IEEE P802.11
Wireless LANs

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| Minutes of the IEEE P802.11 Full Working Group |
| Date: 2022-02-04 |
| Author(s): |
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Abstract

This document constitutes the minutes of the IEEE 802.11 full working group for the January 2022 meeting.

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

**IEEE 802.11 Interim Meeting – Session #191**

**January 17th – 25th, 2022**

**IEEE 802.11 Opening Plenary, Monday January 17th 2021**

Presiding chair: Dorothy Stanley (Hewlett Packard Enterprise) opened the meeting at 09:02 Eastern Time (ET) and declared quorum for the session.

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

2nd Vice-chair (VC2): Robert Stacey Intel

Secretary: Stephen McCann Huawei Technologies Co., Ltd

There are 485 Voters and 11 Ex Officio voters of IEEE 802.11\*

There were 315 people present in the meeting.

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

1. **Notices** (11-21-1959r1 slide #3)
	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. None
		2. Chair: Christy Bahn is the IEEE-SA Staff representative for IEEE 802.11.
	4. Please note that this meeting requires a registration fee to be paid.
	5. Chair: Please contact me if you require the credentials for the “Members Area”.
2. **Approve/modify working group agenda** (11-21-1958r2)
	1. This is a summary of the meeting today. Please note the schedule for this session on the separate tab “Schedule”.
	2. Question (Q): Please can we change it to an “802 Plenary”, as opposed to an “802.1 Plenary”?
	3. Answer (A): Yes
	4. Chair: I suggest we approve this agenda.
	5. **Move to approve the agenda 11-21-1958r2 for the Monday opening plenary**
		1. Moved: Marc Emmelmann, 2nd: Tuncer Baykas
		2. No objection to approving by unanimous consent
3. **November 2021 WG Minutes**
	1. **Move to approve the November 2021 WG minutes document 11-21-1764r1**
	2. Moved: Stephen McCann, 2nd: Stuart Kerry
	3. Following neither discussion nor dissent the minutes were approved by unanimous consent.
4. **New Attendees** (11-21-1992r3 slide #4)
	1. Straw Poll:
	2. **Are you a new attendee to IEEE 802.11?**
		1. Yes: 8
		2. No: 132
		3. No answer: 100
	3. There is a new members meeting on Tuesday January 18th at 11:15 ET. This is a useful tutorial for those new members to learn about IEEE 802.11.
5. **Call for essential Patents** (11-21-1962r0)
	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 no response to the call for essential patents.
6. **Participation and Attendance** (11-21-1962r0)
	1. The slides about IEEE 802 meeting participation and IEEE SA copyright were also read.
	2. Expected participant behavior was also announced.
	3. VC2: Please note the slide about the valid abstain response in ballots and also all Voters’ obligations to respond to ballots.
	4. Chair: Regarding slide #21, the return rates for the TGbb and TGme letter ballots were good, but there were several people who did not enter a correct Abstain reason. The only valid response is “lack of technical expertise”. Please correct this going forward, otherwise you could invalidate your voting rights.
7. **Announcements** (11-21-1959r1)
	1. **Liaisons** (slide #4)
		1. Chair: There is 1 incoming liaison from the WBA, re: Wi-Fi 6/6E. This will be posted in document 11-22-0098 shortly.
		2. The presentation slot is still to be determined, but it should be during this interim session.
	2. **EC and standard board decisions** (slides #5 and #6)
		1. Chair: The EC approved the items on the slides.
8. **Logistics and Key events/activities**
	1. **Working group session documents** (11-21-1959r1 slide #7)
	2. **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, NENDICA Industry Connections Activity and some of the other IEEE 802 groups.
		2. Chair: This IEEE 802.11 session does count towards attendance credit. You will require 9 slots to obtain attendance credit over the next 7 working days.
		3. Chair: Please remember to record your attendance for each meeting during this session.
		4. Q: Can we also add the JTC1 SC meeting for reciprocal credit please?
		5. Chair: Yes, we’ll have a look at adding this.
		6. Chair: Please remember that everyone should record their attendance in any IEEE 802 meeting.
	3. **M3.3 Other WG meeting plans** (11-21-1966r0 slides #5 to #8)
		1. This slide shows information about other WG meetings, future meetings and logistics during this plenary.
		2. Please use the online schedule at the IEEE 802 website for the online meeting times during this plenary. It can be adjusted to show times in your own time zone (slide #5)
		3. Please remember to record your attendance for each slot during this plenary, using the IMAT tool: <https://imat.ieee.org/802.11>
	4. **M3.3 Audio Visual Etiquette** (slide #7)
		1. VC1: Please remember this advice when you are presenting during online calls.
	5. **M3.6 Meeting Registration** (slides #9 to #11)
		1. VC1: Please note that paid registration is required for this meeting. At the moment there are 520 registered people for this January interim.
		2. Please note that after 60 days, individuals who have not paid their registration fees loose most of their rights, including attending further IEEE 802 meetings. Once they have paid, they can re-attend.
		3. No questions
	6. **M3.7 Recording attendance** (slide #12)
		1. VC1: Please note the rules about recording attendance at each IEEE 802.11 meeting during this plenary.
		2. No questions
9. **Status of all groups** (11-21-1959r1)
	1. **Group summary** (slide #12)
		1. Chair: This is a review of the current IEEE 802.11 groups.
	2. **Sub-Group Officer Status** (slide #16)
		1. Chair: I would like to acknowledge all the assistance from the volunteers mentioned on this slide.
	3. **Summary of Ballots** (slide #18)
		1. There have been three letter ballots (TGme, TGbb, TGbd) and one SA ballot (TGaz), since the November 2021 session.
10. **Membership** (11-21-1959r1 slide #22)
	* 1. These slides show the IEEE 802.11 membership numbers, by affiliation and whether members have been recently active.
		2. No questions
11. **Timelines**
	1. There have been some recent updates to the timeline chart, regarding the recent TGbb and TGme letter ballot results:
	2. <https://www.ieee802.org/11/Reports/802.11_Timelines.htm>
	3. No questions
12. **Group Summaries** (11-21-1963r0)
	1. Special notes were mentioned for the following groups:
	2. **Editors’ meeting and ANA** (slides #3 & #4)
		1. There is an editors’ meeting later today at 16:00 ET, as per the online schedule. Other topics include the ANA status (11-11-0270r57).
		2. No questions
	3. **ARC SC** (slide #5)
		1. There have been several teleconferences since the November 2021 meeting, basically discussing various architecture topics.
		2. There are two meetings in this session.
		3. No questions
	4. **Coex** **SC** (slide #7)
		1. This standing committee will meet once this session.
		2. No questions
	5. **PAR** **SC** (slide #8)
		1. This group is not meeting this session.
		2. No questions
	6. **WNG** (slide #9)
		1. There are 5 presentations planned for this session and therefore there will be 2 meetings:
			1. “Beyond be’”
			2. “Next-Gen-After-11be”
			3. “Next generation after 802.11be”
			4. “Look ahead to next generation”
			5. “Inconsistent STA range and channel support indications”
		2. No questions
	7. **JTC1** **SC** (slide #10)
		1. There is 1 meeting during this session.
		2. There has been a partial resolution in moving forward with the IPR issues mentioned in November 2021, which will be discussed during the meeting.
		3. No questions
	8. **TGme** (slide #13)
		1. The objective for this session is to continue considering comments from the D1.0 letter ballot.
		2. There will be motions to complete the earlier comment collection.
		3. No questions
	9. **TGaz** (slide #14)
		1. The group is progressing work to resolve comments received in the initial SA ballot.
		2. No questions
	10. **TGbb** (slide #17)
		1. The group hopes to resolve comments from the recently completed D1.0 letter ballot.
		2. No questions.
	11. **TGbc** (slide #18)
		1. The work this session is to continue working on comments from the re-circulation D2.0 letter ballot (LB 257).
		2. No questions
	12. **TGbd** (slide #19)
		1. The group completed a D3.0 re-circulation letter ballot and intends to work on comment resolutions during this session.
		2. No questions.
	13. **TGbe** (slide #24)
		1. Draft 1.31 was recently published and there have been 18 teleconferences since the November 2021 session.
		2. There are 4 meetings this session and the aim is to continue with comment resolution.
		3. No questions
	14. **TGbf** (slide #27)
		1. There have been 13 teleconference calls since the November 2021 meeting on various topics. The SFD is still in development, together with the creation of D0.1.
		2. No questions
	15. **TGbh** (slide #30)
		1. There are 4 meetings during this session.
		2. A response to the WBA (Wireless Broadband Alliance) will be worked on this session, together with some other technical development work.
		3. No questions.
	16. **TGbi** (slide #31)
		1. There are three meetings during this session. The group will address requirements definitions.
		2. No questions.
	17. **ITU ad-hoc** (slide #32)
		1. There have been no meetings recently and there is 1 meeting planned for this session.
		2. No questions.
13. **IEEE 802.18 Liaison** (11-22-0045r0)
	1. This document shows the details of the IEEE 802.18 meetings this session.
	2. There will be 2 meetings this session and there are currently 40 votes within the working group.
	3. The topics for discussion include:
		1. ETSI BRAN
		2. CEPT
		3. APAC
		4. ITU-R
		5. FCC
	4. The submission “Standards Table of Frequency Ranges” continues to be updated in conjunction with IEEE 802.19. The current version is: 18-22-0009r0.
	5. No questions.
14. **IEEE 802.19 Liaison** (11-22-0097r0)
	1. IEEE 802.19 has 50 Voters and there is 1 meeting this session at 16:00 ET today.
	2. There has been a recent letter ballot on the approval of the IEEE 802.11bb coexistence assurance document (CAD) that passed.
	3. No questions.
15. **IEEE 802 Technical Plenary Liaison** (11-22-0090r0)
	1. This is new activity and the objective is to provide a wider awareness of IEEE Std 802. It provides an opportunity to discuss the content of this standard and whether it should be updated. It also provides an opportunity to possibly introduce some new items such as:
		1. MAC address privacy
		2. Data privacy
		3. Protocols IDs
	2. No questions.
16. **WG Officer Elections March 2022** (11-21-1604r0)
	1. The WG officers will be re-elected during the March 2022 plenary.
	2. The current officers have stated that they will seek re-election.
	3. Regarding the March 2022 meeting it will occur between the 7th – 15th.
	4. No questions
17. **AANI November 2021 minutes** (11-21-1992r3)
	1. **Move to approve the AANI SC minutes (11-22-0060r0) from the November 2021 plenary meeting.**
	2. Moved: Joseph Levy, 2nd: Harry Bims
	3. No objection to approving by unanimous consent
18. **AoB**
	1. None
19. **Recess**
	1. Meeting recessed at 10:50 ET.

