IEEE P802.11
Wireless LANs

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| DRAFT Minutes of the IEEE P802.11 Full Working Group |
| Date: 2025-02-12 |
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Abstract

This document contains the minutes of the IEEE 802.11 Working Group for the January 2025 Interim session in Kobe, Japan.

Please note that all attendees at this session and their affiliations are shown in Annex D.

Revision history:

R0: initial version for review by WG members

Abbreviations:

Q: Question

C: Comment

A: Answer

SP: Straw Poll

**IEEE 802.11 Interim Session #209**

**January 13th – 17th, 2025, Kobe, Japan**

# IEEE 802.11 Opening Plenary, Monday January 13th, 2025

1. **Opening** (WG Chair Opening Report: [11-24/2106r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2106-01-0000-2025-january-working-group-chair-opening-report.pptx))

## Meeting Call to Order

The session was called to order at 9:04 Japan time by the Chair, Robert Stacey (Intel) who declared quorum for the session.

## Officer and IEEE SA staff introduction

Chair: Robert Stacey Intel

1st Vice-chair: Jon Rosdahl Qualcomm

2nd Vice-chair: Stephen McCann Huawei Technologies Co., Ltd

Secretary: Volker Jungnickel Fraunhofer Heinrich Hertz Institute

IEEE SA Staff present: Christy Bahn

Are there any members of the press present?

* + None.

There were 233 people attending in person altogether in the room and on the balcony, 292 were recorded online (9:41) and 479 in the attendance tool (IMAT).

Please note that this session requires a registration fee to be paid.

## Meeting Decorum

Chair: Please, note the information about the session decorum. No press in the room.

## Review and approve 802.11 session agenda (WG Agenda [11-24/2105r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2105-02-0000-2025-january-wg11-agenda.xlsx))

This is a summary of the January Interim. Please, note the schedule for this session on the separate tab “Schedule Graphic”.

There were a couple of updates from yesterday’s Chairs Advisory Committee (CAC) meeting. The chair highlighted the changes for the meeting slots.

Subgroup Chairs, please, connect with Stephen to get Host Keys.

**Move to approve the agenda** [**11-24-2105r**](https://mentor.ieee.org/802.11/dcn/24/11-24-2105-02-0000-2025-january-wg11-agenda.xlsx)**2 for the Monday opening plenary.**

Moved: Bo Sun, 2nd: Stephen McCann

**No objection to approving by unanimous consent.**

## Review and approve November 2024 WG meeting minutes

**Move to approve the November 2024 WG meeting minutes document** [**11-24-1680r1.**](https://mentor.ieee.org/802.11/dcn/24/11-24-1680-01-0000-minutes-working-group-november-2024.docx)

Moved: Tuncer Baykas, 2nd: Bo Sun

**No objection to approving by unanimous consent.**

## New attendees

**Straw Poll: Are you a new attendee to IEEE 802.11?**

Yes: 18 (in the room) and 5 (online).

There will be a New Members meeting at this session on Monday January 13th at AM2 10:30 local time in room 402. Everyone is welcome to join this meeting.

1. Announcements

## Policies and procedures

(2nd Vice Chair Report: [11-24/2100r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2100-00-0000-2nd-vice-chair-report-january-2025.pptx))

* + 1. Review Patent Policy Slides (slides 3-7)

The current PatCom rules were read out, including the call for essential patents information, as shown by <https://development.standards.ieee.org/myproject/Public/mytools/mob/patut.pdf>

There were no responses to the call for essential patents. No questions.

* + 1. Review Copyright Slides (slide 8-10)

The current IEEE SA copyright policy slides were presented.

* + 1. IEEE SA Participation Slides (slides 11-13)

The current IEEE SA meeting participation slides were read.

* + 1. IEEE SA Policy Documents (slide 14)

The current IEEE SA policy documents were read. No questions.

* + 1. IEEE SA Rules Documents (slide 15)

The current IEEE SA rules documents were read.

* + 1. 802 Ground Rules (slide 16)

The current IEEE 802 ground rules were read.

* + 1. IEEE 802 Rules Documents (slide 17)

The current IEEE 802 rules documents were read.

* + 1. IEEE 802.11 Operations Manual (slide 18)

Latest version of 802.11 Operations Manual is doc. [11-22/1638r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1638-04-0000-802-11-operations-manual.docx). No changes this time.

* + 1. Voting rule reminder (slides 19-20)

Remember to record your attendance for this session. To achieve 75%, which counts towards an attendance credit for the session, you must attend 13 meeting slots. Take care of losing voting rights and do your ballots. If WGLB fails, the length is only 1.

There is also a reminder about the abstain vote (lack of expertise as the only allowed reason).

* + 1. Email reflectors (slides 21-22)

Email reflectors were explained. You need to get write rights on Mentor by attendance at one meeting. If you want to change your email address, please contact the WG officers.

* + 1. Posting documents (slides 23-24)

Erroneous documents can be corrected by the 802.11 working group officers. Please, send them an email. There are quite a number of reserved documents. Ask WG Chairs to delete them if they are not needed anymore. Fixes of the names can only be done before the document was presented. Otherwise, it is recorded in the minutes. Close captioning during Telcos is available on the telcos.

* + 1. IEEE Event Conduct and Safety (Slide 25-26)

The corresponding slides were read.

No questions concerning 2.1.2 to 2.1.12.

## Incoming liaisons (WG Chair Opening Report: [11-24/2106r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2106-01-0000-2025-january-working-group-chair-opening-report.pptx))

### 2.2.1 Summary of new and pending liaisons and processing this week (slide 4)

Chair: We approved liason to WBA, have sent this back: Response to WBA liaison on implementation guidelines for L4S: Work being done in 802.11. There will be an invitation to present at future 802.11 session.

Liaisons website, see

<https://grouper.ieee.org/groups/802/11/Liaisons/Liaisons-and-External-Communications.html>

## Report on 802 LMSC or IEEE SA Standards Board decisions (slides 5-6)

* November 2024: P802.11bq (Integrated mmWave) PAR approved by LMSC
* March 2025: P802.11bf and P802.11bk to RevCom

December 9-11, 2024 – NesCom/RevCom/SASB (Oct 21, 2024, submission deadline)

* P802.11bq (Integrated mmWave) PAR

January 29, 2025 – NesCom/RevCom telecon (Dec 20, 2024, submission deadline)

* Nothing

March 24-28, 2025 – NesCom/RevCom/SASB (Feb 15, 2025, submission deadline)

* P802.11bk and P802.11bf
1. Logistics, key events/activities (WG Chair Opening [11-24-2106r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2106-01-0000-2025-january-working-group-chair-opening-report.pptx))

## Working group session documents (slide 7)

## Joint meetings & reciprocal credit with IEEE 802 groups (slides 8-11)

Reminder that there are topics relevant to IEEE 802.11 to be covered in IEEE 802.18, IEEE 802.19, IEEE 802.24, IEEE 802.1 and IEEE 802 JTC1 SC. If you attend any of these meetings, reciprocal credit is provided.

* + Please note that 802.18 meets on TUES AM2 and FRI AM1 this week.(Slide 9).
	+ Please note that 802.19 meets on MON and THUR from 6:30-8:30 p.m. (Slide 10).
	+ For other 802 meerings, see Slide 11.

At the November 2024 Vancouver meeting, 13 meeting slots are needed to get 75% which is required to maintain voting rights.

## Session information (Kobe January Interim Things-To-Know: [ec-25/0006r0](https://mentor.ieee.org/802-ec/dcn/25/ec-25-0006-00-WCSG-kobe-january-interim-things-to-know.pptx))

Holidays / Ceremonies (Slide 2):

Coming of Age Day: January 13, Earthquake 30th anniversary January 17 (Friday)

Kobe Audio-Visual (Slide 6). Opening 6 A.M. to 9 P.M.. Newcomer training (Slide 8). Combined Schedule (Slide 9). Program App (Slide 10).

## Meeting room locations (Slides 3-5)

Kobe Convention Center Room Location Introduction. Keep the venue clean.

## Meeting registration (slide 19)

Registration desk opening hours. Registration is required for this meeting.

## Recording attendance

Please remember to record your attendance in IMAT for each meeting slot you attend. Also remember to pay your registration fee for this session. Use the QR code in the area to get to the session schedule, which may be updated.

## Local file server access (Slide 11)

Network Access Information (Slide 11). WLAN SSID: IEEE802, Password: ieeeieee . IEEE 802 Documents: Local Document Server <http://ieee802.linespeed.com/>

## Breakfast, breaks, social logistics (Slides 12-14)

Breakfast on your own. Morning and afternoon tea service. Lunch MON-WED. On THUR, a Bento Box is provided. Wear your badge.

WED Social is a ship cruise in Kobe harbor (Slides 15-17). Buses leave 6:10-6:30 from Portopia Hotel. Keep these times. Link for Kobe sightseeing (Slide 18).

No questions.

1. Opening reports, activities and plans

## Working group reports (Chair Opening Report: [11-24-2106r](https://mentor.ieee.org/802.11/dcn/24/11-24-2106-01-0000-2025-january-working-group-chair-opening-report.pptx)1)

Slides 12-22 were presented during the Midweek Plenary on WED, due to time constraints.

The Following reports are contained in the WG Snapshot Slides: [11-24/2097r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2097-00-0000-january-2025-snapshot-slides.pptx)

* + 1. WG Technical Editor (slide 3)

Editors’ meeting on TUES 7:00-8:00 a.m. Agenda in [11-25/0097r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0097-01-0000-january-2025-editors-meeting.pptx).

Roll Call / Contacts / Reflector. Brief status report. Amendment alignments and draft development snapshot. Review Publication Process. Form the publication review committees. Editorial Style Guide updates and issues for feedback. ANA number spaces.

No questions.

* + 1. WG ANA report (slide 4)

ANA number spaces, latest database is [11-11/0270r76](https://mentor.ieee.org/802.11/dcn/11/11-11-0270-76-0000-ana-database.xls) (January 2025).

Changes since November 2024:

TGbi allocations: RSN AKM Suite Selectors (1), FTE Subelement IDs (1), Status Codes (3), KDE Selector Data Type (1).

TGbf adjustment: A comment exposed that some values had been double-assigned with REVme. Three Public Action frame values were reassigned.

Pending changes (10 days review): TGbi, TGbf.

No questions.

## Standing committee reports

* + 1. AIML Artificial Intelligence/Machine Learning SC (slide 5)

November meeting minutes [11-24/2003r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2003-00-aiml-aiml-sc-nov-2024-plenary-meeting-minutes.doc). One meeting slot on TUES AM1. Agenda in [11-24/2078r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2078-00-aiml-aiml-sc-jan-2025-kobe-meeting-agenda.pptx). There are two technical contributions.

* + 1. ARC Architecture SC (slides 6-7)

November meeting minutes in [11-24/1725r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1725-00-0arc-arc-sc-mixed-mode-minutes-november-2024-plenary.docx). 2 meeting slots TUES PM1, THUR AM2. Agenda in [11-24/2095r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2095-01-0arc-arc-sc-agenda-january-2025.pptx).

IEEE Std 802 revision project update effects on 802.11. Discuss technical areas on next slide. Includes replacing EPD/LPD terminology, and more. Annex G: Discussion of way forward – Thursday Liaison from WBA on QoS, and L4S – Deferred until TGbn and REVmf consider this topic. Other items being tracked (see Slide 7).

* + 1. COEX Coexistence SC (slide 8)

November meeting minutes in [11-24/1784r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1784-00-coex-november-2024-minutes.docx). Chair is not on site but chair the meeting. One meeting slot WED PM2. Agenda in [11-24/2101](https://mentor.ieee.org/802.11/dcn/24/11-24-2101-01-coex-coex-sc-agenda-january-2025.xlsx)r1. ETSI BRAN Update, BT SIG Update.

* + 1. PAR Project Authorization Request Review SC (slide 9)

November meeting minutes in [11-24/1815r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1815-00-0PAR-minutes-november-2024-session.docx). No meeting in January.

* + 1. WNG Wireless Next Generations SC

November meeting minutes in [11-24/1932r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1932-00-0wng-wng-meeting-minutes-2024-november-vancouver-meeting.docx). No meeting in January.

* + 1. JTC SC1 (slides 10-12)

November Closing report in [ec-24/0293r0](https://mentor.ieee.org/802-ec/dcn/24/ec-24-0293-00-JTC1-closing-report-mixed-mode-november-2024.pptx). One meeting slot TUES PM2. Agenda in ec-24/0294r0. Review of status of PSDO process. Review liaisons & notifications of projects to SC 6. Review status of ballots.

A large number of IEEE 802 submissions ought to be in the PSDO balloting & publication process – but there are IPR issues with 802.11ba, 802.11ax and 802.11ay (slide 11). IEEE 802 has 137 standards in or through the PSDO pipeline (slide 12).

## Task Group reports

* + 1. TGmf 802.11 Maintenance Project (Slide 13)

November meeting minutes [11-24/2079r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2079-00-000m-minutes-for-revmf-2024-november-plenary-vancouver.docx). 2 meeting slots MON PM2 & WED PM2. Agenda in [11-24/2073r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2073-01-000m-revmf-agenda-january-2025.pptx).

Status: IEEE 802.11-2024 is in the process of publication. P802.11bh and P802.11be are also in the process of being published as amendments.

Objectives: Discuss contributions on modifications to the REVme D7.0 draft – for consideration in the initial REVmf draft. Discuss contributions on topics involving other amendments under publication.

* + 1. TGbf WLAN Sensing (slide 14-16)

November meeting minutes in [11-24/1976r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1976-00-00bf-ieee-802-11bf-november-2024-plenary-meeting-minutes.docx). 1 Telco between November and January. Telco meeting minutes in [11-24/2127r](https://mentor.ieee.org/802.11/dcn/24/11-24-2127-00-00bf-ieee-802-11bf-teleconference-minutes-december-2024.docx)0. 1 meeting slot WED AM2. Agenda in [11-24/2087r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2087-00-00bf-tgbf-meeting-agenda-2025-01-interim.pptx).

