IEEE P802.18  
Radio Regulatory Technical Advisory Group (RR-TAG)

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| Radio Regulatory Technical Advisory Group Minutes  September Mixed-Mode Interim Session 2022 | | | | |
| Date: 26 September 2022 | | | | |
| Author: | | | | |
| Name | Company | Address | Phone | email |
| Amelia Andersdotter | Sky Group/Comcast | Belgium |  | amelia.ieee@andersdotter.cc |
|  |  |  |  |  |

Abstract

This document constitutes the minutes of the IEEE 802.18 Technical Advisory Group from the September Mixed Mode Interim Session 2022, with on-site participants in Waikoloa, Hawaii, US, and remote participants through Webex. "Local time" in this document is intended to mean "local time" in Waikoloa, Hawaii, US.

In these minutes

**C:** means question from participant.

**Chair:** means statement by the chair as chair.  
Highlight means action point.

Chair: Edward Au (Huawei)

Co-Vice-chairs: Stuart Kerry (OK-Brit/Self) and Al Petrick (Skyworks Solutions)

Secretary: Amelia Andersdotter (Comcast)

IEEE SA Program Manager: Jodi Hassz (IEEE SA)

* IEEE 802.18, RR-TAG website: <https://www.ieee802.org/18/>

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**Opening plenary**

1. Chair calls the meeting to order at 10:36 local time.

Agenda slide deck [18/22-0090r2](https://mentor.ieee.org/802.18/dcn/22/18-22-0090-02-0000-rr-tag-2022-september-wireless-interim-agenda.pptx)

1. Chair presents administrative items
   * This meeting is part of the IEEE 802 electronic wireless interim session in 11 September to 16 September 2022.
     + You **must** pay the registration fee in order to attend
     + If you have not already done so, you can register w/Face to Face Events – Registration website at:

https://web.cvent.com/event/ae5c1e5a-6074-492a-9cd7-16b5ddc15864/

* + - If you do not intend to register for this session you must leave this meeting and, if you have logged attendance on IMAT, please email the 802.18 chair or a vice chair to have your attendance canceled
    - At conclusion of each of the 802.18 calls, the Webex log and IMAT will be reviewed.
    - No payment, become dead beat and lose voting rights in all groups, after 60-day grace.
  + Group officers and voting membership
    - Voters: 47 (8 on LMSC)
    - Nearly Voters: 0
    - Aspirant members: 9
    - [802.18 Voters List](https://www.ieee802.org/18/RRTAG_Voters.pdf)
  + RR-TAG Policies & Procedures [[802 LMSC WG P&P](https://mentor.ieee.org/802-ec/dcn/21/ec-21-0207-23-0PNP-ieee-802-lmsc-working-group-policies-and-procedures.pdf)]
  + IEEE 802 meeting and participant’s guidelines and requirements [[link](http://www.ieee802.org/devdocs.shtml)]
  + IEEE policies and procedures [[link](https://standards.ieee.org/about/policies/opman/)]
  + **Reminder that IMAT is being used for attendance**
  + Online meeting procedures reminder

Chair asks group if there are any questions relating to the IEEE policies. No response, no comments on WebEx Chat window.

1. Chair presents the agenda (slide #12). No comments or questions on the agenda.
2. Administrative:  
   1. **Motion #1 (internal):** To approve the agenda as shown on previous slide

Moved by: Stuart Kerry

Seconded by: Hassan Yaghoobi

Discussion? None

Vote: Approved with unanimous consent

* 1. Chair presented the meeting minutes from RR-TAG 2022 July Mixed Mode Plenary session. No questions or comment.  
      **Motion #2 (internal):** To approve the meeting minutes of the RR-TAG 2022 July Mixed Mode Plenary session as shown in the document [18-22/0076r1](https://mentor.ieee.org/802.18/dcn/22/18-22-0076-01-0000-july-2022-plenary-minutes.docx), with editorial privilege for the 802.18 Chair.

Moved by: kiwin Palm

Seconded by: Al Petrick

Discussion? None.

