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

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| Radio Regulatory Technical Advisory Group Minutes  September 2024 Mixed-Mode IEEE 802 Interim Session 10 September 2024 | | | | |
| Date: 21 September 2024 | | | | |
| Author: | | | | |
| Name | Company | Address | Phone | email |
| Gaurav Patwardhan | Hewlett Packard Enterprise (HPE) |  |  | gauravpatwardhan1@gmail.com |
| Al Petrick | Skyworks Solutions |  |  | Apetrick123@gmail.com |
| Edward Au | Huawei |  |  | Edward.ks.au@gmail.com |

Abstract

This document constitutes the minutes of the IEEE 802.18 Radio Regulatory Technical Advisory Group for the September 2024 Mixed Mode IEEE 802 Interim Session, with on-site participants in Waikoloa, Hawaii, USA and remote participants through Webex. "Local time" in this document means local time “Hawaii–Aleutian Standard Time” (HST) zone.

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

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

Revisions:

* Rev 2: Initial version of the document.
* Rev 1: Editorial update.
* Rev 2: Updated document number in header.

Chair: Edward Au (Huawei)

Co-Vice-chairs: Gaurav Patwardhan (Hewlett Packard Enterprise) and Al Petrick (Skyworks Solutions)

Secretary: VACANT (Open position)

IEEE SA Program Manager: Jodi Haasz (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 – September 10, 2024**

1. **Opening formalities**
2. Chair calls the meeting to order at 10:30AM HST local time. Quorum is asserted.
3. Agenda spreadsheet document [**18-24/0079r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0079-01-0000-rr-tag-2024-september-interim-agenda.xlsx)**1** with supplementary materials in [**18-24/0080r1**](https://mentor.ieee.org/802.18/dcn/24/18-24-0080-01-0000-2024-september-rr-tag-supplementary-materials.pptx)**.**
4. Group officers are present. Gaurav Patwardhan Co-Vice Chair, volunteered as secretary for the September 2024 IEEE 802.18 interim session meeting minutes.
5. This meeting is part of the mixed mode IEEE 802 interim session located in Waikoloa Hawaii, USA, held at the Hilton Waikoloa Village on September 8-13, 2024.

* You **must** pay the registration fee to attend.
* If you have not already done so, you can register w/F2F Events – Registration website at: <https://web.cvent.com/event/3e4d01ce-a2f3-4b0c-a0f2-cc612e962919/summary>
* If you do not intend to register for this session you must leave this meeting and, if you have logged attendance on IMAT [(link)](https://imat.ieee.org/my-site/home), 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 a deadbeat and lose voting rights in all groups, after 60-day grace.
* Chair presents and reviews Agenda (RR-TAG Opening tab) in document [**18-24/0079r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0079-01-0000-rr-tag-2024-september-interim-agenda.xlsx)**1**.
  + - * **Motion #1 (Procedural):** To approve the agenda as shown in the “RR-TAG Opening Agenda” tab of the document[**18-24/0079r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0079-01-0000-rr-tag-2024-september-interim-agenda.xlsx)**1.**

Moved by: Gaurav Patwardhan

Seconded by: Guido Hiertz (Ericsson GmbH)

Discussion: None

Vote: Approved with unanimous consent.

1. **Voter list update**Group officers and voting membership (as of 6 August 2024)  
   Voters: 64 (including 10 on LMSC)

Nearly Voters: 6

Aspirant members: 8

1. **Administrative items** 
   * + **Policies and procedures:** Gaurav Patwardhan, presented slides 8 -17 in document [**18-24/0080r1**](https://mentor.ieee.org/802.18/dcn/24/18-24-0080-01-0000-2024-september-rr-tag-supplementary-materials.pptx)**.**
   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 as per the agreement between the IEEE 802.11 and IEEE 802.18 chairs.   
       
     Gaurav Patwardhan, asked for any press in the room to announce their presence.   
     No response, no comments from the group or WebEx.
  2. **Reminder that IMAT is being used for attendance.**

Online meeting procedures reminder.

Walk-through of session schedule.

* Gaurav Patwardhan, asked the group if there are any questions relating to the IEEE policies. No response, no comments from the group or WebEx.