Held 1 teleconference call. The 2nd SA Ballot Recirculation for P802.11bf is closed, and passed. Open date 21 Nov 2024, close date 11 Dec 2024. Approval rate: 96%, Received 3 comments. Comment resolution for the 2nd SA Ballot Recirculation (D6.0): 100 % of all comments are now resolved or marked as “ready for motion” (3 /3).

Goals for January 2025: 1 slot scheduled for TGbf. Discuss and confirm the plan for teleconference and March Plenary, for the next round (3rd SA Ballot Recirculation).

* + 1. TGbi Enhanced Service with Data Privacy Protection (slide 16)

Minutes for November [11-24/1911r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1911-00-00bi-november-2024-plenary-sessions-minutes-for-tgbi.docx). Telco minutes from December [11-24/2052r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2052-00-00bi-tgbi-teleconference-minutes-december-2024-january-2025.docx). Six meeting slots: MON PM1, TUES AM1& PM2, WED AM1, THUR AM1 & PM1. Agenda in [11-24/2117r](https://mentor.ieee.org/802.11/dcn/24/11-24-2117-01-00bi-tgbi-january-interim-agenda.pptx)2.

Status: Received 527 comments from comment collection. Status is 37 assigned, 21 ready for motion, 469 approved.

Plan: Generate a D1.0 out of January.

* + 1. TGbk 320 MHz Positioning (Slide 17-18)

November meeting minutes in [11-24/2094r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2094-00-00bk-minutes-for-nov-2024-plenary.docx). No meeting in January.

* + Status: Initial SA ballot completed successfully Nov. 10. Group completed response to Initial SA Jan. 9th and approved a 15-days recirculation ballot. Initial SA ballot (completed) statistics: 78 comments (28 technical, 50 editorial).
	+ Telcos on Feb. 6, 13, 20, always 10:00 am PT/13:00 ET (2hrs).
		1. TGbn Ultra-High Reliability (UHR, slide 19-20)

November meeting minutes in [11-24/2019r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2019-00-00bn-tgbn-november-2024-meeting-minutes.docx). Held 8 teleconferences between November and January. Telco meeting agenda in [11-24/1988r15](https://mentor.ieee.org/802.11/dcn/24/11-24-1988-15-00bn-nov-jan-tgbn-teleconference-agenda.docx). PHY, MAC and Joint Teclo Meeting minutes in [11-24/2057r6](https://mentor.ieee.org/802.11/dcn/24/11-24-2057-06-00bn-802-11-bn-phy-ad-hoc-minutes-november-2024-january-2025.docx), [11-24/2085r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2085-02-00bn-minutes-for-tgbn-mac-ad-hoc-teleconferences-in-november-2024-to-january-2025.docx) and [11-24/2138r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2138-02-00bn-tgbn-december-2024-january-2025-teleconferences-minutes.docx), respectively. 19 meeting slots in January (3x Joint, 7x MAC, 7x PHY) MON AM2 (ALL), MON PM1 (PHY/MAC), TUES AM2 & PM1 & PM2 (PHY/MAC), WED AM1 (ALL), WED AM2 & PM2 (PHY/MAC), THUR AM1 & AM2 (PHY/MAC), THUR PM2 (ALL). Agenda in [11-24/2074r2](https://mentor.ieee.org/802.11/dcn/24/https%3A/mentor.ieee.org/802.11/dcn/24/11-24-2074-02-00bn-tgbn-jan-2025-meeting-agenda.pptx).

Status: Telcos covered ~30 technical submissions, ~30 proposed draft text contributions (PDTs) and ran ~30 straw polls covering a variety of topics: Trigger, enhanced long range, coordinated spatial reuse, prioritized EDCA, non-primary channel access, control frames, multi-AP framework, unequal modulation, preamble design, distributed RUs, Coordinated RTWT, roaming, power save, peer-to-peer, feedback, QoS, U-SIG, PPDU format, sounding, buffer status report, bandwidth expansion, Coordinated BF, interference mitigation, 2x LDPC, etc.. Approved ~25 motions, including the first PDT, warming up for delivering TGbn D0.1 out of January.

Targets for January: Presentation of PDTs, technical submissions and run SPs. ~170 pending submissions and ~30 pending SPs on presented submissions. ~30% of PDTs to be presented, and rest are pending SP or R4M. Continue populating the TGbn SFD with approved concepts. Generate TGbn D0.1 with text from approved PDTs.

* + 1. TGbp Ambient Power (slide 21-22)

November meeting minutes in [11-14/1965r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1965-00-00bp-2024-11-plenary-meeting-minutes.docx). 2 Telcos were held in December and January. Telco meeting minutes in [11-24/2038r8](https://mentor.ieee.org/802.11/dcn/24/11-24-2038-00-00bp-ieee-802-11-tgbp-ambient-power-communication-teleconference-minutes-december.docx) and [11-25/0054r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0054-00-00bp-teleconference-minutes-january-2025.docx). 8 meeting slots in November: MON AM2 & PM2, TUES AM1 & PM2, WED AM1 & AM2, THUR AM1 & PM1, Agenda in [11-24/1997r](https://mentor.ieee.org/802.11/dcn/24/11-24-1997-02-00bp-tg-bp-meeting-agenda-for-jan-interim-2025.pptx)2.

Goal for TGbp meetings in this week: Open technical discussion and improve FRD/SFD documents based on consensus. Timeline (Slide 22).

## Study Group, Technical Interest Group, Ad-hoc Group reports

* + 1. ELC SG Enhanced Light Communications (slide 24)

November meeting minutes in [11-23/1948r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1948-03-0elc-2024-11-12-minutes.docx). 2 meeting slots: MON PM2, THUR PM2, Agenda in [11-25/0141r](https://mentor.ieee.org/802.11/dcn/25/11-25-0141-00-0elc-january-2025-elc-agenda.pptx)0.

Goals for January: Hear two contributions. Consolidate final notes on the PAR and CSD.

* + 1. AUTO TIG Automotive

Minutes for September [11-24/1950r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1950-00-auto-automotive-tig-meeting-minutes-for-november-11-2024.docx). 1 meeting slot: MON PM2. Agenda in [11-24/2082](https://mentor.ieee.org/802.11/dcn/24/11-24-2082-00-auto-agenda-for-automotive-tig-2025-january.pptx)r0.

Goals: Discuss three contributions:

* “Field Considerations on WiFi for Vehicles,” Javier Contreras (Cisco Systems)
* “Mobile-Wi-Fi,” Lili Hervieu (CableLabs)
* “Follow-up of Automotive WLAN use case study,” Jing Ma (Toyota)

Call for submissions for March 2025. Try to get all information together. No questions.

1. Selected Liaison Report

None.

1. New Business

## Announcement of individual experts (11-24/2106r1):

* Emily Qi, Self, Editors (Tue AM0)
* Mr. Fujita, Director-General of the Kinki Telecommunications Bureau MIC, Mid-Week Plenary (Wed PM1)
* Steve Arendt, Cable Labs, AUTO TIG (Mon PM2)

## TGbq Chair appointment

WG will appoint Edward Au as Chair of TGbq. Confirmation on Friday.

## Presentations from WG15.

There will be a number of THz demonstrations in front of room 504. WNG of WG15 will have some presentations on that topic. WG11 people are welcome to join.

## Network issues

Please, don’t use hotspots on your devices. There are more than 600 devices in the network.

1. Recess

Chair: We are now in recess.

The meeting recessed at 10:12 Japan Time.

# IEEE 802.11 Mid-week Plenary, Wednesday, January 15th, 2025

1. Opening

##  Call to order

Meeting was called to order at 13:33 Japan Time by the Chair, Robert Stacey (Intel).

## WG Officer and IEEE SA staff introduction

Chair: Robert Stacey Intel

1st Vice-chair (VC1): Jon Rosdahl Qualcomm

2nd Vice-chair (VC2): Stephen McCann Huawei Technologies Co., Ltd

Secretary: Volker Jungnickel Fraunhofer Heinrich Hertz Institute

IEEE SA Staff present: Christy Bahn

There were 137 people attending in person (in the room) and 207 (online 13:42), 521 recorded in the attendance tool (IMAT).

##  Review and approve agenda, incl. agenda graphic (Meeting agenda [11-24/2105r](https://mentor.ieee.org/802.11/dcn/24/11-24-2105-03-0000-2025-january-wg11-agenda.xlsx)3)

Chair: There have been some schedule changes to the agenda since the opening plenary.

Release/Delete: No slot released. No changes.

Chair went through the agenda.

**Approve the agenda for today’s meeting as shown in** [**11-24/2105r3**](https://mentor.ieee.org/802.11/dcn/24/11-24-2105-03-0000-2025-january-wg11-agenda.xlsx)

Moved: Tuncer Baykas, Second: Rich Kennedy

**No objection to approving by unanimous consent.**

1. **Announcements** (WG Chair Supplementary [11-24-2107r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2107-00-0000-2025-january-working-group-chair-supplementary-material.pptx))

## Policies and Procedures (slides 4-8)

The Chair reminded the group about the Code of Ethics and Conduct and the IEEE-SA Standards Board Bylaws.

## Call for essential patents(slide 9)

The Chair read the Call for Essential Patents. No statements were made. No questions.

## Meeting decorum (slide 10)

The Chair introduced rules for proper decorum during the meeting. No press in the room. No questions.

##  Session-specific additional designated experts (slide 11)

* Emily Qi, Self, Editors (Tue AM0)
* Mr. Fujita, Director-General of the Kinki Telecommunications Bureau MIC, Mid-Week Plenary (Wed PM1)
* Steve Arendt, Cable Labs, AUTO TIG (Mon PM2)

## Announcements

There is a IEICE Conference in Kyoto which has a special session on IEEE 802 standardization (Slide 12). For more info, see <https://ken.ieice.org/ken/program/index.php?tgs_regid=58056984cfac617843301b8c7cd5c46dd6c281f7addbd8c4f4245a7de3ec65e9&tgid=IEICE-SRW&lang=eng> .

## Reciprocal credit (slide 13)

802.11, 802.18 and 802.19 provide reciprocal credit for attending the meeting slots. This is for voting members.

Discussion:

Q: Thanks for the clarifications. 802.15 is what may be required as well.

A: There are some limitations in the system. We have to think about it a bit more. Maybe limited to some meetings, e.g. coexistence. At least for joint session this is already activated.

Q: But this morning there was a session of common interest. Credit should be granted in such cases.

A: We can talk about this offline. Chair does not want full reciprocal credit. But if there are specific instances, we can do specific arrangements. There is a way of manually doing this, by contacting the Chair at the end of the session.

Back to opening report (2106r1 starting at Slide 12). This material was skipped during the Opening Plenary on Manday, because of time constraints.

## Introduction of the WG

Chair introduced and explained the mission of the different groups shortly. He also explained that 802.11bq could not meet in Kobe due to personal reasons of the TG Chair.

## PAR status (Slide 13)

## Appointed Positions (Slides 14-15)

Recently new positions in subgroups. Notice the new Vice Chairs, Editors and Secretary in TGmf, the new Chair of TGbq and the new Editor of AUTO TIG.

## History of 802.11 development (Slide 16)

Chair introduced the history and status of the 802.11 standard.

## Standards pipeline (Slide 17)

Chair explained the status of each subgroup. No drafts in WG letter ballots at this meeting.

## Summary of ballots and status (Slide 18)

Chair explains the status.

## Membership status (slide 19-20)

Membership seems to increase continuously. Are at record height again 633 voting members. Breakdown by affiliation. Attendance breakdown by subgroups between November and January during Teleconferences.

## Timeline reminder (<https://www.ieee802.org/11/Reports/802.11_Timelines.htm>)

The 2nd Vice Chair reminds the subgroup chairs to update the timelines after THUR CAC. There are updates for several groups. Once 11bq had its telco. Please check that there are no errors on website.

1. Liaison reports

## External liaisons

* + 1. Wi-Fi Alliance ([11-24/2098r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-00-0000-january-2025-session-report.pptx), Slides 48-54)

WFA celebrated its 25th anniversary. Celebration at meeting October 15-17, 2024 in Malaga, Spain. Here is the [Meeting report](https://www.wi-fi.org/file-member/october-2024-malaga-member-meeting).Next F2F (Asia) member meeting will take place on Feb 18th-20th, 2024, in Tokyo, Japan in one month from now. Hope yu can attend.

Activities that has led to certification: Wi-Fi 7, QoS Mgmt., Easy-Mesh, WPA3, Wi-Fi proximity ranging.

Activities that are expected to lead to certification: Wi-Fi 7 R2, 6 GHz standard power, Wi-Fi Direct, Wi-Fi proximity ranging, XR, QoS management (slide 51).

Additional technical work: Security, Customer Experience, EasyConnect, Wi-Fi HaLow, Wi-Fi Data Elements, Wi-Fi Aware. Spectrum regulatory. Highlight additional work on security, is not the biggest group. Some other groups, like Spectrum is important.

Additional WFA activity that may lead to technical work: Sensing, Automotive, Healthcare, IoT, Operators (slide 52).

Spectrum regulatory.

Recent publications (slide 53) and further information (slide 54).

* + 1. Wireless Broadband Alliance ([slides](https://mentor.ieee.org/802.11/dcn/24/11-24-1855-00-0000-wba-liaison-report-november-2024.pptx) 55-65)

Drives enabling seamless & interoperable Wi-Fi services, addresses business and technical issues. <https://wballiance.com/resource/annual-industry-report-2024/> is now available. The Technical Activities Roadmap for 2024 (slide 58) gives an overview on different areas. Went through all points and highlighted some of them: 6G and Wi-Fi requirements. Wi-Fi 7 Trials will be finished soon.

Wireless Global Congress & Members Meeting (Slide 59): <https://www.wirelessglobalcongress.com/apac2025>. Have a look at the conference program.

WBA Innovation Forum (Slide 60): Focused on key themes sharing perspectives that will shape the future of connectivity for next decade and beyond, <https://wballiance.com/innovation-forum/> .

