IEEE P802.11
Wireless LANs

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| Minutes of the IEEE P802.11 Full Working Group |
| Date: 2023-09-11 |
| Author(s): |
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Abstract

This document constitutes the minutes of the IEEE 802.11 full working group for the September 2023 session.

Please note that all affiliations at this session are shown in Annex A.

**Abbreviations:**

A: Answer

C: Comment

Q: Question

TG: Task Group

TIG: Topic Interest Group

SG: Study Group

**IEEE 802.11 Plenary Session #201**

**September 10th – 15th, 2023**

**IEEE 802.11 Opening Plenary, Monday September 11th, 2023**

Presiding chair: Robert Stacey (Intel) opened the meeting at 09:04 Eastern Time (ET) and declared quorum for the session.

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

Secretary: Stephen McCann Huawei Technologies Co., Ltd

There are 535 Voters, 94 Aspirants, 42 Potential Voters and 11 Ex Officio voters of IEEE 802.11\*.

There were 139 people attending in person (in the room) and 258 on Webex. (383 IMAT)

\*who ask to be recognized as such in the 802.11 voters list.

1. **Notices** (11-23-1332r2)
	1. Chair: Please note the information about the meeting decorum.
	2. Are there any members of the press present?
		1. None.
	3. IEEE Staff present
		1. Christy Bahn
	4. Please note that this session requires a registration fee to be paid.
2. **Approve/modify working group agenda** (11-23-1331r2)
	1. This is a summary of the meeting today. Please note the schedule for this session on the separate tab “Schedule Graphic”.
	2. There has been a change to the order of the 802.18 liaison from Wednesday to today.
	3. **Move to approve the agenda 11-23-1331r2 for the Monday opening plenary.**
		1. Moved: Al Petrick, 2nd: Bo Sun
		2. No objection to approving by unanimous consent.
3. **July 2023 WG Minutes**
	1. **Move to approve the July 2023 WG minutes document 11-23-1309r1**
	2. Moved: Stephen McCann, 2nd: Stuart Kerry
4. **New Attendees**
	1. **Straw Poll: Are you a new attendee to IEEE 802.11?**
		1. Yes: 2
	2. There will be a New Members meeting this session on Monday September 11th at 10:30 ET in room Highland 5. Everyone is welcome to join this meeting.
5. **Call for essential Patents** (11-23-1337r0)
	1. The current PatCom rules were read out, including the call for essential patents information, as shown by:
	2. <https://development.standards.ieee.org/myproject/Public/mytools/mob/patut.pdf>
		1. There were no issues raised regarding the call for essential patents.
		2. There was a response to the call for essential patents from:
		3. Carlos A Rios, Terabit Wireless Internet LLC
		4. No questions
6. **Participation and Attendance** (11-23-1337r0)
	1. The slides about IEEE 802 meeting participation and IEEE SA copyright were also read.
	2. Expected participant behavior was also announced.
	3. Remember to do your attendance for this meeting. To achieve 75%, which counts towards an attendance credit for the session, you must attend 12 meeting slots.
	4. Regarding slide #21, this is a reminder about the abstain vote.
7. **Announcements** (11-23-1332r2)
	1. **Liaisons** (slide #4)
		1. Chair: There is a new liaison from the WBA and is available in the member’s area.
	2. **EC and IEEE-SA standard board decisions** (slides #5 and #6)
		1. Chair: These are some items from recent and for upcoming EC meetings.
	3. **Joint meetings & reciprocal credit with IEEE 802 groups** (slide #8)
		1. 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.
8. **Logistics and Key events/activities** (11-23-1340r0)
	1. If you have any audio-visual issues this session, please contact the registration desk, as shown on slide #6.
	2. Please remember not to connect to audio when you are in the room on the Webex tool.
	3. Please don’t take photographs during the meetings.
	4. Document ec-23-0160r0 provides you with information about this session’s session.
	5. Note that Dawn and Lisa from Face-to-face are not here all week, so Stephanie will be the venue representative from Thursday.
	6. There is a terrace on the 2nd level, where you can sit outside and enjoy your lunch.
	7. Please remember to register your attendance using IMAT.
	8. This session requires registration, so please follow the link to pay the registration fee.
	9. There is a QR code on your badge material that will allow you to access the online schedule.
	10. There is a social on Wednesday evening at a local restaurant a couple of blocks away from this conference venue. If you wish to bring a guest, please can you collect a badge for them from the IEEE 802 registration desk.
	11. The next plenary session is at the Hilton Hawaiian Village in Honolulu in November 2023. The registration is now open.
	12. How many people will be here on Friday, so we can determine the amount of food for breakfast? 51.
9. **WG Information** (11-23-1332r2)
	1. These slides contain information about the following topics:
		1. IEEE 802.11 recent amendment status (e.g. 11bb and 11bc).
		2. Recent Ballots (e.g. TGbe, TGbf and TGme).
		3. Historic membership slides (slide #23).
		4. There has been an update in the document format instructions as shown on slide #21.
10. **Group Summaries** (11-23-1336r0)
	1. Special notes were mentioned for the following groups:
	2. **Editors’ meeting and ANA** (slides #3 & #4)
		1. There is an editors’ meeting at 07:00 ET on Tuesday morning.
		2. No questions.
	3. **ARC SC** (slide #5)
		1. There are 2 meetings this session.
		2. No questions.
	4. **Coex** **SC** (slide #7)
		1. This standing committee will meet once this session.
		2. The main discussion items are about Bluetooth and IEEE 802.11 co-existence.
		3. No questions.
	5. **PAR** **SC** (slide #8)
		1. This SC is not meeting this session.
		2. No questions.
	6. **WNG** (slide #9)
		1. There are 2 presentations planned for this session’s meeting.
		2. No questions.
	7. **JTC1** **SC** (slide #10)
		1. There is 1 meeting during this session.
		2. No questions.
	8. **REVme** (slide #13)
		1. The initial SA Ballot is now open and there is an ad-hoc scheduled for October in Toronto, Canada.
		2. This session will be an opportunity for open discussions.
		3. No questions.
	9. **TGbe** (slide #14)
		1. LB275 completed with 1128 comments. The work this session will be to work on these comments.
		2. No questions.
	10. **TGbf** (slide #16)
		1. LB276 completed with 545 comments, which will be addressed this session.
		2. No questions.
	11. **TGbh** (slide #20)
		1. The initial letter ballot (LB274) completed with an approval rate of 91.82% earlier in the year. The work this session will be to continue working on comment resolutions.
		2. No questions.
	12. **TGbi** (slide #21)
		1. The group is still addressing feature definitions this session and looking at initial technical submissions.
		2. No questions.
	13. **TGbk** (slide #22)
		1. The group has published an updated draft D0.2 and will work on updating this draft during the session.
		2. No questions.
	14. **UHR SG** (slide #24)
		1. Work this session will be to have technical discussions.
		2. No questions.
	15. **AMP SG** (slide #26)
		1. There will be 4 meetings this session for the development of an AMP PAR and the associated CSD.
		2. No questions.
	16. **AIML TIG** (slide #28)
		1. The activity this session is to continue the discussion of use cases and technical contributions for this topic.
		2. No questions.
	17. **ITU ad-hoc** (slide #30)
		1. There are no meetings this session, but the slide contains some relevant information.
		2. No questions.
11. **IEEE 802 Revision**
	1. IEEE 802REVc is undergoing revision at the moment. There will be a meeting to discuss comments about this document on Wednesday AM1 that is open to all.
	2. This is also related to the ongoing work in the IEEE 802.11 ARC SC.
	3. No questions.
12. **Announcements**
	1. None
13. **Recess**
	1. Meeting recessed at 10:08 ET.

