IEEE P802.11  
Wireless LANs

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| Minutes of the IEEE P802.11 Full Working Group | | | | |
| Date: 2020-12-04 | | | | |
| Author(s): | | | | |
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Abstract

This document constitutes the minutes of the IEEE 802.11 full working group for the November 2020 meeting.

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

**IEEE 802.11 Plenary Meeting – Session #184**

**November 2nd – 10th, 2020**

**IEEE 802.11 Opening Plenary, Monday 2nd November 2020**

Presiding chair: Dorothy Stanley (Hewlett Packard Enterprise) opened the meeting at 09:00 Eastern Standard Time (EST) and declared quorum for the session.

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

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

Secretary: Stephen McCann Huawei Technology Co., Ltd

There are 369 voting members and 11 Ex Officio voters of IEEE 802.11\*

There were 378 people present in the meeting.

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

1. **Notices** (11-20-1606r0 slide #3)
   1. No photographs at this meeting and please turn your mobiles to vibrate.
   2. Chair: Are there any members of the press present.
      1. None
   3. From the IEEE staff, Tom Thompson is present.
2. **Approve/modify working group agenda** (11-20-1605r3)
   1. This is a summary of the meeting today. Please note the schedule for this session on the separate tab “Schedule”.
   2. Chair: I suggest we approve this agenda.
   3. Changes to agenda graphic:
      1. There have been a couple of small changes made since last week’s CAC.
   4. **Move to approve the agenda 11-20-1605r3**
      1. Moved: Jon Rosdahl, 2nd: Robert Stacey
      2. No objection to approving by unanimous consent
3. **September 2020 WG Minutes**
   1. **Move to approve the September 2020 WG minutes document 11-20-1458r1**
   2. Moved: Stephen McCann, 2nd: Stuart Kerry
   3. Following neither discussion nor dissent the minutes were approved by unanimous consent.
4. **Call for essential Patents** (11-20-1634r0)
   1. VC2: read out the current PatCom rules, and then called 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. There was no response to the call for essential patents.
5. **Participation and Attendance** (11-20-1634r0)
   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 members’ obligations to respond to ballots.
   4. VC2: There is also some information about the current IEEE 802.11 email reflectors (slide #22)
   5. Question (Q): In physical meetings, we can usually access working group documents. How do we do this in these remote meetings?
   6. Chair: If you are a new attendee, please send me an email and I will allow you access to the members’ only website. This will not allow documents to be uploaded. If you attend 75% of the meeting during this plenary, you will then be document upload granted access once the plenary has finished.
   7. Chair: There are formatting and other requirements on documents. Therefore, we require that you work with someone else to sort out your document format. That’s why upload rights are not granted immediately.
6. **Voting Rights**
   1. Chair: During this 802.11 plenary, 9 meetings need to be attended to obtain the 75% attendance criteria.
   2. In addition, if you were previously a potential voter, you are now a voter as of the start of today’s meeting.
   3. Chair: There will be a new members session occurring on Tuesday November 3rd at 09:00 ET. There are 30 new members to this plenary.
7. **Announcements** (11-20-1606r0)
   1. **Liaisons** (slide #4)
      1. Chair: There are no liaisons for consideration during this plenary.
      2. There was a request from ETSI TC ITS for a copy of P802.11bd 1.0 that has been sent.
   2. **EC and standard board decisions** (slides #5 & #6)
      1. Chair: The EC approved the following items on the slides.