**Tuesday, January 25th 2021**

**IEEE 802.11 Closing Plenary**

Call to order at 09:01 Eastern Time (ET) by Dorothy Stanley (HPE).

257 people present in the meeting.

1. **Approve/modify working group agenda** (11-21-1958r4)
	1. Chair: There have been some minor changes to the agenda since the opening plenary.
	2. Q: Regarding the WBA item, there is no presenter.
	3. Chair: At the moment, I don’t know who will be presenting it.
	4. **Approve the agenda for the Tuesday meeting as shown in 11-21-1958r4**
		1. Moved: Alan Jones, 2nd: Marc Emmelmann
		2. No objection to approving by unanimous consent.
2. **Announcements** (11-21-1960r0)
	1. **Participation** (slides #4 - #6)
		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 #7)
		1. This is the Call for Essential Patents
		2. No statements
		3. No questions
	3. **Meeting Decorum** (slide #8)
		1. No questions
	4. **Next meeting and CAC meetings** (slide #9)
		1. The next meeting of the IEEE 802.11 working group is from March 7th – 15th, 2022 and will be an electronic meeting. Please note the slightly updated dates.
		2. Please be aware of the future chair’s committee meetings (CAC), the first one of which will be on February 21st 09:00 ET. Please note the deadline for the sub-group agendas.
		3. Chair: Please note that the January and March 2022 sessions are rather close together this time so please be careful of the dates.
	5. **Sub-group minutes**
		1. Please note that sub-group minutes should be completed within 30 days from the close of this plenary.
		2. No questions
	6. **Letters of Assurance (LoA)** (slide #10)
		1. Chair: please remember about the LoA requirements.
		2. There is one LoA request open at the moment.
	7. **IEEE Store and ISO SC6** (slides #11 - #12)
		1. IEEE 802.11-2020, IEEE 802.11ax-2021 and IEEE 802.11ay-2021 have been submitted to ISO under the PSDO process.
		2. IEEE 802.11ba-2021 will be submitted after the 11ax related items are resolved.
		3. At the March 2022 session we can consider sending the IEEE 802.11az draft to ISO for information.
	8. **Press Releases** (slide #13)
		1. There have been no recent press releases or blog statements.
	9. **Public Visibility Standing Committee** (slides #14 - #16)
		1. This IEEE 802 group is designed to increase the external visibility of IEEE 802.
		2. There is a planned Tech Talk about coexistence in June 2022.
		3. Q: Are the previous Tech Talk slides available please?
		4. Chair: Yes and there is a link on the slides
3. **Treasury Report** (ec-21-0309-00)
	1. VC1: This shows the treasurers’ report and is an overview of 2021.
	2. The deadbeat count from September 2021 is now 3 people.
	3. There a small issue regarding receiving funds from CVENT.
	4. In total there have been 582 registrations for this January 2022 session.
	5. Please note the increased registration fees on slide #12. This hopefully provides the fee expectations of future sessions.
	6. Regarding the May meeting, there will be a cancellation fee if it is decided not to meet as a face-to-face meeting.
	7. Chair: The decision about the Warsaw meeting for May 2022 will be discussed at the upcoming Wireless Chairs Standing Committee meeting on Wednesday February 2nd 2022.
4. **May 2022 Venue Straw Poll** (11-21-1992r4)
	1. T3.1.2 Straw Poll:
		1. **1. If the 2022 May 802 Wireless Interim Session is held in Warsaw Poland as an in-person only session, will you attend?**
		2. Yes: 65
		3. No: 99
		4. Abstain: 11
		5. No answer: 54
		6. **2. If the 2022 May 802 Wireless Interim Session is held in Warsaw Poland as a mixed-mode session, will you attend?**
		7. Attend In-person: 55
		8. Attend Virtually (remotely): 107
		9. Will not attend plenary: 13
		10. No answer: 58
	2. C: I answered abstain as I need to wait for my company’s revised travel policy.
	3. Q: Is a hybrid mode meeting possible? I understand that there will be meetings operating in parallel.
	4. VC1: We are trying to make a hybrid meeting work as well as possible. The sub-group chairs will be invited to learn about the hybrid meeting tool that we hope to use.
	5. People who will be attending the meetings face to face will be expected to allow people on line to also take part in an equitable way. Everyone who attends will have an equal opportunity to take part.
	6. Unfortunately, this will cost more and therefore the meeting fees will be more expensive.
	7. Q: What is the conclusion from these results?
	8. VC1: There’s no specific conclusion at the moment. These figures will be considered by the Wireless Chairs Meeting on February 2nd. However, please remember that there are other factors that also need to be taken into account.
	9. Q: Can we reset the expectations about the number of people who will attend? In the past we had very large meetings and I don’t think there will be that many people attending in the future.
	10. VC1: Each WG chair was asked as to what the minimum number of people should be, to make a face-to-face meeting viable.
	11. Chair: Now that we have the possibility of hybrid meetings, perhaps these minimum numbers can be re-consider.
	12. Q: Why are there not different fees for face-to-face or virtual attendance?
	13. VC1: It has been decide that the increased fees are primary for the hybrid tool use. Therefore everyone should pay their share of the costs.
	14. C: Please remember the time zone difference when meetings are hybrid.
	15. C: Perhaps we could also have virtual only meetings, until more people are happy to have face-to-face meetings.
	16. Q: Can we change the times of the hybrid meetings to assist other time zones.
	17. Chair: That could be complicated and various hotels may not allow meetings to occur at unusual times. We will aim to minimize meeting in the midnight (00:00) – 05:00 period in any time zone.
5. **Future Venues Manager Report** (11-21-1966r0)
	1. VC1: These slides shows the current status of future venues.
	2. Within the notes view, there is an explanation of the colors used in the slides.
	3. No questions.
6. **Timelines**
	1. TGbc will have an update to the timeline shortly.
	2. No questions
7. **Attendance statistics** (11-21-1964r2 slide #4)
	1. VC2: 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 year or so.
8. **WG Committee Reports** (11-21-1964r2)
	1. **Editors** (slide #10)
		1. Note that the amendment ordering (slide #15) has been updated this session.
		2. No questions
	2. **ARC SC** (slide #17)
		1. Regarding Annex G, there is now an ARC submission called “Annex G, Part 2)
		2. There are some other future items regarding the IEEE Std 802 revision.
		3. No questions
	3. **Coex SC** (slide #23)
		1. There were several discussions during the meeting and there is still work to be done going forward regarding 5 GHz and 6 GHz bands in Europe. There may be some 802.11be coexistence issues with 802.11ax which need to be studied in more detail.
		2. No questions
	4. **PAR** **SC**
		1. The group did not meet this session.
		2. No questions
	5. **WNG** **SC** (slide #27)
		1. There were 5 presentations this session.
		2. No questions
	6. **JTC1 SC** (slide #30)
		1. At the moment, there are some IPR issues regarding the IEEE 802.11ax ISO ballot. Until these are resolved, other IEEE 802.11 amendments will not be sent to ISO for adoption under the PSDO agreement.
		2. There is a new topic about Deterministic Wireless Industrial Network. IEEE 802.11 proposes to approve a liaison to ISO/IEC on this topic, which will then be considered by the IEEE 802 EC.
		3. Q: I understand there were discussions between ISO and IEEE regarding these IPR issues. Are any of these discussion in the public domain?
		4. A: I will try and find out whether we can make any of the discussions public.
	7. **TGme** (slide #36)
		1. This session approved the remaining comments from CC35.
		2. The group has updated the timeline.
		3. No questions
	8. **TGaz** (slide #40)
		1. The group has completed about 50% of the comments received from the initial SA Ballot.
		2. No questions
	9. **TGbb** (slide #45)
		1. The session has been spent resolving comments from the initial letter ballot.
		2. No questions
	10. **TGbc** (slide #49)
		1. The comments from the D2.0 re-circulation ballot were worked on this session. It is hoped to produce a D3.0 coming out of the March 2022 meeting.
		2. No questions
	11. **TGbd** (slide #55)
		1. There were 4 conference calls during this session.
		2. Comments from LB 259 were discussed during the meetings.
		3. No questions
	12. **TGbe** (slide #61)
		1. There were 4 conference calls during this session.
		2. The work involved the continuation of comment resolution and the group approved the creation of D1.4.
		3. No questions
	13. **TGbf** (slide #65)
		1. There were 4 meetings during this session.
		2. The SFD is continuing to be developed and also draft D0.1.
		3. No questions
	14. **TGbh** (slide #70)
		1. Reviewed some contributions about possible technical topics.
		2. The target to produce a D0.1 has slipped this meeting, but hopefully can be competed in March 2022.
		3. No questions
	15. **TGbi** (slide #77)
		1. There were discussion about the use cases and issues documents.
		2. No questions
	16. **ITU AHG** (slide #80)
		1. There were various topics discussed during this session regarding ITU-R
		2. No questions
9. **Liaison Reports** (11-21-1964r2)
	1. **Wi-Fi Alliance** (slide #106)
		1. There are several certifications based on IEEE 802 programs.
		2. There is a plan for a hybrid face to face meeting on March 1st and 2nd 2022 in Dallas, USA.
		3. No questions
	2. **IETF** (slide #110)
		1. The next meeting will be in March 2022 as a hybrid in Vienna.
		2. There is a typo on slide #115, “November 6 – 12, 2021” should be “March 19 – 25, 2022”.
		3. The MAC Address Device Identification for Network and Application Services (MADINAS) working group (slide #120) may be of interest to IEEE 802.11bh members.
		4. No questions
	3. **IEEE 1609** (slide #129)
		1. IEEE 1609 provides a light weight middle layer between 802.11p/bd and upper layers as shown in slide #111.
		2. No questions
10. **Break**
	1. Chair: Are members interested in a break now? Majority of responses were no, prefer to continue on with the agenda.
11. **Working Group Motions (Old Business)** (11-21-1992r4)
	1. **JTC1 Liaison to ISO/IEC** (slide #9)
		1. **The IEEE 802.11 WG recommends to the IEEE 802 EC that the material in 11-22-0081r6 be liaised to ISO/IEC JTC1/SC6 in relation to the Preliminary Work Item (PWI) proposal in SC6/WG1 for a new Deterministic Wireless Industrial Network, with editorial privileges given to the WG Chair**
		2. Moved by Andrew Myles, 2nd: Ian Sherlock
		3. Result: Yes: 82, No: 2, Abstain: 34 (Motion passes)
12. **IEEE 802 Nendica Discussion Update** (11-22-0192r0)
	1. There are 2 proposed PARs at the IEEE 802 level:
		1. IEEE Std 802 maintenance PAR
		2. IEEE Std 802 revision PAR
	2. Chair: I would like all IEEE 802.11 members to be able to provide comments and vote on any ballots regarding these projects.
	3. No questions
13. **WBA presentation** (11-22-0098r0)
	1. Chair: I would like to bring your attention to this liaison that has been received from the WBA regarding the topic “Enabling Wi-Fi determinism in an IOT world”.
	2. Chair: As this is a liaison document, the format and content of the document has been checked by IEEE Staff.
14. **Wireless Chairs Meeting** (11-21-1960 slide #16)
	1. The next meeting is on February 2nd at 15:00 ET. This meeting will use the MTG Events tool that is recommend for future hybrid meetings. Please contact the MTG Events staff or myself with a request for the registration information, or see the calendar entry.
15. **Next Meeting** (slide #17)
	1. The proposed date of the next IEEE 802.11 meeting is March 7th – 15th, 2022. Please note that there is a registration fee for this meeting.
	2. The web-site will be updated with your IEEE 802.11 voting status based on your attendance at this January 2022 interim shortly.
16. **Any other Business (AoB)**
	1. Please do record your attendance for this meeting and also check that you have paid your registration fees for this session.
17. **Adjournment**
	1. Having completed the agenda, the chair announced that the meeting was adjourned at 11:06 ET.

