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

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| Radio Regulatory Technical Advisory Group Minutes  November 2024 Mixed-Mode IEEE 802 Plenary Session 11 November 2024 | | | | |
| Date: 14 December 2024 | | | | |
| Author: | | | | |
| Name | Company | Address | Phone | email |
| Al Petrick | Skyworks Solutions |  |  | Apetrick123@gmail.com |
| Gaurav Patwardhan | Hewlett Packard Enterprise |  |  | gauravpatwardhan1@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 November 2024 Mixed Mode IEEE 802 Plenary Session, with on-site participants in Vancouver BC, Canada and remote participants through Webex. "Local time" in this document means local time “Pacific Standard Time” (PST) zone.

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

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

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Requested editorials.

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 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 – November 11, 2024**

1. **Opening formalities**
2. Chair calls the meeting to order at 4:02 PM PST local time. Quorum is asserted.
3. Agenda spreadsheet document [**18-24/0096r1**](https://mentor.ieee.org/802.18/documents?is_dcn=96&is_group=0000&is_year=2024) with supplementary materials in [**18-24/0097r1**](https://mentor.ieee.org/802.18/documents?is_dcn=97&is_group=0000&is_year=2024)**.**
4. Group officers are present. Al Petrick Co-Vice Chair, volunteered as secretary for the   
   November 2024 IEEE 802.18 plenary session meeting minutes.
5. This meeting is part of the mixed mode IEEE 802 plenary session located in Vancouver BC, Canada, held at the Hyatt Regency on November 10 - 15, 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/cfbda833-a1ae-4e62-b6c3-fa156738a349/summary**](https://web.cvent.com/event/cfbda833-a1ae-4e62-b6c3-fa156738a349/summary)
* 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. <https://imat.ieee.org/my-site/home>
* 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 [**18-24/0096r1**](https://mentor.ieee.org/802.18/documents?is_dcn=96&is_group=0000&is_year=2024).
  + - * **Motion #1 (Procedural):** To approve the agenda as shown in the “RR-TAG Opening Agenda” tab of the document[**18-24/0096r1**](https://mentor.ieee.org/802.18/documents?is_dcn=96&is_group=0000&is_year=2024)**.**

Moved by: Guido Hiertz

Seconded by: Harry Bims

Discussion: None

Vote: Approved with unanimous consent.

1. **Voter list update**Group officers and voting membership (at the opening meeting on 11 November 2024).   
   Voters: 63 (including 10 on LMSC)

Nearly Voters: 6

Aspirant members: 6

1. **Administrative items** 
   * + **Policies and procedures:** Gaurav Patwardhan, presented slides 7-17 in   
       document [**18-24/0097r1**](https://mentor.ieee.org/802.18/documents?is_dcn=97&is_group=0000&is_year=2024)**.**
   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 [**18-24/0093r1**](https://mentor.ieee.org/802.18/documents?is_dcn=93&is_group=0000&is_year=2024) from RR-TAG 2024 September  
       interim 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 September interim session as shown in the document [**18-24/0093r1**](https://mentor.ieee.org/802.18/documents?is_dcn=93&is_group=0000&is_year=2024) ,with editorial privilege for the IEEE 802.18 Chair.

Moved by: Gaurav Patwardham

Seconded by: Al Petrick

Discussion: None.

Vote: Approved with unanimous consent.

* + **Opening reports**
    - **Presentation of 802.18 opening report** [**18-24/0098r0**](https://mentor.ieee.org/802.18/documents?is_dcn=98&is_group=0000&is_year=2024) **,** Edward Au (Chair)  
      Chair presents progress on consultations since the interim meeting in September 2024.
      * The IEEE 802 LMSC approved 6 submissions. For details and document links see document [**18-24/0098r0**](https://mentor.ieee.org/802.18/documents?is_dcn=98&is_group=0000&is_year=2024) slide 3.
      * Discuss latest topics related to spectrum and regulation in Europe, North America, and Asia Pacific.
    - Chair reviewed **objectives for the week**: See document[**18-24/0098r0**](https://mentor.ieee.org/802.18/documents?is_dcn=98&is_group=0000&is_year=2024).
      * Review consultations: Japan MIC, Saudi Arabia CST, EU CEPT ECC, Vietnam MIC. See document[**18-24/0098r0**](https://mentor.ieee.org/802.18/documents?is_dcn=98&is_group=0000&is_year=2024)slide 4 for details.
      * Discuss latest topics related to spectrum and regulation in Europe, North America, and Asia Pacific: Such as: Updates from ETSI BRAN.
    - 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 [**18-24/0096r1**](https://mentor.ieee.org/802.18/documents?is_dcn=96&is_group=0000&is_year=2024)  and [**18-24/0001**](https://mentor.ieee.org/802.18/documents?is_dcn=0001&is_group=0000&is_year=2024).
   * **Saudi Arabia CST’s consultation re 6 GHz AFC**: See document [**18-24/0112r2**](https://mentor.ieee.org/802.18/documents?is_dcn=112&is_group=0000&is_year=2024) 
     + Chair reviews reply position to questions 2, 10, 11and 17 of 6 GHz AFC consultation with the group.
     + Chair asks the group if there are any comments or questions. There was some discussion on light licensing and building entry loss (BEL).
   * **Japan’s MIC’s consultation re special exemption systems:** See document [**18-24/0118r0**](https://mentor.ieee.org/802.18/documents?is_dcn=118&is_group=0000&is_year=2024) 
     + Chair reviews reply position to “call for opinions” for proposed amendment on the 90 day and 180 day rules.