**Wednesday, September 13th, 2023**

**IEEE 802.11 Mid-week Plenary**

Call to order at 13:31 ET by Robert Stacey (Intel).

There were 73 attending in person (in the room) and 193 on Webex.

1. **Approve/modify working group agenda** (11-23-1331r3)
	1. Chair: There have been some schedule changes to the agenda since the opening plenary.
	2. **Approve the agenda for the today’s meeting as shown in 11-23-1331r3.**
		1. Moved: Stephen McCann, 2nd: Mark Hamilton
		2. No objection to approving by unanimous consent.
2. **Announcements** (11-23-1333r3)
	1. **Code of conduct** (slide #4)
		1. These are the codes of conduct for the session.
		2. No questions.
	2. **Call for essential patents** (slide #7)
		1. This is the Call for Essential Patents
		2. No statements.
		3. No questions.
	3. **Meeting decorum** (slide #10)
		1. No members of the press are present.
		2. No questions.
	4. **Additional expert** (slide #11)
		1. Necati Canpolat has been added to the list of registration waivers for this session, as a individual expert for a presentation during the mid-week plenary.
		2. No questions.
	5. **Document templates**
		1. The instructions about creating documents for 802.11 have recently been updated.
		2. Q: I have one request. On the 802.11 web page, please can you change the link to these new .dot templates, rather than the old ones?
		3. A: Yes.
		4. C: The word landscape version has been removed.
3. **Timeline**
	1. No major changes to any dates at the moment.
	2. No questions.
4. **Wi-Fi Alliance Liaison** (11-23-1512r0)
	1. The next Wi-Fi Alliance (WFA) meeting will be in Prague in October 2023.
	2. The last meeting was held in Mexico City in June 2023.
	3. The WFA have created a subsidiary called the Wi-Fi Alliance Services (see slide #2).
	4. No questions.
5. **IETF Liaison** (11-23-1539r0)
	1. The next meeting will be in Prague in November 2023.
	2. Several IETF groups that may have an impact on IEEE 802.11 are mentioned.
	3. No questions.
6. **IEEE 802.18 Liaison** (11-23-1351r2)
	1. This document summarizes the discussion topics within IEEE 802.18 meetings.
	2. There are currently 55 voting members. The WG is looking for a new secretary.
	3. No questions.
7. **IEEE 802.19 Liaison** (11-23-1618r1)
	1. This document summarizes the discussion topics within IEEE 802.19 meetings.
	2. There are currently 51 voting members.
	3. No questions.
8. **IEEE 802REVc**
	1. 802REVc has completed its re-circulation ballot and comment resolution is underway.
	2. There are 3 teleconference between now and the November plenary.
	3. None of the comment resolutions will have any effect on 802.11.
	4. No questions.
9. **Minutes review** (11-23-1451r0)
	1. The WG secretary has reviewed the sub group minutes from the July 2023 plenary and this is their report. There are no major issues with any of the minutes.
	2. Thank you to all the secretaries who create minutes for our meetings
	3. No questions.
10. **Wireless Broadband Alliance (WBA) liaision**
	1. The liaison can be found in the IEEE 802.11 members’ area, as the WBA have requested limited distribution of their document: <https://www.ieee802.org/11/private/liaisons/WBA_2023_Get_Ready_for_Wi-Fi_7%20-%20LS%20to%20IEEE%20802.11.pdf>.
	2. The chair of the WBA Wi-Fi 7 working group outlined the document within the members area and did not present the document itself.
	3. The document explores various key use cases and how Wi-Fi 7 can be applied to different deployment scenarios, including enterprise, residential, and public spaces.
	4. No questions.
11. **Corrigendum 2**
	1. This is short presentation of the IEEE 802.11-2020 Corrigendum 2 draft that is in the members’ area: <https://www.ieee802.org/11/private/Draft_Standards/11-2020-cor2/Draft%20P802.11-2020_Cor2_D1.0.pdf>.
	2. The corrigendum is required as an 11bc ANQP element value conflicted with another ANQP element value that was already assigned in IEEE 802.11-2020. As this is a technical change a new corrigendum is required to make the change.
	3. C: This is slightly confusing, as it is a corrigendum to IEEE 802.11-2020. Perhaps we should add a note about this. A note was added in corrigendum 1 to help the reader understand what is happening.
	4. C: There is another amendment that has also updated the same table.
	5. C: Regarding the Cor 2 PAR, it is on the RevCom agenda for a September 20th meeting. It is assumed that the PAR should be approved at this meeting.
	6. C: As soon as the PAR is approved, an SA ballot pool invitation will be opened for the Cor 2 SA ballot.
12. **Working Group Motions (Old Business)** (11-23-1363r0)
	1. **Motion 1: IEEE 802.11-2020/Cor2 Letter Ballot**
		1. **Provided the 802.11-2020/Cor2 PAR is approved by the IEEE SASB, approve a 30-day Working Group Technical Letter Ballot asking the question ‘‘Should P802.11-2020/Cor 2 D1.0 be forwarded to SA Ballot?”**
		2. Moved: Marc Emmelmann, Second: Mike Montemurro
		3. Result: Unanimous Consent
13. **Any other Business (AoB)**
	1. **IEEE Annual Elections**
	2. The elections are currently underway for all senior positions. Please can you look at the election web-site and vote. (see picture in the WG minutes folder).
14. **Recess**
	1. Meeting recessed at 14.43 ET.

**Friday, September 15th, 2023**

**IEEE 802.11 Closing Plenary**

Call to order at 08:01 ET by Robert Stacey (Intel).

There were 54 people in the meeting (in the room) and 168 on Webex (201 IMAT).