**Annex A: Attendance & Affiliation**

| **Name** | **Affiliation** | **Attended >= 75%?** | **Status** |
| --- | --- | --- | --- |
| Abdelaal, Rana | Broadcom Corporation | TRUE | Aspirant |
| AbidRabbu, Shaima' | Istanbul Medipol University; Vestel | TRUE | Voter |
| Abouelseoud, Mohamed | Sony Corporation | FALSE | Voter |
| Aboulmagd, Osama | Huawei Technologies Co., Ltd | TRUE | Voter |
| Adachi, Tomoko | TOSHIBA Corporation | TRUE | Voter |
| Agarwal, Peyush | Broadcom Corporation | TRUE | Voter |
| Ahmad, Tufail | koc university, vestel | TRUE | Non-Voter |
| Aio, Kosuke | Sony Corporation | FALSE | Voter |
| Ajami, Abdel Karim | Qualcomm Incorporated | TRUE | Potential Voter |
| Akhmetov, Dmitry | Intel Corporation | TRUE | Voter |
| AKHTAR, NADEEM | Arista Networks, Inc. | TRUE | Aspirant |
| Aldana, Carlos | Facebook | FALSE | Voter |
| Alpert, Yaron | Texas Instruments Inc. | TRUE | Potential Voter |
| Amalladinne, Vamsi | Qualcomm Incorporated | TRUE | Potential Voter |
| An, Song-Haur | INDEPENDENT | TRUE | Voter |
| Andersdotter, Amelia | Sky UK Group | TRUE | Voter |
| Ansley, Carol | Cox Communications Inc. | TRUE | Voter |
| Anwyl, Gary | MediaTek Inc. | TRUE | Voter |
| Arlandis, Diego | Maxlinear Corp | TRUE | Voter |
| Arregui, Antonio | Maxlinear | TRUE | Voter |
| Asai, Yusuke | NTT | TRUE | Voter |
| Asterjadhi, Alfred | Qualcomm Incorporated | TRUE | Voter |
| Au, Kwok Shum | Huawei Technologies Co., Ltd | TRUE | Voter |
| Au, Oscar | Origin Wireless | TRUE | Voter |
| Avallone, Stefano | University of Napoli | FALSE | Aspirant |
| Awater, Geert | Qualcomm Incorporated | TRUE | Voter |
| Aygul, Mehmet | Vestel | TRUE | Voter |
| B, Hari Ram | NXP Semiconductors | TRUE | Voter |
| Badenes, Agustin | Maxlinear Corp | TRUE | Voter |
| Baek, SunHee | LG ELECTRONICS | TRUE | Voter |
| Bahn, Christy | IEEE STAFF | FALSE | Aspirant |
| Baik, Eugene | Qualcomm Incorporated | TRUE | Voter |
| Bajko, Gabor | MediaTek Inc. | TRUE | Voter |
| Banerjea, Raja | Qualcomm Incorporated | TRUE | Voter |
| Bankov, Dmitry | IITP RAS | TRUE | Voter |
| baron, stephane | Canon Research Centre France | TRUE | Voter |
| Barr, David | MaxLinear | TRUE | Voter |
| Batra, Anuj | Apple, Inc. | TRUE | Voter |
| Baykas, Tuncer | Kadir Has University, | TRUE | Voter |
| Beg, Chris | Cognitive Systems Corp. | FALSE | Voter |
| Bei, Jianwei | NXP Semiconductors | TRUE | Voter |
| Ben Arie, Yaron | Toga Networks (A Huawei Company) | TRUE | Voter |
| Berens, Friedbert | FBConsulting Sarl | TRUE | Voter |
| Berger, Christian | NXP Semiconductors | TRUE | Voter |
| Berkema, Alan | HP Inc. | TRUE | Voter |
| Bhandaru, Nehru | Broadcom Corporation | TRUE | Voter |
| Bims, Harry | Bims Laboratories, Inc. | TRUE | Voter |
| Bluschke, Andreas | Signify | TRUE | Voter |
| Bober, Lennert | Fraunhofer Heinrich Hertz Institute | TRUE | Voter |
| Boldy, David | Broadcom Corporation | TRUE | Voter |
| Borges, Daniel | Apple, Inc. | TRUE | Aspirant |
| Bredewoud, Albert | Broadcom Corporation | TRUE | Voter |
| Cao, Rui | NXP Semiconductors | TRUE | Voter |
| Cariou, Laurent | Intel Corporation | TRUE | Voter |
| Carney, William | Sony Group Corporation | TRUE | Voter |
| Carter, Edward | Infineon Technologies | TRUE | Aspirant |
| Cavalcanti, Dave | Intel Corporation | TRUE | Voter |
| Chang, Chen-Yi | Mediatek | TRUE | Potential Voter |
| Chaplin, Clint | Self | FALSE | Voter |
| Chappell, Matthew | Cox Communications Inc. | TRUE | Non-Voter |
| Chayat, Naftali | Vayyar Imaging | TRUE | Voter |
| Chemrov, Kirill | IITP RAS | TRUE | Potential Voter |
| Chen, Cheng | Intel Corporation | TRUE | Voter |
| Chen, Cheng-Ming | Qualcomm Incorporated | TRUE | Voter |
| Chen, Evelyn | Ericsson AB | TRUE | Voter |
| Chen, Na | Self | TRUE | Voter |
| Chen, Xiaogang | Intel Corporation | TRUE | Voter |
| Cheng, Paul | MediaTek Inc. | TRUE | Voter |
| Cheng, Xilin | NXP Semiconductors | TRUE | Voter |
| CHERIAN, GEORGE | Qualcomm Incorporated | TRUE | Voter |
| Chiang, James | MediaTek Inc. | TRUE | Potential Voter |
| Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. | TRUE | Voter |
| Chiu, Lin-Kai | MediaTek Inc. | TRUE | Non-Voter |
| Chiu, WenHsien | MediaTek Inc. | FALSE | Non-Voter |
| Cho, Hangyu | LG ELECTRONICS | FALSE | Voter |
| Choi, Jinsoo | LG ELECTRONICS | TRUE | Voter |
| Choo, Seungho | Senscomm Semiconductor Co., Ltd. | 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 |
| Coffey, John | Realtek Semiconductor Corp. | TRUE | Voter |
| Cordeiro, Carlos | Intel Corporation | TRUE | Voter |
| Cortes, Diana | Google | TRUE | Potential Voter |
| Das, Dibakar | Intel Corporation | TRUE | Voter |
| Das, Subir | Peraton Labs | TRUE | Voter |
| Dash, Debashis | Apple, Inc. | TRUE | Voter |
| da Silva, Claudio | Meta Platforms, Inc. | TRUE | Voter |
| Dave, Brajesh | Apple, Inc. | TRUE | Non Voter |
| DeLaOlivaDelgado, Antonio | InterDigital, Inc. | TRUE | Voter |
| Delaunay, Nicolas | EASII-IC | FALSE | Non-Voter |
| Derham, Thomas | Broadcom Corporation | TRUE | Voter |
| de Vegt, Rolf | Qualcomm Incorporated | TRUE | Voter |
| Ding, Yanyi | Panasonic Corporation | TRUE | Voter |
| Dogukan, Ali | Vestel | TRUE | Voter |
| Dong, mingjie | Huawei Technologies Co., Ltd | TRUE | Potential Voter |