* Chair asked the group if there are any questions or comments. There were questions related to UWB, IEEE Std 802.15.4-2020 references.
  + **ACMA**
    - Chair reviews Australian Communications and Media Authority proposed update to the Australian Radio Frequency Spectrum Plan.
  + **Unofficial translation Vietnam MIC’s consultation**
    - Chair reviews unofficial translation of Vietnam MIC’s consultation re lower 6GHz band for Wi-Fi. See document [**18-24/0105r0**](https://mentor.ieee.org/802.18/documents?is_dcn=105&is_group=0000&is_year=2024)**,** and [**18-24/0106r0**](https://mentor.ieee.org/802.18/documents?is_dcn=106&is_group=0000&is_year=2024)
    - Chair asked the group for AOB. No response from the group or WebEx.

1. **Recessed at 5:05 PM PST local time (until Tuesday AM2, November 12, 2024)**

**Closing meeting – November 12, 2024**

1. **Opening formalities**
   * Chair calls meeting to order at 10:30AM PST local time. Quorum is declared.
     + Agenda spreadsheet document [**18-24/0096r1**](https://mentor.ieee.org/802.18/documents?is_dcn=96&is_group=0000&is_year=2024)with supplementary materials  
       in [**18-24/0097r2**](https://mentor.ieee.org/802.18/documents?is_dcn=97&is_group=0000&is_year=2024).
   * 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 [**18-24/0096r1**](https://mentor.ieee.org/802.18/documents?is_dcn=60&is_group=0000&is_year=2024)**.**

Moved by: Guido Hiertz

Seconded by: Marc Emmelmann

Discussion: None

Vote: Approved with unanimous consent.

1. **Administrative Items**
   * + **Policies and procedures** Gaurav Patwardhan, presented slides 29-38 in   
       document [**18-24/0097r2**](https://mentor.ieee.org/802.18/documents?is_dcn=97&is_group=0000&is_year=2024)**.**   
       - 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** 
   * **Status of Ongoing Consultations**
     + **Saudi Arabia CST’s consultation re 6 GHz AFC.**
     + Chair informs the group, IEEE 802 Direct Vote Live (DVL) will be used to record all technical motions. Vice-Chair Gaurav Patwardhan moderates DVL.
     + Chair recuses to present the response ([**18-24/0112r2**](https://mentor.ieee.org/802.18/documents?is_dcn=112&is_group=0000&is_year=2024)) to the position paper to Saudi Arabia CST’s consultation re 6 GHz AFC, Al Petrick chairs the meeting.
     + Chair asks the group if there are any questions. No questions or comments.
     + Edward Au chairs the meeting.
     + **Motion #4 (Technical): Move to approve document 18-24/0112r2 in response to the Communications, Space and Technology Commission (CST)’s consultation “Light Licensing Regulations Annex for the 6 GHz Frequency Band”, for review and approval by the IEEE 802 LMSC for submission to the CST before the contribution deadline. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.**
       - * Moved: Al Petrick
         * Seconded: Dave Halasz
         * Discussion: None
         * Result: Approved (13 Yes, 0 No, 4 Abstain)
         * NOTE: The Chair did not vote.
     + **Japan MIC’s consultation re special exemption system**
     + Chair recuses to present the response ([**18-24/0118r2**](https://mentor.ieee.org/802.18/documents?is_dcn=118&is_group=0000&is_year=2024)) to the position paper to Japan MIC’s consultation re special exemption system, Al Petrick chairs the meeting.
     + Chair asks the group if there are any questions. No questions or comments.
     + Edward Au chairs the meeting.
     + **Motion #5 (Technical): Move to approve document 18-24/0118r2 in response to the Ministry of Internal Affairs and Communications (MIC)’s consultation “Call for opinions on the proposed ministerial ordinance to amend part of the Radio Law Enforcement Regulations: Addition of systems and bands to the special exemption system for non-technical equipment”, for review and approval by the IEEE 802 LMSC for submission to the MIC before the contribution deadline. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.**
       - * Moved: Al Petrick
         * Seconded: Gaurav Patwardhan
         * Discussion: None
         * Result: Approved (19 Yes, 0 No, 2 Abstain)
         * NOTE: The Chair did not vote.
     + **General Discussion Items**
       - **ETSI-BRAN**
         * Document [**18-24/0116r1**](https://mentor.ieee.org/802.18/documents?is_dcn=116&is_group=0000&is_year=2024) ETSI TC BRAN October 2024 meeting #126 update was presented by Guido Hiertz (Ericsson GmbH). Update included status of harmonized standard EN 303 687 (5945-6425 MHz). EC is questioning NBFH operation. TC BRAN continues to discuss NBFH proposals. Client-to-Client (C2C) is under consideration in the next release of the harmonized standard. World Meteorological Organization (WMO) attended the BRAN meeting and presented information on solid-state transmitter-based radars. The weather radar and RLAN presentation available to ETSI members.