WBA 6G/WiFi Vision statement (Slide 61) launched January 14. More collaboration to deliver on promises. Details five key points for 6G to achieve ubiquitous connectivity that comprises Wi-Fi and cellular.

Further information ([11-24/2098r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-00-0000-january-2025-session-report.pptx), Slide 62).

* + 1. IETF Internet Engineering Task Force ([11-24/2098r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-00-0000-january-2025-session-report.pptx), Slide 66-83)

Upcoming meetings March 15-21, 2025 Bangkok, TH, July 19-25, 2025 Madrid.

IETF meeting fee waivers seem available. Makes it free to attend.

Newcomer training: https://www.ietf.org/about/participate/get-started/ Joint meetings, agenda and presentation: http://www.iab.org/activities/joint-activities/iab-ieee-coordination/ , Proceedings: https://datatracker.ietf.org/iabasg/ietfieee/meetings/

Joint meetings, agenda and presentations: <http://www.iab.org/activities/joint-activities/iab-ieee-coordination/> Proceedings: <https://datatracker.ietf.org/iabasg/ietfieee/meetings/> Coordination topics include: Capability Discovery, Data Center Bridging, Local Address in virtualization and IoT, MAC address randomization, DETNET/TSN/RAW, YANG models, pervasive monitoring. IETF-IEEE 802 coordination teleconferences: October 23, 2024.

[RFC 9672](https://www.rfc-editor.org/info/rfc9672) (RFC 8110 to IEEE) has been published.

Birds-of-a-feather (BOF) groups at IETF 121, 2-8 Nov. 2024 (slide 71). IETF groups being (re-) chartered that may have an impact on IEEE 802.11 (slide 72). Yet Another Next Generation (YANG) model catalog (slide 73). IoT-related work: 6LO and Updates (slide 74). Other IoT groups: ROLL, CORE, IoT Directorate (slide 75).

Updates on working groups: MADINAS (MAC Address Device Identification for Network and Application Services WG, slide 76): New Use cases and requirements document. EAP (Extensible Authentication Protocol) Method Update (EMU, slide 77): Several updates. Operations Area Working Group (OPSA, slide 78): Several Updates. Internet Area Working Group (Slide 79): No updates. Transport Layer Security (TLS) (slide 80): Several Updates. Deterministic Networking (DETNET, (slide 81): New architecture for reliable and available wireless. There were two updates. Automated Networking Integrated Model and Approach (ANIMA, slide 82): Several Updates.

## Internal (802) liaisons

* + 1. IEEE 802.18 Regulatory WG ([11-24/2098r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-00-0000-january-2025-session-report.pptx), Slide 33-37)

Changes in officers, new secretary. Reviewed the [latest ongoing consultations](https://mentor.ieee.org/802.18/documents?is_dcn=0001&is_group=0000&is_year=2024). Approved the following IEEE 802 LMSC submissions (slide 35): Approved the following IEEE 802 LMSC submissions: Japan MIC: [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](https://mentor.ieee.org/802.18/dcn/24/18-24-0118-04-0000-draft-response-to-japan-mic-s-consultation-re-special-exemption-system.pdf). Saudi Arabia CST: [Light Licensing Regulations Annex for the 6 GHz Frequency Band](https://mentor.ieee.org/802.18/dcn/24/18-24-0112-04-0000-proposed-response-to-saudi-arabia-s-cst-consultation-re-6-ghz-afc.pdf). Vietnam MIC: [Draft Circular amending and supplementing a number of articles of Circular No. 08/2021/TT-BTTTT dated October 14, 2021 of the Minister of Information and Communications stipulating the List of radio equipment exempted from radio frequency use licenses, technical conditions and accompanying exploitation](https://mentor.ieee.org/802.18/dcn/24/18-24-0120-05-0000-draft-response-to-vietnam-mic-s-consultation-re-lower-6-ghz-band.pdf). Discussed the latest topics related to spectrum and regulation in Europe, North America, and Asia Pacific.

Objectives this week: Reviewed and approved approval proposed response to the following consultations (slide 4): France ARCEP: [Draft decision repealing decision no. 2007-0683 of 24 July 2007 as amended and setting the conditions for use of radio frequencies for equipment operating using ultra-wideband technology](https://www.arcep.fr/uploads/tx_gspublication/consultation-projdec-frequences-UWB_dec2024.pdf). UK Ofcom: [Ofcom’s Plan of Work 2025/26](https://www.ofcom.org.uk/about-ofcom/annual-reports-and-plans/consultation-ofcoms-plan-of-work-202526/). Review draft responses to the following external liaisons:[ITU-R Working Party 5C liaison re 450 GHz to 1000 GHz](https://mentor.ieee.org/802.18/documents?is_dcn=4&is_group=0000&is_year=2025). [ITU-R Working Party 5A and 5C re IEEE Std 802.15.3-2023](https://mentor.ieee.org/802.18/documents?is_dcn=5&is_group=0000&is_year=2025). Discuss the latest topics related to spectrum and regulation in Europe, North America, and Asia Pacific, including [ETSI BRAN update](https://mentor.ieee.org/802.11/documents?is_dcn=73&is_year=2025) and [ETSI ISG THZ liaison](https://mentor.ieee.org/802.18/documents?is_dcn=3&is_group=0000&is_year=2025). Invited presentation from Australia ACMA:ACMA Spectrum planning for Wi-Fi. Andrew Stewart (Senior Manager, Spectrum Planning Section, Australian Communications and Media Authority). Document: [18-25/0001](https://mentor.ieee.org/802.18/dcn/24/18-24-0001-34-0000-status-of-ongoing-consultations-and-tag-documents-for-approval.docx)r1.

802.18 has a weekly telco: 3:00 pm ET to 3:55 pm ET Thursday through 20 March 2025.

* + 1. IEEE 802.19 Coexistence WG ([11-24/2098r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-00-0000-january-2025-session-report.pptx), Slide 38-42)

Group reviews coexistence assessment documents (CADs) produced by working groups developing new wireless standards for unlicensed devices. Meeting times: MON PM3, THUR PM3 (6:30 PM). No ballots before November.

802.19.3a Task Group focusing on coexistence between 802.11-2020 and 802.15.4 sub-1 GHz: One Contribution. IEEE 802.11ah and IEEE 802.15.4g SUN OFDM PHY Coexistence Simulation, Takenori Sumi (THUR PM3).

IEICE Conference in Kyoto: On Fri, Jan 17 AM, there is a Special Session on IEEE 802 Standardization (Maskawa Hall, Kyoto University) 11:00-17:30. Agenda (Slide 5) more info: <https://ken.ieice.org/ken/program/index.php?tgs_regid=58056984cfac617843301b8c7cd5c46dd6c281f7addbd8c4f4245a7de3ec65e9&tgid=IEICE-SRW&lang=eng>

* + 1. 802 REVc ([11-24/2098r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-00-0000-january-2025-session-report.pptx), Slides 43-47)

802RECc Status Overview: WG ballot phase has completed. SA ballot phase has completed. RevCom recommended and SASB approved publication December 2024. Final draft of IEEE Std 802-REVc is available IEEE Std 802-REVc-d2.2. IEEE Std 802-REVc will be published as IEEE Std 802-2024 in Q1 of 2025.

Next steps: Awaiting IEEE publication of IEEE Std 802-2024. How does this impact 802.11?

802.11 next steps: Align 802.11 to be consistent with the updated IEEE Std 802. It is anticipated that work will be done in 802.11 ARC SC and implemented in 802.11 TGmf. 802.11 ARC SC has identified the following potential topics to be addressed: EPD and LPD terms are going away – we need to update 802.11 to align. Review MAC address ordering discussion, and 802.11 assumptions ([1-24/0034r0](https://mentor.ieee.org/802.1/dcn/24/1-24-0034-00-Mntg-proposal-to-revise-bit-ordering-material-in-p802revc-d2-0.docx)). Review 802.1AC mapping from ISS to 802.11 MAC SAP interface. Consider any changes to remove 802.2/LLC terms? 802.11’s “Portal”, and mapping to/usage of IEEE Std 802 terminology. Access Domains: “802 Access Domains”? What if we make the DS a bridge (small ‘b’)? Adding something about VLANs (just informational?) into 802.11?

1. New Business

## Announcements

Today’s social event: All people have to use a bus to get to the boat. Don’t go there on your own. We need exact numbers for security reasons. Going back alone is fine. Three volunteers were introduced which will guide to the bus and at the diner.

## Note from Mr. Fujita, Director General of the Kiniki Telecommunications Bureau MIC

Welcome to Kobe! Congratulations on organizing the session. Kobe is known as a beautiful port city. There has been an earthquake 30 years ago. Many people died and many houses were destroyed. Now it is reconstructed again. EXPO 2025 will open in this area and trigger further development. 161 countries are expected to participate. After EXPO: Future 5G Showcase. Welcome you to visit EXPO 2025. Highlight the role of RF for Society. NTN, WLAN 802.11, there are lots of activities about this in Japan. AFC is also used in Japan. Thank you for coming to Kobe and discuss very important topics, standardizing these technologies is very important contribution. Thank you so much!

Applause.

## AoB

The ELC Study Group will run a Motion at the Friday Closing Plenary to transition into a Task Group. The PAR and CSD are stable and available on Mentor for your review. If there are any questions, please, approach the Chair or members of the ELC SG during the meeting. You are also invited to attend the ELC SG meeting slot on THUR PM2 in room 403 to discuss any issues.

1. Recess

Chair: We are now in recess.

Meeting recessed at 14:20 Japanese time.

# IEEE 802.11 Closing Plenary, Friday, January 17th, 2025

1. Opening

## Call to order

Meeting was called to order at 8:07 Japan time by the Chair, Robert Stacey (Intel). There were online issues.

## Officer and IEEE SA staff introduction

Chair: Robert Stacey Intel

1st Vice-chair (VC1): Jon Rosdahl Qualcomm

2nd Vice-chair (VC2): Stephen McCann Huawei Technologies Co., Ltd

Secretary: Volker Jungnickel Fraunhofer Heinrich Hertz Institute

IEEE SA Staff present: Christy Bahn

There were 98 people in the meeting (in the room, 8:26) 236 online (9:04) and 388 recorded in the attendance tool (IMAT).

## Review and approve agenda (WG 11 agenda [11-24/2105r6](https://mentor.ieee.org/802.11/dcn/24/11-24-2105-06-0000-2025-january-wg11-agenda.xlsx))

Chair: There have been some minor changes to the agenda since the mid-week plenary.

**Approve the agenda for today’s meeting as shown in** [**11-24-2105r6**](https://mentor.ieee.org/802.11/dcn/24/11-24-2105-06-0000-2025-january-wg11-agenda.xlsx)**.**

Moved: Jim Lansford. Seconded: Lei Wang.

**No objection to approving by unanimous consent.**

1. **Announcements** (WG Chair’s Supplementary Material [11-24/2107r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2107-01-0000-2025-january-working-group-chair-supplementary-material.pptx))

##  Policies and procedure reminder (slides 15-17)

The Chair went through participant behavior, code of ethics & conduct and IEEE Standards Boards bylaws and IEEE SA “Individual process”. Please, can you all remember these slides and understand that everyone is here as an individual subject matter expert.

##  Call for Essential Patents (slide 18)

This is the Call for Essential Patents. No statements. No questions.

##  Meeting Decorum (slide 19)

These are some rules for the meeting decorum. No questions.

##  Next session and CAC meetings (slide 20)

The next session of the IEEE 802.11 working group is from March 9-14 Hilton Atlanta, Atlanta GA, USA. [Registration](https://web.cvent.com/event/4fa8fa22-fa35-4058-a648-d08fdd56a1c1/summary) is open. It will be a mixed mode session. Please be aware of the chair’s committee meetings (CAC), the first one of which will be on Monday 2025-02-03, then on Monday 2025-03-03, both at 09:00 ET. There is another one on Sunday 2025-03-09 at 18:00 Atlanta, GA, immediately before the January meeting. Subgroup chairs, please note the deadline for the sub-group agendas.

## Any other announcements (slide 21)

Chair: Individual experts this time:

* Emily Qi, Self, Editors (Tue AM0).
* Mr. Fujita, Director-General of the Kinki Telecommunications Bureau MIC, Mid-Week Plenary (Wed PM1),
* Steve Arendt, Cable Labs, AUTO TIG (Mon PM2)

## Reminder to get minutes to WG secretary

Secretary: Please can all sub-group chairs remember that their minutes should be posted to the server within 30 days of the completion of this session. No questions.

## Letters of Assurance (LoA) received (slide 22)

There is a link to the PatCom list of LoAs. 2 LoAs have been requested. The recent status can be found in [11-15/1489r23](https://mentor.ieee.org/802.11/dcn/15/11-15-1489-23-0000-register-of-loa-requests.docx). Recent changes are indicated on slide 22. No questions.

## Drafts for sale in IEEE Shop (slide 23)

This is the current list of items available in the IEEE store, what drafts are in the members area and published by 802 and ISO (checked on 2025-01-17).

## Drafts to liaise with ISO/JTC/SC6 (slide 23)

Published 2022 July: IEEE Std 802.11-2020 as ISO/IEC/IEEE 8802-11:2022

Since 2021, 14 drafts have been submitted, but all are currently stalled due to IPR concerns.

Drafts are sent to JTC1/SC6 during SA ballot to solicit comments. Approved drafts may also be sent during working group ballot. Any comments received from ISO are processed by the comment resolution committee. All drafts are liaised subject to EC approval.

## Press release status (slide 25)

In April 2024, there has been an IEEE Livestream on 802.11ah.

## IEEE 802 Public Visibility Standing Committee (slide 26)

Scope: The group is designed to raise industry awareness in timely fashion of IEEE 802 WG/TAG activities. Develop social media content. LinkedIn – <https://www.linkedin.com/company/ieee802>. IEEE-SA 802 - <https://standards.ieee.org/featured/802/index.html>.