| Dong, Xiandong | Xiaomi Inc. | TRUE | Voter |
| Du, Rui | Huawei Technologies Co., Ltd | TRUE | Voter |
| Du, Zhenguo | Huawei Technologies Co., Ltd | TRUE | Voter |
| Duan, Ruchen | SAMSUNG | TRUE | Voter |
| Ecclesine, Peter | Cisco Systems, Inc. | TRUE | Voter |
| Eitan, Alecsander | Qualcomm Incorporated | TRUE | Voter |
| ElSherif, Ahmed | Qualcomm Incorporated | TRUE | Voter |
| EMMELMANN, MARC | Self Employed / Koden-TI / Fraunhofer FOKUS | TRUE | Voter |
| Erceg, Vinko | Broadcom Corporation | TRUE | Voter |
| Erell, Assaf | Vayyar Imaging Ltd. | TRUE | Voter |
| Fang, Juan | Intel Corporation | TRUE | Voter |
| Fang, Yonggang | MediaTek Inc. | TRUE | Voter |
| feng, Shuling | MediaTek Inc. | TRUE | Voter |
| Fernandez, Olivia | SR Technologies | TRUE | Aspirant |
| Ferruz, David | Maxlinear Corp | TRUE | Voter |
| Fischer, Matthew | Broadcom Corporation | TRUE | Voter |
| Fridman, Roi | Vayyar Imaging Ltd | TRUE | Voter |
| Furuichi, Sho | Sony Group Corporation | TRUE | Voter |
| Gan, Ming | Huawei Technologies Co., Ltd | TRUE | Voter |
| Gangur, Trivikram | Infineon Technologies | TRUE | Aspirant |
| Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | FALSE | Aspirant |
| Ghaderipoor, Alireza | MediaTek Inc. | TRUE | Voter |
| Ghosh, Chittabrata | Facebook, Inc. | TRUE | Voter |
| Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) | FALSE | Voter |
| Gong, Bo | Huawei Technologies Co., Ltd | TRUE | Voter |
| Goodall, David | Morse Micro | FALSE | Non-Voter |
| Goto, Fumihide | DENSO | TRUE | Voter |
| Grandhe, Niranjan | NXP Semiconductors | TRUE | Voter |
| Gu, Xiangxin | Unisoc | TRUE | Voter |
| GUIGNARD, Romain | Canon Research Centre France | TRUE | Voter |
| Guo, Jing | NXP Semiconductors | TRUE | Aspirant |
| Guo, Yuchen | Huawei Technologies Co., Ltd | TRUE | Voter |
| Gupta, Binita | Meta Platforms, Inc. | TRUE | Aspirant |
| Guthrie, Rebecca | NSA - CCSS | FALSE | Non-Voter |
| Haasz, Jodi | IEEE Standards Association (IEEE-SA) | FALSE | Non-Voter |
| Haider, Muhammad Kumail | Facebook | TRUE | Voter |
| Halasz, David | Morse Micro | TRUE | Aspirant |
| Hamilton, Mark | Ruckus/CommScope | TRUE | Voter |
| HAMITI, Karim | EASII-IC | FALSE | Non-Voter |
| HAN, CHONG | pureLiFi | TRUE | Voter |
| Han, Jonghun | SAMSUNG | TRUE | Voter |
| HAN, Xiao | Huawei Technologies Co., Ltd | TRUE | Voter |
| Han, Zhiqiang | ZTE Corporation | FALSE | Voter |
| Handte, Thomas | Sony Group Corporation | TRUE | Voter |
| Handziski, Vlado | R3 Solutions GmbH | TRUE | Non-Voter |
| Haran, Onn | Auto-Talks | FALSE | Voter |
| Harkins, Daniel | Aruba Networks, Inc. | TRUE | Voter |
| Harrison, Edward | Anritsu Company | TRUE | Voter |
| Hart, Brian | Cisco Systems, Inc. | TRUE | Voter |
| Hawkes, Philip | Qualcomm Incorporated | FALSE | Non-Voter |
| Henry, Jerome | Cisco Systems, Inc. | TRUE | Voter |
| Hernandez, Marco | National Institute of Information and Communications Technology (NICT) | TRUE | 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 |
| Hoffman, Damian | Vayyar Imaging | TRUE | Potential Voter |
| Holcomb, Jay | Itron Inc. | FALSE | Voter |
| Hsieh, Hung-Tao | MediaTek Inc. | TRUE | Voter |
| Hsu, Chien-Fang | MediaTek Inc. | TRUE | Voter |
| Hsu, Ostrovsky | Xiaomi Inc. | FALSE | Aspirant |
| Hu, Chunyu | Facebook | TRUE | Voter |
| Hu, Mengshi | Huawei Technologies Co., Ltd | TRUE | Voter |
| Hu, Shengquan | MediaTek Inc. | FALSE | Non-Voter |
| Huang, Guogang | Huawei Technologies Co., Ltd | TRUE | Voter |
| Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter |
| Huang, Po-Kai | Intel Corporation | TRUE | Voter |
| Huang, Qisheng | ZTE Corporation | TRUE | Aspirant |
| Huq, Kazi Mohammed Saidul |  | TRUE | Non-Voter |
| Hurtarte, Jeorge | Teradyne, Inc. | TRUE | Voter |
| Hwang, Sung Hyun | Electronics and Telecommunications Research Institute (ETRI) | TRUE | Potential Voter |
| Ibrahim, Ahmed | Samsung Research America | TRUE | Potential Voter |
| Ibrahim, Mostafa | SAMSUNG ELECTRONICS | TRUE | Aspirant |
| Ikegami, Tetsushi | Meiji University | TRUE | Voter |
| Iranzo, Salvador | MaxLinear Corp | TRUE | Voter |
| Jang, Insun | LG ELECTRONICS | TRUE | Voter |
| Jeffries, Timothy | Futurewei Technologies | TRUE | Voter |
| Jeon, Eunsung | SAMSUNG ELECTRONICS | FALSE | Voter |
| Ji, Chenhe | Huawei Technologies Co., Ltd | TRUE | Voter |
| Jia, Jia | Huawei Technologies Co., Ltd | TRUE | Voter |
| jiang, feng | Apple Inc. | TRUE | Voter |
| Jiang, Jinjing | Apple, Inc. | FALSE | Voter |
| Joh, Hanjin | KT Corp. | FALSE | Potential Voter |
| Jones, Allan | Activision | TRUE | Voter |
| Jones, Vincent Knowles IV | Qualcomm Incorporated | TRUE | Voter |
| Jung, Insik | LG ELECTRONICS | TRUE | Aspirant |
| Jungnickel, Volker | Fraunhofer Heinrich Hertz Institute | FALSE | 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 | Aspirant |
| Kandala, Srinivas | SAMSUNG | TRUE | Voter |
| KANG, Kyu-Min | Electronics and Telecommunications Research Institute (ETRI) | TRUE | Voter |
| Kasargod, Sudhir | Infineon Technologies | TRUE | Aspirant |
| Kasher, Assaf | Qualcomm Incorporated | TRUE | Voter |
| katla, satyanarayana | InterDigital, Inc. | TRUE | Non-Voter |
| Kennedy, Richard | IEEE member / Self Employed | TRUE | Voter |
