IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | |
| Date: 12aug21 | | | |
| Name | Affiliation | Address | Email |
|  |  |  |  |
| Author and Officer presiding: | | | |
| Jay Holcomb,  Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | jholcomb@ieee.org |

Co-Vice-chairs are [Stuart Kerry (OK-Brit/Self)](mailto:stuart@ok-brit.com) and [Al Petrick (Skyworks Solutions)](mailto:apetrick@ieee.org)

Abstract

Minutes of the IEEE 802 RR-TAG teleconference

These are the Minutes of the IEEE 802 RR-TAG teleconference Thursday, 12aug21

1. Chair calls the meeting to order at 15:02 et
2. Chair presents slides 2 – 6 of 802.18-21/0095r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
3. Chair presents slides 7, the agenda:
   1. Call to Order
      1. Attendance is not on IMAT (w/VC & webex)
      2. Remember to mute when not speaking, thanks.
      3. Please request Q in the chat window.
   2. Administrative items
      1. Someone to take some notes, Al P.
      2. Attendance & monitor chat window, Stuart K
   3. Approve agenda, last minutes & announcements.
   4. Discussion items
      1. EU Items
      2. Other Regions Items
      3. ITU-R Items
      4. FCC NPRM on 60GHz
      5. General Discussion Items
   5. Actions required.

      2. Anything new today
      3. ongoing: WRC-23 AI Viewpoints & Freq. table fill in
   6. AOB
   7. Adjourn
4. Chair presents slides 8 - 9 Administrative – Motions and more
   1. **Motion: To approve the agenda as presented on previous slide**

Moved by: Stuart Kerry (OK-Brit, self)

Seconded by: Hassan Yaghoobi (Intel)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes in document To approve the minutes in document <https://mentor.ieee.org/802.18/dcn/21/18-21-0092-00-0000-minutes-05aug21-rrtag-teleconference.docx> 09-Aug-2021 23:44:34 ET, with editorial privilege for the 802.18 chair.

Moved by: Al Petrick (Skyworks)

Seconded by: Vijay Auluck (Self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward** 
     1. **For Sept 2021,** Wireless Interim Session, it will be electronic, with one ($50, $75, $125) registration fee for all groups.
        1. Dates are Friday 10sep21 to our .18 meeting on 23sep21. 802..18 will meet our normal Thursday’s, 16th and 23rd.
           1. **On the 16th, overlaps with last 30 minutes of 802.11az and 802.11bh; also the first hour of 802.15.4ab**
        2. Looking at a wireless session opening meeting Friday 10sep21 at 0900et (similar to what was done at f2fs )
        3. Draft agenda for Sept 10th 802 Wireless Plenary is here: <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0140-02-WCSG-2021-09-wireless-interim-opening-plenary-agenda.xlsx>
        4. From WCSC on 07July: $50 – 14jul-27aug; $75 – 28aug-09sep; $125 >09sep;
        5. The September 2021 electronic wireless interim session registration is open:
        6. <http://802world.org/wireless/> REGISTRATION WEBSITE:  <https://cvent.me/NxZeZx>
     2. **Note: With IEEE 802 rules committee working toward clarifying Interim voting participation credit:** 
        + 1. Proposed: A credited interim session (an interim session with attendance credit) is a one that has been declared by the Working Group Chair or Technical Advisory Group Chair.
        1. **and with this Wireless Interim being setup as a full Wireless Interim session, at this time 802.18 will be declared as a credited interim session and will be taking attendance using IMAT and it will count for voting membership participation credit. (watch for possible updates later)**
     3. For **Nov 2021** Plenary – Vancouver – will be addressed at the EC call on 07Sep21
     4. For **Jan 2022** Wireless Interim – Panama – will be addressed at the WCSC call on 01Sep21
     5. (see AOB at the end of straw polls coming up.)