Content: Review Pre 802 Plenary meetings for social media messaging: PARs to be considered, Tutorials, [802.3] Call-for-Interests, New Task Force formations. Review Post 802 Plenary meetings for social media messaging: Study Group formations, IEEE 802 Position Approvals. Other 802 related material for social media messaging: Press Releases, White Paper publications, Other 802 approved news, 802 WG / TAG Activities with IEEE-SA. IEEE-SA Standards Board Related - PAR Approvals, Standards Approval, Standards Publication.

LinkedIn Report: 4,943 total followers. Last 365 days: 67594 Impressions, 1438 Reactions. Latest Posts: January meeting. WFCS Workshop. 802.15 Recap.

On 10-13 June 2025, there is a Special Session on “Unlicensed Spectrum Technologies: The next Frontier for Reliable Industrial Wireless” at 21 International Conference on Factory Communication Systems (WFCS) 10-13 June 2025, Rostock, Germany. Extended Paper Deadline is 14 February 2025. CfP: <https://wfcs25.uni-rostock.de/storages/uni-rostock/Tagungen/WFCS2025/download/WFCS_2025_CFP_SS4_WiFi-LiFi.pdf>

On Friday Jan 17, 2025, there is an IEICE Conference in Kyoto. The program is on Slide 4. <https://ken.ieice.org/ken/program/index.php?tgs_regid=58056984cfac617843301b8c7cd5c46dd6c281f7addbd8c4f4245a7de3ec65e9&tgid=IEICE-SRW&lang=eng>

1. Closing reports

## Working group reports

* + 1. Treasurers report ([ec-25/0001r0](https://mentor.ieee.org/802-ec/dcn/25/ec-25-0001-00-WCSG-wireless-treasurer-report-2025.pptx))

As of Dec. 31, 944k$ are in reserves. Overview for the year 2024 so far. Net 16.706$ deposit, i.e., next to zero (slide 4). Registration report (Slide 6): 666 people registered, 419 of which in person, 416 were actually onsite. Asia-Pacific 54%, Americas 34%, Europe 12% (Slide 7).

This meeting we want to thank our Sponsor Hiroshi Mano (Applause). It is not easy to organize an event like this.

Preview to May: We need budgeted 600 to register (Slide 9). There are deadbeats, though (slide 10-11, 14-15). Net session value (slide 12) No significant income during pandemic. Leveled back to normal afterwards. Meeting fees for future meetings will not change during the 2025 meetings (slide 12). There is a 3-night stay discount of $300 for May and September. Historic attendance, numbers are growing, might become tight at some of our future venues.

No questions.

* + 1. Straw Polls regarding meetings ([11-24/2099r](https://mentor.ieee.org/802.11/dcn/24/11-24-2099-01-0000-january-2025-working-group-motions.pptx)1, slide 4)

Only people present in the room were asked to participate in the following straw polls. These will be compiled into a statistics for all events, hopefully in 2025.

1. How many people would like to come back to this venue? 81Y / 0N
2. Did you go to the social? 74Y / 10N
3. If you attended the social, did you like the social? 73Y / 0N
	* 1. Future Venues Insight ([ec-25-0002r0](https://mentor.ieee.org/802-ec/dcn/25/ec-25-0002-00-WCSG-wireless-venue-manager-report-2025.pptx))

Contracts on Slide 3.

Slide 4-6 show the status of the future plenary and interim venues. More details from MTG Events (slide 7). Meeting venue manager explained the rules how he operates. The rules are from the operations manual (Slide 10). Suggestions are taken seriously. Formal request for proposals September 2026, keep the calendar 3 years in advance. Many properties will not book 3 years in advance. Do everything to improve relationships. Found replacements very quickly, such as Prague/Warsaw. Wireless Chairs meeting is where the decisions are made.

Discussion:

Q: You mentioned RfP for 3 years will be when?

A: September 2026.

* + 1. Timelines (<https://www.ieee802.org/11/Reports/802.11_Timelines.htm>)

2nd Vice Chair: There are not many changes.

* + 1. Attendance report ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), Slide 4-7)

Clear uptrend in membership. There is a breakdown by affiliation, by subgroup and breakout. Session report. Attendance by Subgroup between November and January.

* + 1. Editors report ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), Slides 7-16)

Held one meeting slot.

Agenda (Slide 9) Editor contacts (Slide 10). Roundtable status report (Slide 11). Amendment order and page count as discussed in January Published REVme and then 11bh and 11be. (Slide 12). Dates are editors view, may not be consistent with timeline. Draft development snapshot (Slide 13). Publication process and review committee members (Slides 14-15). ANA managed number space (Slide 16).

Chair: Please, request a number from ANA authority (Carol Ansley).

## Standing committee reports

* + 1. AIML Artificial Intelligence Machine Learning SC ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 17-18)

One meeting slot. Agenda: [11-24/2078r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2078-00-aiml-aiml-sc-jan-2025-kobe-meeting-agenda.pptx), SP + Motions: [11-24/0765r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0765-03-aiml-aiml-sc-motion-booklet.pptx). Minutes: TBD

Achievements: Two technical presentations, lots of discussions on technical issues. Approved the AIML SC 1st Technical Report Draft Outline.

Plans for March 2025: No Telco planned. Technical Presentations on results, exploration and feasibility for existing use cases, Additional AIML use cases, Technical report drafts

* + 1. ARC Architecture SC ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 19-22)

Held two meeting slots. Agenda: [11-24/2095r7](https://mentor.ieee.org/802.11/dcn/24/11-24-2095-07-0arc-arc-sc-agenda-january-2025.pptx). Minutes: [11-25/0224r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0224-00-aiml-aiml-sc-january-2025-interim-meeting-minutes.doc).

Continued discussion on the proposal for Annex G replacement in [11-23/0880r5](https://mentor.ieee.org/802.11/dcn/23/11-23-0880-05-0arc-revised-annex-g-containing-example-frame-exchange-sequences.docx). Material is to be replaced. This is uncovering misalignment among experts on concepts: “Frame exchange sequence” (and its relationship to/meaning for other behaviors like power save/sleep, off-channel scanning, etc.). Relation of frame exchange sequence to medium protection (NAV, etc.). The extent definition and extent of an occurrence of Wireless Medium. Relation of wireless medium to beamforming, sectorization, MU operation, etc.. Especially tricky as MLO, and now TGbn concepts, are added/considered. Will continue discussion in March, and allocate 2 meeting slots to try to sort out these terms and concepts.

Std 802 update, impacts on 802.11: Reviewed [11-25/0150r3](https://mentor.ieee.org/802.11/dcn/25/11-25-0150-03-0arc-initial-thoughts-on-arc-misc-802-topics.docx) discussion document. EPD and LPD terms are going away – we need to update 802.11 to align. MAC address ordering discussion, and 802.11 assumptions. <https://mentor.ieee.org/802.1/dcn/24/1-24-0034-00-Mntg-proposal-to-revise-bit-ordering-material-in-p802revc-d2-0.docx> 802.1AC mapping from ISS to 802.11 MAC SAP interface. Consider any changes to remove 802.2/LLC terms?

Furter topics to be considered (see Slide 20).

Other topics: IEEE Std 802 revision: Received a report on the P802REV activities. Approvals are completed. Going through publication editing. WBA L4S: No discussion at this session. Per request from proponents, ARC is deferring for discussion in TGbn and perhaps REVmf. ARC will step in with any support needed by those groups. Still pending: MLME-RESET, versus MLME-JOIN, MLME-START, MLME-SCAN and MLME-END.

Next session/teleconference topics: Continue EPD/LPD clean-up, other Std 802 alignment. Continue Annex G replacement. MLME clean-up. No Teleconferences.

Three meeting slots requested in March.

* + 1. COEX Coexistence SC ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 23-32)

One meeting slot. Agenda in [11-24/2103r](https://mentor.ieee.org/802.11/dcn/24/11-24-2103-01-coex-chair-meeting-slides-january-2025.pptx)1. Minutes in [11-25/0072r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0072-00-coex-january-2025-minutes.docx).

ETSI BRAN update (slides 24-26)

* EN 303 687 (Wireless Access System/Radio Local Area Network (WAS/RLAN) in the license-exempt 6 GHz band). Version 1.1.1 has been published; Updates to OJEU expected during first quarter in 2025. Work on next version continued. TC BRAN achieved consensus on Narrowband Frequency Hopping (NB FH) medium access rules (see draft version 1.1.6). General concept approved; details (e. g., various durations) remain to be defined at future meetings.
* EN 301 893 (Wireless Access System/Radio Local Area Network (WAS/RLAN) in the license-exempt 5 GHz band): Final national voting concluded (No objections. No comments.) ETSI published version 2.2.1. Offered to European Commission for citation in the Official Journal of the European Union (OJEU). Currently, average duration of Harmonised Standards (HSs) exceeds one year.
* European Commission decision 2021/1067 (and amendments). Updates related to Out-Of-Band Emissions (OOBE) below 5935 MHz for Very Low Power (VLP) devices. Decision to raise OOBE from −45 dBm/MHz to −37 dBm/MHz delayed until end of this year.

Bluetooth SIG update (slide 27):

* Work on technical proposal for ETSI BRAN: Draft text for EN 303 687 (Clause 4). ACCEPTED in December (BRAN #127). A few TBD parameters still need to be finalized in February 2025 (BRAN #128). FCC strategy in process. Change in Leadership. New directions are currently on hold. FCC shifting back to Republican control; timing of NPRM activities uncertain; Net Neutrality the focus again

Technical discussions (slides 28-29):

* Review of BRAN (24)124017r3 (NBE with LBT normative text). New alternative type of channel access mechanism: “Narrowband Equipment (NBE) with listen before talk (LBT)”. NBE-LBT shall perform an NB CCA before transmitting on an NB channel. Two priority classes: determine how often CCA is repeated in case of busy channels. EDT = function of TX power. Having upper and lower limits. Reminder: Local copy of ETSI BRAN documents available in the 802.11 members’ area.
* Review of 15-24/0407r7 (“Proposed Resolution for Comments #988” on LBT for 802.15.4ab). Building on BRAN (24)124017r3. Proposing that LBT-based solution should be the de facto channel access mechanism in 802.15.4ab. Ongoing discussion; no consensus reached so far; expecting deferral of technical comment resolution (withdraw comment or rejection based on non-consensus of the comment resolution committee).

Plans for March (slide 30):

* No telcos scheduled. Two dot11 Coex (only) slots. TUES AM2, THUR AM1. Joint session with 802.15.4ab TUES EVE. Topics: Update on ETSI BRAN, Bluetooth SIG. Technical submissions (tba).

No Telco.

Discussion:

Q: Always see the LBT solution. It is somehow enforced in 802.15.4ab.

A: Not aware of that. Discussion refers to regulatory requirements.

Q: A lot of joint sessions discussed coexistence mechanism. Who is the audience for that.

A: Good question. Everyone who is interested in good coexistence. Attendance is welcome.

Q: Slide 22: Is the document in the members area.

A: It should be because of automatic synchronization. Was noted, working on it.

* + 1. PAR Review SC

Did not meet this time.

* + 1. WNG Wireless Next Generation

Did not meet this time.

* + 1. JTC1 802 SC ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 33-37)

One meeting slot. Agenda in [ec-24/0294r0](https://mentor.ieee.org/802-ec/dcn/24/ec-24-0229-05-JTC1-agenda-for-november-2024-mixed-mode.pptx), Minutes in [ec-25/0016r0](https://mentor.ieee.org/802-ec/dcn/25/ec-25-0016-00-JTC1-minutes-of-mixed-mode-meeting-in-january-2025.docx).

IPR issue (slide 34): 802.11 has 14 drafts stalled in the PSDO process. IPR holding up PSDO process. Going forward, 802.11 will not be shown as in-process; some 802.15 and 802.19 standards have also not been advanced in the PSDO process. May want to try submitting these specs to see if they fare better. Next steps: Generate a letter to IEEE SA President expressing the impacts of ISO/IEC IPR impasse. Observe how IEEE 802.3 fares in the parallel ITU-T SG15 process (still in ballot).

Plans for March (slide 35): Usual process is continued. Execute PSDO process, to the extent possible. There are current ballots open for IEEE 802f (FDIS: 12 February), IEEE 802.1Qcw (FDIS: 12 February), IEEE.1Qcj (FDIS: 3 March), IEEE 802.1ASdr (FDIS: 10 March). Monitor ISO/IEC JTC 1/SC 6 activities. Review response from IEEE SA President, if any.

## Task Group reports

* + 1. TGmf 802.11 - Revision Project ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-1658-01-0000-november-2024-session-report.pptx), slides 36-38)

Two meeting slots. Agenda in [11-24/2073r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2073-04-000m-revmf-agenda-january-2025.pptx). Motion deck in [11-24/1925r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1925-03-000m-revmf-motions.pptx). Minutes in 11-24/2109r0.

Considered contributions on modifications REVme D7.0. Accepted two documents with proposed changes. Discussed a contribution on extend multi-link operation to support 802.11 mesh networking.

Plans for March: No Telcos. Two meeting slots for January. Objectives: Discussions on changes for REVmf (in advance of IEEE 802.11-2024 publication). Monitor publication status of REVme, 802.11bh, and 802.11be. Timeline (Slide 38) is unchanged.

* + 1. TGbf - WLAN Sensing (SENS) ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 39-40)

Held one meeting slot. Agenda in [11-24/2087r](https://mentor.ieee.org/802.11/dcn/24/11-24-2087-02-00bf-tgbf-meeting-agenda-2025-01-interim.pptx)2. Minutes in [11-24/0173r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0173-00-00bf-ieee-802-11bf-january-2025-interim-meeting-minutes.docx).

Progress during January: Discuss and confirm the plan for teleconference and March Plenary, for the next round (3rd SA Ballot Recirculation).

Goals for the next two months: Release IEEE802.11bf D6.0. Complete the 3rd SA Ballot Recirculation (D7.0). Start comment resolution for D7.0.

Requested 2 Telefon conference calls.

Q: No changes to the timeline.