| Kenney, John | Toyota Motor North America | TRUE | Voter |
| Kerry, Stuart | OK-Brit; Self | TRUE | Voter |
| Khan, Naseem | Leidos Engineering. LLC | FALSE | Potential Voter |
| Khorov, Evgeny | IITP RAS | TRUE | Voter |
| Kim, Jeongki | Ofinno | TRUE | Voter |
| Kim, Myeong-Jin | SAMSUNG | TRUE | Voter |
| kim, namyeong | LG ELECTRONICS | TRUE | Non-Voter |
| Kim, Sang Gook | LG ELECTRONICS | TRUE | Voter |
| Kim, Sanghyun | WILUS Inc. | TRUE | Voter |
| Kim, Wonjung | LG Uplus | TRUE | Aspirant |
| Kim, Youhan | Qualcomm Incorporated | TRUE | Voter |
| KINNEY, PATRICK | Kinney Consulting LLC | 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 |
| Klimakov, Andrey | Huawei Technologies Co., Ltd | TRUE | Voter |
| Kneckt, Jarkko | Apple, Inc. | TRUE | Voter |
| Ko, Geonjung | WILUS Inc. | TRUE | Voter |
| Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) | FALSE | Voter |
| Kota, Prashant | Infineon Technologies | TRUE | Aspirant |
| Koundourakis, Michail | Samsung Cambridge Solution Centre | TRUE | Voter |
| Kozarev, Aleksandra | MaxLinear Corp | TRUE | Voter |
| Krieger, Ann | US Department of Defense | FALSE | Non-Voter |
| Ku, Susan | MediaTek Inc. | FALSE | Aspirant |
| Kumar, Manish | NXP Semiconductors | TRUE | Voter |
| Kumari, Warren | Google | FALSE | Non-Voter |
| Kureev, Aleksey | IITP RAS | TRUE | Voter |
| Lal, Kunal | Synaptics Incorporated | TRUE | Potential Voter |
| Lalam, Massinissa | SAGEMCOM SAS | TRUE | Voter |
| Lan, Zhou | Broadcom Corporation | FALSE | Voter |
| Lanante, Leonardo | Ofinno | TRUE | Potential Voter |
| Lansford, James | Qualcomm Incorporated; University of Colorado at Boulder | TRUE | Voter |
| Lee, Hong Won | LG ELECTRONICS | TRUE | Voter |
| Lee, Hyeong Ho | Netvision Telecom Inc. | TRUE | Voter |
| Lee, Nancy | Signify | TRUE | Voter |
| Lee, Wookbong | SAMSUNG | TRUE | Voter |
| Le Houerou, Brice | Canon Research Centre France | TRUE | Voter |
| Levesque, Chris | qorvo | TRUE | Non-Voter |
| Levitsky, Ilya | IITP RAS | TRUE | Voter |
| Levy, Joseph | InterDigital, Inc. | TRUE | Voter |
| Li, Bo | Northwestern Polytechnical University | TRUE | Voter |
| Li, Jialing | Qualcomm Technologies, Inc. | TRUE | Voter |
| Li, Qinghua | Intel Corporation | TRUE | Voter |
| li, yan | ZTE Corporation | TRUE | Aspirant |
| Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | FALSE | Aspirant |
| Li, Yiqing | Huawei Technologies Co., Ltd | TRUE | Voter |
| Li, Yunbo | Huawei Technologies Co., Ltd | TRUE | Voter |
| Lim, Dong Guk | LG ELECTRONICS | TRUE | Voter |
| lim, taesung | LG ELECTRONICS | TRUE | Voter |
| Lin, Hsin-De | MediaTek Inc. | TRUE | Potential Voter |
| Lin, Jih-Ho |  | FALSE | Non-Voter |
| Lin, Wei | Huawei Technologies Co., Ltd | TRUE | Voter |
| Lin, Yousi | Huawei Technologies Co., Ltd | TRUE | Aspirant |
| Lin, Zinan | InterDigital, Inc. | TRUE | Voter |
| Lindskog, Erik | SAMSUNG | TRUE | Voter |
| LIU, CHENCHEN | Huawei Technologies Co., Ltd | TRUE | Voter |
| Liu, Der-Zheng | Realtek Semiconductor Corp. | TRUE | Voter |
| Liu, Jianhan | MediaTek Inc. | TRUE | Voter |
| Liu, Ying | NXP Semiconductors | TRUE | Voter |
| Liu, Yong | Apple, Inc. | TRUE | Voter |
| Liu, Ziqi | Vivo Mobile Communication Co.ltd | TRUE | Non-Voter |
| Loginov, Vyacheslav | IITP RAS | TRUE | Voter |
| long, yan | southwest jiaotong university | FALSE | Aspirant |
| Lopez, Miguel | Ericsson AB | TRUE | Voter |
| Lorgeoux, Mikael | Canon Research Centre France | TRUE | Voter |
| Lou, Hanqing | InterDigital, Inc. | TRUE | Voter |
| Lou, Hui-Ling | NXP Semiconductors | TRUE | Voter |
| Lu, kaiying | MediaTek Inc. | TRUE | Voter |
| Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter |
| LU, Yuxin | Huawei Technologies Co., Ltd | TRUE | Voter |
| Lumbatis, Kurt | CommScope, Inc. | TRUE | Voter |
| Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. | TRUE | Voter |
| Ma, Li | MediaTek Inc. | TRUE | Voter |
| Ma, Mengyao | Huawei Technologies Co., Ltd | TRUE | Voter |
| Malinen, Jouni | Qualcomm Incorporated | TRUE | Voter |
| Mano, Hiroshi | Koden Techno Info K.K. | FALSE | Voter |
| Martinez Vazquez, Marcos | MaxLinear Corp | TRUE | Voter |
| Max, Sebastian | Ericsson AB | TRUE | Voter |
| Mazor, Nadav | Vayyar Ltd | TRUE | Potential Voter |
| McCann, Stephen | Huawei Technologies Co., Ltd | TRUE | Voter |
| Mehrnoush, Morteza | Facebook | TRUE | Voter |
| MELZER, Ezer | Toga Networks, a Huawei company | TRUE | Voter |
| Memisoglu, Ebubekir | Istanbul Medipol University; Vestel | TRUE | Voter |
| Minotani, Jun | Panasonic Corporation | TRUE | Potential Voter |
| Mohanty, Bibhu | Qualcomm Incorporated | TRUE | Voter |
| Monajemi, Pooya | Cisco Systems, Inc. | FALSE | Voter |
| Montemurro, Michael | Huawei Technologies Co., Ltd | TRUE | Voter |
| Montreuil, Leo | Broadcom Corporation | TRUE | Voter |
| Moran, Ashley |  | FALSE | Non-Voter |
| Morioka, Hitoshi | SRC Software | TRUE | Voter |
| Motozuka, Hiroyuki | Panasonic Corporation | TRUE | Voter |
| Mueller, Robert | Ilmenau University of Technology - TU Ilmenau | TRUE | Voter |
| Myles, Andrew | Cisco Systems, Inc. | TRUE | Voter |
| Nagai, Yukimasa | Mitsubishi Electric Corporation | TRUE | Voter |
| NAGATA, KENGO | Nippon Telegraph and Telephone Corporation (NTT) | TRUE | Voter |