      2. Please note that there are quite a few items which affect IEEE 802.11. P802.11REVme refers to a future maintenance group to start working on the next roll up of IEEE 802.11, once IEEE 802.11-2020 is published.
8. **Logistics and Key events/activities**
   1. **Working group session documents** (11-20-1606r0 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 and some of the other IEEE 802 groups.
   3. **M3.3 Other WG meeting plans** (11-20-1633r2 slide #4)
      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.
      3. Please remember to record your attendance for each slot during this plenary, using the IMAT tool: <https://imat.ieee.org/802.11>
      4. VC1: this slide deck shows information about other WG meetings, future meetings and logistics during this plenary.
   4. **Online Calendar** (slide #6)
      1. An IEEE 802 EC calendar is available here: <http://www.ieee802.org/802tele_calendar.html>
   5. **M3.7 Recording attendance** (slide #10)
      1. Please note the rules about recording attendance at each IEEE 802.11 meeting during this plenary.
   6. **M3.9 Next session reminder** (slide #12)
      1. The next IEEE 802 Interim will be online from 10th - 15th January 2021.
      2. The current plan is that the IEEE 802 Plenary from 14th - 19th March 2021 will be face to face. The hotel will provide social distancing and so there will be 2 hotels in operation.
      3. It is essential that face to face meetings will only be held when it is safe to do so.
      4. Q: What is this document number please?
      5. Answer (A): 11-20-1633r0
      6. Q: With regard to future online meetings, will there be a review of the voting credit policy for the January 2021 meeting?
      7. Chair: The IEEE 802 rules state that there is no credit given for electronic interim sessions or teleconferences. The IEEE 802 Executive Committee (EC) are currently reviewing this situation.
9. **Status of all groups** (11-20-1606r0)
   1. **Group summary** (slide #12)
      1. Chair: This is a review of the current IEEE 802.11 groups.
   2. **Sub-Group Officer Status** (slide #15)
      1. Chair: Please note the changes to sub-group officers for this plenary.
   3. **Summary of Ballots** (slide #18)
      1. There have been several ballots and comment collections, between the September 2020 meeting and now.
10. **Timelines**
    1. Recent changes include TGbb to correct its end date and a new row for TGbf will be added after this plenary has completed.
11. **Group Summaries** (11-20-1632r1)
    1. Special notes were mentioned for the following groups:
    2. **Editors’ meeting and ANA**
       1. There is an editors’ meeting later this week, as per the online schedule. There is a new update of the style guide, so that will be considered during this plenary. Other topics include the ANA status.
    3. **AANI**
       1. There are 4 meetings for this plenary. A report was produced and was sent out for comment collection. The work this plenary, will be to resolve the received comments.
    4. **ARC**
       1. There have been 2 teleconferences since the September 2020 meeting, basically discussing TGbe architecture issues.
       2. There will also be some TGbc architecture discussions in future teleconferences on November 17th and 24th.
    5. **Co-ex**
       1. This standing committee has a revised scope and will meet once this plenary.
    6. **PAR SC**
       1. There will be 1 meeting this plenary to formally review 3 PARs:
          * + 802.1DP
            + 802.15.4aa
            + 802.16t
       2. The SC will also be reviewing the 802.11REVme PAR.
       3. There will be another session as a separate teleconference on Wednesday 11th November.
    7. **WNG**
       1. There is 1 meeting this plenary with 1 presentation, after the closing of this meeting.
    8. **JTC1**
       1. There will be a review of the current ISO/JTC1/SC6 status during this plenary.
    9. **TGmd**
       1. The SA Ballot is now complete on draft 5.0. This draft has now been submitted to the December RevCom meeting. Therefore, TGmd does not need to meet during this plenary.