Vote: Approved with unanimous consent

1. **Presentation of 802.18 opening report (**[**18-22-0091r0**](https://mentor.ieee.org/802.18/dcn/22/18-22-0091-00-0000-ieee-802-18-rr-tag-2022-september-wireless-interim-chair-opening-report.ppt)**), Edward Au (Chair)**Chair presented progress since the plenary meeting in July.
2. **Report from mmWave Ad-hoc, Rich Kennedy (Ad-hoc chair)**Clarification on ETSI standards.  
   **Q:** We already have IEEE 802.11ay for 60GHz. what additional use here?  
   **A:** UHR *[expected next larger 802.11 amendment, sec. note]* will not use existing amendments. It's new so we will give them new info. IEEE 802.11aj and IEEE 802.11ay may be used by them, but they may have limitations.  
   **Q:** is there any changes in regulation since those amendments?  
   **A:** no. the bands are still available as when IEEE 802.11aj or IEEE 802.11ay was formed.  
     
   **Motion #3 (External):** Move to approve forwarding the document [11-22/1398r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1398-04-0uhr-rr-tag-mmwave-spectrum-survey.pptx) to the IEEE 802.11 Ultra High Reliability Study Group for presentation and discussion.  
     
   Moved: Rich Kennedy  
   Seconded: Stuart Kerry  
   Discussion? None.  
   Attendees: 16  
   Voters: 14  
   Vote: 10 Y, 2 N, 2 A (The Chair did not vote)  
     
   Passed.
3. **Status of ongoing consultations (**[**18-22/0035r33**](https://mentor.ieee.org/802.18/dcn/22/18-22-0035-33-0000-status-of-ongoing-consultations-and-tag-documents-for-approval.docx)**)** contains the status of ongoing consultations along with internal deadlines for EC approval and external approval.
4. **Proposed Response to Ofcom call for input on UK preparation for World Radiocommunications Conference 2023,** [**18-22-0111r0**](https://mentor.ieee.org/802.18/dcn/22/18-22-0111-00-0000-proposed-response-to-france-arcep-on-preparing-for-the-future-of-mobile-networks.docx)**, Hassan Yaghoobi (Intel Corp.)**Presentation of the draft response.  
     
   Some comments to be resolved.  
     
   **C:** Agree security should be highlighted.  
   **C:** ECC Report 316 also contains good information.  
   **A:** Will check, revise draft and get back.
5. **Recess at 12:10pm local time  
     
   Closing plenary**
6. **Chair calls meeting to order at 08:02 local time**Agenda slide-deck: [18-22-0090r4](https://mentor.ieee.org/802.18/dcn/22/18-22-0090-04-0000-rr-tag-2022-september-wireless-interim-agenda.pptx)
7. **Chair presents administrative items**See above para. 2)  
     
   Reminder of registration fee was presented.   
     
   Chair asked group if there were any questions on the policies, procedures or conditions applicable to this meeting.
8. **Administrative motions**  
   1. **Motion #4 (internal):** To approve the agenda as shown on previous slide

Moved by: kiwin Palm

Seconded by: Stuart Kerry

Discussion? None

Vote: Approved with unanimous consent

1. **Updated proposed response to Ofcom's consultation on WRC-23**Discussion on revision 2 and 3 of draft response. Small editorials. R4 before motion.  
     
   **C:** We can refer to world-wide studies on using the entire 1.2 GHz range to mitigate interference, and to Europe for section 6.2.6 in ECC Report 302.  
   **C:** OK.  
   **Chair:** Please upload r4 with these changes.
2. **Update on Spectrum Statement Update**Chair presents a re-cap of the work of ISUS Ad-hoc progress and recommendations.   
     
   **C:** Having a discussion with EC members might help better understand how we can shape these discussions in future, and whether we rather need an entirely new statement.
3. **Ofcom WRC-23 consultation response**In [18-22-0114r4](https://mentor.ieee.org/802.18/dcn/22/18-22-0114-04-0000-proposed-response-to-ofcom.odt) the final draft (see above para. 13) is contained.  
     
   **Motion #5 (External):** Move to approve document [18-22/0114r4](https://mentor.ieee.org/802.18/dcn/22/18-22-0114-04-0000-proposed-response-to-ofcom.odt) in response to UK Ofcom’s consultation “Call for input: UK preparations for the World Radiocommunications Conference 2023 (WRC-23)” for review and approval by the IEEE LMSC (802 EC) for submission to U K Ofcom by the response deadline. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.  
     
   Moved: Amelia Andersdotter  
   Seconded: Hassan Yaghoobi  
   Discussion:  
   Attendees: 17  
   Voters (present): 14  
   Result: 14 Y / 0 N / 1 A / 1 Did not vote (Chair did not vote)
4. **General discussion items**
   1. **Europe**ETSI BRAN had its plenary meeting between 5-9 September 2022. The goal of sending new standards to ENAP was not met.   
        