| Naik, Gaurang | Qualcomm Incorporated | TRUE | Voter |
| Nam, Junyoung | Qualcomm Incorporated | TRUE | Voter |
| NAM, Sol-eep | intellectual discovery | FALSE | Non-Voter |
| Namboodiri, Vamadevan | SAMSUNG ELECTRONICS | TRUE | Voter |
| NANDAGOPALAN, SAI SHANKAR | Synaptics | TRUE | Voter |
| narengerile, narengerile | Huawei Technologies Co., Ltd | TRUE | Non-Voter |
| Naribole, Sharan | Apple Inc. | TRUE | Voter |
| Nayak, Peshal | Samsung Research America | TRUE | Potential Voter |
| Nezou, Patrice | Canon Research Centre France | TRUE | Voter |
| Ng, Boon Loong | Samsung Research America | TRUE | Voter |
| Nguyen, An | U.S. Department of Homeland Security | TRUE | Voter |
| Nikolich, Paul | self employed/various | FALSE | Voter |
| noh, yujin | Senscomm | TRUE | Voter |
| Omar, Hassan | Huawei Technologies Co., Ltd | TRUE | Voter |
| Orlovsky, Michael | Vayyar Imaging LTD. | TRUE | Voter |
| Orr, Stephen | Cisco Systems, Inc. | TRUE | Non-Voter |
| Oyama, Satoshi | Association of Radio Industries and Businesses (ARIB) | TRUE | Voter |
| Ozbakis, Basak | VESTEL Electronics Corp. | TRUE | Voter |
| OZDEN ZENGIN, OZLEM | VESTEL | FALSE | Voter |
| Palayur, Saju | Maxlinear Inc. | TRUE | Voter |
| Palm, Stephen | Broadcom Corporation | TRUE | Voter |
| Pandey, Sheetal | ON Semiconductor | TRUE | Aspirant |
| Pare, Thomas | MediaTek Inc. | TRUE | Voter |
| Parekh, Jatin | Arista Networks, Inc. | TRUE | Voter |
| Park, Eunsung | LG ELECTRONICS | TRUE | Voter |
| Park, Minyoung | Intel Corporation | TRUE | Voter |
| Patil, Abhishek | Qualcomm Incorporated | TRUE | Voter |
| Patwardhan, Gaurav | Hewlett Packard Enterprise | TRUE | Voter |
| Peng, Lan | Huawei Technologies Co., Ltd | TRUE | Aspirant |
| Perahia, Eldad | Hewlett Packard Enterprise | FALSE | Voter |
| Petrick, Albert | InterDigital, Inc. | TRUE | Voter |
| Petry, Brian | Broadcom Corporation | TRUE | Voter |
| Pettersson, Charlie | Ericsson AB | TRUE | Voter |
| Pirhonen, Riku | NXP Semiconductors | TRUE | Voter |
| porat, ron | Broadcom Corporation | TRUE | Voter |
| Pushkarna, Rajat | Panasonic Asia Pacific Pte Ltd. | TRUE | Voter |
| Qi, Emily | Intel Corporation | TRUE | Voter |
| Rafique, Saira | Istanbul Medipol University, Vestel | TRUE | Voter |
| Rai, Kapil | Qualcomm Incorporated | TRUE | Voter |
| Raissinia, Alireza | Qualcomm Incorporated | TRUE | Voter |
| Rantala, Enrico-Henrik | Zeku | TRUE | Voter |
| Ratnam, Vishnu | Samsung Research America | TRUE | Non-Voter |
| Redlich, Oded | Huawei Technologies Co., Ltd | TRUE | Voter |
| Rege, Kiran | Perspecta Labs | TRUE | Voter |
| Regev, Dror | Toga Networks (A Huawei Company) | TRUE | Voter |
| Restuccia, Francesco | Northeastern University | FALSE | Non-Voter |
| Rezk, Meriam | Qualcomm Incorporated | TRUE | Voter |
| Riegel, Maximilian | Nokia | TRUE | Voter |
| RISON, Mark | Samsung Cambridge Solution Centre | TRUE | Voter |
| Robert, Joerg | TU Ilmenau, Fraunhofer IIS | TRUE | Voter |
| Roder, Patricia |  | FALSE | Non-Voter |
| Rolfe, Benjamin | Blind Creek Associates | TRUE | Voter |
| Rosdahl, Jon | Qualcomm Technologies, Inc. | TRUE | Voter |
| Roy, Sayak | NXP Semiconductors | TRUE | Voter |
| Ryu, Kiseon | Ofinno | TRUE | Potential Voter |
| Sahoo, Anirudha | National Institute of Standards and Technology | TRUE | Non-Voter |
| Salem, Mohamed | Huawei Technologies Co., Ltd | TRUE | Voter |
| Salman, Hanadi | Istanbul Medipol University; VESTEL | TRUE | Voter |
| Sambasivan, Sam | AT&T | TRUE | Voter |
| Sand, Stephan | German Aerospace Center (DLR) | TRUE | Voter |
| Sandhu, Shivraj | Qualcomm Incorporated | TRUE | Voter |
| Sato, Takuhiro | SHARP CORPORATION | TRUE | Aspirant |
| Schelstraete, Sigurd | MaxLinear | TRUE | Voter |
| Schiessl, Sebastian | Apple, Inc. | TRUE | Voter |
| Schmidhammer, Martin | German Aerospace Center (DLR) | TRUE | Voter |
| Segev, Jonathan | Intel Corporation | TRUE | Voter |
| Seo, Sangho | Infineon Technologies | TRUE | Aspirant |
| Seok, Joseph | Self | TRUE | Potential Voter |
| Seok, Yongho | MediaTek Inc. | TRUE | Voter |
| Serafimovski, Nikola | pureLiFi | TRUE | Voter |
| Sethi, Ankit | NXP Semiconductors | TRUE | Voter |
| Sevin, Julien | Canon Research Centre France | TRUE | Voter |
| Shafin, Rubayet | Samsung Research America | TRUE | Voter |
| Shalom, Hai | Google | FALSE | Non-Voter |
| Shaw, Amit | Infineon Technologies | TRUE | Aspirant |
| Shellhammer, Stephen | Qualcomm Incorporated | TRUE | Voter |
| Shen, Xiaoman | Huawei Technologies Co., Ltd | TRUE | Aspirant |
| Sherlock, Ian | Texas Instruments Inc. | TRUE | Voter |
| Shilo, Shimi | Huawei Technologies Co., Ltd | TRUE | Voter |
| Shirakawa, Atsushi | SHARP CORPORATION | TRUE | Aspirant |
| Smith, Graham | SR Technologies | TRUE | Voter |
| Smith, Luther | Cable Television Laboratories Inc. (CableLabs) | FALSE | Aspirant |
| Solaija, Muhammad Sohaib | Istanbul Medipol University; Vestel | TRUE | Voter |
| Son, Ju-Hyung | WILUS Inc. | FALSE | Voter |
| Song, Hao | Intel Corporation | TRUE | Potential Voter |
| Sood, Ayush | Infineon Technologies | TRUE | Aspirant |
| Sosack, Robert | Molex Incorporated | TRUE | Voter |
| Srinivasa, Sudhir | NXP Semiconductors | TRUE | Voter |
| Srivatsa, Veena | Synaptics | FALSE | Aspirant |
| Stacey, Robert | Intel Corporation | TRUE | Voter |