1. **Approve/modify working group agenda** (11-23-1331r4)
	1. Chair: There have been some minor changes to the agenda since the mid-week plenary.
	2. **Approve the agenda for the today’s meeting as shown in 11-23-1331r4.**
		1. Moved: Harry Bims, 2nd: Al Petrick
		2. No objection to approving by unanimous consent.
2. **Announcements** (11-23-1333r3)
	1. **Participation** (slides #13 - #15)
		1. Please can you all remember to read this slide and understand that everyone is here as an individual subject matter expert.
	2. **Call for Essential Patents** (slide #16)
		1. This is the Call for Essential Patents.
		2. No statements.
		3. No questions.
	3. **Meeting Decorum** (slide #17)
		1. No questions.
	4. **Next session and CAC meetings** (slide #18)
		1. The next session of the IEEE 802.11 working group is from November 12-17, 2023. It will be a mixed mode session in Honolulu, Hawaii, USA.
		2. Please be aware of the chair’s committee meetings (CAC), the first one of which will be on October 9th at 09:00 ET. Please note the deadline for the sub-group agendas.
	5. **Letters of Assurance (LoA)** (slide #19)
		1. Chair: please remember about the LoA requirements.
		2. There are three open LoA requests at the moment.
		3. No questions.
	6. **IEEE Store and ISO SC6** (slides #20 - #21)
		1. This is summary of drafts that have been liaised to ISO/IEC.
		2. No questions.
	7. **Social Media** (slide #22)
		1. There are several recent updates to the social media blogs. Please look at the blog references mentioned on the slide.
		2. There will be an IEEE 802 related webinar in the October time frame.
		3. No questions.
	8. **IEEE 802 Public Visibility Standing Committee** (slide #23)
		1. This IEEE 802 group is designed to increase the external visibility of IEEE 802.
		2. No questions.
	9. **IEEE 802.11 Public Visibility Standing** (slide #24)
		1. This slide shows some recent IEEE 802.11 events.
		2. No questions.
3. **Treasury Report** (ec-23-0003r6)
	1. VC1: This shows the treasurers’ report and is correct as of August 31st, 2023.
	2. The treasury is slowly increasing in value, but not at a rate to be concerned about.
	3. For this meeting, there were 527 people who registered and there has been a small loss.
	4. There were 30 people who initially mentioned that they would be attending the meeting in person and who did not turn up. Therefore, we overestimated the amount of food and beverages. Please tell us if you change your mind about attending in person.
	5. Regarding deadbeats, everyone has paid their registration fees for this meeting.
	6. Q: It looks as though the mixed mode model will remain going forward. Can you calculate the profit from the people who attend remotely?
	7. A: It’s about $60,000 extra for the mixed-mode operation, so this needs to be covered by external attendees.
	8. C: The 6 IEEE 802 meetings in 2024 will all be mixed-mode.
4. **September 2023 Venue Straw Polls** (11-23-1340r2 - slide #18)
	1. Only people present in the room were asked to participate in the following straw polls:
	2. **1. How many people would like to come back to this venue?**
		1. Yes: 39
		2. No: 3
	3. **2. Did you go to the social?**
		1. Yes: 40
		2. No: 6
	4. **3. If you attended the social, did you enjoy it?**
		1. Yes: 36
		2. No: 1
		3. VC-1: If we came back here to Buckhead, how many people would like to return to the same social venue?
		4. Most people in the room said yes.
5. **Future Venue Straw Polls** (11-23-1363r3)
	1. **November 2023**
	2. **1. If the 2023 November 802 Plenary Session were held at the Hilton Hawaiian Village, Honolulu, as an in-person only session, would you attend?**
	3. Yes: 65
	4. No: 40
	5. Abstain: 6
	6. **2. If the 2023 November 802 Plenary Session were held at the Hilton Hawaiian Village, Honolulu, as mixed-mode session, will you attend?**
	7. Attend In-person: 54
	8. Attend Virtually (remotely): 34
	9. Will not attend plenary: 8
	10. **January 2024**
	11. **1. If the 2023 September 802 Interim Session were held at the Grand Hyatt, Buckhead, Atlanta, as an in-person only session, would you attend?**
	12. Yes: 60
	13. No: 43
	14. Abstain: 7
	15. **2. If the 2023 September 802 Interim Session were held at the Grand Hyatt, Buckhead, Atlanta, as a mixed-mode session, will you attend?**
	16. Attend In-person: 53
	17. Attend Virtually (remotely): 55
	18. Will not attend: 7
	19. **Comments**
	20. Q: Please can you create a graph of these results overtime?
	21. A: Yes, we’ll work on that.
6. **Future Venues Manager Report** (11-23-1340r2 slide #21)
	1. This slide shows some updates for the future interims in 2025 – 2027, which are now being populated.
	2. Slide #22 shows the future plenaries. There are still quite a few that were re-scheduled from the pandemic. However, there are a few gaps appearing in 2025 – 2027 shown in green.
	3. We have not received any feedback from the Marriott Madrid for July 2025, so there is a possibility that this one will change.
	4. Q: Regarding Marriott, this meeting is also back to back with the IETF in the same city. It may be worthwhile talking to them.
	5. A: Thanks, and I’ll contact the IETF people about that.
	6. Q: Barcelona would also be another solution, where the Mobile World Congress is held.
	7. A: Yes, but the hotels near that venue have different business models for room allocations that do not suit IEEE 802.
	8. Q: Another option is to hold a meeting in New Zealand, then everyone would only attend online.
	9. A: Yes, that sort of arrangement has been mentioned before.
	10. Q: On this slide #22, there is only 1 Asia venue, so I think that needs to be considered going forward.
	11. A: Yes. Because of the pandemic, plenary venues were re-arranged for 2024 and so Vancouver replaced an Asian venue. The venue committee is trying to re-arrange this and there are discussions about visiting Hong Kong/Macau/Sanja in 2026.
	12. Q: Can you change the title of slide #22 to “future plenaries”
	13. A: Yes
	14. No questions.
7. **Timeline update**
	1. The order of the 11bh amendment will be moved ahead of 11be and there are also some minor updates to be made. The timeline chart should be updated shortly.
	2. Chair: The order of 11be and 11bh was decided by the chair, during the CAC meeting last night.
	3. No questions.
8. **Attendance statistics** (11-23-1338r2 slide #4)
	1. VC-2: These slides are a summary of the attendance statistics and sub-group activities during this session. The numbers have been increasing slowly over the last couple of years and this session is almost a historic high for IEEE 802.11.
9. **WG Committee Reports** (11-23-1338r2)
	1. **Editors** (slide #11)
		1. Slide #16 shows the current amendment ordering.
		2. The meeting addressed the issues coming out of the 11be mandatory draft review (MDR).
		3. As mentioned earlier, 11bh will move ahead of 11be.
		4. No questions.
	2. **ARC SC** (slide #19)
		1. The group discussed the IEEE Std 802 revision activity (P802REVc).
		2. Discussions about Annex G also continued.
		3. No questions.
	3. **Coex SC** (slide #25)
		1. There have been many issues discussed during the session.
		2. The plans for November include updates from ETSI BRAN and the Bluetooth SIG.
		3. No questions.
	4. **WNG** **SC** (slide #31)
		1. There were 2 presentations this session:
		* “Machine learning meets WiFi 7: a multi-link traffic allocation-based RL use case,” Pedro Riviera and Melike Erol-Kantarci (University of Ottawa), 11-23-1579r11
		* “Dynamic Polarization Spatial Multiplexing and Beamforming: Obliterating the MIMO Paradigm,” Carlos Rios (Terabit Wireless Internet), 11-23-1464r1
		1. No questions.
	5. **JTC1 SC** (slide #34)
		1. The meeting covered the status of various IEEE 802 amendments going through the PSDO process.
		2. There are still some IPR issues that are slowing progress between IEEE and ISO.
		3. No questions.
	6. **TGme** (slide #37)
		1. This session, the group is in an initial SA ballot, so the time was taken to discuss various topics that required more time.
		2. There will be an ad-hoc in Octobe 10-12, 2023 in Toronto, Canada. This was approved at the July 2023 session.
		3. No questions
	7. **TGbe** (slide #42)
		1. There were 9 meetings in this session processing comment resolutions from LB275. There hopefully will be a D4.1 towards the end of September.
		2. No questions.
	8. **TGbf** (slide #46)
		1. Comment resolutions from the previous D2.0 letter ballot (LB276) were worked on.
		2. No questions
	9. **TGbh** (slide #51)
		1. The group is working on comments from the D1.0 letter ballot (LB274). About half of the comments have been resolved.
		2. The group needs to work on a response to various WBA liaisons and there will be a dedicated teleconference for this activity.
		3. No questions.
	10. **TGbi** (slide #57)
		1. The group met 4 times during the session and discussed various topics regarding multi-link operation and how it affects the work of the group.
		2. No questions.
	11. **TGbk** (slide #61)
		1. The group is now working on D0.7 and is progressing well. It is hoped that an initial letter ballot will come out of the November 2023 session.
		2. No questions.
	12. **UHR SG** (slide #65)
		1. There were 24 contributions presented in 5 meetings during this session.
		2. The work is progressing well and it is hoped to transition to TGbn in November 2023.
		3. No questions.
	13. **AMP SG** (slide #68)
		1. There were 4 meetings of this study group during the session, discussing the PAR and CSD. However, these were not finished.
		2. No questions.
	14. **AIML TIG** (slide #71)
		1. There were 4 meetings during the session.
		2. The technical report has been updated but is not complete. Therefore, the TIG would like to request an extension to the TIG.
		3. Chair: I will extend the AIML TIG until November 2023, to allow them to complete their report.
		4. No questions.
10. **Working Group Motions (Old Business)** (11-23-1363r3)
	1. **Motion 2: TGme ad-hoc**
		1. **Authorize TGme to hold a mixed mode ad-hoc meeting on December 7 and 8 (Thursday and Friday) in Piscataway, NJ, for the purpose of SA ballot comment resolution.**
		2. Moved: Mike Montemurro on behalf of TGme
		3. Result: Unanimous Consent (motion passes)
		4. [TGme: Moved: Jon Rosdahl, Second: Mark Hamilton, Result: unanimous consent, 18 voters present]
	2. **Motion 3: P802.11REVme D4.0 in IEEE Store**
		1. **Approve P802.11REVme D4.0 to be available for purchase from the IEEE Store.**
		2. Moved by Mark Hamilton, Second: Edward Au
		3. Result: Yes: 93, No: 0, Abstain: 0 (motion passes)
	3. **Motion 4: TGbe ad-hoc**
		1. **Authorize TGbe to hold an ad-hoc meeting on 9-10 November 2023, in San Diego, CA, USA, for the purpose of letter ballot comment resolution and consideration of document submissions.**
		2. Moved: Alfred Asterjadhi on behalf of TGbe
		3. Result: unanimous consent (motion passes)
		4. [TGbe: Moved: Laurent Cariou, 2nd: George Cherian, Results: unanimous consent]
	4. **Motion 5: P802.11be D4.0 in IEEE Store**
		1. **Approve P802.11be D4.0 to be available for purchase from the IEEE Store.**
		2. Moved by Alfred Asterjadhi, Second: Alecsander Eitan
		3. Result: Yes: 77, No: 0, Abstain: 0 (motion passes)
	5. **Motion 6: P802.11bf D2.0 in IEEE Store**
		1. **Approve P802.11bf D2.0 to be available for purchase from the IEEE Store.**
		2. Moved by Tony Xiao Han, Second: Ian Sherlock
		3. Result: Yes: 71, No: 0, Abstain: 3 (motion passes)
11. **Any other Business (AoB)**
	1. **Lost property**
	2. There are a few items which have been lost this session at the front desk and also one from the July (Berlin) meeting.
12. **Wireless Chairs Meeting** (11-23-1333r3 slide #25)
	1. The next meeting is on October 11 at 15:00 ET. Please contact the IEEE 802.11 WG chair or vice-chairs with a request for more information.
13. **Next Session**
	1. The date of the next IEEE 802.11 WG session is November 12-17th, 2023 in Honolulu, Hawaii, USA and is a mixed mode session.
14. **Adjournment**
	1. Having completed the agenda, the chair announced that the meeting was adjourned at 10:21 ET.