A: No.

* + 1. TGbi - Enhanced Data Privacy (EDP) ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 41-42)

Held 6 meeting slots. Agenda in [11-24/2117r9](https://mentor.ieee.org/802.11/dcn/24/11-24-2117-09-00bi-tgbi-january-interim-agenda.pptx). Minutes in 11-25/0157r0.

Achievements in January: Completed review of comment resolution submissions as well as text contributions. Approved directing technical editor to generate a Draft 1.0 to go out in a Working Group ballot.

Plan for January: Please participate in our ballot (30 day) and provide comments to help us improve our draft.

No teleconferences between now and March. Timeline (slide 42) is unchanged.

Discussion:

Q: Any estimate when the WGLB will start.

A: 10 days to 2 weeks, depending on Editor’s progress. There are many comments.

* + 1. TGbk - 320 MHz Positioning

Did not meet this time.

* + 1. TGbn - Ultra High Reliability (UHR) ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 43-45)

11 meeting slots for PHY, MAC and joint group altogether. Agenda in [11-24/2074r18](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-18-00bn-tgbn-jan-2025-meeting-agenda.pptx). Motions List Part 2 in [11-25/0014r7](https://mentor.ieee.org/802.11/dcn/25/11-25-0014-07-00bn-tgbn-motions-list-part-2.pptx). TGbn PHY and MAC ad-hoc Minutes in [11-25/0158r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx) and [11-25/0145r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx), TGbn all minutes in 11-25/0239r0. Specification framework including Motions passed in January in [11-24/0209r8](https://mentor.ieee.org/802.11/dcn/24/11-24-0209-08-00bn-specification-framework-for-tgbn.docx).

Very good progress this week. TGbn had scheduled 11 sessions during the January interim. Discussed technical submissions covering a variety of topics and proposed draft texts (PDTs). Approved over 100 motions that added additional concepts to the TGbn SFD, and spec text to the TGbn D0.1. Instructed the TGbn Editor to create TGbn D0.1.

Goals for March: Discuss technical submissions. Resolve comments received from the Comment Collection (CC) to start after TGbn D0.1 is published. The duration of the internal CC expected to be ~3 weeks. Comment assignment to be performed during telcos. Continue populating the TGbn SFD & preparing PDTs. Instruct the TGbn Editor to create TGbn D0.2 out of March.

Teleconferences (slide 38): Feb 6, 13, 20, **27**\* (Thursday) 10:00-12:00 ET, Feb. 10, 24 (Monday) 19:00-21:00 ET, **bold**: joint, otherwise: MAC/PHY, \*: Motions

Timeline is unchanged (Slide 45). Met previous milestone. Next is D1.0 for May 2025.

Note of 2nd VC: I will update teleconference calendar next week.

Note from WG Secretary: TGbn Comment Collection opens Friday February 7, 2025 and will close on Friday February 28, 2025 at 23:59 Eastern Time USA (11:59pm). All necessary documents are available on the IEEE 802.11 website at <https://www.ieee802.org/11/LetterBallots/CC50bn/CC50_instructions.html>.

* + 1. TGbp - Ambient Power Communications (AMP) ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 46-49)

8 meeting slots in January. Agenda in [11-24/1997r6](https://mentor.ieee.org/802.11/dcn/24/11-24-1997-06-00bp-tg-bp-meeting-agenda-for-jan-interim-2025.pptx). Motion deck in [11-24/1322r6](https://mentor.ieee.org/802.11/dcn/24/11-24-1322-06-00bp-tgbp-motion-dock.pptx). Minutes in [11-25/0146r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0146-00-00bp-2025-01-interim-meeting-minutes.docx). Functional requirements in [11-24/1307r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1307-03-00bp-proposed-tgbp-functional-requirements.doc). Specification framework in [11-24/1613r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1613-03-00bp-specification-framework-for-tgbp.docx).

Progress during January (slide 47): TGbp approved the updated FRD and SFD documents incorporating approved motions in November 2024. More than 40 tech contributions were presented and discussed, on functional requirements, PHY/MAC solutions, Wireless Power Transmission and Security. Lots of Technical Motions for SFD were approved. Consensus on terms, topology, operation types, transmission mode, some AMP PPDU structure in 2.4 GHz, up-link data rate in 2.4 GHz, AMP-sync in AMP DL PPDU, conception of energizer, energy harvesting and power information report, etc.. The 11bp timeline was revisited w/o changes.

Goal of future work: Continue developing FRD and SFD based on consensus. Open technical discussion. Prepare for PDT development. No change of the timeline (Slide 48).

3 Telcos: Feb. 11, 25, March 4 (Tuesday), 9:00am, ET, 2 hours.

## PAR SG/TIG/AHG reports

* + 1. ELC SG – Enhanced Light Communication ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slides 50-51)

Two meeting slots in January. Agenda in [11-25/0141r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0141-02-0elc-january-2025-elc-agenda.pptxhttps%3A/mentor.ieee.org/802.11/dcn/24/11-24-1675-02-0elc-november-2024-elc-agenda.pptx). Minutes in [11-25/0160r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0160-02-0elc-elc-2025-01-minutes.docx).

Achievements in January: ELC approved the proposed draft Project Authorization Request as well as the Criteria for Standards Development (CSD) documents. Three additional contributions discussed: ELC scope and features summary (doc. [11-25/0143r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0143-00-0elc-elc-scope-and-features-summary.pptx)). Underwater LiFi Prototype Performance (doc. [11-25/0175r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0175-01-0elc-underwater-lifi-prototype-performance.pptx)). Ad-hoc mode for ELC (doc. [11-25/0180r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0180-01-0elc-ad-hoc-mode-for-elc.pptx)).

Timeline is unchanged (Slide 51).

Plan until March: Hopefully get Motions to for task group approved. No telco.

2+ meeting slots in March to resolve PAR review comments from other WGs.

* + 1. IMMW SG – Integrated Millimeter Wave

Did not meet this time.

* + 1. AUTO TIG Automotive ([11-24-2098r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2098-02-0000-january-2025-session-report.pptx), slide 52)

One meeting slot in January. Agenda in [11-24/2082r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2082-00-auto-agenda-for-automotive-tig-2025-january.pptx). Minutes in [11-25/0159r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0159-00-auto-january-2025-kobe-auto-tig-meeting-minutes.docxhttps%3A/mentor.ieee.org/802.11/dcn/24/11-24-1950-00-auto-automotive-tig-meeting-minutes-for-november-11-2024.docx).

Achievements: Discussed a lot about roaming and how to make it faster. Make association to respond quickly.

Submissions

* “Field Considerations on WiFi for Vehicles,” Javier Contreras (Cisco) [11-25/0077r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0070-00-auto-field-considerations-on-wifi-for-vehicles-8203.pptx)
* “Mobile-Wi-Fi,” Lili Hervieu, Steve Arendt (CableLabs) [11-25/0017r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0017-00-auto-mobile-wi-fi.pptx)
* “Follow-up of Automotive WLAN use case study,” Jing Ma (Toyota). [11-25/0069r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0069-01-auto-follow-up-of-automotive-wlan-use-case-study.pptx)

Plans for March: Presentations on use cases and requirements and KPIs.

No motions or teleconferences, 3 straw polls.

## Liaisons reports

* + 1. 802.15 Liaison report (update in [11-25/0187r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0187-00-0000-802-15-liaison-report-jan-2025.pptx))

802.15 WG agenda in doc. [15-24/0669r6](https://mentor.ieee.org/802.15/dcn/24/15-24-0669-06-0000-jan-2025-802-15-agenda.xlsx)

Overview of 802.15. WG (Slide 4).

802.15 WNG: Various presentations and demos on THz and Wi-SUN success (large scale trial, dense deployments) (Slide 5). The THz demos actually used 60 GHz baseband and upconverting this. 0

802.15.4: Overview on 15.4ab/ac/ad/ae/me (Slides 6-11). Big news is that 15.4me is published.

- 15.4ab (NG-UWB [15-25/0072r0](https://mentor.ieee.org/802.15/dcn/25/15-25-0072-00-04ab-tg4ab-closing-january-2025.pptx)): Initial ballot complete, in comment resolution. 1471 comments received to be resolved.

- 15.4ac (Enhanced Privacy [15-25/0029r3](https://mentor.ieee.org/802.15/dcn/25/15-25-0029-03-04ac-january-opening-and-closing.pptx)): Randomized MAC addressing: Initial draft is in review, heavily based on lessons learned in 802.11. Thank you very much!

- 15.4ad (NG SUN PHYs [15-25/0022r1](https://mentor.ieee.org/802.15/dcn/25/15-25-0022-01-04ad-tg4ad-agenda-opening-and-closing-report-january-2025.pptx)): Pre-draft development, contributions. Goes in opposite direction to narrowband. FSK PHYs are being proposed. Awful networks are being deployed.

- 15.4ae (Ascon encryption [15-25/0031r2](https://mentor.ieee.org/802.15/dcn/25/15-25-0031-02-04ae-january-opening-and-closing.pptx)): Very low power, low complexity: Pre-draft development, recently endorsed by NIST. Is in pre-draft development, review required changes to 802.15.4.

15.6a (Slides 12-13, Revision on 15.6, [15-25/0063r1](https://mentor.ieee.org/802.15/dcn/25/15-25-0063-01-006a-tg15-6ma-closing-report-for-january-2025.pptx)): Draft in last WG recirculation, resolving comments. Should go to SA ballot in July.

15.9a (Slide 14, KMP Transport [15-25/0030r3](https://mentor.ieee.org/802.15/dcn/25/15-25-0030-03-009a-january-opening-and-closing.pptx)). Some extensions to support new things. In draft development.

IG Access (Slide 15, No meetings this time): Explore potential for new project. Contributions will come in March. Focus is on better access to the spectrum. Is there something we should be doing. Looking at 6 GHz initially. Almost everywhere we have to operate. Please, bring ideas.

15.16t (Licensed Narrowband [15-25/0021r0](https://mentor.ieee.org/802.15/dcn/25/15-25-0021-00-016t-comments-submitted-for-2nd-sa-recirculation-of-802-16t-d6-0.xlsx)): In SA ballot. Resolution of comments.

* + 1. 802.24 Vertical Applications TAG Liaison report

Chair was not able to attend. Please check the final agenda for infos ([24-25/0002r1](https://mentor.ieee.org/802.24/dcn/25/24-25-0002-01-0000-tag-agenda-and-meeting-presentation.pptx)).

1. Motions (Sept. WG Motions [11-24/2099r](https://mentor.ieee.org/802.11/dcn/24/11-24-2099-01-0000-january-2025-working-group-motions.pptx)1)

## Working Group Motions

* + 1. TGbq Chair

**Confirm Edward Au as the TGbq chair.**

Moved by Nikola Serafimovski, Second: Mark Hamilton

**Approved with unanimous consent.**

Applause.

* + 1. P802.11bi initial letter ballot

**Having approved** [**11-24/2117r9**](https://mentor.ieee.org/802.11/dcn/24/11-24-2117-09-00bi-tgbi-january-interim-agenda.pptx)**, instruct the editor to prepare P802.11bi D1.0,**

**and approve a 30 day Working Group Technical Letter Ballot asking the question “Should P802.11bi D1.0 be forwarded to SA Ballot?”**

Moved by Carol Ansley on behalf of TGbi/Second: Nikola Serafimovski

Result: Yes: 97, No: 2, Abstain: 8

**Motion passes.**

[TGbi: Moved: Jouni Malinen, 2nd: Joseph Levy, Result: 39/1/2]

* + 1. P802.11br PAR approval

**Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,**

**request that the PAR contained in** [**https://mentor.ieee.org/802.11/dcn/25/11-25-0185-00-0elc-draft-p802-11br-par.pdf**](https://mentor.ieee.org/802.11/dcn/25/11-25-0185-00-0elc-draft-p802-11br-par.pdf) **be posted to the IEEE 802 LMSC agenda for WG 802 preview and LMSC approval to submit to NesCom.**

Moved by Nikola Serafimovski on behalf of ELC SG, Second: Mohamed Islim

Discussion:

Q: Please, write the Motion correctly: Replace EC by LMSC.

A: Changed.

C: If you go to Mentor, it still says EC instead of LMSC.

Result: Yes: 87, No: 1, Abstain: 18

Motion passes.

[ELC SG result: Moved: Volker Jungnickel, 2nd: Mohamed Islim, Result: 16/0/0]

* + 1. P802.11br CSD Approval

**Believing that the CSD contained in the document referenced below meets IEEE-SA guidelines,**

**request that the CSD contained in** [**https://mentor.ieee.org/802.11/dcn/24/11-24-1600-03-0elc-csd-proposal-for-elc.docx**](https://mentor.ieee.org/802.11/dcn/24/11-24-1600-03-0elc-csd-proposal-for-elc.docx) **be posted to the IEEE 802 LMSC agenda for working group 802 preview and LMSC approval, granting the working group chair editorial license.**

Moved by Nikola Serafimovski on behalf of ELC SG, Second: Matthias Wendt

Discussion:

Q: I speak in favor of the Motion. There are still some editorials. Please spell out WG into Working Group.

A: Will be done.

Q: One pedantic is to WG 802 is not known what this is.

A: There is a problem with the template, which should be updated. We correct it.

C: The template as it was is fine. Preview is correct. WG 802 was a short name for the working groups in 802.

C: Can we fix these issues before we second it in the future?

Result: Yes: 97, No: 0, Abstain: 17

**Motion passes.**

[ELC SG result: Moved: Stefan Videv, 2nd: Volker Jungnickel, Result: 9/0/0]

Note by 2nd VC: There is a Motions deck on Mentor which contains the template. Please, all SG chairs, use these templates.

* + 1. Teleconference schedule

The teleconference schedule is on the 802.11 Working Group website <https://ieee802.org/11/>.

## Standing Committee Motions

None.

## Task Group Motions

None.