       2. However, maintenance work will still continue and therefore there is a new REVme PAR for consideration by the EC next week. If approved, the group will possible start in March 2021.
    10. **TGax**
        1. The group will request conditional approval from the 802 EC to proceed to RevCom in January 2021.
    11. **TGay**
        1. The group is working on comments from the re-circulation SA ballot on D6.0. If these are finished during this plenary, then TGay may request conditional approval from the 802 EC to proceed to the RevCom.
    12. **TGaz**
        1. The group is meeting several times during this plenary to resolve the remaining 64 comments from Letter Ballot 249. If these are completed, then TGaz may request a re-circulation ballot coming out of this meeting.
    13. **TGba**
        1. The group is meeting during this plenary to prepare Draft 8.0 and start a re-circulation SA ballot. If this is successful, then TGba may request conditional approval from the 802 EC to proceed to the RevCom.
    14. **TGbb**
        1. The group has been working on resolutions to a comment collection that has been held since September 2020 on Draft 0.2
    15. **TGbc**
        1. The group is completing an initial draft based on an earlier comment collection. The goal is to create a D1.0 out of this plenary.
    16. **TGbd**
        1. The group is currently in the middle of the initial D1.0 letter ballot, so the sessions during this plenary are to organize the future work and have some architecture discussions.
        2. Q: What’s the impact of the recent FCC Report and Order (R&O) on the relevance of 802.11bd operation in the 5.9 GHz band?
        3. A: TGbd have not considered this yet. Contributions are welcome on this topic.
        4. Chair: It appears that the FCC is favoring the use of C-V2X technology within the 5.9 GHz band. This means that the relevance of TGbd may not be so applicable within the US, but it is still applicable in European and other regulatory domains.
    17. **TGbe**
        1. The group has created a draft 0.1 and has had 15 teleconferences since the September 2020 meeting. The objective during this plenary is to work towards a D0.2.
    18. **TGbf**
        1. This will be the first meeting of this new task group. There will be 3 meetings during this plenary to start work on a usage and channel model.
    19. **RCM (Random and Changing MAC address) study group**
        1. The group has submitted 2 PARs and 2 CSDs (RCM and privacy amendments) for review by the other IEEE 802 working groups. The meetings during this plenary will then address comments on these PARs and CSDs.
    20. **ITU ad-hoc**
        1. This group is not meeting during this plenary. The ITU meeting will start next week and there will be some input from IEEE 802.11.
12. **IEEE 802.18 Liaison** (11-20-1754r0)
    1. This document shows the details of the IEEE 802.18 meeting this session.
    2. Please note that the issue of the 5.9 GHz FCC ITS Report and Order (R&O) will be discussed. This is the output of the earlier FCC 5.9 GHz NPRM.
    3. No questions.
13. **IEEE 802.19 Liaison** (11-20-1753r0)
    1. This document shows the details of the IEEE 802.19 meeting this session.
    2. No questions.
14. **Working Group Motions (Old Business)** (11-20-1635r0)
    1. **TGbf chair confirmation** (slide #4)
       1. **Confirm Tony Xiao Han as an IEEE 802.11bf Task Group Chair.**
       2. Moved: Edward Au, 2nd: Assaf Kasher
       3. No objection to approving by unanimous consent
15. **In memorim: Bob Heile** (11-20-1606r0 slide #20)
    1. Chair: Bob Heile recently passed away and this slide describes some of his achievements.May he rest in place.
    2. C: I knew him for many years and I know that he started IEEE 802.15. He will be missed.
16. **AoB**
    1. None
17. **Recess**
    1. Meeting recessed at 10:46 EST.

