IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 17-19 Sept 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 Wireless Interim face to face, 17-19 Sept 2019

Chair calls the meeting to order at 10:33 local, Tuesday 17 Sept. 2019. About 20 attendees.

1. Chair presents slides 2, 3, and 4 of 802.18-19/0126r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 5, of 802.18-19/0126r01, the agenda:
   1. Call to Order
      1. Attendance server is open.
      2. Remember
   2. Administrative items
      1. Need someone to take notes, Tim Jefferies (Futurewei), Thanks!.
   3. Approve agenda & last minutes
      1. Looking for an 802.18 Vice-Chair & Sec.
   4. Discussion items
      1. EU Items
      2. ITU-R Items
      3. FCC UWB Bosch petition ex parte
      4. FCC UWB Piper waiver request
      5. General Discussion Items
   5. Agenda for Thursday
      1. APT/APAC status
   6. Actions required
      1. Anything new that comes up
   7. AOB and Adjourn
3. Chair presents slide 6, Administrative – Motions and more
   1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Guido Hiertz (Ericsson)

Seconded by: Hassan Yaghoobi (Intel)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 16-18 July 2019 Plenary in Vienna, Austria, in document <https://mentor.ieee.org/802.18/dcn/19/18-19-0098-00-0000-minutes-vie-plenary-16-18jul2019-rr-tag.docx> Posted: 23-Jul-2019 22:27:25 ET

Moved by: David Boldy (Broadcom)

Seconded by: Hassan Yaghoobi (Intel)

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

1. Chair presents slides 7-9, EU items to share
   1. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meeting #103, 07-10 Oct 2019, Sophia Antipolis**
      1. List for chair nominees (See BRAN document #4), that will be voted on at Oct. meeting.
         1. Ian Marshall from Ruckus
         2. Guido Hiertz from Ericsson
      2. Also at the Oct. meeting, - EN 303 687 6GHz standard template will be started.
      3. A member gave a report on two teleconferences and one test event recently.

• The online meeting related to spectrum masks in EN 301 893 discussed 802.11ax and channel puncturing. In a punctured channel, 802.11ax applies a 20 dBr mask which exceeds the limits in EN 301 893

• The online meeting regarding relative levels for adaptivity discussed floating thresholds

• EN 301 893 defines that all thresholds are treated as absolute

• Devices employing squelch to block out background noise or devices whose threshold is offset by noise may be violating the HS

• Not an ETSI BRAN activity, there was testing conducted at Rohde & Schwarz in Munich

• Rohde & Schwarz analyzed a variety of 802.11 devices regarding compliance with the 802.11a preamble

• Different tests were performed

• In addition, some devices were tested with regard to floating thresholds

• In addition to EN 302 567, a new Work Item (WI) for 60 GHz is under discussion

• The WI will address fixed outdoor use (e.g. Facebook's Terragraph concept)

• Work on a HS for 6 GHz will begin in October

* + - 1. This update was primarily FYI – no concrete actions for 802.18
  1. **CEPT – ECC** [**<SE45>**](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #8, 23-24 Sept 2019, Rome, Italy**
     1. Complementary Studies identified at WGFM94 (LS to WGSE)
  2. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #8, 25-27 Sept 2019, Rome, Italy** 
     1. Contributions due by 20 Sept.
     2. Will work on resolution of comments from Public Consultation on CEPT Report 73  on feasibility of WAS/RLANs in the 5925-6425 MHz. (Closed and comments from 8 parties)

III) Work on CEPT Report B.

* 1. Initiatives going on in EU:
     1. <https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-6426936_en>
        1. This one is in consultation mode, a survey of the form "would you trust a connected device if there was a European harmonized standard?" Consumer interest groups could respond that they would, but industry has already universally said that they do not believe standardization is necessary yet.
     2. <https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-6621038_en>
        1. This initiative specifies the categories of radio equipment covered by additional essential requirements relating to reconfigurable radio systems, a.k.a. Software Defined Radios.