1. **General business**  
   * **Minutes**  
     + Chair presents meeting minutes document [**18-24/0073r0**](https://mentor.ieee.org/802.18/dcn/24/18-24-0073-00-0000-rr-tag-july-2024-plenary-minutes.docx) from RR-TAG 2024 July plenary session.
     + Chair asked the group if there are any questions. No response, no comments from the group or WebEx.

**Motion #2 (Procedural):** To approve the meeting minutes of the RR-TAG 2024 July plenary session as shown in the document [**18-24/0073r0**](https://mentor.ieee.org/802.18/dcn/24/18-24-0073-00-0000-rr-tag-july-2024-plenary-minutes.docx) ,with editorial privilege for the IEEE 802.18 Chair.

Moved by: Jim Lansford (FaraFir Consulting)

Seconded by: Dorothy Stanley (Hewlett Packard Enterprise)

Discussion: None.

Vote: Approved with unanimous consent.

* + **Opening reports**
    - **Presentation of 802.18 opening report** [**18-24/0081r0**](https://mentor.ieee.org/802.18/dcn/24/18-24-0081-00-0000-2024-september-rr-tag-chair-opening-report.pptx) **,** Edward Au (Chair)  
      Chair presents progress on consultations since the plenary meeting in July 2024.
      * The IEEE 802 LMSC approved 4 submissions. For details and document links see document [**18-24/0081r0**](https://mentor.ieee.org/802.18/dcn/24/18-24-0081-00-0000-2024-september-rr-tag-chair-opening-report.pptx) slide 3.
      * Discussed latest topics related to spectrum and regulation in Europe, North America, and Asia Pacific.
    - Chair reviewed **objectives for the week**: See document[**18-24/0081r0**](https://mentor.ieee.org/802.18/dcn/24/18-24-0081-00-0000-2024-september-rr-tag-chair-opening-report.pptx).
      * Review consultations (see document[**18-24/0081r0**](https://mentor.ieee.org/802.18/dcn/24/18-24-0081-00-0000-2024-september-rr-tag-chair-opening-report.pptx)slide 4):
        + Mexico IFT’s public consultation regarding the 64 GHz - 71 GHz frequency band.
        + Qatar CRA’s public consultation regarding position paper on IoT and M2M in the State of Qatar
      * September 2024 update on ETSI BRAN proceedings.

* + - Chair asked the group if there are any questions relating to the objectives for the week.   
      No questions or comments from the group or WebEx.

1. **Old Business**
   * **Status of Ongoing Consultations.** See documents [**18-24/0080r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0080-01-0000-2024-september-rr-tag-supplementary-materials.pptx)**1** slide 22 onwards and [**18-24/0001**](https://mentor.ieee.org/802.18/documents?is_dcn=0001&is_group=0000&is_year=2024).
     + **Qatar CRA: Position paper on IoT and M2M in the State of Qatar**
       - Chair reviews the position paper, particularly the sections where UWB, Wi-Fi, HaLow and Wi-SUN can tackle the IoT and M2M applications. Chair also gives a brief overview of the questions posed by the position paper.
       - Chair recuses to present the response ([18-24/0091r2](https://mentor.ieee.org/802.18/dcn/24/18-24-0091-02-0000-proposed-response-to-qatar-cra-s-consultation-on-iot-and-m2m-position-paper.docx)) to the position paper. Al Petrick chairs the meeting. The group is also notified that since the deadline to submit the response is 26th September 2024, the finalized response needs to be approved this week on 12th September 2024 (Thursday AM2 session). Edward is reinstated as the Chair.
     + **Mexico IFT: Consultation re 64 GHz to 71 GHz** 
       - Chair gives a brief overview of the position document.
       - Hassan Yaghoobi (Intel) presents draft response ([18-24/0092r0](https://mentor.ieee.org/802.18/dcn/24/18-24-0092-00-0000-proposed-response-to-ift-public-consultation-re-the-64-ghz-71-ghz-frequency-band.docx)) to the consultation. Some discussion by members to clarify the actual extent of 60 GHz based Wi-Fi products in the draft response. Chair presented regulatory overview for mmWave Ad Hoc ([18-22/0124r1](https://mentor.ieee.org/802.18/dcn/22/18-22-0124-01-0mmW-60ghz-band-for-mmwave-ad-hoc.pptx)) as reference material used for drafting the response. Chair also presented a previously drafted response ([18-24/0048r5](https://mentor.ieee.org/802.18/dcn/24/18-24-0048-05-0000-proposed-response-to-canada-ised-s-consultation-re-draft-rss-210-issue-11.pdf)) as a template for drafting the current response under discussion. Dorothy Stanley provided the following three examples of applications of Wi-Fi in 60 GHz for inclusion in the draft response.
         * <https://www.ispsupplies.com/brands/cambium-networks/cambium-cnwave>
         * <https://www.arubanetworks.com/assets/ds/DS_AP387.pdf>
         * <https://wifinowglobal.com/news-blog/marine-network-services-for-ships-and-yachts-airvine-could-be-key-to-next-generation-networking/>
       - Chair requests members to collaborate offline and present the finalized response on 12th September 2024 (Thursday AM2 session) for approval.