**Tuesday, 10th November 2020**

**IEEE 802.11 Closing Plenary**

Call to order at 09:00 EST by Dorothy Stanley (HPE).

296 people present in the meeting.

1. **Approve/modify working group agenda** (11-20-1605r5)
   1. Chair: There have been some minor changes to the agenda since the opening plenary.
   2. **Approve the agenda for the Tuesday meeting as shown in 11-20-1605r5**
      1. Moved: Stuart Kerry, 2nd: Al Petrick
      2. No objection to approving by unanimous consent.
2. **Call for Essential Patents** (11-20-1607r0 slide #7)
   1. Call for Essential Patents
   2. No statements
   3. No questions
3. **Announcements** (11-20-1607r0)
   1. **Participation** (slide #5)
      1. Please can you remember to read this slide and understand that everyone is here as an individual subject matter expert.
   2. **Chair’s minutes, reports and web pages**
      1. Please can you ensure that the sub-group minutes are on the server within 30 days after the close of this meeting. Please can you also send web-page and timeline updates to the secretary.
      2. Please be aware of the future chair’s committee meetings (CAC), the first one of which will be on November 30th 09:00 ET.
   3. **Next Meeting**
      1. The next meeting of the IEEE 802.11 working group is in January 2021 and will be an online meeting.
   4. **Letters of Assurance (LoA)** (slide #11)
      1. Chair: please remember about the LoA requirements.
      2. There is one LoA request open at the moment.
   5. **IEEE Store and ISO SC6** (slides #12 and #13)
      1. No questions
   6. **Press Releases** (slide #14)
      1. A press release on the topic of TGbf is in progress. IEEE Staff will work with TGbf subject matter experts to finalize this release. The IEEE 802 EC will approve the final press release.
   7. **Public Visibility Standing Committee** (slide #15)
      1. This group is designed to increase the external visibility of IEEE 802.
4. **Upcoming Venues** (11-20-1633r0 slides #16)
   1. VC1: This slide shows the next online interim meeting in January 2021
   2. Regarding the March 2021 meeting, the meeting planners Face-to-Face and the Denver hotel are working to hold the meeting prioritizing health and social distancing. A decision will be made by December 1st by the IEEE 802 EC as to whether this meeting is face to face or not.
   3. In May 2021, the plan is to meet in Panama.
   4. In general, meeting room space is being increased for all future venues to allow social distancing measure to be applied.
   5. Everyone appreciates that regarding COVID-19, travelling arrangements still need to be considered for when the next face-to-face meeting should occur.
   6. **Straw poll**
   7. **When do you expect the next in person 802.11 Session will be?**
   8. A – March 2021 - 17
   9. B – May 2021 - 14
   10. C – July 2021 - 57
   11. D – Sept 2021 - 29
   12. E – Nov 2021 - 16
   13. F – After 2021 - 25
   14. No questions
5. **Treasury Report** (ec-20-0179-00)
   1. VC1: This show the treasurers’ report and is correct up to 31st August 2020:
   2. <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0179-00-WCSG-wireless-treasurer-report-sept-2020-electronic-interim.pptx>
   3. No questions
6. **Timelines**
   1. There is a new row for TGbf, together with changes to the TGax, TGba, TGbc, TGmd timelines this week. The new timeline chart is live on the server.
7. **Documentation & Attendance** (11-20-1631r2 slide #9)
   1. VC2: This session report is a summary of sub-group activities during this plenary. It includes the attendance statistics.
8. **WG Committee Reports**
   1. There is no presentation today, but sub-group closing reports can be seen in document 11-20-1631r2.
9. **Liaison Reports** (11-20-1631r2)
   1. **Wi-Fi Alliance** (slide #131)
      1. There was an online members’ event in October 2020.
      2. No questions
   2. **IETF** (slide #135)
      1. No questions
   3. **IEEE 1609** (slide #154)
      1. No questions