**Annex A: Attendance & Affiliation**

| **Name** | **Affiliation** | **Attended >= 75%?** | **Status** |
| --- | --- | --- | --- |
| Abdelaal, Rana  | Broadcom Corporation | TRUE | Voter  |
| AbidRabbu, Shaima'  | Istanbul Medipol University; Vestel | 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  |
| Ahmad, Tufail  | koc university, vestel | TRUE | Aspirant  |
| Aio, Kosuke  | Sony Corporation | TRUE | Voter  |
| Ajami, Abdel Karim  | Qualcomm Technologies, Inc | TRUE | Voter  |
| Akhmetov, Dmitry  | Intel | TRUE | Voter  |
| Alayedi, Mohanad  | Istanbul Medipol University, Vestel | TRUE | Aspirant  |
| Al-Baidhani, Amer  | NXP Semiconductors | TRUE | Voter  |
| Aldana, Carlos  | Facebook | FALSE | Voter  |
| Ali, Sawaira  | Istanbul Medipol University, Vestel | TRUE | Aspirant  |
| Ansley, Carol  | Cox Communications Inc. | TRUE | Voter  |
| Anwyl, Gary  | MediaTek Inc. | TRUE | Voter  |
| Arrington, Arthur  | Air Network Solutions | TRUE | Potential Voter |
| Asai, Yusuke  | Nippon Telegraph and Telephone Corporation (NTT) | TRUE | Voter  |
| Asterjadhi, Alfred  | Qualcomm Technologies, Inc | TRUE | Voter  |
| Au, Kwok Shum  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Aygul, Mehmet  | VESTEL; IMU | TRUE | Voter  |
| Azizi, Shahrnaz  | Intel | TRUE | Potential Voter |
| B, Hari Ram  | NXP Semiconductors | TRUE | Voter  |
| Baek, SunHee  | LG ELECTRONICS | TRUE | Voter  |
| Bahn, Christy  | IEEE STAFF | TRUE | Voter  |
| Bajko, Gabor  | MediaTek Inc. | TRUE | Voter  |
| Bankov, Dmitry  | IITP RAS | TRUE | Voter  |
| Bansal, Priyanka  | NXP Semiconductors | 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, Christian  | NXP Semiconductors | TRUE | Voter  |
| Bhandaru, Nehru  | Broadcom Corporation | TRUE | Voter  |
| Bian, Tong  | Panasonic | TRUE | Potential Voter |
| Bims, Harry  | Bims Laboratories, Inc. | TRUE | Voter  |
| Borges, Daniel  | Apple, Inc. | TRUE | Voter  |
| Bower, Patricia  | HaiLa Technologies Inc | FALSE | Aspirant  |
| Bredewoud, Albert  | Broadcom Corporation | TRUE | Voter  |
| Campiglio, Ugo  | Cisco Systems, Inc. | TRUE | Potential Voter |
| Cao, Rui  | NXP Semiconductors | TRUE | Voter  |
| Cariou, Laurent  | Intel | TRUE | Voter  |
| Carney, William  | Sony Group Corporation | TRUE | Voter  |
| Cavalcanti, Dave  | Intel | TRUE | Voter  |
| Cepni, Gurkan  | Apple, Inc. | TRUE | Voter  |
| Cha, Dongju  | LG ELECTRONICS | TRUE | Potential Voter |
| Chang, Chen-Yi  | Mediatek | TRUE | Voter  |
| Chappell, Matthew  | Cox Communications Inc. | FALSE | Voter  |
| Chay, Dor  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Chemrov, Kirill  | IITP RAS | TRUE | Voter  |
| Chen, Cheng  | Intel Corporation | TRUE | Voter  |
| Chen, Shuqiao  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Chen, Xiaogang  | Spreadtrum Communication USA, Inc | TRUE | Voter  |
| Chen, You-Wei  | MediaTek Inc. | TRUE | Voter  |
| Cheng, Ching-Chia  | MediaTek Inc. | TRUE | Potential Voter |
| Cheng, Paul  | MediaTek Inc. | TRUE | Voter  |
| CHENG, yajun  | Xiaomi Communications Co., Ltd. | TRUE | Voter  |
| CHERIAN, GEORGE  | Qualcomm Incorporated | TRUE | Voter  |
| Chitrakar, Rojan  | Huawei International Pte Ltd | TRUE | Voter  |
| Chiu, WenHsien  | MediaTek Inc. | FALSE | Voter  |
| Cho, Hangyu  | LG ELECTRONICS | FALSE | Voter  |
| Choi, Jinsoo  | LG ELECTRONICS | TRUE | Voter  |
| Chou, Tzu-Hsuan  | Qualcomm Incorporated | TRUE | Voter  |
| Chu, Liwen  | NXP Semiconductors | TRUE | Voter  |
| CHUN, JINYOUNG  | LG ELECTRONICS | TRUE | Voter  |
| Chung, Bruce  | Realtek Semiconductor Corp. | TRUE | Voter  |
| Chung, Chulho  | SAMSUNG | TRUE | Voter  |
| Ciochina, Dana  | Sony Corporation | TRUE | Voter  |
| Coffey, John  | Realtek Semiconductor Corp. | TRUE | Voter  |
| Contreras Albesa, Javier  | Cisco Systems, Inc. | TRUE | Potential Voter |
| Cordeiro, Carlos  | Intel | TRUE | Voter  |
| da Silva, Claudio  | Meta Platforms; PWC, LLC | TRUE | Voter  |
| Das, Dibakar  | Intel corporation | TRUE | Voter  |
| Das, Subir  | Peraton Labs | TRUE | Voter  |
| Dash, Debashis  | Apple, Inc. | TRUE | Voter  |
| Dauphinee, Leonard  | MaxLinear Corp | TRUE | Voter  |
| de Vegt, Rolf  | Qualcomm Incorporated | TRUE | Voter  |
| DeLaOlivaDelgado, Antonio  | InterDigital, Inc. | TRUE | Voter  |
| Derham, Thomas  | Broadcom Corporation | TRUE | Voter  |
| DESMOULIN, Patrice  | Orange | TRUE | Voter  |
| Dong, Xiandong  | Xiaomi Communications Co., Ltd. | TRUE | Voter  |
| Du, Rui  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Du, Zhenguo  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Eitan, Alecsander  | Qualcomm Technologies, Inc. | TRUE | Voter  |
| ElSherif, Ahmed  | Qualcomm Incorporated | TRUE | Voter  |
| EMMELMANN, MARC  | SELF | TRUE | Voter  |
| Erceg, Vinko  | Broadcom Corporation | TRUE | Voter  |
| Erkucuk, Serhat  | Ofinno | TRUE | Voter  |
| Fang, Juan  | Intel | TRUE | Voter  |
| Fang, Yonggang  | MediaTek Inc. | TRUE | Voter  |
| feng, Shuling  | MediaTek Inc. | TRUE | Voter  |
| Ficara, Domenico  | Cisco Systems, Inc. | TRUE | Potential Voter |
| Fischer, Matthew  | Broadcom Corporation | TRUE | Voter  |
| Fletcher, Paul  | Samsung Cambridge Solution Center | TRUE | Voter  |
| 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 | Potetial Voter |
| Gao, Ning  | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter  |
| Ghosh, Chittabrata  | Apple Inc. | TRUE | Voter  |
| Gilb, James  | General Atomics Aeronautical Systems, Inc. | FALSE | Voter  |
| Godfrey, Tim  | Electric Power Research Institute, Inc. (EPRI) | FALSE | Voter  |
| Gong, Bo  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Gorthi, Hemamali  | Infineon Technologies | TRUE | Voter  |
| Goto, Fumihide  | DENSO | TRUE | Voter  |
| Grandhe, Niranjan  | NXP Semiconductors | TRUE | Voter  |
| Gu, Junrong  | Clourney Semiconductor | FALSE | Aspirant  |
| 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, Binita  | Meta Platforms, Inc. | TRUE | Voter  |
| gutierrez, luis  | Broadcom Corporation | TRUE | Voter  |
| Ha, Taeyoung  | Samsung Electronics Co., Ltd. | TRUE | Potential Voter |
| Haider, Muhammad Kumail  | Meta Platforms Inc. | TRUE | Voter  |
| Halasz, David  | Morse Micro | TRUE | Voter  |
| hamidouche, kenza  | Apple Inc. | TRUE | Voter  |
| Hamilton, Mark  | Ruckus/CommScope | TRUE | Voter  |
| HAN, Xiao  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Handte, Thomas  | Sony Group Corporation | TRUE | Voter  |
