IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | |
| Date: 21oct21 | | | |
| 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, 21oct21

1. Chair calls the meeting to order at 15:02 et
2. Chair presents slides 2 – 6 of 802.18-21/0126r01, 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 to ITU-R liaison if approved
      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 <https://mentor.ieee.org/802.18/dcn/21/18-21-0125-00-0000-minutes-14oct21-rrtag-teleconference.docx> 14-Oct-2021 09:33:33 ET, with editorial privilege for the 802.18 chair.

Moved by: Al Petrick (Skyworks)

Seconded by: Ben Rolfe (Blind Creek Assoc.)

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 in-personwould 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. EN 301 598 TVWS got EC HASTAC approval, User Access Restrictions were accepted and will go to publication. Same UAR as in 5 GHz and 6 GHz drafts. One opinion is this is a positive step.
      2. EN 303 687 6 GHz rapporteurs meetings heard two NB FH prezos, will continue in EN 303 687 ad hocs, which can take decisions. The NB FH prezos were multi-companies. One point is how the LBT will be done.
      3. Look at documents for ad hocs BRAN(21)111k… and 111l… for more.
      4. The next draft version EN 303 687 r14 was introduced and had questions if all the new info should be in the draft yet, discussions continue.
      5. Regulators were clear that 6 GHz is for RLAN not SRD.
      6. **14oct:** After the call, last week: 2 rapporteur meetings on 13&21oct21, to discuss HS EN 303 687 and NB FH w/adaptivity (LBT)
         1. 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
         2. The RED has receive requirements and working out through HASTEC (EC) consultants for the different bands.
         3. 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. Anything to share today? not today
      2. 14oct: after the .18 call last , ECC will take up discussion of a WI on upper 6GHz for RLAN.
   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 12, **Other regions (outside EU-Stds and USA), items to share**
   1. **China MIIT -** Since the MIIT's initial consultation in 2019, the regulation on 2400 MHz, 5100 MHz, and 5800 MHz is now revised.  You would refer to the following webpage for the official announcement:
      1. <https://www.miit.gov.cn/zwgk/zcwj/wjfb/tz/art/2021/art_e4ae71252eab42928daf0ea620976e4e.html>
      2. This URL also contains a summary of the updated regulations and two attachments that provide the updated regulations on the RF technical requirements for radio transmitting equipment in these bands (attachment 1), and technical requirements on interference avoidance of the radio transmission equipment operating in these bands (attachment 2).
      3. **For the background and interpretation of this updated regulation, you would refer to the following URL for the second official announcement:**
      4. [**https://www.miit.gov.cn/zwgk/zcjd/art/2021/art\_f9d24f82c2b24a16b357ae883f21a65e.html**](https://www.miit.gov.cn/zwgk/zcjd/art/2021/art_f9d24f82c2b24a16b357ae883f21a65e.html)
      5. **This one is interesting as leaving much to local control, not national.**
      6. Please note that the regulation is effective from January 1, 2022, and there is an approximately two-year transition period till October 15, 2023.
   2. Anything else to share today? not today
   3. **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 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 continues with disapproval with another opinion how to present the proposed changes.
      2. As of this morning (21st) 8 approvals/1 disapproval, ballot closes today.
   2. Anything else to share? nothing else
   3. **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>
   4. **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
   5. For miscellaneous links for ITU-R, SGs, WPs and calendars, see back up slides later.
4. Chair presents slide 14, **General Discussion Items**
   1. **USA FCC Notices; 6 GHz Automated Frequency Coordination Proposals**
      1. FR Document: [2021-22765](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2021/10/21/2021-22765/fcc-requests-6-ghz-automated-frequency-coordination-proposals?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!iGIhKG2Ud10MHWF6PkxO2rH1FxSib0LOCq8-J9OgO1Q778fwOKl4ZqOd5im8YMhJ1Q$); Citation: 86 FR 58267 ; [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2021-10-21/pdf/2021-22765.pdf?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!iGIhKG2Ud10MHWF6PkxO2rH1FxSib0LOCq8-J9OgO1Q778fwOKl4ZqOd5ik8Nbw8DA$) Pages 58267-58269 *(3 pages)* [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2021-22765?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!iGIhKG2Ud10MHWF6PkxO2rH1FxSib0LOCq8-J9OgO1Q778fwOKl4ZqOd5im4JMk5Hg$)
      2. **Abstract:** In this document, the Commission begins the process of authorizing standard power unlicensed operations in the 6 GHz band by inviting proposals from parties interested in operating an automated frequency coordination (AFC) system in accordance with the 6 GHz Report and Order. This Public Notice summarizes the requirements for AFC systems as set forth in that order, describes the information that must be provided with proposals to operate an AFC system, and describes the procedures for...
   2. **FCC NPRM on 60GHz on Radar Sensing Technology** 
      1. IEEE 802 Reply comments posted on FCC proceeding on Monday the 18th.
      2. 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. 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 ***Incumbent Information, interference and Test & Certification***-weekly (168 people); some docs: <https://6ghz.wirelessinnovation.org/work-group-products>
      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. Org: 2 focus areas:
         1. ) AFC Functional Specification -WG – includes: Interference-TG, Incumbent Info-TG, security and Protocols 3GPP-TG
         2. 2) AFC Test and Certification-WG
      4. **This week:** TR-1014 (IR3) is in internal ballot, being shared with WFA AFC TG
         1. The process of coordination with the different organization has improve and time to approval is quicker.
         2. <https://www.wi-fi.org/file/afc-specification-and-test-plans> (open to all, just need contact info and privacy agreement)
      5. **14oct:** Anything to share this week? Discussion on ant radiations patterns between WS1 and WS2.
      6. **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.
   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. **This week:** MWG WS#3 received briefing on work underway in WFA AFC
         1. <https://syndicated.wifinowglobal.com/resource/wi-fi-alliance-accelerates-wi-fi-6e-development-with-automated-frequency-coordination/>
      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. Watch for possible cancellation
7. Chair presents slide 17 **Actions Required**
   * **ITU-R WP 5A to ITU liaison if approved**

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 15:35et
   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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Voting Attendees:** | | |  |  | **21-Oct** |
| 1 | **Ecclesine** | Peter | | Cisco Systems, Inc. | **x** |
| 2 | **Holcomb** | Jay | | Itron Inc. | **x** |
| 3 | **Kain** | Carl | | USDOT, Noblis, Inc. | **x** |
| 4 | **Kenney** | John | | TOYOTA InfoTechnology Center U.S.A. | **x** |
| 5 | **Kerry** | Stuart | | OK‐Brit, Self | **x** |
| 6 | **Levy** | Joseph | | InterDigital, Inc. | **x** |
| 7 | **Petrick** | Al | | Skyworks Solutions Inc. | **x** |
| 8 | **Pirhonen** | Riku | | NXP Semiconductors | **x** |
| 9 | **Rolfe** | Benjamin | | Blind Creek Associates | **x** |
| 10 | **Stanley** | Dorothy | | Hewlett Packard Enterprise | **x** |
| 11 | **Yaghoobi** | Hassan | | Intel Corporation | **x** |
|  |  |  | |  |  |
| **Non-Voting Attendees:** | | | |  |  |
| 1 | **Fang** | Yonggang | | MediaTek | **x** |
| 2 | **Haasz** | Jodi | | IEEE SA | **x** |
| 3 | **Lumbatis** | Kurt | | ARRIS/CommScope | **x** |

Best,