      2. Chair: Thank you to John and also for the reminder to 802.11 voting members to respond to the 802.11bd letter ballot.
10. **Working Group Motions (Old Business)** (11-20-1635r3)
    1. **TGbf Vice Chairs** (slide #7)
       1. **Move to confirm Sang Kim and Assaf Kasher as TGbf Vice-Chairs.**
       2. Moved: Edward Au, Seconded: Oscar Au
       3. Result: Approved by unanimous consent
       4. [TGbf Moved: Oscar Au, 2nd: Jinsoo Choi, Result: Approved by unanimous consent]
    2. **Re-affirm P802.11ax CSD** (slide #8)
       1. **Move to Re-affirm the TGax CSD in** [**https://mentor.ieee.org/802.11/dcn/14/11-14-0169-03-0hew-ieee-802-11-hew-sg-proposed-csd.docx**](https://mentor.ieee.org/802.11/dcn/14/11-14-0169-03-0hew-ieee-802-11-hew-sg-proposed-csd.docx)**.**
       2. Moved: Osama Aboul-Magd, Seconded: Youhan Kim
       3. Result: Yes: 111, No: 0, Abstain: 8 (Motion passes)
       4. [TGax Moved: Yasuhiko Inoue, 2nd: Edward Au, Result: 23/0/3]
    3. **TGax Approve Report to EC** (slide #9)
       1. **Approve document** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1771-04-00ax-p802-11ax-report-to-ec-on-conditional-approval-to-forward-draft-to-revcom.pptx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1771-04-00ax-p802-11ax-report-to-ec-on-conditional-approval-to-forward-draft-to-revcom.pptx) **as the report to the IEEE 802 Executive Committee on the requirements for conditional approval to forward P802.11ax to RevCom, and Request the IEEE 802 Executive Committee to conditionally approve forwarding P802.11ax to RevCom.**
       2. Moved: Osama Aboul-Magd, Seconded: Yasuhiko Inoue
       3. Result: Yes: 114, No: 0, Abstain: 10 (Motion passes)
       4. [TGax Moved: Yasuhiko Inoue, 2nd: Youhan Kim, Result: 25-0-1]
    4. **Re-affirm P802.11ay CSD** (slide #10)
       1. **Reaffirm the CSD in** [**https://mentor.ieee.org/802-ec/dcn/19/ec-19-0221-00-ACSD-p802-11ay.docx**](https://mentor.ieee.org/802-ec/dcn/19/ec-19-0221-00-ACSD-p802-11ay.docx)**.**
       2. Moved: Edward Au, Seconded: Assaf Kasher
       3. Result: Yes: 102, No: 1, Abstain: 8 (Motion passes)
       4. [TGay Moved: Claudio da Silva, 2nd: Alecsander Eitan, Result: 26/0/2]
    5. **TGay Approve Report to EC** (slide #11)
       1. **Approve document** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1708-03-00ay-p802-11ay-report-to-ec-on-approval-to-forward-to-revcom.pptx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1708-03-00ay-p802-11ay-report-to-ec-on-approval-to-forward-to-revcom.pptx) **as the report to the IEEE 802 Executive Committee on the requirements for conditional approval to forward P802.11ay to RevCom, and**
       2. **Request the IEEE 802 Executive Committee to conditionally approve forwarding P802.11ay to RevCom, granting the WG chair editorial license.**
       3. Moved: Edward Au, Seconded: Sang Kim
       4. Result: Yes: 103, No: 0, Abstain: 12 (Motion passes)
       5. [TGay Moved: Alecsander Eitan, 2nd: Claudio da Silva, Result: 19/0/4]
    6. **Re-affirm P802.11ba CSD** (slide #12)
       1. **Re-affirm the CSD in** [**https://mentor.ieee.org/802.11/dcn/16/11-16-0936-04-0wur-a-csd-proposal-for-wake-up-radio-wur.docx**](https://mentor.ieee.org/802.11/dcn/16/11-16-0936-04-0wur-a-csd-proposal-for-wake-up-radio-wur.docx)**.**
       2. Moved: Minyoung Park, Seconded: Po-Kai Huang
       3. Result: Yes: 89, No: 0, Abstain: 13 (Motion passes)
       4. [TGba Moved: Po-Kai Huang, 2nd: Yongho Seok, Result: Approved by unanimous consent]
    7. **TGba Approve Report to EC** (slide #13)
       1. **Approve the report in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1707-02-00ba-p802-11ba-report-to-ec-on-approval-to-forward-draft-to-revcom.pptx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1707-02-00ba-p802-11ba-report-to-ec-on-approval-to-forward-draft-to-revcom.pptx) **as the report to the IEEE 802 EC on the requirements for conditional approval to forward P802.11ba D8.0 to RevCom, granting the WG chair editorial license.**