      In two cases relating to 60 GHz and TVWS, the European Commission sent comments to ETSI TC BRAN. Until ETSI TC BRAN responds to these comments, the EC will not list these standards in the OJEU. Responding to the EC's comments, however, does not guarantee that the EC's will list the standards in the OJEU. This procedure has caused discussions on the EC assessment procedure involving ETSI, CEN-CENELEC and the EC.  
        
      Ad-hoc meetings are scheduled for three hours on 7, 8 and 10 November 2022 respectively.  
        
      This may enable the launch of new ENAP procedures by December 2022.  
        
      **C:** After the European Commission (EC) assessment, we want the 6 GHz submitted for ENAP. In the first ENAP we already had feedback, and we addressed those.
   2. **Americas**Information on the next open FCC meeting (29 September).  
        
      The FCC has signed a Memorandum of Understanding with Body of European Regulators for Electronic Communications (BEREC) on future of communications and combating unwanted robocalls.Chile Ministry of interior and public security has allowed unlicensed use in the entire 6 GHz band (up to 7125 MHz). This permission was withdrawn on 14 September 2022 and now only covers the lower half of the 6 GHz band.  
        
      Dominican Republic announced earlier in the week 11-16 that they will adopt the entire 1.2 GHz in upper 6 GHz bands for RLAN communications.
   3. **Asia/Pacific**Australian government has published a 5-year outlook 2022-2027 for spectrum use. The conclusion is to continue to monitor the development on the upper 6 GHz. They also indicate willingness to explore the use of AFC.
   4. **Other regions/ITU-R**
5. **Reminder about next meeting (Thailand November plenary)**Reminder of registration requirements, cancellation fees and hotel.
6. **Reminder of future teleconferences**  
     
   Reminder of future teleconferences.
7. **Any other business**

Question on the rules of the membership for IEEE 802.18. With two sessions in one week, it is necessary to attend both the opening and closing plenary of the IEEE 802.18 during a meeting week. Otherwise the 75%+ attendance credit is not met.   
Chair responds that there is reciprocal credit granted between IEEE 802.11 and IEEE 802.18.  
**Action item for Chair:** follow up with the IEEE 802.11 and IEEE 802.15 Working Group Chairs to clarify the long-term situation on reciprocal credit for attendees that participate in both 802.11, 802.15 and 802.18.  
**Note:** One week's notice for reciprocal credit is insufficient.

Comment that selective reciprocal credit being possible (for instance selecting certain 802.11 sessions that give reciprocal credit, and other sessions which don't) is unacceptable. This would cause 802.18 Chair to be in the position of favoring certain participants over others, based on whether the Chair finds their 802.11 activities valuable or not.   
There are two sets of rules: the operations manual of 802, and the operations manuals of .11 and .15. Grants of reciprocal attendance needs to be clear.

Reminder to sign into IMAT.

1. **Final administrative items**
   1. Next weekly teleconference call scheduled for: 22 September 2022, 15h00 ET.
      * 1. Call in info: https://mentor.ieee.org/802.18/dcn/16/18-16-0038-26-0000-teleconference-call-in-info.pptx
        2. IEEE 802 plenary is 13-18 November 2022 in Bangkok, Thailand.
        3. Currently, RR-TAG weekly teleconferences are scheduled until 26 January 2023.
        4. All late changes/cancellations will be sent out to the 802.18 list server.
        5. Overall IEEE 802 schedule: <https://ieee802.org/16/cal-temp.html> or only 802.18: [IEEE 802.18 TAG Calendar](https://calendar.google.com/calendar/embed?src=c2gedttabtbj4bps23j4847004@group.calendar.google.com&ctz=America%2FNew_York)
   2. Adjourn:

