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

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| Radio Regulatory Technical Advisory Group Minutes  January 2024 Mixed-Mode IEEE 802 Interim Session | | | | |
| Date: January 31, 2024 | | | | |
| Author: | | | | |
| Name | Company | Address | Phone | email |
| Al Petrick | Skyworks Solutions |  |  | Apetrick123@gmail.com |
| Stuart J Kerry | OK-Brit; Self |  |  | stuart@ok-brit.com |
|  |  |  |  |  |

Abstract

This document constitutes the minutes of the IEEE 802.18 Radio Regulatory Technical Advisory Group for the January 2024 Mixed Mode IEEE 802 Wireless Interim Session, with on-site participants in Panama City, Panama, and remote participants through Webex. "Local time" in this document means "local time Eastern Standard Time” (EST) zone.

**C:** means question or comment from participant.

**Chair:** means statement by the chair as chair.  
**A:** means answer to comment.  
Highlight means action point.

Chair: Edward Au (Huawei)

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

Secretary: VACANT (Open position)

IEEE SA Program Manager: Jodi Hassz (IEEE SA)

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

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/>

**Opening meeting – January 17, 2024**

1. **Opening formalities**
2. The chair calls the meeting to order at 8:12AM EST local time. Quorum is asserted.  
     
   Agenda slide deck doc: **18-23/0141r2** with supplementary materials in doc: **18-23/0142r2.**
3. All Group officers are present.

Co-Vice Chair: Al Petrick volunteered as secretary for the January 2024 interim session.

1. This meeting is part of the IEEE 802 wireless mixed mode interim session located in Panama City, Panama at the Hilton Panama the week of January 14-19, 2024.

* You **must** pay the registration fee to attend and to receive attendance credit.
* If you have not already done so, you can register w/MTG Events Pty Ltd – Registration website at: **https://touchpoint.eventair.com/2024-jan-ieee-802-wireless-interim-session**
* 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 the conclusion of each of the 802.18 meetings, the Webex log and IMAT log will be reviewed.
* No payment, you become a deadbeat and lose voting rights in all IEEE 802 groups, after the 60-day grace period.

Stuart Kerry (Co-Vice Chair) confirmed as of the January 2024 interim, 802.18 has **zero deadbeats**.

1. Chair presents the agenda. No comments or questions on the agenda.  
   * + **Motion #1 (internal):** To approve the agenda as shown in the “RR-TAG Opening” tab of the document **18-23/0141r2.**

Moved by: Stuart Kerry

Seconded by: Hassan Yaghoobi

Discussion: None

Vote: Approved with unanimous consent.

1. Voter list update.   
     
   Group officers and voting membership (as of January 17, 2024)

Voters: 55 (8 on LMSC)

Nearly Voters: 4

Aspirant members: 15

[802.18 Voters List](https://www.ieee802.org/18/RRTAG_Voters.pdf)

1. **Administrative items**
   * **Policies and procedures**
   1. 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/)]

* 1. Reciprocal credit with IEEE 802.11 Working Group (WG) is granted for only the two meeting slots scheduled for IEEE 802.18 at this session as per agreement between the 802.11 and 802.18 chairs.   
       
     The chair asked for any press in the room to announce their presence (i.e., anyone reporting publicly on this meeting) to announce their presence (per IEEE SA Standards Board Ops Manual).   
     No response, no comments in WebEx Chat window
  2. **Reminder that IMAT is being used for attendance at this session.**

https://imat.ieee.org/my-site/home

Online meeting procedures reminder

Walk-through of session schedule.

The Chair asks the group if there are any questions relating to the IEEE SA policies.

No response, no comments on WebEx Chat window.

1. **General business**  
   * **Minutes**

The Chair presented the meeting minutes doc: **18-23/0129r0** from RR-TAG November 2023

plenary session.   
No questions or comments.  
 **Motion #2 (internal):** To approve the meeting minutes of the RR-TAG 2023 November plenary session as shown in the document **18-23/0129r0**, with editorial privilege for the 802.18 Chair.

Moved by: Al Petrick

Seconded by: Stuart Kerry

Discussion: None.

Vote: Approved with unanimous consent.