1. New Business
2. Another other Business (AoB)

## Wireless Chairs meeting ([11-24/2107r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2107-01-0000-2025-january-working-group-chair-supplementary-material.pptx) slide 29)

At 4:00pm local time on the Sunday of 802 Plenary and Wireless Interim in-person sessions. As scheduled via teleconference for electronic sessions. Upcoming telecon: WED February 12, 2025, 3 p.m. ET.

## Next sessions reminder ([11-24/2107r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2107-01-0000-2025-january-working-group-chair-supplementary-material.pptx) slide 30)

Next Interim session is from May 11-16, 2025 in the Warsaw Presidential Hotel, Warsaw, Poland. The next 802 Plenary session is scheduled for July 27-Aug 1 in the Melia Castilla Madrid, Madrid, Spain. Note that these sessions will count towards voting rights. Paid registration is required.For meeting information and registration, see <http://www.ieee802.org/11/Meetings/Meeting_Plan.html>.

Like to thank Hiroshi Mano for his great efforts to make this meeting so successful (Applause). Hiroshi had a lot of assistants. Here is a list of these Yuri Nozoe, IEEE Japan Office, Meiko Kajikawa, IEEE Japan Office, Makiko Kato, IEEE Japan Council, Eiko Furukawa, Koden-TI, Chie Sugiyama, EverySense, Inc. (Slide 30). Thank you so much

(Applause).

## Announcement

1st Vice Chair: There is a Coffee Break in Room 502 after the Closing. Please, come there and enjoy!

## Adjourn

Having completed the agenda, the Chair announced the meeting adjourned at 9:53 Japan time.

# Annex A: Links to Minutes

This Annex contains references to all IEEE 802.11 SC/TG/SG & Ad Hoc Committee (AHC) minutes from this session. Please note that they are NOT subject to the approval of these minutes but are confirmed and approved by their individual group in the opening meeting at their next session.

|  |  |  |
| --- | --- | --- |
| WG | TE | 11-24/1680r1 |
| TGmf | TG | 11-24/2109r0  |
| TGbf | TG | [11-25/0173r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0173-00-00bf-ieee-802-11bf-january-2025-interim-meeting-minutes.docx) |
| TGbi | TG | 11-25/0157r0 |
| TGbk | TG | [none](https://mentor.ieee.org/802.11/dcn/24/11-24-2094-00-00bk-minutes-for-nov-2024-plenary.docx) |
| TGbn | TG | 11-25/0239r0 |
| TGbp | TG | [11-25/0146r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0146-00-00bp-2025-01-interim-meeting-minutes.docx) |
| AUTO | TIG | [11-25/0159r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0159-00-auto-january-2025-kobe-auto-tig-meeting-minutes.docxhttps%3A/mentor.ieee.org/802.11/dcn/24/11-24-1950-00-auto-automotive-tig-meeting-minutes-for-november-11-2024.docx) |
| IMMW | SG | [none](https://mentor.ieee.org/802.11/dcn/24/11-24-1943-00-immw-immw-meeting-minutes-for-november.docx) |
| ELC | SG | [11-25/0160r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0160-02-0elc-elc-2025-01-minutes.docx) |
| AIML | SC | [11-25/0224r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0224-00-aiml-aiml-sc-january-2025-interim-meeting-minutes.doc) |
| ARC | SC | 11-24/2119r0 |
| COEX | SC | [11-25/0072r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0072-00-coex-january-2025-minutes.docx) |
| PAR | SC | [none](https://mentor.ieee.org/802.11/dcn/24/11-24-1815-00-0PAR-minutes-november-2024-session.docx) |
| WNG | SC | [none](https://mentor.ieee.org/802.11/dcn/24/11-24-1815-00-0PAR-minutes-november-2024-session.docx) |
| JTC 802 | SC | [ec-25/0016r0](https://mentor.ieee.org/802-ec/dcn/25/ec-25-0016-00-JTC1-minutes-of-mixed-mode-meeting-in-january-2025.docx) |
| ITU | AH | [none](https://mentor.ieee.org/802.11/dcn/24/11-24-1273-01-immw-immw-meeting-minutes-for-july.docx) |

#  Annex B: Working Group Officers

**Working Group**

|  |  |  |
| --- | --- | --- |
| Name (Affiliation) | Position | Contact Details |
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|  |

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|  |  |  |
| --- | --- | --- |
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# Annex C: Revisions and Standards Pipeline