       2. Moved: Minyoung Park, Seconded: Po-Kai Huang
       3. Q: can we remove the D8.0 from the motion please?
       4. Chair: As a friendly amendment to the motion, is there any objection to removing the text “D8.0” from the motion (11ba motion) by the mover and seconder.
       5. No objection
       6. **Approve the report in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1707-02-00ba-p802-11ba-report-to-ec-on-approval-to-forward-draft-to-revcom.pptx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1707-02-00ba-p802-11ba-report-to-ec-on-approval-to-forward-draft-to-revcom.pptx) **as the report to the IEEE 802 EC on the requirements for conditional approval to forward P802.11ba to RevCom, granting the WG chair editorial license.**
       7. Result: Yes: 93, No: 1, Abstain: 10 (Motion passes)
       8. [TGba Moved: Po-Kai Huang, 2nd: Steve Shellhammer, Result: Approved by unanimous consent]
    8. **Re-affirm P802.11bc CSD** (slide #14)
       1. **Move to reaffirm the TGbc CSD as contained in** [**https://mentor.ieee.org/802-ec/dcn/18/ec-18-0250-00-ACSD-p802-11bc.pdf**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0250-00-ACSD-p802-11bc.pdf)**.**
       2. Moved by Marc Emmelmann on behalf of the TGbc Task Group
       3. Result: Yes: 93, No: 0, Abstain: 12 (Motion passes)
       4. [TGbc Moved: Xiaofei Wang, 2nd: Stephen McCann, Result: Approved by unanimous consent (20 participants in the call; 15 voting members)]
    9. **TGbc Initial Letter Ballot** (slide #15)
       1. **Move to: Instruct the TGbc editor to prepare IEEE P802.11bc D1.0 by incorporating P802.11bc D0.3 and all accepted changes per motions contained in 11-18/2123r21,**
       2. **And Approve a 30-day Working Group Technical Letter Ballot asking the question “Should P802.11bc D1.0 be forwarded to SA Ballot?”**
       3. Moved: Marc Emmelmann, Seconded: Hitoshi Morioka
       4. Result: Yes: 93, No: 0, Abstain: 15 (Motion passes)
       5. [TGbc Moved: Stephen McCann, 2nd: Abhishek Patil, Result: Approved by unanimous consent (62 people on the call, 36 voting members present)]
    10. **TGbh PAR** (slide #16)
        1. **Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,**
        2. **Request that the PAR contained in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1795-01-0rcm-updated-bh-par-for-review.pdf**](https://mentor.ieee.org/802.11/dcn/20/11-20-1795-01-0rcm-updated-bh-par-for-review.pdf) **be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval to submit to NesCom.**
        3. Moved: Carol Ansley, Seconded: Mark Hamilton
        4. Result: Yes: 83, No: 0, Abstain: 19 (Motion passes)
        5. [RCM SG Moved: Jerome Henry, 2nd: Mark Hamilton, Result: Approved by unanimous consent (37 participants on call)]
    11. **TGbh CSD** (slide #17)
        1. **Believing that the CSD contained in the document referenced below meets IEEE 802 guidelines,**
        2. **Request that the CSD contained in https://mentor.ieee.org/802.11/dcn/20/11-20-1117-05-0rcm-rcm-sg-proposed-rcm-csd-draft.docx be posted to the IEEE 802 Executive Committee (EC) agenda for 802 preview and EC approval.**
        3. Moved: Carol Ansley, Seconded: Joseph Levy
        4. Result: Yes: 87, No: 0, Abstain: 15 (Motion passes)
        5. [RCM SG Moved: Jerome Henry, 2nd: Joseph Levy, Result: Approved by unanimous consent (37 participants on call)]
        6. **TGbi PAR** (slide #18)
        7. **Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,**
        8. **Request that the PAR contained in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1801-00-0rcm-updated-bi-par-for-review.pdf**](https://mentor.ieee.org/802.11/dcn/20/11-20-1801-00-0rcm-updated-bi-par-for-review.pdf) **be posted to the IEEE 802 Executive Committee (EC) agenda for 802 preview and EC approval to submit to NesCom.**
        9. Moved: Carol Ansley, Seconded: Stephen Palm
        10. Result: Yes: 83, No: 0, Abstain: 12 (Motion passes)
        11. [RCM SG Moved: Jouni Malinen, 2nd: Mike Montemurro, Result: Approved by unanimous consent (35 participants on call)]