* Chair asked the group if there are any questions or comments. No questions or comments from the group or WebEx.
  + **General discussion items**
    - **ETSI BRAN**
      * ETSI TC BRAN meeting, September 2024 update (see document [11-24/1538r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1538-00-coex-tc-bran-updates-september-2024.pptx))was presented by Guido Hiertz. Updates included
        + Status of EN 301 893 (5GHz)
        + Status of EN 303 687 (6GHz)
        + BRAN #126 meeting schedule on slide 4.
    - **USA**
      * Chair presents a concise [one page document](https://apexstandards.com/APEX%20STANDARDS%20C20003296%20US%20FCC%20Spectrum%20Reallocation%20and%20Public%20Safety%20-%20NextNav%20PNT%20Proposal%20Under%20Review.pdf) on summary of public comments on the FCC’s consultation on the NextNav’s petition for rulemaking.
    - **Asia/Pacific**
      * Chair mentions on 21 August 2024, Telecom Regulatory Authority of India (TRAI) [published](https://www.trai.gov.in/sites/default/files/Recommendations_21082024_0.pdf) its recommendation on TeraHertz spectrum in response to its consultation in late 2023. Chair asks if there are any comments. There are none.
      * On 26 August 2024, the Hong Kong Communications Authority [published](https://www.ofca.gov.hk/filemanager/ofca/en/content_401/hkca1039.pdf) an updated specification (HKCA 1039, Issue 7), Performance Specification for Radiocommunications Apparatus operating in the 2.4 GHz or 5 GHz band and employing Frequency Hopping or Digital Modulation. Chair asks if there are any comments. There are none.
    - Chair asked the group for AOB. No response from the group or WebEx.
    - Chair reviews 12th September 2024 (Thursday AM1) session’s agenda.

1. **Recess at 11:52 AM HST local time (until Thursday AM 1, September 12, 2024)**

**Closing meeting – September 12, 2024**

1. **Opening formalities**
   * Chair calls meeting to order at 08:00AM HST local time. Quorum is declared.
     + Agenda spreadsheet document [**18-24/0079r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0079-03-0000-rr-tag-2024-september-interim-agenda.xlsx)**3** with supplementary materials in [**18-24/0080r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0080-03-0000-2024-september-rr-tag-supplementary-materials.pptx)**3**.
   * Officer introduction.
   * Reminder of registration fee was presented.
   * Reminder of recording attendance. IMAT is used for this session.
   * Chair presents and reviews Agenda (RR-TAG Closing tab).

* **Motion #3 (Procedural):** To approve the agenda as shown in the “RR-TAG Closing Agenda” tab of the document [**18-24/0079r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0079-03-0000-rr-tag-2024-september-interim-agenda.xlsx)**3.**

Moved by: Gaurav Patwardhan

Seconded by: Al Petrick

Discussion: None

Vote: Approved with unanimous consent.