| Harkins, Daniel  | Hewlett Packard Enterprise (Aruba Networks) | TRUE | Voter  |
| Harrison, Edward  | Anritsu Company | TRUE | Voter  |
| Hart, Brian  | Cisco Systems, Inc. | TRUE | Voter  |
| Hawkes, Philip  | Qualcomm Incorporated | FALSE | Voter  |
| He, Chuanfeng  | Beijing OPPO telecommunications corp., ltd | TRUE | Voter  |
| He, Ziming  | Samsung Cambridge Solution Centre | TRUE | Voter  |
| Hedayat, Ahmadreza  | Apple Inc. | TRUE | Voter  |
| Helmy, Ahmed  | Apple Inc. | TRUE | Potential Voter |
| Henry, Jerome  | Cisco Systems, Inc. | TRUE | Voter  |
| Hernandez, Marco  | National Institute of Information and Communications Technology (NICT) | FALSE | Voter  |
| Hervieu, Lili  | Cable Television Laboratories Inc. (CableLabs) | TRUE | Voter  |
| Hiertz, Guido  | Ericsson GmbH | TRUE | Voter  |
| Hirata, Ryuichi  | Sony Group Corporation | TRUE | Voter  |
| Ho, Duncan  | Qualcomm Incorporated | TRUE | Voter  |
| Hsiao, Ching-Wen  | MediaTek Inc. | FALSE | Voter  |
| Hsieh, Hung-Tao  | MediaTek Inc. | TRUE | Voter  |
| Hsu, Chien-Fang  | MediaTek Inc. | TRUE | Voter  |
| Hsu, Ostrovsky  | Xiaomi Communications Co., Ltd. | TRUE | Voter  |
| Hu, Chunyu  | Spreadtrum Communications USA | TRUE | Voter  |
| Hu, Mengshi  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Hu, Shengquan  | MediaTek Inc. | TRUE | Voter  |
| Huang, Guogang  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| huang, kaikai  | Nokia | TRUE | Potential Voter |
| Huang, Lei  | Huawei International Pte Ltd | TRUE | Voter  |
| Huang, Po-Kai  | Intel Corporation | TRUE | Voter  |
| Huang, Qisheng  | ZTE Corporation | TRUE | Voter  |
| Hwang, Sung Hyun  | Electronics and Telecommunications Research Institute (ETRI) | TRUE | Voter  |
| Inohiza, Hirohiko  | Canon | TRUE | Voter  |
| Iranzo, Salvador  | MaxLinear Corp | TRUE | Voter  |
| Jang, Insun  | LG ELECTRONICS | TRUE | Voter  |
| Jeffries, Timothy  | Futurewei Technologies | TRUE | Voter  |
| Jen, Elliot YuChih  | Samsung Research America | TRUE | Voter  |
| Jeon, Eunsung  | SAMSUNG ELECTRONICS | TRUE | Voter  |
| Ji, Chenhe  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| jiang, feng  | Apple Inc. | TRUE | Voter  |
| Jiang, Jinjing  | Apple, Inc. | FALSE | Aspirant  |
| John, Toby  | Verizon | FALSE | Voter  |
| Jones, Vincent Knowles IV  | Qualcomm Incorporated | TRUE | Voter  |
| Juarez, Jorge  | Fraunhofer IIS | FALSE | Voter  |
| Jung, Insik  | LG ELECTRONICS | TRUE | Voter  |
| Jungnickel, Volker  | Fraunhofer Heinrich Hertz Institute | TRUE | Voter  |
| Kadampot, Ishaque Ashar  | Qualcomm Technologies, Inc. | TRUE | Voter  |
| Kain, Carl  | USDOT; Noblis, Inc | TRUE | Voter  |
| Kakani, Naveen  | Qualcomm Incorporated | TRUE | Voter  |
| Kamel, Mahmoud  | InterDigital, Inc. | TRUE | Voter  |
| Kancherla, Sundeep  | Infineon Technologies | TRUE | Voter  |
| Kandala, Srinivas  | SAMSUNG | TRUE | Voter  |
| KANG, Kyu-Min  | Electronics and Telecommunications Research Institute (ETRI) | TRUE | Voter  |
| Kasargod, Sudhir  | Infineon Technologies | TRUE | Voter  |
| Kennedy, Richard  | Bluetooth SIG | TRUE | Voter  |
| Kerry, Stuart  | OK-Brit; Self | TRUE | Voter  |
| Keshmiri, Francis  | Huawei Technologies France | TRUE | Potential Voter |
| Kezys, Vytas  | HaiLa | TRUE | Voter  |
| Khan, Naseem  | Leidos Engineering. LLC | FALSE | Voter  |
| Khericha, samir  | broadcom | TRUE | Voter  |
| Khorov, Evgeny  | IITP RAS | TRUE | Voter  |
| Kim, Geon Hwan  | LG ELECTRONICS | TRUE | Voter  |
| Kim, Jeongki  | Ofinno | TRUE | Voter  |
| Kim, Myeong-Jin  | SAMSUNG | TRUE | Voter  |
| Kim, Sang Gook  | LG ELECTRONICS | TRUE | Voter  |
| Kim, Sanghyun  | WILUS Inc | TRUE | Voter  |
| Kim, Yongho  | Korea National University of Transportation | TRUE | Voter  |
| Kim, Youhan  | Qualcomm Technologies, Inc. | TRUE | Voter  |
| Kishida, Akira  | Nippon Telegraph and Telephone Corporation (NTT) | TRUE | Voter  |
| Kitazawa, Shoichi  | Muroran IT | FALSE | Voter  |
| Klein, Arik  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Kneckt, Jarkko  | Apple, Inc. | TRUE | Voter  |
| Koundourakis, Michail  | Samsung Cambridge Solution Centre | TRUE | Voter  |
| Krebs, Alexander  | Apple, Inc. | TRUE | Voter  |
| Ku, Chung-Ta  | MediaTek Inc. | TRUE | Voter  |
| Kumar, Manish  | NXP Semiconductors | TRUE | Voter  |
| Kumbhkar, Ratnesh  | Intel Corporation | FALSE | Non-Voter |
| Kuo, Chih-Chun  | MediaTek Inc. | TRUE | Voter  |
| Kureev, Aleksey  | IITP RAS | TRUE | Voter  |
| Kwak, Jin-Sam  | WILUS Inc. | TRUE | Potential Voter |
| Lalam, Massinissa  | SAGEMCOM BROADBAND SAS | TRUE | Voter  |
| Lan, Zhou  | Apple Inc. | TRUE | Voter  |
| Lanante, Leonardo  | Ofinno | TRUE | Voter  |
| Lansford, James  | Farafir Consulting; University of Colorado at Boulder | FALSE | Voter  |
| Lee, Hong Won  | LG ELECTRONICS | FALSE | Aspirant  |
| LEE, JOONSOO  | Newracom Inc. | 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, Guoqing  | Meta | TRUE | Potential Voter |
| Li, Jialing  | Qualcomm Technologies, Inc | TRUE | Voter  |
| Li, Qinghua  | Intel | TRUE | Voter  |
| Li, Weiyi  | Spreadtrum Communication USA, Inc | TRUE | Voter  |
| Li, Xin  | Huawei Technologies Co., Ltd | FALSE | Aspirant  |
| li, yan  | ZTE Corporation | FALSE | Voter  |
| Li, Yanchun  | Huawei Technologies France S.A.S.U. | TRUE | Potential Voter |
| Li, Yapu  | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter  |
| Li, Ying  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| li, yun  | ZTE Corporation | TRUE | Potential Voter |
| Li, Yunbo  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Lim, Dong Guk  | LG ELECTRONICS | TRUE | Voter  |
| Lim, Yeon Geun  | Newracom Inc. | TRUE | Aspirant  |
| Lin, Hsin-De  | MediaTek Inc. | FALSE | Voter  |
| Lin, Wei  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Lin, Zinan  | InterDigital, Inc. | TRUE | Voter  |
| LIU, CHENCHEN  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| liu, dekun  | Huawei Technologies Co., Ltd | TRUE | Potential 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 | TRUE | Voter  |
| Liu, Ying  | NXP Semiconductors | TRUE | Voter  |
| Liu, Yong  | Apple, Inc. | TRUE | Voter  |
| Loginov, Vyacheslav  | IITP RAS | TRUE | 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. | TRUE | Voter  |
| Lu, kaiying  | MediaTek Inc. | TRUE | Voter  |
| Lu, Liuming  | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter  |
