IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | |
| Date: 14oct21 | | | |
| 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 [Al Petrick (Skyworks Solutions)](mailto:apetrick@ieee.org) and [Stuart Kerry (OK-Brit/Self)](mailto:stuart@ok-brit.com)

Abstract

Minutes of the IEEE 802 RR-TAG teleconference

These are the Minutes of the IEEE 802 RR-TAG teleconference Thursday, 14oct21

1. Chair calls the meeting to order at 15:02 et
2. Chair presents slides 2 – 6 of 802.18-21/0124r01, 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, Peter E
      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. General Discussion Items
   5. Actions required.
      1. ITU-R WP 5A LMSC/EC submissions ballot
      2. FCC NPRM 60GHz, upload reply comments
      3. Anything new today
      4. 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 <https://mentor.ieee.org/802.18/dcn/21/18-21-0123-00-0000-minutes-07oct21-rrtag-teleconference.docx> 08-Oct-2021 10:33:57 ET, with editorial privilege for the 802.18 chair.

Moved by: Al Petrick (Skyworks)

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

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward** 
     1. For **Nov 2021** Plenary – (was Vancouver) – EC call on 07Sep21 approved to be electronic/virtual.
        1. Also approved was the $50 / $75 / $125 meeting fee like we have been doing.
        2. **Early Registration: Until Thursday 11:59 PM UTC October 21, 2021** \* $US 50.00 for all attendees
        3. Standard Registration: Until Friday 11:59 PM UTC November 5, 2021 \* $US 75.00 for all attendees
        4. Late Registration: After Friday 11:59 PM UTC November 5, 2021 \* $US 125.00 for all attendees
        5. Registration Fees are Non-Transferable and Non-Refundable
        6. **REGISTRATION WEBSITE:** [**https://cvent.me/4xn8Ql**](https://urldefense.com/v3/__https:/cvent.me/4xn8Ql__;!!F7jv3iA!mIj7hYJYj38R6agYT--N_zFo-0q_cZUBHvvk_La3dCCECpGaAxZZLZ_IZg53vVm76Q$)
        7. Meetings will take place between November 5-19, 2021.
        8. The dates and times of specific WG and TAG meetings will be provided by the Working Group Chairs.
        9. Information is available at <https://ieee802.org/802tele_calendar.html>
        10. .18 at this point will be our normal weekly times and call-in, Thursday's 11th and 18th Nov21.
     2. For **Jan 2022 Electronic Wireless Interim – (was Panama)** - Opening is Friday 14Jan21 10:00et
        1. WCSC Sept. call, the Jan 2022 Wireless Interim will be electronic/virtual.
        2. Also approved was the $50 / $75 / $125 meeting fee like coming up at the Sept. Wireless Interim
        3. .18 will be our normal weekly times and call-in, Thursday’s 20th and 27th Jan21,
           1. and will have voting participation credit.
     3. For **March 2022** Plenary – Orlando
        1. Decision point will be EC call 07dec21.
        2. Will have a poll during November plenary like before, if it is a face-to-face would you go?