# Annex D: Attendance & Affiliation

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Affiliation** | **Attended ≥ 75%** | **Status** |
| Abdelaal, Rana | Broadcom Corporation | true | Voter |
| Abeywickrama, Tharindu | Huawei Technologies Duesseldorf GmbH | true | Potential Voter |
| AbidRabbu, Shaima' | VESTEL, IMU | true | Voter |
| Abouelseoud, Mohamed | Apple Inc. | true | Voter |
| Aboulmagd, Osama | Huawei Technologies Co., Ltd | true | Voter |
| Adachi, Tomoko | TOSHIBA Corporation | false | Voter |
| Adhikari, Shubhodeep | Broadcom Corporation | true | Voter |
| Agarwal, Peyush | Broadcom Corporation | true | Voter |
| Aio, Kosuke | Sony Corporation | false | Voter |
| Ajami, Abdel Karim | Apple Inc. | true | Voter |
| Akhavan, Koorosh | Qualcomm Incorporated | false | Non-Voter |
| Akhmetov, Dmitry | Intel | true | Voter |
| Al-Baidhani, Amer | NXP Semiconductors | true | Voter |
| Aldana, Carlos | Meta Platforms Inc. | false | Voter |
| Ali, Sawaira | Istanbul Medipol University, Vestel | true | Voter |
| AL OLAIMAT, AYAT | Vestel, IMU | true | Potential Voter |
| Amtmann, Franz | NXP Semiconductors | true | Potential Voter |
| Ansley, Carol | Cox Communications Inc. | true | Voter |
| Anwyl, Gary | MediaTek Inc. | true | Voter |
| Asai, Yusuke | NTT | true | Voter |
| Asterjadhi, Alfred | Qualcomm Technologies, Inc | true | Voter |
| Au, Kwok Shum | Huawei Technologies Co., Ltd | false | ExOfficio |
| Aygul, Mehmet | Vestel | true | Aspirant |
| Balakrishnan, Hari Ram | NXP Semiconductors | true | Potential Voter |
| Baek, SunHee | LG ELECTRONICS | true | Voter |
| Bahn, Christy | IEEE Staff | false | Non-Voter |
| Bai, Jiyang | TCL | true | Aspirant |
| Baik, Eugene | Qualcomm Incorporated | false | Voter |
| Bajaj, Ian | Huawei International Pte. Ltd. | true | Potential Voter |
| Bajko, Gabor | MediaTek Inc. | true | Voter |
| Banerjee, Subharthi | NXP Semiconductors | true | Voter |
| Bankov, Dmitry | IITP RAS | true | Voter |
| Bao, Zhanjing | TCL | true | Voter |
| Baron, stephane | Canon Research Centre France | true | Voter |
| Batra, Anuj | Apple, Inc. | true | Voter |
| Baykas, Tuncer | Ofinno | true | Voter |
| Beg, Chris | Cognitive Systems Corp. | false | Voter |
| Ben Arie, Yaron | Toga Networks (A Huawei Company) | true | Voter |
| Berger, Catherine | IEEE Staff | false | Non-Voter |
| Berger, Christian | NXP Semiconductors | true | Voter |
| Bethapudi, Shirly | NXP Semiconductors | true | Voter |
| Bhandaru, Nehru | Broadcom Corporation | true | Voter |
| Bhatia, Puneet | Synaptics Inc | true | Aspirant |
| Bian, Tong | Panasonic | true | Voter |
| Bims, Harry | Bims Laboratories, Inc. | true | Voter |
| Bo, Cao | ZTE Corporation | true | Voter |
| Boodannavar, Veerendra | Apple Inc. | true | Voter |
| Borges, Daniel | Apple, Inc. | true | Voter |
| Byeon, Seongho | SAMSUNG ELECTRONICS | true | Voter |
| Bykov, Denis | NXP Semiconductors | true | Voter |
| Campiglio, Ugo | Cisco Systems, Inc. | true | Voter |
| Cao, Rui | NXP Semiconductors | true | Voter |
| Cariou, Laurent | Intel | true | Voter |
| Carney, William | Sony Group Corporation | true | Voter |
| Carty, Clark | Juniper Networks, Inc. | true | Aspirant |
| Cepni, Gurkan | Apple, Inc. | true | Voter |
| Cha, Dongju | LG ELECTRONICS | true | Voter |
| Chang, Chen-Yi | MediaTek Inc. | true | Voter |
| Chang, Yu Hsien | Mediatek | true | Aspirant |
| Chaturvedi, Abhishek | Samsung Electronics | true | Voter |
| Che, Hui | Ruijie Networks Co., Ltd | true | Voter |
| CHEN, CHENG | pureLiFi Ltd. | true | Aspirant |
| Chen, Cheng-Ming | Qualcomm Incorporated | false | Non-Voter |
| Chen, Junbin | TP-Link Systems Inc. | true | Voter |
| Chen, Shuqiao | Huawei Technologies Co., Ltd | false | Voter |
| Chen, Wei-Han | MediaTek Inc. | true | Aspirant |
| Chen, Xiaogang | Spreadtrum Communication USA, Inc | true | Voter |
| CHEN, YI-HSUAN | Acer, Inc. | true | Potential Voter |
| Chen, You-Wei | MediaTek Inc. | true | Voter |
| Cheng, Ching-Chia | MediaTek Inc. | true | Voter |
| Cheng, Nan | Xidian University | true | Voter |
| Cheng, Paul | MediaTek Inc. | true | Voter |
| cheng, phoebe | MediaTek Inc. | true | Voter |
| CHENG, yajun | Xiaomi Communications Co., Ltd. | true | Non-Voter |
| CHERIAN, GEORGE | Qualcomm Incorporated | false | Voter |
| Chisci, Giovanni | Qualcomm Technologies, Inc | false | Voter |
| Chitrakar, Rojan | Huawei International Pte Ltd | false | Voter |
| Chiu, WenHsien | MediaTek Inc. | true | Non-Voter |
| Cho, Hangyu | LG ELECTRONICS | true | Voter |
| Choi, JinHo | SAMSUNG ELECTRONICS | true | Voter |
| Choi, Jinsoo | LG ELECTRONICS | true | Voter |
| Choo, Seungho | Senscomm Semiconductor Co., Ltd. | true | Voter |
| Chou, Tzu-Hsuan | Qualcomm Incorporated | true | Voter |
| Chu, Liwen | NXP Semiconductors | true | Voter |
| Chung, Bruce | Realtek Semiconductor Corp. | true | Voter |
| Chung, Chulho | SAMSUNG | true | Voter |
| Coffey, John | Realtek Semiconductor Corp. | true | Voter |
| Cordeiro, Carlos | Intel | true | Voter |
| Costa, D.Nelson | HaiLa Technologies | true | Voter |
| Cui, Yaoshen | TP-Link Systems Inc. | true | Voter |
| Das, Dibakar | Intel Corporation | true | Voter |
| Das, Sovan | Kyocera SLD Laser Inc | true | Aspirant |
| Das, Subir | Peraton Labs | true | ExOfficio |
| Dash, Debashis | Apple, Inc. | true | Voter |
| da Silva, Claudio | Meta Platforms | true | Voter |
| DeLaOlivaDelgado, Antonio | InterDigital, Inc. | false | Voter |
| Derham, Thomas | Broadcom Corporation | true | Voter |
| Deshmukh, Mrugen | InterDigital | true | Aspirant |
| de Vegt, Rolf | Qualcomm Incorporated | true | Voter |
| Dezfouli, Behnam | Nokia | true | Aspirant |
| Dinan, Esmail | Ofinno | true | Voter |
| Di Taranto, Rocco | Ericsson AB | true | Voter |
| Dong, Xiandong | Xiaomi Communications Co., Ltd. | true | Voter |
| Doppler, Klaus | Nokia | true | Voter |
| Du, Rui | Huawei Technologies Co., Ltd | true | Voter |
| Du, Zhenguo | Huawei Technologies Co., Ltd | true | Voter |
| Dunna, Manideep | Qualcomm | true | Aspirant |
| Eastlake 3rd, Donald | Self | true | Non-Voter |
| Eiger, Martin | Peraton Labs | true | Voter |
| Ekkundi, Manasi | SAMSUNG ELECTRONICS | true | Voter |
| ElSherif, Ahmed | Qualcomm Incorporated | true | Voter |
| EMMELMANN, MARC | Self | false | Voter |
| Erceg, Vinko | Broadcom Corporation | true | Voter |
| Erkucuk, Serhat | Ofinno | true | Voter |
| Fan, Shuang | Sanechips Technology Co., Ltd. | true | Voter |
| Fang, Juan | Intel Corporation | true | Voter |
| Fang, Yonggang | MediaTek Inc. | true | Voter |
| feng, Shuling | MediaTek Inc. | true | Voter |
| Ficara, Domenico | Cisco Systems, Inc. | true | Voter |
| Fischer, Matthew | Broadcom Corporation | true | Voter |
| Friedl, Stephan | Cisco | true | Aspirant |
| Fu, Qingwei | TP-Link Systems Inc. | true | Aspirant |
| Fujimori, Yuki | Canon Research Centre France | true | Voter |
| Gan, Ming | Huawei Technologies Co., Ltd | true | Voter |
| Gangur, Trivikram | Infineon Technologies | true | Voter |
| Ganji, Mehdi | Charter Communications | true | Voter |
| Ganotra, Shivesh | Cisco Systems, Inc. | true | Aspirant |
| Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Voter |
| Garg, Lalit | Broadcom Corporation | true | Voter |
| Ghaderipoor, Alireza | MediaTek Inc. | true | Voter |
| Ghosh, Chittabrata | Apple Inc. | true | Voter |
| Gidvani, Ravi | SAMSUNG ELECTRONICS | true | Voter |
| Gong, Bo | Huawei Technologies Co., Ltd | true | Voter |
| Goto, Fumihide | DENSO | true | Voter |
| Gu, Jaheon | Samsung Electronics Co., Ltd. | true | Voter |
| Gu, Junrong | Clourney Semiconductor | true | Voter |
| Gu, Xiangxin | Spreadtrum Communications (Shanghai) Co., Ltd. | true | Voter |
| GUIGNARD, Romain | Canon Research Centre France | true | Voter |
| Guo, Jing | NXP Semiconductors | true | Voter |
| Guo, Yuchen | Huawei Technologies Co., Ltd | true | Voter |
| Guo, Zheng | NXP Semiconductors | true | Voter |
| Guo, Ziyang | Huawei Technologies Co., Ltd | true | Voter |
| Gupta, Ankit | NXP Semiconductor | true | Aspirant |
| Gupta, Binita | Cisco Systems, Inc. | true | Voter |
| gutierrez, luis | Broadcom Corporation | true | Voter |
| Ha, Taeyoung | Samsung Electronics Co., Ltd. | false | Voter |
| Haider, Muhammad Kumail | Meta Platforms Inc. | true | Voter |
| Halasz, David | Morse Micro | true | Voter |
| Hamilton, Mark | Ruckus/CommScope | true | Voter |
| HAN, DONG | Apple Inc. | true | Potential Voter |
| HAN, Xiao | Huawei Technologies Co., Ltd | true | Voter |
| Hart, Brian | Cisco Systems, Inc. | true | Voter |
| Hasabelnaby, Mahmoud | Huawei Technologies Canada; Huawei Technologies Co., Ltd | true | Voter |
| Hawkes, Philip | Qualcomm Incorporated | false | Aspirant |
| He, Chuanfeng | Beijing OPPO telecommunications corp., ltd; Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Potential Voter |
| He, Linhai | Qualcomm Incorporated | true | Aspirant |
| Hedayat, Ahmadreza | Apple Inc. | true | Voter |
| Helmy, Ahmed | Apple Inc. | true | Voter |
| Helwa, Sherief | Qualcomm Technologies, Inc | false | Voter |
| Henry, Jerome | Cisco Systems, Inc. | true | Voter |
| Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) | true | Voter |
| Hiertz, Guido | Ericsson GmbH | true | Voter |
| Hirata, Ryuichi | Sony Corporation | true | Voter |
| Ho, Duncan | Qualcomm Technologies, Inc | true | Voter |
| Hosseinianfar, Hamid | Ofinno | true | Voter |
| Hsiao, Ching-Wen | MediaTek Inc. | true | Voter |
| Hsieh, Hung-Tao | MediaTek Inc. | false | Voter |
| Hsu, Chien-Fang | MediaTek Inc. | true | Voter |
| Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. | false | Voter |
| Hsu, Yung Lin | National Taiwan University | true | Voter |
| Hsu, Yungping | MediaTek Inc. | false | Voter |
| Hu, Chunyu | Spreadtrum Communications USA | true | Voter |
| Hu, Mengshi | Huawei Technologies Co., Ltd | true | Voter |
| Hu, Shengquan | MediaTek Inc. | true | Potential Voter |
| HUANG, CHIHAN | MediaTek Inc. | true | Voter |
| Huang, Guogang | Huawei Technologies Co., Ltd | true | Voter |
| huang, kaikai | Nokia | true | Voter |
| Huang, Lei | Huawei International Pte Ltd | false | Voter |
| Huang, Po-Kai | Intel | true | Voter |
| Huang, Qisheng | ZTE Corporation | true | Potential Voter |
| Inohiza, Hirohiko | Canon | true | Voter |
| Inoue, Kyosuke | SHARP CORPORATION | true | Potential Voter |
| Islim, Mohamed Sufyan | pureLiFi | true | Aspirant |
| Jang, Insun | LG ELECTRONICS | true | Voter |
| Jee, Anand | SAMSUNG ELECTRONICS | true | Potential Voter |
| Jeffries, Timothy | Futurewei Technologies | true | Voter |
| Jeon, Eunsung | SAMSUNG ELECTRONICS | true | Voter |
| Ji, Chenhe | Huawei Technologies Co., Ltd | true | Voter |
| Jia, Boqi | Huawei Technologies Co., Ltd | true | Aspirant |
| jiang, feng | Apple Inc. | true | Voter |
| Jiang, Jinjing | Apple, Inc. | true | Voter |
| Joh, Hanjin | KT Corp. | true | Voter |
| John, Toby | Verizon | false | Voter |
| Johnsson, Kerstin | Nokia | true | Non-Voter |
| Jones, Vincent Knowles IV | Qualcomm Incorporated | true | Voter |
| Jung, Insik | LG ELECTRONICS | true | Non-Voter |
| Jungnickel, Volker | Fraunhofer Heinrich Hertz Institute | true | Voter |
| Kabbinale, Aniruddh | SAMSUNG | true | Voter |
| Kadampot, Ishaque Ashar | Qualcomm Technologies, Inc. | false | Voter |
| Kain, Carl | USDOT; Noblis, Inc. | true | Voter |
| Kakani, Naveen | Qualcomm Incorporated | true | Voter |
| Kalamkar, Sanket | Qualcomm Technologies, Inc | false | Voter |
| Kamel, Mahmoud | InterDigital, Inc. | true | Voter |
| Kancherla, Sundeep | Infineon Technologies | true | Voter |
| Kandala, Srinivas | SAMSUNG | true | Voter |
| Kang, HaoHua | MediaTek Inc. | true | Voter |
| Karamyshev, Anton | IITP RAS | true | Voter |
| Karmuchi, Shailender | SAMSUNG ELECTRONICS | true | Voter |
| Karthik, S. G. | SAMSUNG ELECTRONICS | true | Voter |
| Kasargod, Sudhir | Infineon Technologies | true | Voter |
| Kennedy, Richard | Bluetooth SIG | false | Voter |
| Kezys, Vytas | CONSULTANT | false | Non-Voter |
| Khericha, samir | Broadcom Corporation | false | Voter |
| Khorov, Evgeny | IITP RAS | true | Voter |
| Khosroazad, Somayeh | NXP Semiconductors | true | Aspirant |
| KIM, DONGWAN | Broadcom Corporation | false | Voter |
| Kim, Geon Hwan | LG ELECTRONICS | true | Voter |
| Kim, Jeongki | Ofinno | true | Voter |
| Kim, Jungjun | Samsung Electronics | true | Aspirant |
| Kim, Sang Gook | LG ELECTRONICS | true | Voter |
| Kim, Sanghyun | WILUS Inc. | true | Voter |
| Kim, Suhwook | Samsung Electronics | true | Aspirant |
| Kim, Taehoon | Hanbat National University | true | Aspirant |
| Kim, Yongho | Korea National University of Transportation | true | Voter |
| Kim, Youhan | Qualcomm Technologies, Inc. | false | Voter |
| Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) | true | Voter |
| Kitazawa, Shoichi | Muroran IT | true | Voter |
| Klein, Arik | Huawei Technologies Co., Ltd | true | Voter |
| Kneckt, Jarkko | Apple, Inc. | true | Voter |
| Koo, Jonghoe | SAMSUNG ELECTRONICS | true | Voter |
| Krebs, Alexander | Apple Inc; Apple Inc. | false | Voter |
| Ku, Chung-Ta | MediaTek Inc | true | Voter |
| Kumar, Manish | NXP Semiconductors | true | Voter |
| Kuo, Chih-Chun | MediaTek Inc. | true | Voter |
| Kureev, Aleksey | IITP RAS | true | Voter |
| Lalam, Massinissa | SAGEMCOM BROADBAND SAS | true | Voter |
| Lanante, Leonardo | Ofinno | true | Voter |
| Lansford, James | farafir, SRL | true | Voter |
| Lee, Gwangho | Korea National University of Transportation | true | Potential Voter |
| Lee, Hong Won | LG ELECTRONICS | true | Voter |
| Lee, Jack | SAMSUNG ELECTRONICS | true | Voter |
| LEE, JOONSOO | Newracom Inc. | true | Voter |
| Lee, Kyoung-Jae | Hanbat National University | true | Aspirant |
| LEE, Mingyu | Samsung Electronics Co., Ltd. | true | Voter |
| Lee, Wookbong | Apple Inc. | true | Voter |
| Levitsky, Ilya | IITP RAS | true | Voter |
| Levy, Joseph | InterDigital, Inc. | true | Voter |
| Li, Bo | Northwestern Polytechnical University | true | Voter |
| Li, Haozheng | TP-Link System Inc. | true | Voter |
| Li, Jialing | Qualcomm Technologies, Inc | false | Voter |
| Li, Panpan | Huawei Technologies Co., Ltd | false | Voter |
| Li, Qinghua | Intel | true | Voter |
| Li, Weiyi | Spreadtrum Communication USA, Inc | true | Voter |
| Li, Xin | Huawei Technologies Co., Ltd | true | Voter |
| Li, Yan | ZTE Corporation | true | Voter |
| Li, Yanchun | Huawei Technologies Co., Ltd | true | Voter |
| Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Voter |
| li, yun | ZTE Corporation | true | Voter |
| Li, Yunbo | Huawei Technologies Co., Ltd | true | Voter |
| Lim, Dong Guk | LG ELECTRONICS | true | Voter |
| Lim, Yeon Geun | Newracom Inc. | false | Voter |
| Lin, Wei | Huawei Technologies Co., Ltd | true | Voter |
| LIU, CHENCHEN | Huawei Technologies Co., Ltd | true | Voter |
| Liu, Der-Zheng | Realtek Semiconductor Corp. | true | Voter |