Discussion: There was some discussion on interference contributed from mobile solid-state weather radars used in the presence of RLANs. Are there any interference study projects planned for solid-state weather radars and RLANs?

1. **Closing formalities**
   * **Future RR-TAG meeting**Chair refers to document [**18-24/0097r2**](https://mentor.ieee.org/802.18/documents?is_dcn=97&is_group=0000&is_year=2024)slides 50 - 51 for details on weekly conference calls and January 2025 interim dates, and registration.

* + Chair reminds group a motion is needed to continue weekly teleconference calls through 20 March 2025. See document [**18-24/0097r2**](https://mentor.ieee.org/802.18/documents?is_dcn=97&is_group=0000&is_year=2024) slide 52.
    - **Motion #6 (Procedural):** The 802.18 Chair or Chair designee is directed to conduct, as necessary, the following weekly teleconference calls from 5 December 2024 to 20 March 2025.
      * RR-TAG calls on Thursdays at 15:00 ET for 55 mins.

Moved by: Jim Lansford

Seconded by: Al Petrick

Discussion: None

Vote: Approved with unanimous consent.

1. **Any other business**
   * Chair asked the group for any other business. No response, no comments from the group or WebEx.

* + Chair reminded the group to register and log into IMAT.

**Adjourn at 12:28 PM PST local time.**

1. **Final administrative items**

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

|  |  |  |
| --- | --- | --- |
| **Asai** | Yusuke | NTT ASLabs |
| **Au** | Edward | Huawei Technologies Co., Ltd |
| **Blue** | Scott | Bluetooth SIG |
| **de Vegt** | Rolf | Qualcomm Incorporated |
| **Emmelmann** | Marc | Self |
| **Gan** | Ming | Huawei |
| **Halasz** | Dave | Morse Micro |
| **Hiertz** | Guido | Ericsson GmbH |
| **Jeffries** | Timothy | FutureWei Technologies, Inc. |
| **Ji** | Chenhe | Huawei Technologies Co., Ltd |
| **Kain** | Carl | USDOT, Noblis, Inc. |
| **Kennedy** | Richard | Bluetooth SIG; Self |
| **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. |
| **Krebs** | Alex | Apple Inc. |
| **Kürner** | Thomas | TU Braunschweig |
| **Lalam** | Massinissa | Sagemcom Broadband SAS |
| **Lansford** | James | FaraFir Consulting |
| **Leong** | Frank | NXP Semiconductors |
| **Maman** | Mickael | ST |
| **Mano** | Hiroshi | Koden Techno Info K.K. |
| **Morioka** | Hitoshi | SRC Soft |
| **Nagai** | Yukimasa | Mitsubishi Electric Corporation |
| **Palm** | Stephen | Broadcom Corporation |
| **Patel** | Tushar | Teradyne, Inc. |
| **Patwardhan** | Gaurav | Hewlett Packard Enterprise |
| **Petranovich** | James | ViaSat, Inc. |
| **Petrick** | Al | Skyworks Solutions Inc. |
| **Pirhonen** | Riku | NXP Semiconductors |
| **Robert** | Joerg | TU-Ilmenau/Fraunhofer IIS |
| **Rolfe** | Benjamin | Blind Creek Associates |
| **Salem** | Pelin | Cisco |
| **Sand** | Stephan | German Aerospace Center (DLR) |
| **Sasaki** | Shigenobu | Niigata University, Japan |
| **Sherlock** | Ian | Texas Instruments |
| **Stacey** | Robert | Intel Corporation |
| **Stanley** | Dorothy | Hewlett Packard Enterprise |
| **Sumi** | Takenori | Mitsubishi Electric Research Laboratories (MERL) |
| **Takai** | Mineo | Space-Time Engineering |
| **Takatori** | Yasushi | Nippon Telegraph and Telephone Corporation (NTT) |
| **Verso** | Billy | Qorvo |
| **Wang** | Lei | FutureWei Technologies, Inc. |
| **Ward** | Lisa | Rohde & Schwarz |
| **Wendt** | Matthias | Signify |
| **Wilhelmsson** | Leif | Ericsson AB |
| **Yaghoobi** | Hassan | Intel Corporation |
| **Yang** | Shang-Te | Apple Inc |

**End.**