| Luo, Chaoming  | Beijing OPPO telecommunications corp., ltd. | TRUE | Voter  |
| Luo, Hui  | Infineon Technologies | TRUE | Aspirant  |
| Ma, Jing  | Toyota Motor Corporation | TRUE | Aspirant  |
| Ma, Li  | MediaTek Inc. | FALSE | Voter  |
| Ma, Yongsen  | SAMSUNG ELECTRONICS | TRUE | Voter  |
| Ma, Yunsi  | Huawei Technologies Co., Ltd; Shanghai Hisilicon | TRUE | Voter  |
| Madni, Haji Muhammad  | Vestel | TRUE | Potential Voter |
| Madpuwar, Girish  | Synaptics | TRUE | Voter  |
| Maguluri, Anilkumar  | Synaptics | TRUE | Potential Voter |
| Mak, Siukai  | Broadcom Corporation | TRUE | Voter  |
| Malinen, Jouni  | Qualcomm Technologies, Inc | TRUE | Voter  |
| Mano, Hiroshi  | Koden Techno Info K.K. | TRUE | Voter  |
| MAO, ZHI  | Huawei Technologies Co., Ltd | 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 | Aspirant  |
| Mehta, Mehul  | Pharrowtech BV | TRUE | Potential  |
| MELZER, Ezer  | Toga Networks, a Huawei company | TRUE | Voter  |
| Minayi Jalil, Amir  | Aerial Technologies | FALSE | Non-Voter |
| Minotani, Jun  | Panasonic Corporation | TRUE | Voter  |
| Miwa, Shinya  | Canon Research Centre France | TRUE | Voter  |
| Moelker, Dignus-Jan  | Broadcom Corporation | TRUE | Voter  |
| Mohamed Hassan Salem, Nedime Pelin  | Cisco Systems, Inc. | TRUE | Aspirant  |
| Monajemi, Pooya  | Apple Inc. | TRUE | Voter  |
| Montemurro, Michael  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Moon, Juseong  | Korea National University of Transportation | TRUE | Voter  |
| Motozuka, Hiroyuki  | Panasonic Holdings Corporation | TRUE | Voter  |
| Mueller, Robert  | Ilmenau University of Technology - TU Ilmenau | FALSE | Voter  |
| Mutgan, Okan  | Technische Universitaet Ilmenau | TRUE | Voter  |
| Nagai, Yukimasa  | Nokia | TRUE | Potential Voter |
| Naik, Gaurang  | Mitsubishi Electric Research Labs (MERL) | TRUE | Voter  |
| Nam, Junyoung  | Qualcomm Technologies, Inc | TRUE | Voter  |
| Namboodiri, Vamadevan  | Qualcomm Incorporated | TRUE | Voter  |
| Namvar, Nima  | SAMSUNG ELECTRONICS | TRUE | Voter  |
| NANDAGOPALAN, SAI SHANKAR  | Charter Communications | TRUE | Voter  |
| narengerile, narengerile  | Synaptics | TRUE | Voter  |
| Nassiri Toussi, Karim  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Nayak, Peshal  | Broadcom Corporation | TRUE | Voter  |
| Neishaboori, Azin  | Samsung Research America | TRUE | Potential Voter |
| Nezou, Patrice  | General Motors Company | TRUE | Voter  |
| Ng, Boon Loong  | Canon Research Centre France | TRUE | Voter  |
| Nguyen, An  | Samsung Research America | TRUE | Voter  |
| Nikolich, Paul  | DHS/CISA | FALSE | Voter  |
| Noh, Si-Chan  | Newracom Inc. | TRUE | Voter  |
| Nurani Krishnan, Neelakantan  | Apple Inc. | TRUE | Potential Voter |
| Ohmoto, Ryutaro  | Nihon Dengyo Kosaku Co. Ltd. | TRUE | Voter  |
| Olip, John  | Broadcom Corporation | TRUE | Observer  |
| Orlando, Christian  | IEEE STAFF | FALSE | Non-Voter |
| Orr, Stephen  | Cisco Systems, Inc. | TRUE | Voter  |
| Pakrooh, Pooria  | Qualcomm Technologies, Inc. | FALSE | Potential Voter |
| Palayur, Saju  | Maxlinear Corp | TRUE | Voter  |
| Pandey, Sheetal  | Synaptics Inc. | TRUE | Voter  |
| Pare, Thomas  | MediaTek Inc. | TRUE | Voter  |
| Park, Eunsung  | LG ELECTRONICS | TRUE | Voter  |
| Park, Minyoung  | Intel | FALSE | Voter  |
| Park, Sungjin  | senscomm | TRUE | Voter  |
| Patil, Abhishek  | Qualcomm Incorporated | TRUE | Voter  |
| Patil, Sandhya  | Synaptics | TRUE | Potential Voter |
| Patwardhan, Gaurav  | Hewlett Packard Enterprise | TRUE | Voter  |
| Peng, Lan  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Perahia, Eldad  | Hewlett Packard Enterprise | TRUE | Voter  |
| Petrick, Albert  | InterDigital, Inc. | TRUE | Voter  |
| Petry, Brian  | Broadcom Corporation | TRUE | Voter  |
| Pettersson, Charlie  | Ericsson AB | TRUE | Voter  |
| porat, ron  | Broadcom Corporation | TRUE | Voter  |
| Pottigari, Sachin  | NXP Semiconductors | TRUE | Voter  |
| Puducheri, Srinath  | Broadcom Corporation | TRUE | Voter  |
| Qassem, Ebrahem  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Qi, Emily  | Intel corporation | TRUE | Voter  |
| Qi, Yinan  | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter  |
| Qi, Yue  | Samsung Research America | TRUE | Voter  |
| QIAN, BIN  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Quan, Yingqiao  | Spreadtrum | TRUE | Voter  |
| Rafique, Saira  | Istanbul Medipol University; Vestel | TRUE | Voter  |
| Rai, Kapil  | Qualcomm Incorporated | TRUE | Voter  |
| Raissinia, Alireza  | Qualcomm Incorporated | TRUE | Voter  |
| Ratnam, Vishnu  | Samsung Research America | TRUE | Voter  |
| Redlich, Oded  | Huawei Technologies Co., Ltd | FALSE | Voter  |
| Redmore, Josh  | Cable Television Laboratories Inc. (CableLabs) | TRUE | Voter  |
| REICH, MOR  | Togan Networks, a Huawei Company | TRUE | Voter  |
| Rezk, Meriam  | Qualcomm Technologies, Inc | TRUE | Voter  |
| Riegel, Maximilian  | Nokia | TRUE | Voter  |
| Rios, Carlos  | Terabit Wireless Internet LLC | TRUE | Aspirant  |
| RISON, Mark  | Samsung Cambridge Solution Centre | TRUE | Voter  |
| Robert, Joerg  | TU Ilmenau, Fraunhofer IIS | FALSE | Voter  |
| Rodriguez, Stephen  | Cisco Systems, Inc. | TRUE | Voter  |
| Rosdahl, Jon  | Qualcomm Technologies, Inc. | TRUE | Voter  |
| Roy, Sayak  | NXP Semiconductors | TRUE | Voter  |
| Ryu, Kiseon  | NXP Semiconductors | TRUE | Voter  |
| Sand, Stephan  | German Aerospace Center (DLR) | TRUE | Voter  |
| Sanderovich, Amichai  | Wiliot | TRUE | Voter  |
| Santra, Avik  | Infineon Technologies | TRUE | Voter  |
| Sato, Takuhiro  | SHARP CORPORATION | TRUE | Voter  |
| Schelstraete, Sigurd  | MaxLinear | TRUE | Voter  |
| Schweizer, Benedikt  | Apple Inc. | TRUE | Voter  |
| Segev, Jonathan  | Intel Corporation | FALSE | Voter  |
| Seo, Sangho  | Broadcom Corporation | TRUE | Voter  |
| Seok, Yongho  | MediaTek Inc. | TRUE | Voter  |
| Serizawa, Kazunobu  | Advanced Telecommunications Research Institute International (ATR) | TRUE | Voter  |
| Sethi, Ankit  | NXP Semiconductors | TRUE | Voter  |
| Sevin, Julien  | Canon Research Centre France | TRUE | Voter  |
| Shafin, Rubayet  | Samsung Research America | TRUE | Voter  |
| Sharma Banjade, Vesh Raj  | Intel; Intel Corporation | TRUE | Potential Voter |
| Shaw, Amit  | Infineon Technologies | TRUE | Voter  |
| Shayovitz, Shachar  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Shen, Andy  | Futurewei Technologies | TRUE | Voter  |