    12. **TGbi CSD** (slide #19)
        1. **Believing that the CSD contained in the document referenced below meets IEEE 802 guidelines,**
        2. **Request that the CSD contained in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1346-04-0rcm-csd-draft-for-privacy-amendment-of-rcm-project.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1346-04-0rcm-csd-draft-for-privacy-amendment-of-rcm-project.docx) **be posted to the IEEE 802 Executive Committee (EC) agenda for 802 preview and EC approval.**
        3. Moved: Jerome Henry, Seconded: Dan Harkins
        4. Result: Yes: 83, No: 0, Abstain: 12 (Motion passes)
        5. [RCM SG Moved: Stephen McCann, 2nd: Dan Harkins, Result: Approved by unanimous consent (35 participants on call)]
    13. **RCM SG comment responses** (slide #20)
        1. **Move to accept** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1770-06-0rcm-rcm-and-edp-par-and-csd-comment-responses.pptx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1770-06-0rcm-rcm-and-edp-par-and-csd-comment-responses.pptx) **as the response to comments received on the RCM and EDP PAR and CSD documents received from IEEE 802.**
        2. Moved: Mike Montemurro, Seconded: Joseph Levy
        3. Result: Yes: 73, No: 0, Abstain: 12 (Motion passes)
        4. [RCM SG Moved: Stephen McCann, 2nd: Mark Hamilton, Result: Approved by unanimous consent (38 participants on call)]
11. **Working Group Motions (New Business)** (11-20-1635r3)
    1. **REVme PAR** (slide #21)
       1. **Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,**
       2. **Request that the PAR contained in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1682-01-0000-p802-11revme-revision-par.doc**](https://mentor.ieee.org/802.11/dcn/20/11-20-1682-01-0000-p802-11revme-revision-par.doc) **be posted to the IEEE 802 Executive Committee (EC) agenda for 802 preview and EC approval to submit to NesCom.**
       3. Moved: Mark Hamilton Seconded: Emily Qi
       4. Result: Yes: 90, No: 0, Abstain: 5 (Motion passes)
    2. **REVmd minutes** (slide #22)
       1. **Approve the TGmd minutes in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1572-00-000m-telecon-minutes-for-revmd-crc-oct-5-7-and-9-2020.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1572-00-000m-telecon-minutes-for-revmd-crc-oct-5-7-and-9-2020.docx)**.**
       2. Moved: Jon Rosdahl, Second: Edward Au
       3. Result: Approved by unanimous consent
    3. Chair: Congratulations to all the TG’s that have achieved the milestones of conditional approval of their drafts or approval of their PARs.
12. **ANNI SC closing report** (11-20-1631r2 slide #68)
    1. This report summarizes the work done in the ANNI SC during this plenary.
    2. No questions.
13. **Editors’ style guide update** (11-20-1631r2 slide #59)
    1. The editorial style guide has recently been updated based on the current practice from 802.11REVmd, which has now completed its work.
    2. Also note that there is an IEEE style guide that is used as a baseline.
    3. Chair: I would like to thank the editors for all their work.
    4. No questions
14. **Wireless Chairs Meeting** (11-20-1607r1 slide #17)
    1. Please note that this meeting will be on December 9th 2020 at 15:00 ET and everyone is welcome to attend.
15. **Next Meeting** (11-20-1606r0 slide #20)
    1. The proposed date of the next IEEE 802.11 meeting is January 11-15th 2021.
16. **Announcements** (11-20-1607r1 slide #19)
    1. There will be several new groups by the March 2021 meeting, so several officers will be required.
    2. Chair: I will send out a call for candidates once the new groups (bh, bi and me) are approved by the EC that is meeting on Friday November 13th.
17. **AoB**
    1. None
18. **Adjournment**
    1. Chair: Happy Holidays and I hope everyone is able to take some time off.
    2. Having completed the agenda, the chair announced that the meeting was adjourned at 10:38 EST.