1. Chair presents slides 10, ITU-R items to share
   1. Nothing reported.
2. Chair presents slides 11 and 12, FCC **UWB Bosch petition for rule making**
   1. **Bosch petition for rule making, public.** 
      1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=RM-11844&sort=date_disseminated,DESC> (cg rm-11844)
      2. <https://ecfsapi.fcc.gov/file/10618992215487/2019%20FINAL%20PETITION%20FOR%20RULE%20MAKING%20for%20FCC%20Filing.pdf>
      3. <https://mentor.ieee.org/802.18/dcn/19/18-19-0079-00-0000-bosch-petition-for-rulemaking-uwb-devices-and-systems.pdf>
   2. Feedback heard, there is more than just updates from past waivers.
   3. Will review current draft, on ex parte on comments (in place of reply comments)
   4. <https://mentor.ieee.org/802.18/dcn/19/18-19-0119-01-0000-draft-reply-comments-to-uwb-petition.docx> [**or latest**](https://mentor.ieee.org/802.18/dcn/19/18-19-0119)
   5. No report today.
3. Chair presents slides 13 and 14, **FCC UWB Piper Waiver request**
   1. **Piper FCC waiver request**
      1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-246&sort=date_disseminated,>[DESC](https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-246&sort=date_disseminated,DESC)
      2. The request: <https://mentor.ieee.org/802.18/dcn/19/18-19-0122-00-0000-piper-uwb-waiver-request-to-fcc.pdf>
      3. TECHNOLOGY SEEKS COMMENT ON PIPER NETWORKS INC. REQUEST FOR WAIVER OF PART 15 RULES FOR ENHANCED TRANSIT LOCATION SYSTEM. (DA No. 19-865). (Dkt No 19-246). Comments Due: 2019-09-23. Reply Comments Due: 2019-10-08. OET
      4. Key points: fixed locations (along tracks) and higher power in 6GHz band.
         1. Also directional antennas up and down the track.
      5. Is there enough information to make a technical determination about any possible interference?
      6. Do we want to comment?
      7. No report today.
4. Chair presents slide 15, **general discussion items**
   1. **S. Korea’s MIST consultation use of radar for vehicles in E-Band closed 09 Aug. The updated values are now effective. For details on the updated technical parameters, please refer to:**
      1. <https://www.msit.go.kr/web/msipContents/contentsView.do?cateId=mssw353&artId=2163036>
      2. <https://www.msit.go.kr/web/msipContents/contentsView.do?cateId=mssw353&artId=2163037>
   2. **FYI, discussions and responses since the July Plenary** 
      1. APT consultation WRC-19 AIs , comments sent in
      2. FCC proposed rule 3.7-4.2GHz Band Proceeding, proposed auction
      3. MIC(Japan) published position on WRC-19 AIs
      4. 40th IEEE 802 anniversary, sent highlights of RR-TAG to event planner
      5. MCMC consultation on WRC-19 AIs, comments sent in
      6. FCC UWB Bosch petition for rule making, comments sent in as ex parte
      7. APT’s considerations for WRC-23, IMT 7025-7125.
      8. .18 Listserver issues, all non-\_\_@IEEE.org accounts back to default.
      9. ICASA consultation on updating spectrum allocations, comments sent in \*
      10. ACMA consultation on sharing, in LMSC(EC) ballot
      11. FCC Rule-Use of Spectrum Bands Above 24 GHz for Mobile Radio Services
5. Chair presents slide 15, Actions / AOB/ Recess
   1. **Actions required:** 
      1. Check with member on plans for the 2 UWB possible comments
   2. **AOB before recess to Thursday AM1.**
      1. Apple has indicated they are adding UWB to their iPhones. Would be great to learn more on what they are doing with it, the frequency band(s), duty cycle, etc.
         1. With that action for 802.18 might want to consider more active monitoring given industry trends. Apple looking to embed more UWB in phones.
      2. Discussion going on between ITU-R and URSI (International Union of Radio Science) for harmonization between scientific and commercial uses of radio in particular, UWB.
   3. **We will recess until Thursday AM1, at 11:07: local**
6. **Chair reconvenes the meeting at 08:06 local Thursday 19 Sept 2019**
7. Chair presents slide 16 of agenda 18-19/0126r02, Thursday Agenda
   1. Reminder of IEEE policies we are under
      1. Attendance server is open.
      2. Remember to state your name, affiliation, employer and/or clients first time you speak.
      3. Someone to take some notes: Tim J.
   2. Items from Tuesday or new
      1. Japan and Korea consultations
      2. APT and APAC status
      3. USRI Harmonization with UWB
   3. Actions Required
   4. AOB
   5. Adjourn
8. Chair presents slide 18, Japan and Korea
   1. Japan MIC has issued a consultation on a report related to the technical conditions for advanced radio equipment that uses radio waves in the 60 GHz band.
      1. The consultation deadline is September 30, 2019, and the paper is available at:
      2. <http://www.soumu.go.jp/menu_news/s-news/01kiban14_02000393.html>
      3. The motivation of this consultation (or the publication of this draft report) is to review new usage models and technical conditions of wireless systems operating at 60 GHz band, including for example, 802.11ay radar/communications devices, mobile terminals and televisions, motion sensors, and biological information sensors.
   2. Korea MSIT has issued a consultation and parts of it is related to the use of 940 -944.4 MHz band for ubiquitous sensor networks .
      1. The consultation deadline is October 7, and the paper is available at:
      2. <https://www.msit.go.kr/web/msipContents/contentsView.do?cateId=mssw353&artId=2122983>
   3. **For both of these there are key summary points in English in:**
      1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0129-00-0000-apac-update-september-2019.pptx>
9. Chair presents slide 19, APT and APAC
   1. **Positions of APT on selected WRC-19 agenda items after APG19-5** 
      1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0128-00-0000-latest-positions-of-apt-on-selected-wrc-19-agenda-items-after-apg19-5.pptx>
      2. There is support here for IMT in 66-71GHz though needs more discussion on 71-76GHz
   2. **APAC update - September 2019** 
      1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0129-00-0000-apac-update-september-2019.pptx>
10. Chair presents slide 20, URSI and UWB
    1. Discussion between ITU-R and URSI(International Union of Radio Science) for harmonization between scientific and commercial uses of radio in particular, UWB.
    2. <https://www.ursi.org/homepage.php>
    3. <https://mentor.ieee.org/802.18/dcn/19/18-19-0130-00-0000-itu-r-and-ursi-harmonization-between-scientific-and-commercial-uses-of-radio.pdf>
11. Chair presents slide 21, Actions required
    * Next steps chair to check with contributor on comments on 2-UWB FCC actions.
    1. Ongoing:
    2. WPT use of license-exempt bands
    3. Digital Divide, how can we help?
12. Chair presents slide 22 Any Other Business
    1. Nothing brought up
    2. **Straw Poll**