| Liu, Jeff | Broadcom Corporation | true | Voter |
| Liu, Jianhan | MediaTek Inc. | true | Voter |
| Liu, Peng | Huawei Technologies Co., Ltd | false | Non-Voter |
| LIU, QINGLAI | Panasonic Holdings Corporation | true | Voter |
| Liu, Yong | Apple, Inc. | false | Voter |
| Lorgeoux, Mikael | Canon Research Centre France | true | Voter |
| Lou, Hanqing | InterDigital, Inc. | true | Voter |
| Lou, Hui-Ling | NXP Semiconductors | true | Voter |
| Lovison, Federico | Cisco Systems, Inc. | false | Voter |
| Lu, kaiying | MediaTek Inc. | true | Voter |
| Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Voter |
| LU, Yuxin | TCL Industries | true | Voter |
| Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. | true | Voter |
| Luo, Hui | Infineon Technologies | true | Voter |
| Luo, Sixian | SHARP CORPORATION | true | Potential Voter |
| Ma, Jing | Toyota Motor Corporation | true | Voter |
| Ma, Li | MediaTek Inc. | true | Voter |
| Ma, Yongsen | SAMSUNG ELECTRONICS | true | Voter |
| Magrin, Davide | Meta Platforms Inc. | true | Voter |
| Mak, Siukai | Broadcom Corporation | true | Voter |
| Malinen, Jouni | Qualcomm Technologies, Inc | true | Voter |
| Martinez Vazquez, Marcos | MaxLinear Corp | true | Voter |
| Max, Sebastian | Ericsson AB | true | Voter |
| McCann, Stephen | Huawei Technologies Co., Ltd | true | Voter |
| Mehrnoush, Morteza | Apple Inc | true | Voter |
| Merlin, Simone | Qualcomm Incorporated | true | Aspirant |
| Minotani, Jun | Panasonic Holdings Corporation | true | Non-Voter |
| Moelker, Dignus-Jan | Broadcom Corporation | true | Voter |
| Mohamed, Ahmed | NXP Semiconductors | true | Voter |
| Mohamed Hassan Salem, Nedime Pelin | Cisco Systems, Inc. | true | Voter |
| Monajemi, Pooya | Apple Inc. | true | Voter |
| Montemurro, Michael | Huawei Technologies Co., Ltd | true | Voter |
| Montreuil, Leo | Broadcom Corporation | true | Voter |
| Moon, Juseong | Korea National University of Transportation | true | Voter |
| Morikawa, Yudai | Sony Corporation | true | Aspirant |
| Morioka, Hitoshi | SRC Software | true | Voter |
| Motozuka, Hiroyuki | Panasonic Holdings Corporation | true | Voter |
| Mourtada, Yasser | Ofinno | true | Voter |
| Mukherjee, Suprojit | Infineon Technologies | true | Potential Voter |
| Mutgan, Okan | Nokia | true | Voter |
| Nagai, Yukimasa | Mitsubishi Electric Corporation | true | Voter |
| Naik, Gaurang | Qualcomm Technologies, Inc | true | Voter |
| Namvar, Nima | Charter Communications | true | Potential Voter |
| Narengerile, Narengerile | Huawei Technologies Co., Ltd | true | Voter |
| Nassiri Toussi, Karim | Broadcom Corporation | true | Voter |
| Nayak, Peshal | Samsung Research America | true | Voter |
| Neishaboori, Azin | General Motors Company | true | Voter |
| Nezou, Patrice | Canon Research Centre France | true | Voter |
| Ng, Boon Loong | Samsung Electronics | true | Voter |
| Nguyen, An | U.S. Department of Homeland Security | true | Voter |
| Nogami, Toshizo | SHARP CORPORATION | true | Potential Voter |
| Noh, Si-Chan | Newracom Inc. | false | Voter |
| Nomura, Tetsuya | DENSO TEN Limited | false | Non-Voter |
| Norouzi, Sara | Huawei Technologies Canada; Huawei Technologies Co., Ltd | true | Voter |
| Nurani Krishnan, Neelakantan | Apple Inc. | true | Voter |
| Ohmoto, Ryutaro | Nihon Dengyo Kosaku Co. Ltd. | true | Non-Voter |
| Omar, Hassan | Huawei Technologies Co., Ltd | true | Voter |
| Orr, Stephen | Cisco Systems, Inc. | false | Voter |
| ouzane, riadh | Vestel, IMU | true | Potential Voter |
| Pakrooh, Pooria | Qualcomm Incorporated | false | Voter |
| Palayur, Saju | MaxLinear Inc. | true | Voter |
| Palm, Stephen | Broadcom Corporation | true | Voter |
| Pan, Ju Yan | Huawei Technologies Co., Ltd | true | Potential Voter |
| Pare, Thomas | MediaTek Inc. | true | Voter |
| Park, Eunsung | LG ELECTRONICS | true | Voter |
| Patel, Tushar |   | false | Non-Voter |
| Patil, Abhishek | Qualcomm Incorporated | false | Voter |
| Patwardhan, Gaurav | Hewlett Packard Enterprise | true | Voter |
| Peng, Lan | Huawei Technologies Co., Ltd | true | Voter |
| Peng, Ronny | MediaTek Inc. | true | Voter |
| Perahia, Eldad | Hewlett Packard Enterprise | true | Voter |
| Petrick, Albert | InterDigital, Inc. | true | Voter |
| Pettersson, Charlie | Ericsson AB | true | Voter |
| Pirhonen, Riku | NXP Semiconductors | false | Non-Voter |
| Porat, Ron | Broadcom Corporation | true | Voter |
| Portier, Fabrice | Silicon Labs | false | Non-Voter |
| Puducheri, Srinath | Broadcom Corporation | true | Voter |
| Pulikkoonattu, Rethnakaran | Broadcom Corporation | true | Voter |
| Qi, Emily | Intel | true | Voter |
| Qi, Yinan | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Non-Voter |
| Qi, Yue | Samsung Research America | true | Non-Voter |
| QIAN, BIN | Huawei Technologies Co., Ltd | true | Voter |
| Qian, Yurong | ZTE Corporation | true | Voter |
| Quan, Li | ZTE Corporation | true | Potential Voter |
| Quan, Yingqiao | Spreadtrum | true | Voter |
| Qureshi, Haneya | General Motors | false | Non-Voter |
| Rafique, Saira | Istanbul Medipol University, Vestel | true | Voter |
| Rai, Kapil | Qualcomm Incorporated | true | Potential Voter |
| Raissinia, Alireza | Qualcomm Incorporated | true | Voter |
| Ratnam, Vishnu | Samsung Research America | true | Voter |
| Redlich, Oded | Huawei Technologies Co., Ltd | true | Voter |
| Regev, Dror | Toga Networks (A Huawei Company) | true | Voter |
| REICH, MOR | Huawei Technologies Co., Ltd | false | Voter |
| Rezk, Meriam | Qualcomm Technologies, Inc | true | Voter |
| Rios, Carlos | Terabit Wireless Internet LLC | true | Voter |
| Robert, Joerg | Technische Universitaet Ilmenau | false | Voter |
| Rodriguez, Stephen | Cisco Systems, Inc. | true | Voter |
| Rolfe, Benjamin | Blind Creek Associates | false | Non-Voter |
| Rosdahl, Jon | Qualcomm Technologies, Inc. | true | Voter |
| Roy, Rishabh | SAMSUNG ELECTRONICS | true | Potential Voter |
| Ryu, Kiseon | NXP Semiconductors | true | Voter |
| Sadiq, Bilal | Samsung Research America | true | Voter |
| Sahyoun, Walaa | Canon Research Centre France | true | Potential Voter |
| Sakamoto, Ryunosuke | SHARP CORPORATION | true | Potential Voter |
| Salem, Mohamed | Huawei Technologies Co., Ltd | false | Non-Voter |
| Sambasivan, Sam | AT&T | true | Voter |
| Sampath, Hemanth | Qualcomm Inc | false | Aspirant |
| Sampath, Hemanth | Qualcomm Incorporated | true | Non-Voter |
| Sand, Sophia | FernUniversitat in Hagen | false | Non-Voter |
| Sand, Stephan | German Aerospace Center (DLR) | true | Voter |
| Sanderovich, Amichai | Wiliot Ltd | true | Voter |
| Santra, Avik | Infineon Technologies | true | Voter |
| Sato, Takuhiro | SHARP CORPORATION | true | Voter |
| Schelstraete, Sigurd | MaxLinear | true | Voter |
| Schweizer, Benedikt | Apple Inc. | false | Voter |
| Segev, Jonathan | Intel | true | Voter |
| Seo, Sangho | Broadcom Corporation | true | Voter |
| Seok, Yongho | Apple Inc. | true | Voter |
| Serafimovski, Nikola | pureLiFi | true | Voter |
| Serizawa, Kazunobu | Advanced Telecommunications Research Institute International (ATR) | true | Voter |
| Sevin, Julien | Canon Research Centre France | true | Voter |
| Shafin, Rubayet | Samsung Electronics | true | Voter |
| Shaw, Amit | Infineon Technologies | true | Voter |
| Shellhammer, Stephen | Qualcomm Incorporated | false | Voter |
| shen, wendi | National Taiwan University | true | Potential Voter |
| Sherlock, Ian | Texas Instruments Inc. | true | Voter |
| shi, shuyu | TP-Link Corporation Limited | true | Voter |
| Shi, Yan | Mediatek | true | Aspirant |
| Shi, Zhenpeng | Huawei Technologies Co., Ltd | true | Aspirant |
| Shilo, Shimi | Huawei Technologies Co., Ltd | true | Voter |
| Shirakawa, Atsushi | SHARP CORPORATION | true | Voter |
| Shukla, Ashish | Amazon, Inc | true | Voter |
| Singh, Aditi | Charter Communications | true | Voter |
| Smith, Graham | SR Technologies | true | Voter |
| Smith, Luther | Cable Television Laboratories Inc. (CableLabs) | false | Voter |
| Son, Ju-Hyung | WILUS Inc. | true | Potential Voter |
| Sood, Ayush | Infineon Technologies | true | Voter |
| Srinivasa, Sudhir | NXP Semiconductors | true | Voter |
| Sriram, Sundar | Apple Inc. | true | Voter |
| Stacey, Robert | Intel | true | Voter |
| Stanley, Dorothy | Hewlett Packard Enterprise | true | Voter |
| Stott, Noel | Keysight Technologies | true | Voter |
| Strobel, Rainer | MaxLinear | true | Voter |
| Su, Hang | Broadcom Corporation | true | Voter |
| SUH, JUNG HOON | Huawei Technologies Co., Ltd | true | Voter |
| Sumi, Takenori | Mitsubishi Electric Corporation | false | Non-Voter |
| Sun, Bo | Sanechips | true | Voter |
| Sun, Jiaqi | China Mobile (Hangzhou) Information Technology Co., Ltd. | true | Non-Voter |
| Sun, Li-Hsiang | MediaTek Inc. | false | Voter |
| Sun, Yanjun | Apple Inc | true | Voter |
| Sung, Hyeonjun | WILUS Inc. | true | Aspirant |
| SUZUKI, Shuntaro | Yamaha Corporation | true | Voter |
| Taherzadeh, Mahmoud | Qualcomm | true | Aspirant |
| Takai, Mineo | Space-Time Engineering | true | Aspirant |
| Talarico, Salvatore | Sony Corporation | true | Voter |
| Tanaka, Ken | Sony Corporation | false | Aspirant |
| Tanaka, Yusuke | Sony Corporation | true | Voter |
| Tang, Zhuqing | Huawei Technologies Co., Ltd | true | Voter |
| Taori, Rakesh | Infineon Technologies | true | Voter |
| Thakur, Sidharth | Apple Inc. | true | Voter |
| Thota, Sri Ramya | Infineon Technologies | true | Voter |
| Tian, Bin | Qualcomm Incorporated | true | Voter |
| Tinnakornsrisuphap, Peerapol | Qualcomm Incorporated | true | Aspirant |
| Tomeba, Hiromichi | SHARP CORPORATION | true | Voter |
| Tota, Kazuyuki | Canon | true | Voter |
| Trainin, Solomon | Wiliot | false | Voter |
| Tretiakov, Anton | IITP RAS | true | Voter |
| Tsai, Tsung-Han | MediaTek Inc. | false | Voter |
| Tseng, Yen Hsiung | MediaTek Inc. | true | Potential Voter |
| Tsodik, Genadiy | Huawei Technologies Co., Ltd | true | Voter |
| Tsujimaru, Yuki | Canon | false | Voter |
| Urabe, Yoshio | Panasonic Holdings Corporation | true | Voter |
| Vaidya, Maulik | Charter Communications | false | Voter |
| Val, Inaki | MaxLinear, Inc. | true | Voter |
| Varshney, Prabodh | Nokia | true | Voter |
| Venkatesh, Narasimhan | Silicon Laboratories | true | Potential Voter |
| Verma, Sindhu | Broadcom Corporation | true | Voter |
| Vermani, Sameer | Qualcomm Incorporated | true | Voter |
| Videv, Stefan | Kyocera SLD Laser | true | Aspirant |
| VIGER, Pascal | Canon Research Centre France | true | Voter |
| Wang, Chao Chun | MediaTek Inc. | true | Voter |
| Wang, Hao | Tencent | false | Voter |
| Wang, Huizhao | NXP Semiconductors | true | Voter |
| Wang, Lei | Futurewei Technologies | true | Voter |
| WANG, PU | Mitsubishi Electric Research Laboratories (MERL) | false | Non-Voter |
| Wang, Pu | Mitsubishi Electric Research Laboratories (MERL) | true | Voter |
| Wang, Steven Qi | Huawei Technologies Co., Ltd | true | Voter |
| Wang, Xiaofei | InterDigital, Inc. | true | Voter |
| Wang, Ying | InterDigital, Inc. | true | Voter |
| Wang, Zisheng | ZTE Corporation | false | Voter |
| Want, Roy | Google | true | Voter |
| Ward, Lisa | Rohde & Schwarz | true | Voter |
| Wee, Gaius | Panasonic Holdings Corporation | true | Potential Voter |
| Wei, Dong | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Voter |
| Wendt, Matthias | Signify | false | Voter |
| Wentink, Menzo | Qualcomm Incorporated; Qualcomm Technologies, Inc | false | Voter |
| White, Gregory | Cable Television Laboratories Inc. (CableLabs) | true | Voter |
| Wilhelmsson, Leif | Ericsson AB | true | Voter |
| Wu, Chao-Yi | Samsung Electronics Co., Ltd. | true | Voter |
| Wu, Kanke | Apple Inc | true | Voter |
| Wu, Tianyu | Apple, Inc. | true | Voter |
| Wullert, John | Peraton Labs | true | Voter |
| Xia, Qing | Sony Corporation | true | Voter |
| Xiao, Bo | ZTE Corporation | true | Voter |
| Xiao, Tong | Xiaomi Communications Co., Ltd. | true | Potential Voter |
| Xin, Liangxiao | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Voter |
| Xin, Yan | Huawei Technologies Co., Ltd | true | Voter |
| Xu, Fangxin | Longsailing Semiconductor | true | Voter |
| Xu, Weijie | Beijing OPPO telecommunications corp., ltd. | true | Potential Voter |
| Xu, Yanchao | Amlogic | true | Voter |
| Xu, Yue | Huawei Technologies Co., Ltd | true | Voter |
| Xue, Qi | Qualcomm Incorporated | true | Aspirant |
| YAGHOOBI, HASSAN | Intel | true | Voter |
| Yahya, Salim | VESTEL,IMU | true | Potential Voter |
| Yamada, Ryota | SHARP CORPORATION | true | Voter |
| Yan, Aiguo | SAMSUNG ELECTRONICS | true | Voter |
| Yan, Min | Huawei Technologies Co., Ltd | false | Voter |
| Yan, Peng | Wi-Fi Alliance | true | Non-Voter |
| Yan, Zhongjiang | Northwestern Polytechnical University | true | Voter |
| Yang, Hang | Ruijie Networks Co. Ltd | true | Potential Voter |
| Yang, Haorui | China Mobile | true | Potential Voter |
| Yang, Hsi-Chang | Mediatek Inc | true | Aspirant |
| Yang, Jay | ZTE Corporation | false | Voter |
| Yang, Lin | Qualcomm Incorporated | true | Voter |
| Yang, Mao | Northwestern Polytechnical University | true | Voter |
| YANG, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Voter |
| YANG, RUI | InterDigital, Inc. | true | Voter |
| Yang, Steve TS | MediaTek Inc. | true | Voter |
| Yang, Xun | Huawei Technologies Co., Ltd | false | Voter |
| Yang, Yunpeng | TP-Link Systems Inc. | true | Aspirant |
| Yang, Zigui | Samsung Electronics Co,. Ltd. | true | Aspirant |
| Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) | true | Voter |
| Yee, James | MediaTek Inc. | true | Voter |
| Yee, Peter | NSA-CSD | true | Voter |
| Yong, Su Khiong | Apple, Inc. | false | Voter |
| Yoon, Yelin | LG ELECTRONICS | true | Voter |
| Young, Christopher | Broadcom Corporation | true | Voter |
| Yu, Jian | Huawei Technologies Co., Ltd | true | Voter |
| Zhang, Hongyuan | NXP Semiconductors | true | Voter |
| Zhang, Jiayi | Ofinno | true | Voter |
| Zhang, John | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | false | Voter |
| Zhang, Maolin | Huawei Technologies Co., Ltd | true | Voter |
| Zhang, Rong | NXP Semiconductors | true | Voter |
| Zhang, Yan | Apple Inc | true | Voter |
| Zhao, Xuwen | TCL | true | Aspirant |
| Zhao, Yue | Huawei Technologies Co., Ltd | true | Voter |
| Zheng, Xiayu | NXP Semiconductors | true | Voter |
| Zhong, Ke | Ruijie Networks Co.,Ltd. | true | Voter |
| Zhou, Chengzhi | Apple Inc. | true | Voter |
| Zhou, Lei | H3C Technologies Co., Limited | true | Voter |
| Zhou, Pei | TCL | true | Voter |
| Zhou, RenFang | TP-Link Systems Inc. | true | Aspirant |
| Zhou, Yan | Qualcomm | true | Aspirant |
| Zhu, Yu | TP-Link System Inc. | true | Voter |
| Zuniga, Juan Carlos | Cisco Systems, Inc. | true | Voter |
| Zuo, Zhisong | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | true | Potential Voter |