* + **Opening reports**
    - **Presentation of 802.18 opening report doc:18-23/0143r1,** Edward Au (Chair)
    - Chair gave a progress update since the plenary meeting in November 2023 on the following:
      1. The IEEE 802 LMSC approved outbound submissions doc: **18-23/0134r7** (EU RSPG’s consultation “Work programme for 2024 and beyond”)
      2. An update on ETSI BRAN was given by ETSI BRAN Chair on November 7, 2023   
         doc: **18-23/0129r0.**

1. **Old Business**

* **Status of Ongoing Consultations** – for details, see tracking document **18-24/0001, Edward Au (Chair)**

Chair gave a brief status update for the following ongoing consultations and deadline dates:

* + - 1. Colombia ANA: 6 GHz band coexistence study
      2. UK Ofcom proposed plan of work 2024-2025
      3. US FCC 6 GHz Second Report and Order, Second Further Notice of Proposed Rulemaking and Memorandum Opinion and Order of Remand.

The Chair asks for comments. No comments received.

* **Review: Draft Response to Colombia ANE’s consultation** doc: **18-24/0006r2** by Hassan Yaghoobi (Intel)
  + Document redline initial review was led by Hassan Yahgoobi.
  + Chair opened discussion. Some comments.
  + Chair: Document **18-24/0006r3** will be motioned during the closing plenary on Thursday January 18, 2024 under Agenda Item 4.1.1 Old Business. Comments will be considered during redline review.
* **Review: Draft Response to US FCC’s Consultation** doc: **18-24/0007r1** by Hassan Yaghoobi (Intel)
  + Document (redline) initial review was led by Hassan Yaghoobi.
  + Chair opened discussion. Some comments.
  + **C**: Need more discussion on “with and without Geofencing.
  + **C:** In ETSI, power level threshold for C2C enabling signal at -82dBm/20MHz is on the table and administrations are making comments on this item.
  + Chair: There are approximately 20 days to file a response once the consultation is posted on the Federal Register. Members are encouraged to discuss any comments and inputs off-line with Hassan.
  + No further comments.

1. **New Business**
   * **Announcement: Designation of individual experts**
     + 802.18 Chair announced Andrea Mora, Chair of CEPT FM61, was invited to give a presentation Title: CEPT current work on higher power WAS/RLAN in the 6GHz lower band using a dynamic spectrum usage coordination. Andrea Mora will give the presentation remotely using WebEx. The presentation will be given on Thursday January 18, 2024, at the 802.18 closing plenary. Members are encouraged to attend. See doc: **18-23/0142r3** slide 44 for details.

* + **Announcement: Officer Elections in March 2024**
    - The Chair informed the group, officer (Chair, Vice-Chairs(s) and Secretary) elections for 802.18 will take place during the 802.18 March 2024 plenary. Candidate introduction and Q&A will take place during the opening meeting, and election will take place during the closing meeting. Nominations will open from February 11, 2024 to March 11, 2024.   
      Direct Vote Live (DVL) will be used to run the voting, motion, and summary of results.
    - **C:** Stuart Kerry (Co-Vice-Chair) and Al Petrick (Co-Vice-Chair) informed the Chair and group they will be running for re-election in March 2024. Both stated that they will restate their intention too when nominations are open. They further confirmed that the appropriate statements of affiliation and support will be provided to the IEEE 802 EC recording secretary.

1. **Recessed at 10:00 AM EST local time (until Thursday AM 1, January 18, 2024)**

**Closing meeting – January 18, 2024**

1. **Opening formalities**
   * Chair calls meeting to order at 08:00AM EST local time. Quorum is declared.
   * Agenda slide deck **18-23/0141r3** with supplementary materials in **18-24/0142r3**.
   * Officer introduction.
   * Reminder of registration fee was presented.
   * Agenda review (see presentation slide 6).

* **Motion #3 (internal):** To approve the agenda as shown in the “RR-TAG Closing” tab of the document **18-23/0141r3.**

Moved by: Al Petrick

Seconded by: Stuart Kerry

Discussion: None

Vote: Approved with unanimous consent

1. **Policies and procedures**
   * IEEE 802 required notices
     + Declaration of affiliation
     + Anti-trust notices
     + IEEE 802 WG policies and procedures
   * Guidelines for IEEE SA meetings were introduced.
     + Reminder to object when inappropriate topics are discussed.
     + IEEE 802 Code of Conduct and Code of Ethics were introduced.
     + Reminder of the IEEE SA individual process applied in IEEE 802 Committee.
     + Reminder of IEEE SA board bylaws specifying fair and equitable consideration of all viewpoints.

Chair asks for comments, questions, or concerns on the IEEE 802 required notices.

None reported.

* + Reminder of housekeeping and meeting decorum.