1. Chair presents slides 10 - 12, **EU items to share**
   1. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meeting #111 27sep-01oct21; ad hocs #110a-f;** 05,11aug; 09**, 01,02,06,**07**sep21**
      1. After the call last week learned:  BRAN-EN 301 893 GoToMeeting #1 **New – 11aug21 - online**
      2. Anything else to share today? a few things…
      3. EN 302 567 – C1 band/60GHz (WiGig, .11ad and .11ay) has passed 2nd ENAP, it is now an approved standard, next is to EC to approve for the OJEU.
      4. EN 303 722 – C3 band/60GHz has been reviewed by EC assessment and will go out for 1st ENAP now.
      5. EN 301 598 - TVWS, has been on hold due to UAR, User Access Restrictions, and was not sure EC was okay. They are okay now. working on a revision, then 07Sep21 – ad hoc on this standard to discuss about going to ENAP.
      6. EN 301 893 – 5GHz, meetings going on and good progress on energy detect threshold agreements.
      7. For Country Determination Capability (CDC) in 5.8 GHz band, some countries are starting to open this band for license exempt use Different countries at different power levels:
         1. Some are going under the older harmonized standards, this is the lower power for SRD - EN 300 440 w/ no CDC.
         2. CDC is in an Annex of the EN 301 893 and to use the higher power CDC will be mandatory. (to protect the incumbents)
      8. EN 303 687 - 6 GHz, a discussion item on NB FH technologies which is already in the mandated standard now in OJEU 6GHz (for 01Dec21 implementation).
         1. In he 802.11 SC CoEx there are submission documents in Mentor (docs 11-814 and 11-1191), on this.
         2. ad hocs, on 02 and 06 Sept will discuss these. and the NB FH. and setting up for discussion at full plenary #111.
      9. ad hoc on 01sept will discuss 6GHz client to client communications, ECC was clear to have at LPI, ETSI to define how.
         1. e.g. LPI and how to use it, (e.g. if in range of a LPI AP) or does it revert to VLP for indoor and outdoor.
      10. EN 303 753 - 3rd 60GHz standard progressing and current poll is closing now.
      11. Nominations for chair of BRAN closes 27aug21..
      12. Germany, Iceland, Norway are already opening up 6GHz, as it is volunteer now.
   2. General EU info: [<ojeu>](https://eur-lex.europa.eu/oj/direct-access.html) [<HStds>](https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/) <https://www.etsi.org/deliver/etsi_en/>
      1. Remember – BRAN documents can be found in the 802.11 private area documents (daily refresh)
   3. **ETSI – ERM** [**<TG-UWB>**](https://portal.etsi.org/tb.aspx?tbid=729&SubTB=729) **next call, meeting #59, \_\_\_\_\_\_\_**
      1. Anything to share today? no
      2. 15jul: Working on new SR doc to extend UWB to 12.4 GHz, (tbd), much broader, up to 4 GHz OBW (tbd).
   4. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meeting #111 27sep-01oct21; ad hocs #110a-f; 05, 11aug; 09, 01,02,06,07sep21**
      1. After the call last week learned: BRAN-EN 301 893 GoToMeeting #1 **New – 11aug21 - online**
      2. Anything to share today? no
      3. 15july: Considering the EC decision above, the ETSI Standard for 6 GHz earliest release date is in 2023.
         1. TS 103 754 on multi-access point testing is to be complete in Nov 2021.
         2. CDC (Country Determination Capability) documented in 5GHz draft has shall be mandatory for equipment above 5.725 GHz and >25mW. There is input from WGFM asking why mandatory.
         3. Remember BRAN is by consensus, not a vote. Today it is a shall be mandatory but could change in further meetings.
   5. **Note:** message from CEPT president, that looking at allowing some physical face-2-face meetings sometime after 01sept but have to allow remote attendees so a hybrid. and the face2face portion will have restrictions.
   6. **CEPT – ECC** [<SE19>](https://cept.org/ecc/groups/ecc/wg-se/se-19/client/introduction/) **next call #88 30Sep-01Oct21**
      1. Anything to share today? no
      2. 15jul: Some looking at UWB and fixed services interference mitigation. Sweden is pushing the issue, very political discussion.
   7. **CEPT–ECC** [<SE24>](https://cept.org/ecc/groups/ecc/wg-se/se-24/client/introduction/) **next virtual meeting, #M104 25-27Aug21**
      1. May not see much more till mid-late august.
      2. 15jul: SE-24-UWB working on new regulations by end of year for >6GHz. Includes items, fixed outdoor, okay in vehicles, higher power (-31.2dBm/MHz indoor), etc. See ECC report 327. This could be significant changes. More to come.
   8. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call #14 28-29Oct21**
