   7. **FCC NPRM Revisiting-use-of-the-5850-5925-MHz-band**
   8. **Motion:** Move to approve the comments in [https://mentor.ieee.org/802.18/dcn/20/18-20-0020-11-](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)[0000-comments-on-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx](https://mentor.ieee.org/802.18/dcn/20/18-20-0020-11-0000-comments-on-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx) ; response to FCC NPRM (ET 19-138) on revisiting use of the 5850-5925 MHz-band. For review and approval by the EC for uploading to the FCC on or before 08 March 2020. The Chair of 802.18 is authorized to make editorial changes, as necessary.

**Moved by: James Lepp (Black Berry)**

**Seconded by: Tim Jefferies (FutureWei)**

**Discussion? none**

**Vote: \_11\_Y / \_0\_N / \_1\_A**

**Voters: David, jay, Hassan, Ioannis, James, John, Peter, Rolf, Ruben, Stuart, TimJ, StephenS** (this is a count check, see above for full name and affiliation of voters present)

**Motion - Passes**

**\_16\_ on the call**

* 1. See agenda later slides for details and some historical points already discussed.

1. Chair presents slide 18, General discussion items
   1. nothing today.
2. Chair presents slide 19, Actions required
   * **If approved, Chair starts LMSC (EC) ballot on the FCC 5.9 GHz NPRM.**
   * **Comment contributions for Ofcom consolation on WiFi;** 
     1. **best by Wednesday to the chair to allow time to put into the required form, for Thursday review**
   * **ITU-R THz SM.2352 submission (from last July) for approval at March Plenary from 802.15 Terahertz IG.**
   1. Soon (after 5.9 GHz and Ofcom):

* **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 20 Any Other Business
   1. For tentative (5.9 GHz) ad hocs that were scheduled, was asked to leave them, and cancel at the end if not needed.
   2. Friday 21st - 3pm–et–2hr tbd
   3. Tuesday 25th - 3pm–et-2hr tbd
2. Chair presents slide 21, Adjourn
   1. Next teleconference: 27feb2020 – 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. Adjourn:
      1. Agenda complete, any objection to Adjourn.
      2. None heard, Adjourn at 15:55et
   3. Next Plenary:
   4. 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
   5. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start)–remember no reciprocal from other WGs
   6. (Book rooms soon for Montreal 12-17Jul Plenary)
   7. **Thank You**