| Sherlock, Ian  | Texas Instruments Inc. | TRUE | Voter  |
| Shilo, Shimi  | Huawei Technologies Co., Ltd | FALSE | Voter  |
| Shirakawa, Atsushi  | SHARP CORPORATION | TRUE | Voter  |
| siaud, isabelle  | Orange | TRUE | Voter  |
| Sim, Michael  | Panasonic Corporation | TRUE | Aspirant  |
| Smith, Graham  | SRT Wireless | TRUE | Voter  |
| Smith, Luther  | Cable Technology Laboratories, Inc. | TRUE | Voter  |
| Son, Ju-Hyung  | WILUS Inc. | TRUE | Voter  |
| Song, Hao  | Intel Corporation | FALSE | Voter  |
| Sood, Ayush  | Infineon Technologies | TRUE | Voter  |
| Srinivasa, Sudhir  | NXP Semiconductors | TRUE | Voter  |
| Stacey, Robert  | Intel Corporation | TRUE | Voter  |
| Stott, Noel  | Keysight Technologies | TRUE | Voter  |
| SUH, JUNG HOON  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Sun, Bo  | Sanechips | TRUE | Voter  |
| Sun, Jiaqi  | China Mobile (Hangzhou) Information Technology Co., Ltd. | TRUE | Voter  |
| Sun, Li-Hsiang  | MediaTek Inc. | TRUE | Voter  |
| Sun, Yanbin  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Sun, Yanjun  | Qualcomm Incorporated | TRUE | Voter  |
| SURACI, FRANK  | U.S. Department of Homeland Security | TRUE | Voter  |
| SUZUKI, Shuntaro  | Yamaha Corporation | TRUE | Potential Voter |
| Szott, Szymon  | AGH University of Science and Technology | TRUE | Voter  |
| Takatori, Yasushi  | Nippon Telegraph and Telephone Corporation (NTT) | TRUE | Potential Voter |
| Talha, Mohd.  | NXP Semiconductors | TRUE | Voter  |
| Tanaka, Yusuke  | Sony Corporation | TRUE | Voter  |
| Tang, Hai  | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Aspirant  |
| Tang, Zhuqing  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| tantri Paniyoor, yatiraj  | Synaptics | TRUE | Aspirant  |
| Taori, Rakesh  | Infineon Technologies | TRUE | Voter  |
| Thakur, Sidharth  | Apple Inc. | TRUE | Voter  |
| Thota, Sri Ramya  | Infineon Technologies | TRUE | Voter  |
| Tian, Bin  | Qualcomm Incorporated | FALSE | Voter  |
| Tomeba, Hiromichi  | SHARP CORPORATION | TRUE | Voter  |
| Trainin, Solomon  | Wiliot | TRUE | Voter  |
| Tsai, Tsung-Han  | MediaTek Inc. | TRUE | Voter  |
| Tsodik, Genadiy  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| TU, Chunjiang  | Bestechnic INC. | TRUE | Voter  |
| Urabe, Yoshio  | Panasonic Holdings Corporation | TRUE | Voter  |
| Val, Inaki  | MaxLinear, Inc | TRUE | Voter  |
| Van Zelst, Allert  | Qualcomm Technologies Netherlands B.V. | TRUE | Voter  |
| Varshney, Prabodh  | Nokia | TRUE | Voter  |
| Verenzuela, Daniel  | Sony Group Corporation | TRUE | Voter  |
| Verma, Lochan  | Apple Inc. | FALSE | Voter  |
| Verma, Sindhu  | Broadcom Corporation | TRUE | Voter  |
| Vermani, Sameer  | Qualcomm Incorporated | TRUE | Voter  |
| Vicent Colonques, Santiago  | Maxlinear | TRUE | Voter  |
| VIGER, Pascal  | Canon Research Centre France | TRUE | Voter  |
| Wang, Bo  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Wang, Hao  | Tencent | FALSE | Voter  |
| Wang, Hejun  | Haier Group Corporation | TRUE | Voter  |
| Wang, Huizhao  | NXP Semiconductors | TRUE | Voter  |
| Wang, Lei  | Futurewei Technologies | TRUE | Voter  |
| Wang, Pu  | Mitsubishi Electric Research Labs (MERL) | TRUE | Voter  |
| Wang, Qi  | Apple, Inc. | TRUE | Voter  |
| Wang, Xiaofei  | InterDigital, Inc. | TRUE | Voter  |
| Wang, Zisheng  | ZTE Corporation | TRUE | Voter  |
| Want, Roy  | Google | TRUE | Voter  |
| Ward, Lisa  | Rohde & Schwarz | FALSE | Voter  |
| Wei, Dong  | NXP Semiconductors | TRUE | Voter  |
| Wei, Hung-Yu  | National Taiwan University | TRUE | Voter  |
| Wei, Te  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Wendt, Matthias  | Signify | TRUE | Voter  |
| Wilhelmsson, Leif  | Ericsson AB | TRUE | Voter  |
| Wu, Chao-Yi  | SAMSUNG ELECTRONICS | TRUE | Voter  |
| wu, guangsheng  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Wu, Kanke  | Qualcomm Incorporated | FALSE | Voter  |
| Wu, Tianyu  | Apple, Inc. | TRUE | Voter  |
| Wu, Xuming  | Huawei Technologies Co., Ltd; Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Wullert, John  | Peraton Labs | TRUE | Voter  |
| Xia, Qing  | Sony Corporation | TRUE | Voter  |
| Xiao, Bo  | ZTE Corporation | TRUE | Voter  |
| xiaofei, bai  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Xin, Liangxiao  | IEEE member / Self Employed | TRUE | Voter  |
| Xin, Yan  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Xu, Fangxin  | Longsailing Semiconductor | TRUE | Voter  |
| Xu, Weijie  | Beijing OPPO telecommunications corp., ltd. | TRUE | Voter  |
| Xu, Yue  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Yamada, Ryota  | SHARP CORPORATION | TRUE | Voter  |
| Yan, Aiguo  | Ubilinx | FALSE | Voter  |
| Yan, Min  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Yan, Zhongjiang  | Northwestern Polytechnical University | TRUE | Voter  |
| Yang, Jay  | Nokia | TRUE | Voter  |
| Yang, Lin  | Qualcomm Incorporated | TRUE | Voter  |
| Yang, Mao  | Northwestern Polytechnical University | TRUE | Voter  |
| YANG, RUI  | InterDigital, Inc. | TRUE | Voter  |
| Yang, Steve TS  | MediaTek Inc. | TRUE | Voter  |
| Yang, Xun  | Huawei Technologies Co., Ltd | FALSE | Voter  |
| Yano, Kazuto  | Advanced Telecommunications Research Institute International (ATR) | TRUE | Voter  |
| Yee, James  | MediaTek Inc. | TRUE | Voter  |
| Yee, Peter  | NSA-CSD | TRUE | Voter  |
| Yi, Yongjiang  | Spreadtrum Communication USA, Inc | TRUE | Voter  |
| Yong, Su Khiong  | Apple, Inc. | TRUE | Voter  |
| Yoon, Yelin  | LG ELECTRONICS | TRUE | Voter  |
| Young, Christopher  | Broadcom Corporation | TRUE | Voter  |
| Yu, Jian  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Zeng, Yan  | 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 | Non-Voter |
| Zhang, Maolin  | Huawei Technologies Co., Ltd | TRUE | Aspirant  |
| Zhang, Rong  | NXP Semiconductors | TRUE | Voter  |
| Zhang, Yan  | Apple Inc. | TRUE | Voter  |
| Zhang, Yiyan  | Huawei Technologies Co., Ltd | TRUE | Voter  |
| Zhao, Yue  | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Zheng, Haomian  | Huawei Technologies Co., Ltd | FALSE | Potential Voter |
| Zhou, Chengzhi  | Apple Inc. | TRUE | Aspirant  |
| Zhou, Lei  | H3C Technologies Co., Limited | TRUE | Voter  |
| Zhou, Pei  | TCL | TRUE | Voter  |
| Zuniga, Juan Carlos  | Cisco Systems, Inc. | TRUE | Voter  |
| Zuo, Zhisong  | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter  |