How many people would like to come back to this venue?

Yes –\_8\_ (May 2023)

No – \_3\_

Why a no: 🡪 hotel\_\_\_0\_\_, hotel neighborhood\_4\_\_, VN location\_\_0\_\_, VN access\_1\_,

Liked the Social – \_12\_\_ (side note: hotel staff was wonderful, best ever)

Disliked the Social – \_0\_

Did not go to Social – \_2\_

1. Chair presents slide 23, Adjourn
   1. Next teleconference: 26 September 2019 – 15:00 – <15:55 ET
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038> (r13 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, Adjourned at 09:03 local
   3. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 10 – 15 November 2019 Plenary in the Hilton Waikoloa Village, Kona, HI, USA
      1. Normal time slots, Tuesday AM2 and Thursday AM1 – remember no reciprocal from other WGs
   4. **Safe Travels**

Meeting attendance for RR-TAG (Tuesday, 17 Sept-2019, AM2 10:20 - 12:30) – 21 attendees, 17 voters

|  |  |  |
| --- | --- | --- |
| Boldy, David | Broadcom Corporation | voter |
| de Vegt, Rolf | Qualcomm Incorporated | voter |
| Fang, Yonggang | ZTE TX Inc |  |
| Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) | voter |
| Hiertz, Guido | Ericsson AB | voter |
| Holcomb, Jay | Itron Inc. | voter |
| Ikegami, Tetsushi | Meiji University | voter |
| Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) | voter |
| Jeffries, Timothy | Huawei Technologies Co. Ltd | voter |
| Jones, Vincent Knowles IV | Qualcomm Incorporated | voter |
| Kenney, John | TOYOTA InfoTechnology Center U.S.A. | voter |
| Lansford, James | Qualcomm | voter |
| Li, Huan-Bang | National Institute of Information and Communications Technology (NICT) |  |
| Palm, Stephen | Broadcom Corporation | voter |
| Salazar Cardozo, Ruben E | Landis+Gyr AG | voter |
| Sarris, Ioannis | u-blox | voter |
| Sherlock, Ian | Texas instruments | voter |
| Unterhuber, Paul | German Aerospace Center (DLR) |  |
| Wang, Lei | Huawei R&D USA | voter |
| Wilhelmsson, Leif | Ericsson AB |  |
| YAGHOOBI, HASSAN | Intel Corporation | voter |

Meeting attendance for RR-TAG (Thursday, 19 Sept-2019, AM1 07:40 - 10:00) 20 attendees, 14 voters

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| Au, Kwok Shum | Huawei Technologies Co., Ltd |  |
| Boldy, David | Broadcom Corporation | voter |
| de Vegt, Rolf | Qualcomm Incorporated | voter |
| Fang, Yonggang | ZTE TX Inc |  |
| Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) | voter |
| Hiertz, Guido | Ericsson AB | voter |
| Holcomb, Jay | Itron Inc. | voter |
| Ikegami, Tetsushi | Meiji University |  |
| Jeffries, Timothy | Huawei Technologies Co. Ltd | voter |
| Jones, Vincent Knowles IV | Qualcomm Incorporated | voter |
| Kenney, John | TOYOTA InfoTechnology Center U.S.A. | voter |
| Lansford, James | Qualcomm | voter |
| Li, Huan-Bang | National Institute of Information and Communications Technology (NICT) |  |
| Palm, Stephen | Broadcom Corporation | voter |
| Sarris, Ioannis | u-blox | voter |
| Sherlock, Ian | Texas instruments | voter |
| Wang, Lei | Huawei R&D USA | voter |
| Ward, Lisa | Rohde & Schwarz |  |
| Wilhelmsson, Leif | Ericsson AB |  |
| YAGHOOBI, HASSAN | Intel Corporation | voter |