| Stanley, Dorothy | Hewlett Packard Enterprise | TRUE | Voter |
| Stavridis, Athanasios | Ericsson AB | TRUE | Voter |
| Stott, Noel | Keysight Technologies | TRUE | Voter |
| Strauch, Paul | Qualcomm Incorporated | TRUE | Voter |
| SU, HONGJIA | Huawei Technologies Co., Ltd | TRUE | Voter |
| SUH, JUNG HOON | Huawei Technologies Co., Ltd | TRUE | Voter |
| Sumi, Takenori | Mitsubishi Electric Corporation | TRUE | Voter |
| Sun, Bo | ZTE Corporation | TRUE | Voter |
| Sun, Li-Hsiang | Sony Corporation | TRUE | Voter |
| Sun, Sheng | Huawei Technologies Co., Ltd | TRUE | Voter |
| Sun, Yanjun | Qualcomm Incorporated | TRUE | Voter |
| Sundman, Dennis | Ericsson AB | TRUE | Voter |
| SURACI, FRANK | U.S. Department of Homeland Security | TRUE | Voter |
| Susiaho, Sami | British Sky Broadcasting Ltd | FALSE | Non-Voter |
| Szott, Szymon | AGH University of Science and Technology | TRUE | Non-Voter |
| Takai, Mineo | Space-Time Engineering | TRUE | Voter |
| Tan, Danny | Huawei Technologies Co., Ltd | TRUE | Voter |
| Tanaka, Yusuke | Sony Group Corporation | FALSE | Voter |
| Taori, Rakesh | Infineon Technologies | TRUE | Aspirant |
| Teran, Jesus Gutierrez | IHP GmbH | FALSE | Voter |
| Thakur, Sidharth | Apple, Inc. | TRUE | Aspirant |
| Thompson, Tom | IEEE STAFF | FALSE | Non-Voter |
| Thota, Sri Ramya | Infineon Technologies | TRUE | Aspirant |
| THOUMY, Francois | Canon Research Centre France | TRUE | Voter |
| Tian, Bin | Qualcomm Incorporated | TRUE | Voter |
| Tian, Tao | Apple, Inc. | TRUE | Non-Voter |
| Tolpin, Alexander | Intel Corporation | TRUE | Voter |
| Tomeba, Hiromichi | SHARP CORPORATION | FALSE | Aspirant |
| Torab Jahromi, Payam | Facebook | TRUE | Voter |
| Torrijo, Alejandro | MaxLinear Corp | TRUE | Voter |
| Trainin, Solomon | Qualcomm Incorporated | TRUE | Voter |
| Tsai, Tsung-Han | MediaTek Inc. | TRUE | Voter |
| Tsodik, Genadiy | Huawei Technologies Co., Ltd | TRUE | Voter |
| Tugtekin, Omer | Vestel Electronics Corp. | TRUE | Potential Voter |
| Turkmen, Halise | Vestel | TRUE | Voter |
| Uln, Kiran | Cypress Semiconductor Corporation | TRUE | Aspirant |
| Unterhuber, Paul | German Aerospace Center (DLR) | TRUE | Voter |
| Urabe, Yoshio | Panasonic Corporation | TRUE | Voter |
| Van Nee, Richard | Qualcomm Incorporated | TRUE | Voter |
| Van Zelst, Allert | Qualcomm Incorporated | TRUE | Voter |
| Varshney, Prabodh | Nokia | TRUE | Voter |
| Verenzuela, Daniel | Sony Corporation | TRUE | Voter |
| Verma, Lochan | Apple Inc. | TRUE | Voter |
| Vermani, Sameer | Qualcomm Incorporated | TRUE | Voter |
| Vicent Colonques, Santiago | MaxLinear Corp | TRUE | Voter |
| VIGER, Pascal | Canon Research Centre France | TRUE | Voter |
| Vituri, Shlomi | Intel Corporation | FALSE | Potential Voter |
| Wang, Chao Chun | MediaTek Inc. | TRUE | Voter |
| Wang, Hao | Tencent | TRUE | Voter |
| Wang, Huizhao | Quantenna Communications, Inc. | TRUE | Voter |
| Wang, Lei | Futurewei Technologies | TRUE | Voter |
| Wang, Qi | Apple, Inc. | TRUE | Voter |
| Wang, Qi | Huawei Technologies Co., Ltd | TRUE | Voter |
| Wang, Xiaofei | InterDigital, Inc. | TRUE | Voter |
| Wang, Zisheng | ZTE Corporation | TRUE | Aspirant |
| Want, Roy | Google | TRUE | Voter |
| Ward, Lisa | Rohde & Schwarz | TRUE | Voter |
| Wei, Dong | NXP Semiconductors | TRUE | Potential Voter |
| Wendt, Matthias | Signify | TRUE | Voter |
| Wentink, Menzo | Qualcomm Incorporated | TRUE | Voter |
| Wilhelmsson, Leif | Ericsson AB | TRUE | Voter |
| Wizenberg, Reut | Vayyar Imaging | TRUE | Aspirant |
| Wu, Kanke | Qualcomm Incorporated | TRUE | Voter |
| Wu, Tianyu | Apple, Inc. | TRUE | Voter |
| Wullert, John | Peraton Labs | TRUE | Voter |
| Xiao, Bo | ZTE Corporation | TRUE | Voter |
| Xin, Liangxiao | Sony Corporation | TRUE | Voter |
| Xin, Yan | Huawei Technologies Co., Ltd | TRUE | Voter |
| Xue, Qi | Qualcomm Incorporated | TRUE | Voter |
| YAGHOOBI, HASSAN | Intel Corporation | TRUE | Voter |
| Yamada, Ryota | SHARP CORPORATION | TRUE | Aspirant |
| Yan, Zhongjiang | Northwestern Polytechnical University | TRUE | Voter |
| Yang, Bo | Huawei Technologies Co., Ltd | 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 | TRUE | 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 |
| Yokoyama, Takahiro | Association of Radio Industries and Businesses (ARIB) | TRUE | Voter |
| Yong, Su Khiong | Apple, Inc. | TRUE | Aspirant |
| Yoo, Homin | LG ELECTRONICS | TRUE | Voter |
| Yoon, Jeonghwan | LG ELECTRONICS | TRUE | Voter |
| Yoon, Kangjin | Meta | FALSE | Non-Voter |
| Yu, Heejung | Korea University | TRUE | Voter |
| Yu, Jian | Huawei Technologies Co., Ltd | TRUE | Voter |
| Yu, Mao | Anyka | TRUE | Voter |
| Zaman, Malia | IEEE Standards Association (IEEE-SA) | FALSE | Non-Voter |
| ZEGRAR, Salah Eddine | Istanbul Medipol University; Vestel | TRUE | Voter |
| Zhang, Hongyuan | NXP Semiconductors | TRUE | Voter |
| Zhang, Jiayi | Ofinno | TRUE | Non-Voter |
| ZHANG, JIAYIN | Huawei Technologies Co., Ltd | TRUE | Voter |
| Zhang, Yan | NXP Semiconductors | TRUE | Voter |
| Zhou, Lei | H3C Technologies Co., Limited | TRUE | Non-Voter |
| Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | TRUE | Voter |
| Zia, Muhammad Furqan | Koc University; Vestel | TRUE | Aspirant |