**Annex B : Working Group Officers**

**Working Group**

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| Alfred Asterjadhi(Qualcomm) | TGbe ChairExtremely High Throughput (EHT) | aasterja@qti.qualcomm.com |
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| Michael Montemurro (Huawei Technologies Co., Ltd) | TGme Chair802.11 revision project - P802.11REVme | montemurro.michael@gmail.com  |
| Jonathan Segev (Intel Corporation) | TGbk Chair320 MHz Positioning | +972-54-2403587jonathan.segev@intel.com |

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|  |

**Study Groups (SG) & Topic Interest Groups (TIG)**

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| --- | --- | --- |
| Name (Affiliation)  | Position | Contact Details |
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| --- | --- | --- |
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**Liaison Officials to IEEE organizations**

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| Tuncer Baykas(Ofinno) | Liaison to IEEE 802.19 | tbaykas@ieee.org  |

**Annex C : 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 | 23-1452r0 |
| TGme | TG | 23-1xxxr0 |
| TGbe | TG | 23-1572r1 |
| TGbf | TG | 23-1641r0 |
| TGbh | TG | 23-1616r0 |
| TGbi | TG | 23-1565r0 |
| TGbk | TG | 23-1xxxr0 |
| COEX | SC | 23-1549r0 |
| WNG | SC | 23-1595r0 |
| JTC 802 | SC | 23-1638r0 |
| ARC | SC | 23-1537r0 |
| AIML | TIG | 23-1xxxr0 |
| AMP | TIG | 23-1666r0 |
| UHR  | SG | 23-1449r0 |

**Annex D : Revisions and Standards Pipeline**

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**IEEE 802.11 Standards Pipeline**

End.