1. Chair presents slides 10 - 11, **EU items to share**
   1. 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)
         1. for reference, ad hoc meetings can make decisions, rapporteur meetings cannot.
   2. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call #112 13-17dec21; lots of ad hocs before then.**
      1. After the call, last week: 2 rapporteur meetings on 13&21oct21, to discuss HS EN 303 687 and NB FH w/adaptivity (LBT)
      2. Focus on the 13th was on coming to agreement on client to client and receive/in-band blocking requirements, for 6 GHz. No agreement yet. See BRAN(21)111k
      3. The RED has receive requirements and working out through HASTEC (EC) consultants for the different bands.
      4. **07oct:** Had a compromise on 6GHz, EN 303 687. see BRAN (21)111033r3. NB FH would be included in the standard. Will continue discussions on channel access requirements.
         1. There are 10 ad hoc meetings before the next plenary, 3 of the them on the NB FH discussion.
         2. EN 301 893 5 GHz had a nice cleanup of the standard.
         3. Now a rapporteur for TR 103 721 5.8 GHz coexistence
         4. EN 303 753 3rd 60GHz std. to address the C2 band. discussion LBT or beam forming antennas,
         5. EN 303 722 2nd 60GHz ENAP still ongoing
         6. BRAN is working on dates for 2023 and 2024 meetings.
         7. EN 301 598 TVWS in EC assessment. Results are in and waiting for them to be shared.
         8. Administrations were clear to get the 6GHz std out soonest.
         9. User Access Restrictions are pretty much agreed upon for 5 and 6 GHz, on the heels of TVWS.
   3. **CEPT –** [**<ECC>**](https://cept.org/ecc/groups/ecc/client/introduction/) **(and more) next call, #57 02-05Nov21\**
      1. after the .18 call last , ECC will take up discussion of a WI on upper 6GHz for RLAN.
      2. Anything else to share today? not today
   4. **CEPT – ECC** [**<SE45>**](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call #14 28-29Oct21**
   5. Anything to share today? not today
   6. 07oct: Last time only took 1st day, may happen again. Be there on 28th if you want to hear what is going on.
   7. **CEPT – ECC** [**<WGFM>**](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/)  **next meeting #101 07-11Feb22, Tentative, ECO (no virtual)**
      1. Anything to share today? not today
   8. nice site: CEPT 6 GHz status across the countries: <https://docdb.cept.org/implementation/16737>
2. Chair presents slides 13, **Other regions (outside EU-Stds and USA), items to share**
   1. Anything to share today? yes
      1. ISED, via RABC, looking like 6GHz equipment by Christmas with RSS 248 – issue 1, LPI.
   2. **reminders**
      1. Brazil – ANATEL - Public Consultation 46
         1. This public consultation aims to reassess the limits of undesirable emissions from very low power devices operating in the 5,925 MHz to 7,125 MHz band.
         2. The deadline for submission of comments is 30th November 2021. For more information on this public consultation, please refer to this [link](https://sistemas.anatel.gov.br/SACP/Contribuicoes/TextoConsulta.asp?CodProcesso=C2513&Tipo=1&Opcao=andamento) and is in Portuguese language only.
      2. Tunisia – ANF – has a public consultation on allocating the lower part of the 6GHz band , 5925-6425Mz for WLAN. Comments due 30oct21.
         1. There are 4-5 questions, also includes asking about the upper band to 7125MHz, for the full 1200 MHz.
3. Chair presents slide 13, **ITU-R items to share**
   1. Status on [ITU-R WP 1A submission](https://mentor.ieee.org/802.18/dcn/21/18-21-0109-08-0000-liaison-response-to-itu-r-wp-1a-on-vlc-standards.docx) on VLC, the EC approved. w/ITU liaison now to upload.
      1. And do have someone to be on the WP 1A call.
   2. Status on ITU-R WP 5A submissions on [M.1450](https://mentor.ieee.org/802.18/dcn/21/18-21-0116-03-0000-proposed-modifications-to-itu-r-m-1450-5.docx)/[M.1801](https://mentor.ieee.org/802.18/dcn/21/18-21-0117-03-0000-proposed-modifications-to-itu-r-m-1801-2.docx) is in EC ballot, will close 21Oct21.
      1. One EC member has disapproved with a number of questions, response on all questions wassent.
   3. Anything else to share? nothing else
   4. **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>
   5. **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. Soon, will review actions noted at the July Plenary. y.
      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
   6. For miscellaneous links for ITU-R, SGs, WPs and calendars, see back up slides later.
4. Chair presents slide 14, **General Discussion Items**
   1. **FCC NPRM on 60GHz on Radar Sensing Technology** 
      1. Allowing Expanded Flexibility and Opportunities for Radar Operation in the 57-64 GHz band
         1. 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)
         2. It is on Mentor: r02 is the July OET versions (r01 is the later Federal Register version). <https://mentor.ieee.org/802.18/dcn/21/18-21-0079-02-0000-fcc-nprm-allowing-expanded-flexibility-for-radar-operation-in-57-64-ghz-band.docx>
         3. Reply comments due 18Oct21, draft reply comments are at: <https://mentor.ieee.org/802.18/dcn/21/18-21-0110-09-0000-reply-comments-of-ieee-802-60-ghz-motion-sensing-fcc-nprm-et-21-264.docx>
      2. **EC Ballot closed Tuesday (12th) and results were:** 
         1. 10 approved, 0 disapproved, 3 DNV, the motion passed.
         2. Preparing final version to upload tomorrow Friday (15th).
5. Chair presents slide 15, **General Discussion Items – ongoing fyi - 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 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 this week?
         1. Anything to share this week? Discussion on ant radiations patterns between WS1 and WS2.
      5. **07oct** WInnforum met with FCC and WBT and delivered report RC-1010, and asking FCC when will the ULS database be updated? and answer was don’t know. could be late 2022 and maybe into 2023.
      6. 16sep: Approved: “Recommendations for Addressing Blank, Uncollected, Erroneous, or Conflicting Database Elements for Incumbent Systems in the U.S. U-NII 5 & 7 Bands for the Purpose of Automated Frequency Coordination Systems” (document number WINNF-RC-1010-V1.0.0). This document and the associated appendix are publicly available: <https://6ghz.wirelessinnovation.org/work-group-products>
   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 this week? Limited contributions on the final report.
      7. **23sep:** Work stream 1 – draft final report is still in 0.x revs, indicating the final v1.0 is a ways out and the schedule is heading right.
6. Chair presents slide 16, **General Discussion Items – ongoing fyi - Table of IEEE 802 Stds Frequency Ranges**
   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/21/18-21-0036-08-0000-frequency-table-template.xlsx>
   4. **From ad hoc call on 28sept21**
      1. Updated most of the 802.15 cells/rows, less UWB ones.
      2. And proposing to swap columns D&E to get the clause numbers for the current standard by the current standards. and clarified what goes in the clause cell.
   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 26oct21.** (call-in in backup slides here)
7. Chair presents slide 17 **Actions Required**
   * **ITU-R WP 5A LMSC/EC submissions ballot**
   * **FCC NPRM 60GHz, upload reply comments**