**Annex B : Working Group Officers**

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| Alfred Asterjadhi(Qualcomm) | TGbe ChairExtremely High Throughput (EHT) | aasterja@qti.qualcomm.com |
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| Mark Hamilton(Ruckus/CommScope Wireless) | TGbh ChairRandom and Changing MAC address (RCM) | +1 (303) 818-8472mark.hamilton2152@gmail.com |
| Carol Ansley(Cox Communications) | TGbi ChairEnhanced Data Privacy (EDP) | carol@ansley.com  |
| Michael Montemurro (Huawei Technologies Co., Ltd) | TGme Chair802.11 revision project - P802.11REVme | montemurro.michael@gmail.com  |

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| --- |
|  |

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

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

**Ad-Hoc Groups (AHG)**

|  |  |  |
| --- | --- | --- |
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**Liaison Officials to IEEE 802 organizations**

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**Annex C : Minutes**

This Annex contains references to all IEEE 802.11 SC/TG/SG & Ad Hoc Committee (AHC) minutes from this meeting. 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 | 22-0005r0 |
| TGme | TG | 22-0108r1 |
| TGaz | TG | 22-0103r0 |
| TGbb | TG | 22-0189r0 |
| TGbc | TG | 22-0050r0 |
| TGbd | TG | 22-0167r0 |
| TGbe | TG | 22-0142r3 |
| TGbf | TG | 22-0191r1 |
| TGbh | TG | 22-0165r0 |
| TGbi | TG | 22-0164r1 |
| COEX | SC | 22-0xxxr0 |
| WNG | SC | 22-0106r0 |
| JTC 802 | SC | 22-0279r0 |
| ARC | SC | 22-0092r0 |
| ITU | AH | 21-1986r0 |
| PAR | SC | Did not meet |

**Annex D : Revisions and Standards Pipeline**

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**IEEE 802.11 Standards Pipeline**

End.