      1. Anything to share today? no
      2. **15jul:** The next call is about OOBE at 5935 MHz
   9. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next call #16 14-15Sep21**
      1. Anything to share today? no
2. Chair presents slide 13, **Other regions (outside EU-Stds and USA), items to share**
   1. **Anything to share today? no**
3. Chair presents slide 14, **ITU-R items to share**
   1. **Anything to share today? no**
   2. **WRC-23 agenda items, the list is on the ITU-R website at:** 
      1. <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-23-studies.aspx> (updated 26Aug20)
         1. <https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0041PDFE.pdf>
         2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0107-01-0000-res-811-wrc-19-wrc-23-agenda-items.docx>
   3. **IEEE 802 viewpoints on WRC-23 agenda items.** 
      1. Doc for viewpoints updated (actions items in notes on this slide in agenda): <https://mentor.ieee.org/802.18/dcn/21/18-21-0039-01-0000-ieee-802-viewpoints-on-wrc-23-agenda-items.pptx>
      2. Do we have all the ITS folks on to review?
         1. How can we watch / what bodies about any possible expansion of the ITS bands (globally) e.g. to 4.9GHz?
         2. WRC-23 Agenda Item 1.1 – *Watch CPG in EU and will hear from them if any discussions come up on expansion of ITS.*
            1. *Watch other regional bodies also.*
      3. Reference:
         1. btw- the initial AIs to consider IEEE 802 viewpoints:
            1. 1.1 -800-4 990 MHz and Resolution 223. Connection w/ITS going there?
            2. 1.2 -300-3 400MHz, 3 600-3 800MHz, 6 425-7 025MHz, 7 025-7 125MHz and 10.0-10.5GHz for International Mobile Telecommunications (IMT) and resolution 245.
            3. 1.5 -470-960 MHz in Region 1-consider possible regulatory actions, Resolution **235.**
            4. 10 **-**recommend to the Council items for inclusion in the agenda for the next WRC
   4. For the 4 open ITU –R liaisons to WP 1A and WP 5A, see back up slides in this agenda. All due to the WPs in November 2021.
   5. For miscellaneous links for ITU-R , SGs, WPs and calendars, see back up slides later.
4. Chair presents slides 15, **FCC NPRM on 60GHz on Radar Sensing Technology**
   1. Allowing Expanded Flexibility and Opportunities for Radar Operation in the 57-64 GHz band
      1. Notice of Proposed Rulemaking – ET Docket No. 21-264
   2. <https://mentor.ieee.org/802.18/dcn/21/18-21-0079-00-0000-fcc-nprm-allowing-expanded-flexibility-for-radar-operation-in-57-64-ghz-band.docx> 44 seek comments
   3. Abstract in notes on this slide.
   4. Proceeding: [https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((21%5C-264\*))%20OR%20proceedings.description:((21%5C-264\*))))&sort=date\_disseminated,DESC](https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((21%5C-264*))%20OR%20proceedings.description:((21%5C-264*))))&sort=date_disseminated,DESC)
   5. It is now adopted by the FCC commission, has not be published in Federal Register yet.
   6. .11bf, is looking at the NPRM below.
   7. .11 CoEx, had a presentation in this plenary, <https://mentor.ieee.org/802.11/dcn/21/11-21-1089-00-coex-coexistence-between-radars-and-communication-systems-in-the-60ghz-band-u-s-update.pptx> and had some concerns on the proposed rules.
   8. .15.4ab will put on their next call, 03aug21, to discuss.
   9. So need to stay in touch with above and if comment dates are set will not have a lot of time to put together to go through approval process and file.
5. Chair presents slide 16, **General Discussion Items**
   1. **none today**
6. Chair presents slide 17, **General Discussion Items – ongoing - MSGs 6 GHz**
   1. The WInnforum “6 GHz Committee”, all groups meet every 2 weeks except interference-weekly (168 people)
      1. <https://www.wirelessinnovation.org/6ghz-multistakeholder-committee>
      2. For access to documents from the committee, can request to be an observer from the MSG below.
      3. New org: 2 (now) focus areas:
         1. ) AFC Functional Specification -WG – includes: Interference-TG, Incumbent Info-TG, security (new) and Protocols 3GPP-TG
         2. 2) AFC Test and Certification-WG
      4. Anything to share today? not today
   2. 2. From the FCC R&O, an informal MSG (“Group”) has also been formed. (260+ people)
      1. <https://groups.wirelessinnovation.org/wg/6MSG/dashboard>.
      2. Work stream 1-interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO) Meets biweekly, from 28Jan21-10:00 et,
      3. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
      4. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