* Any objection to Adjourn? None heard.
* Adjourn at 9:22 local time

**ATTENDANCE (Interim Attendance Names and Affiliations) [Report by Stuart Kerry]:**

|  |  |  |  |  |  |  |
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|  |  |  |  |  |  | **Reciprocal** |
| **Voting Attendees:** | |  |  | **13-Sep** | **15-Sep** | **Credit >75%** |
| 1 | **Andersdotter** | Amelia | Sky Group/Comcast | **x** | **x** | **TRUE** |
| 2 | **Au** | Edward (Kwok Shum) | Huawei Technologies Co., Ltd | **x** | **x** | **TRUE** |
| 3 | **Baykas** | Tuncer | Ofinno |  |  | **TRUE** |
| 4 | **Boldy** | David | Broadcom Corporation | **x** | **x** | **TRUE** |
| 5 | **da Silva** | Claudio | Meta Platforms, Inc. |  | **x** | **TRUE** |
| 6 | **de Vegt** | Rolf | Qualcomm Incorporated |  | **x** | **TRUE** |
| 7 | **Ecclesine** | Peter | Cisco Systems, Inc. |  |  | **TRUE** |
| 8 | **Eitan** | Alecsander | Qualcomm Incorporated | **x** | **x** | **TRUE** |
| 9 | **Fang** | Yonggang | MediaTek | **x** | **x** | **TRUE** |
| 10 | **Gilb** | James P.K. | General Atomics Aeronautical Systems and Gilb Consulting, UoSD, GenXCom |  |  | **FALSE** |
| 11 | **Godfrey** | Tim | Electric Power Research Institute, Inc. (EPRI) | **x** | **x** | **TRUE** |
| 12 | **Hiertz** | Guido | Ericsson GmbH |  | **x** | **TRUE** |
| 13 | **Jeffries** | Timothy | FutureWei Technologies, Inc. | **x** | **x** | **TRUE** |
| 14 | **Jones** | Vincent Knowles IV | Qualcomm Incorporated |  |  | **TRUE** |
| 15 | **Kain** | Carl | USDOT, Noblis, Inc. | **x** | **x** | **TRUE** |
| 16 | **Kasher** | Assaf | Qualcomm Incorporated | **x** | **x** | **TRUE** |
| 17 | **Kennedy** | Richard | Unlicensed Spectrum Advocates, LLC | **x** | **x** | **TRUE** |
| 18 | **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. | **x** | **x** | **TRUE** |
| 19 | **Kerry** | Stuart | OK‐Brit, Self | **x** | **x** | **TRUE** |
| 20 | **Lansford** | James | Qualcomm Incorporated |  | **x** | **TRUE** |
| 21 | **Levy** | Joseph | InterDigital, Inc. |  |  | **TRUE** |
| 22 | **Palm** | kiwin (Stephen) | Broadcom Corporation | **x** | **x** | **TRUE** |
| 23 | **Petrick** | Al | Skyworks Solutions Inc. | **x** | **x** | **TRUE** |
| 24 | **Pirhonen** | Riku | NXP Semiconductors | **x** |  | **FALSE** |
| 25 | **Sand** | Stephan | German Aerospace Center (DLR) |  | **x** | **TRUE** |
| 26 | **Sherlock** | Ian | Texas Instruments | **x** | **x** | **TRUE** |
| 27 | **Stanley** | Dorothy | Hewlett Packard Enterprise |  |  | **TRUE** |
| 28 | **Verso** | Billy | Qorvo | **x** | **x** | **TRUE** |
| 29 | **Wang** | Lei | FutureWei Technologies, Inc. |  | **x** | **TRUE** |
| 30 | **Ward** | Lisa | Rohde & Schwarz |  |  | **TRUE** |
| 31 | **Yaghoobi** | Hassan | Intel Corporation | **x** | **x** | **TRUE** |
| **‍** |  |  |  |  |  |  |
|  |  |  |  |  |  | **Reciprocal** |
| **Non-Voting Attendees:** | | |  | **13-Sep** | **15-Sep** | **Credit >75%** |
| 1 | **Haasz** | Jodi | IEEE SA | **x** | **x** | **TRUE** |
| 2 | **Max** | Sebastian | Ericsson AB |  |  | **TRUE** |
| 3 | **Petranovich** | James | ViaSat, Inc. | **x** | **x** | **TRUE** |
| 4 | **Pettersson** | Charlie | Ericsson AB | **x** | **x** | **TRUE** |
| 5 | **Porat** | Ron | Broadcom Corporation |  |  | **TRUE** |
| 6 | **Shen** | Andy | Futurewei, U.S. Subsidiary of Huawei |  | **x** | **FALSE** |
| 7 | **Yang** | Steve TS | MediaTek |  | **x** | **FALSE** |
| **‍** |  |  |  |  |  |  |
| **End.** | |  |  |  |  |  |