1. **Administrative Items**
   * + **Policies and procedures** Gaurav Patwardhan, presented slides 34 - 40 in document [**18-24/0080r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0080-03-0000-2024-september-rr-tag-supplementary-materials.pptx)**3.**   
       - 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.
     + Gaurav Patwardhan asked the group for comments, questions, or concerns. No response from the group or WebEx.
       - Reminder of housekeeping and meeting decorum.
       - IMAT is used for this session. <https://imat.ieee.org/my-site/home>
       - Reminder of Reciprocal credit.
     + Chair asked the group if there are any questions or comments. No response from the group or WebEx.
2. **Old Business**
   * **Motion #4 (Technical):** Move to approve document [18-24/0092r3](https://mentor.ieee.org/802.18/dcn/24/18-24-0092-03-0000-proposed-response-to-ift-public-consultation-re-the-64-ghz-71-ghz-frequency-band.docx) in response to the Mexico Instituto Federal de Telecomunicaciones (IFT)’s consultation “Public Consultation on the Preliminary Draft of the Agreement by which the Plenary of the Federal Telecommunications Institute classifies the 64-71 GHz frequency band as free spectrum and issues the technical conditions for the operation of the band”, for review and approval by the IEEE 802 LMSC for submission to the IFT before the contribution deadline. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.
     + - * Moved: Hassan Yaghoobi
         * Seconded: Ben Rolfe
         * Discussion: None
         * Result: Approved (12 Yes, 0 No, 0 Abstain)
         * Note: Chair did not vote.
   * **Motion #5 (Technical):** Move to approve document [18-24/0091r3](https://mentor.ieee.org/802.18/dcn/24/18-24-0091-03-0000-proposed-response-to-qatar-cra-s-consultation-on-iot-and-m2m-position-paper.docx) in response to the Qatar Communications Regulatory Authority (CRA)’s consultation “Position Paper on IoT and M2M in the State of Qatar”, for review and approval by the IEEE 802 LMSC for submission to the CRA before the contribution deadline. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.
     + - * Moved: Dave Halasz
         * Seconded: Dorothy Stanley
         * Discussion: None
         * Results: Approved (18 Yes, 0 No, 1 Abstain)
         * Note: The Chair did not vote
3. **Closing formalities**
   * **Future RR-TAG meeting**Chair refers to document [**18-24/0080r**](https://mentor.ieee.org/802.18/dcn/24/18-24-0080-03-0000-2024-september-rr-tag-supplementary-materials.pptx)**3** slides 50 - 51 for details on weekly conference calls and November 2024 plenary dates, and registration.

1. **Any other business**
   * Chair asked the group for any other business. None was heard.
   * Chair: A reminder to register and log into IMAT.
   * Chair: Any objection to Adjourn? None heard.

**Adjourn at 8:51 AM HST local time.**

1. **Final administrative items**

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

|  |  |  |
| --- | --- | --- |
| **Au** | Edward | Huawei Technologies Co., Ltd |
| **de Vegt** | Rolf | Qualcomm Incorporated |
| **Emmelmann** | Marc | Self |
| **Fang** | Yonggang | MediaTek Inc. |
| **Godfrey** | Tim | Electric Power Research Institute, Inc. |
| **Halasz** | Dave | Morse Micro |
| **Hiertz** | Guido | Ericsson GmbH |
| **Jeffries** | Timothy | FutureWei Technologies, Inc. |
| **Ji** | Chenhe | Huawei Technologies Co., Ltd. |
| **Kain** | Carl | USDOT, Noblis, Inc. |
| **Kajita** | Shugo | Space-Time Engineering Japan, Inc. |
| **Kennedy** | Richard | Bluetooth SIG; Self |
| **Kitazawa** | Shoichi | Muroran Institute of Technology |
| **Lalam** | Massinissa | Sagemcom Broadband SAS |
| **Lansford** | James | FaraFir Consulting |
| **Li** | Huan‐Bang | National Institute of Information and Communications Technology (NICT) |
| **Mamam** | Mickael | ST |
| **Morioka** | Hitoshi | SRC Soft |
| **Palm** | kiwin (Stephen) | Broadcom Corporation |
| **Patwardhan** | Gaurav | Hewlett Packard Enterprise |
| **Petrick** | Al | Skyworks Solutions Inc. |
| **Pirhonen** | Riku | NXP Semiconductors |
| **Robert** | Joerg | TU-Ilmenau/Fraunhofer IIS |
| **Rolfe** | Benjamin | Blind Creek Associates |
| **Salem** | Pein | Cisco |
| **Sand** | Stephan | German Aerospace Center (DLR) |
| **Sherlock** | Ian | Texas Instruments |
| **Stanley** | Dorothy | Hewlett Packard Enterprise |
| **Takai** | Mineo | Space-Time Engineering |
| **Verso** | Billy | Qorvo |
| **Wang** | Lei | FutureWei Technologies, Inc. |
| **Ward** | Lisa | Rohde & Schwarz |
| **Wendt** | Matthias | Signify |
| **Yaghoobi** | Hassan | Intel Corporation |
| **Yang** | Shang-Te | Apple Inc. |

**End.**