ongoing:

* + For IEEE 802 viewpoints on WRC-23 AIs, reach out to those identified, looking for input on the viewpoints.
  1. **Proactive Spectrum Sharing – Contact Rich Kennedy if you can help or have inputs. or want to join the task force.**

1. Chair presents slide 18 Any Other Business
   1. none heard
2. Chair presents slide 19, Adjourn.
   1. **Next “weekly” teleconference (sched’d to 13jan22): 21oct –*15:00–<15:55* et** 
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-19-0000-teleconference-call-in-info.pptx>
      2. Also, see back up slide in the 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 802.18’s: [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 15:21et
   4. **The next IEEE 802 plenary will be electronic in November 2021**
   5. **The IEEE 802.18 (wireless) interim will be electronic in Jan 2022**
   6. Thank You
3. Attendance

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| --- | --- | --- | --- | --- |
| **Voting Attendees:** | |  |  | **14-Oct** |
| 1 | **Auluck** | Vijay | Self | **x** |
| 2 | **Boldy** | David | Broadcom Corporation | **x** |
| 3 | **Ecclesine** | Peter | Cisco Systems, Inc. | **x** |
| 4 | **Holcomb** | Jay | Itron Inc. | **x** |
| 5 | **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. | **x** |
| 6 | **Kerry** | Stuart | OK‐Brit, Self | **x** |
| 7 | **Lynch** | Michael | MJ Lynch & Associates, LLC. | **x** |
| 8 | **Palm** | Stephen | Broadcom Corporation | **x** |
| 9 | **Petrick** | Al | Skyworks Solutions Inc. | **x** |
| 10 | **Pirhonen** | Riku | NXP Semiconductors | **x** |
| 11 | **Yaghoobi** | Hassan | Intel Corporation | **x** |
| 12 | **Yucek** | Tevfik | Qualcomm Incorporated | **x** |
|  |  |  |  |  |
| **Non-Voting Attendees:** | |  |  |  |
| 1 | **da Silva** | Claudio | Facebook | **x** |
| 2 | **Jeffries** | Timothy | FutureWei Technologies, Inc. | **x** |
| 3 | **Lumbatis** | Kurt | ARRIS/CommScope | **x** |
| 4 | **Ward** | Lisa | Rohde & Schwarz | **x** |