      5. Overall Co-chairs: NPSTC, UTC, WFA, WISPA.
      6. Anything to share today? not today
7. Chair presents slide 18, **General Discussion Items – ongoing - Table of IEEE 802 Stds Frequency Bands**
   1. **Problem statement**
      1. It is difficult for 802 wireless standards developers to quickly and accurately identify all the frequency bands by the family of 802 wireless standards in a regularly maintained database.
      2. The primary application is to simplify identification of potential frequency bands for coexistence assessment.
   2. **Initial Audiences:** 
      1. 1) 802 wireless standards developers
      2. 2) 802.19 wireless coexistence working group
   3. **Ad hoc calls** 
      1. **The spreadsheet is going, always look for latest:**
      2. <https://mentor.ieee.org/802.18/dcn/21/18-21-0036-07-0000-frequency-table-template.xlsx>
   4. **From ad hoc call on 27jul21**
      1. Reviewed the draft of rev07
         1. In instructions:
            1. Clarified Standard-Year and put in an example.
            2. Clarified PHY Amendment (Date of Initial Approval) with an example and to not leave blank, copy over the standard if there is no amendment.
            3. Clarified PHY Name to start with the Acronym, then the name.
         2. In notes: Added a general note to only consider Active standards, not in active-withdrawn standards.
   5. The activity is entering the phase to fill in the sheet now, so more intense and time consuming.
   6. **The next meeting will be 24aug21.** (call-in in backup slides here)
8. Chair presents slide 19, **Actions Required**
   * For IEEE 802 viewpoints on WRC-23 AIs, reach out to those identified, looking for input on the viewpoints.
   * 60 GHz NPRM, looking for possible comment responses as once comment dates are set, not a lot of time to respond.
9. Chair presents slide20 Any Other Business
   1. just below:
   2. **on 19aug:** Straw polls: tbd-if weekly meeting or try epolls (still not working) or email ballot?
   3. Reminder: everyone on the call can vote, and these are not hybrid meetings.
      1. Straw poll1 (again:) Will you attend the 2021 November IEEE 802 Plenary if held in-person at the Hyatt Regency Vancouver, in Vancouver, Canada Nov 14-19, 2021?
      2. Straw poll2 Will you attend the 2022 January IEEE 802 Wireless Interim if held in-person at the Hilton Panama, Panama City, Panama Jan 16-21, 2022?
      3. Note: USA limits recognized vaccinations, this may affect folks coming into or going through USA.
         1. Note: recognized for in country vaccinations, versus accepted for folks going through USA may differ, always check latest.
      4. Canada as of today does accept the Astra Zeneca, this of course can change.
10. Chair presents slide 21, Adjourn.
    1. **Next “weekly” teleconference (sched’d to 02sep21): 19Aug –*15:00–<15:55* et – {so far - no call on 26aug}**
       1. Call in info: [https://mentor.ieee.org/802.18/dcn/16/18-16-0038-18-0000-teleconference-call-in-info.pptx](https://mentor.ieee.org/802.18/dcn/16/18-16-0038-17-0000-teleconference-call-in-info.pptx)
       2. Also, see back up slide in this agenda.
       3. All late changes/cancellations will be sent out to the 802.18 list server.
    2. Overall IEEE 802 schedule: <http://ieee802.org/802tele_calendar.html>
       1. or only 802.18: [IEEE 802.18 TAG Calendar](https://calendar.google.com/calendar/embed?src=c2gedttabtbj4bps23j4847004%40group.calendar.google.com&ctz=America%2FNew_York)
    3. Adjourn:
       1. Any objection to Adjourn.
       2. None heard, Adjourn at 15:52et
    4. The next face to face meeting is tbd.
    5. **The next IEEE 802.18 (wireless) interim will be electronic in Sept 2021**
    6. **The next IEEE 802 \_ (ec call 07sep to decide on electronic or f2f)\_ plenary will be in November 2021**
    7. Thank You
11. Attendance

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| --- | --- | --- | --- |
| Voting Attendees: |  | |  |
| Auluck | Vijay | | Self |
| Boldy | David | | Broadcom Corporation |
| Hiertz | Guido | | Ericsson AB |
| Holcomb | Jay | | Itron Inc. |
| Kain | Carl | | USDOT, Noblis, Inc. |
| Kenney | John | | TOYOTA InfoTechnology Center U.S.A. |
| Kerry | Stuart | | OK‐Brit, Self |
| Lynch | Michael | | MJ Lynch & Associates, LLC. |
| Nikolich | Paul | | Self, HPE,  Huawei, Wyebot, UNH BCoE, YAS BBV, Origin Wireless | |
| Petrick | Al | | Skyworks Solutions Inc. |
| Rolfe | Benjamin | | Blind Creek Associates |
| Stanley | Dorothy | | Hewlett Packard Enterprise |
| Yaghoobi | Hassan | | Intel Corporation |
| Yucek | Tevfik | | Qualcomm |
| Non-Voting Attendees: | |  |  |
| Haasz | Jodi | | IEEE SA |