1. **New Business**
   * **Members enrichment activities**

* **Invited presentation:**  
  CEPT current work on higher power WAS/RLAN in the 6 GHz lower band using a dynamic spectrum usage coordination presentation by Andrea Mora, ANFR-CEPT FM61 Chair in doc: **18-24/0008r1.**

* Andrea Mora, L’agence nationale des frequences (ANFR) Chair, CEPT FM61 presented remotely.
* 802.18 Chair opens discussion for questions and comments.

**C:** Clarify CEPT FM61\_03 and SE45\_05 work plan target dates in 2024-25.

**C:** Will an authority run the database?

**C:** Chair asks if IEEE 802 needs to share any general information with FM61\_02.

**A:** No information needed at this time. See doc: **18-24/0008r1** for details.

No further comments.

1. **Old Business**
   * **Status of Ongoing Consultations**
   * **Review and Motion: Draft response to Colombia ANEs consultation.**

* Draft response to the Colombia Agencia Nacional del Espectro (ANE)’s consultation “6 GHz band coexistence study (**18-24/0006r3**) authored by Hassan Yaghoobi (Intel).
* The redline document was presented by Hassan Yaghoobi. Discussion was open to review editorial comments in redline doc:**18-24/0006r3**. No objection to moving to vote on clean version doc: **18-24/0006r4**. Editorial comments received after doc: **18-24/0006r3** from Al Petrick (Co-Vice-Chair) may be considered during IEEE 802 LMSC’s review.
* **Motion #4 (external):** Move to approve document **18-24/0006r4** in response to the Colombia Agencia Nacional del Espectro (ANE)’s consultation “6 GHz band coexistence study”, for review and approval by the IEEE 802 LMSC for submission to the ANE by the response deadline. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.

Moved by: Hassan Yaghoobi

Seconded by: Al Petrick

Discussion: There was a question on redline vs. clean version revision 4 of the document.

Attendees: 32

Voters (present) 24

Result: Approved (18 Yes, 0 No, 0 Abstain)

Note: The Chair did not vote.

Stuart Kerry (Co-Vice-Chair) confirms voting results on Motion #4.

* **General Discussion Topics**: Update provided by Chair.

**Europe, Middle East and Africa**

See information contained in the agenda supplementary doc: **18-23/0142r3.**

**Americas**

See information contained in the agenda supplementary doc: **18-23/0142r3.**

**Asia Pacific**

See information contained in the agenda supplementary doc: **18-23/0142r3.**

**ITU-R**

See information contained in the agenda supplementary doc: **18-23/0142r3.**

* **Overview on the Results of WRC-2023 relevant for THz Communications** doc: (**15-24/0030r1**) by Thomas Kurner
  + Document is presented. Chair opens discussion. Some discussion from the group on points of clarification.

1. **Closing formalities**
   * **Future meetings.**Chair refers to slides 53 and 54 of doc: **18-24/0142r3** for details on weekly conference calls and registration fees for the upcoming March 2024 IEEE 802 plenary in Denver, Colorado, USA.
     + Early rate expired – standard rate expires on March 1, 2024
     + No comments on Future meetings.
2. **Any other business**

No other business. No comments.   
A reminder to register and log in to IMAT.

Chair: Any objection to Adjourn? None heard.

* **Adjourn at 10:01 AM EST local time.**

1. **Final administrative items**

**ATTENDANCE (Interim Attendance Names and Affiliations):**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Attendees** | **Voters** | **Non-Voters** |  | **Audited & Reported By** |  |
| **17-Jan** | 39 | 33 | 6 |  | Stuart Kerry |  |
| **18-Jan** | 45 | 34 | 11 |  | Stuart Kerry |  |

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| **Voting Attendees:** | | | | **17-Jan** | **18-Jan** | **Credit >75%** |
| 1 | **Au** | Edward (Kwok Shum) | Huawei Technologies Co., Ltd | **x** | **x** | **TRUE** |
| 2 | **Baykas** | Tuncer | Ofinno | **x** | **x** | **TRUE** |
| 3 | **Boldy** | David | Broadcom Corporation | **x** | **x** | **TRUE** |
| 4 | **da Silva** | Claudio | Meta Platforms, Inc. |  | **x** | **FALSE** |
| 5 | **de Vegt** | Rolf | Qualcomm Incorporated | **x** | **x** | **TRUE** |
| 6 | **Fang** | Yonggang | MediaTek Inc. | **x** | **x** | **TRUE** |
| 7 | **Godfrey** | Tim | Electric Power Research Institute, Inc. (EPRI) | **x** | **x** | **TRUE** |
| 8 | **Halasz** | Dave | Morse Micro | **x** | **x** | **TRUE** |
| 9 | **Hiertz** | Guido | Ericsson GmbH | **x** | **x** | **TRUE** |
| 10 | **Jeffries** | Timothy | FutureWei Technologies, Inc. | **x** | **x** | **TRUE** |
| 11 | **Jones** | Vincent Knowles IV | Qualcomm Incorporated | **x** | **x** | **TRUE** |
| 12 | **Kain** | Carl | USDOT, Noblis, Inc. | **x** | **x** | **TRUE** |
| 13 | **Kennedy** | Richard | Bluetooth SIG; Self | **x** | **x** | **TRUE** |
| 14 | **Kerry** | Stuart | OK‐Brit, Self | **x** | **x** | **TRUE** |
| 15 | **Kitazawa** | Shoichi | Muroran Institute of Technology | **x** | **x** | **TRUE** |
| 16 | **Kürner** | Thomas | TU Braunschweig | **x** | **x** | **TRUE** |
| 17 | **Lansford** | James | FaraFir Consulting | **x** | **x** | **TRUE** |
| 18 | **Levy** | Joseph | InterDigital, Inc. | **x** | **x** | **TRUE** |
| 19 | **Li** | Huan‐Bang | National Institute of Information and Communications Technology (NICT) | **x** | **x** | **TRUE** |
| 20 | **Max** | Sebastian | Ericsson AB | **x** | **x** | **TRUE** |
| 21 | **Petrick** | Al | Skyworks Solutions Inc. | **x** | **x** | **TRUE** |
| 22 | **Pettersson** | Charlie | Ericsson AB | **x** | **x** | **TRUE** |
| 23 | **Pirhonen** | Riku | NXP Semiconductors | **x** | **x** | **TRUE** |
| 24 | **Porat** | Ron | Broadcom Corporation | **x** | **x** | **TRUE** |
| 25 | **Robert** | Joerg | TU-Ilmenau/Fraunhofer IIS | **x** | **x** | **TRUE** |
| 26 | **Sand** | Stephan | German Aerospace Center (DLR) | **x** | **x** | **TRUE** |
| 27 | **Sasaki** | Shigenobu | Niigata University, Japan | **x** | **x** | **TRUE** |
| 28 | **Sherlock** | Ian | Texas Instruments | **x** | **x** | **TRUE** |
| 29 | **Stanley** | Dorothy | Hewlett Packard Enterprise |  | **x** | **FALSE** |
| 30 | **Verso** | Billy | Qorvo | **x** | **x** | **TRUE** |
| 31 | **Wang** | Lei | FutureWei Technologies, Inc. | **x** | **x** | **TRUE** |
| 32 | **Ward** | Lisa | Rohde & Schwarz | **x** |  | **FALSE** |
| 33 | **Wilhelmsson** | Leif | Ericsson AB | **x** | **x** | **TRUE** |
| 34 | **Yaghoobi** | Hassan | Intel Corporation | **x** | **x** | **TRUE** |
| 35 | **Yu** | Ross (Jian) | Huawei Technologies Co., Ltd | **x** | **x** | **TRUE** |
|  |  |  |  |  |  |  |
| **Non-Voting Attendees:** | | | | **17-Jan** | **18-Jan** | **Credit >75%** |
| 1 | **Aldana** | Carlos | Facebook |  | **x** | **FALSE** |
| 2 | **Emmelmann** | Marc | Self | **x** | **x** | **TRUE** |
| 3 | **Hosako** | Iwao | National Institute of Information and Communications Technology (NICT) | **x** | **x** | **TRUE** |
| 4 | **Kumbhkar** | Ratnesh | Intel Corporation |  | **x** | **FALSE** |
| 5 | **Lalam** | Massinissa | Sagemcom Broadband SAS | **x** | **x** | **TRUE** |
| 6 | **Mora** | Andrea | L'agence nationale des fréquences (ANFR) |  | **x** | **FALSE** |
| 7 | **Nagai** | Yukimasa | Mitsubishi Electric Corporation | **x** | **x** | **TRUE** |
| 8 | **Neirynck** | Dries | Ultra Radio Ltd | **x** | **x** | **TRUE** |
| 9 | **Wang** | Perry (Pu) | Mitsubishi Electric Research Laboratories (MERL) |  | **x** | **FALSE** |
| 10 | **Wendt** | Matthias | Signify | **x** | **x** | **TRUE** |
| 11 | **Yang** | Steve TS | MediaTek |  | **x** | **FALSE** |

**End.**