**Annex A: Attendance & Affiliation**

| **Name** | **Affiliation** | **Attended >= 6 sessions?** | **Status** |
| --- | --- | --- | --- |
| Abdelaal, Rana | Broadcom Corporation | Yes | Voter |
| AbidRabbu, Shaima' | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| Abouelseoud, Mohamed | Sony Corporation | No | Voter |
| Aboulmagd, Osama | Huawei Technologies Co., Ltd | Yes | Voter |
| Abushattal, Abdelrahman | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| Adachi, Tomoko | TOSHIBA Corporation | Yes | Voter |
| Adhikari, Shubhodeep | Broadcom Corporation | Yes | Voter |
| Agarwal, Peyush | Broadcom Corporation | Yes | Voter |
| Agrawal, abhishek | ON Semiconductor | Yes | Voter |
| Agrawal, Sandeep | C-DOT/Centre for Development of Telematics | Yes | Voter |
| Ahn, Woojin | WILUS | No | Voter |
| Aio, Kosuke | Sony Corporation | Yes | Voter |
| Akhavan, Koorosh | Qualcomm Incorporated | No | Non-Voter |
| Akhmetov, Dmitry | Intel Corporation | Yes | Voter |
| AKHTAR, NADEEM | Arista Networks, Inc. | No | Non-Voter |
| Alayasra, Musab | Medipol University; Vestel | No | Aspirant |
| Aldana, Carlos | Facebook | Yes | Aspirant |
| Alex, Sam | Facebook | No | Aspirant |
| Alexander, Danny | Intel Corporation | Yes | Aspirant |
| Allegue Martinez, Michel | Aerial Technologies Inc | Yes | Voter |
| Ambede, Abhishek | Ericsson AB | Yes | Aspirant |
| Amini, Peiman | Broadcom Corporation | No | Non-Voter |
| Amitai, Assaf | Broadcom Corporation | No | Non-Voter |
| An, Song-Haur | INDEPENDENT | Yes | Voter |
| ANANDAKUMAR, KRISHNASAMY | Maxlinear Inc | Yes | Aspirant |
| Andersdotter, Amelia | None - Self-funded | Yes | Voter |
| Ansley, Carol | IEEE member / Self Employed | Yes | Voter |
| Anwyl, Gary | MediaTek Inc. | Yes | Potential Voter |
| Arlandis, Diego | Maxlinear Corp | Yes | Aspirant |
| Arregui, Antonio | Maxlinear | Yes | Aspirant |
| Arrington, Arthur | Air Network Solutions | No | Voter |
| Asai, Yusuke | NTT | Yes | Potential Voter |
| Asterjadhi, Alfred | Qualcomm Incorporated | Yes | Voter |
| Atefi, Ali | Self Employed | No | Aspirant |
| Au, Kwok Shum | Huawei Technologies Co., Ltd | Yes | Voter |
| Au, Oscar | Origin Wireless | Yes | Voter |
| Auluck, Vijay | Self | Yes | Voter |
| Avital, Ziv | MaxLinear | Yes | Aspirant |
| Avrillon, Matthieu | Luceor | No | Voter |
| Awater, Geert | Qualcomm Incorporated | Yes | Voter |
| AYGOR, KEMAL | Vestel Elektronik | No | Non-Voter |
| Aygul, Mehmet | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| B, Hari Ram | NXP Semiconductors | Yes | Potential Voter |
| Badenes, Agustin | Maxlinear Corp | Yes | Aspirant |
| Baek, SunHee | LG ELECTRONICS | Yes | Potential Voter |
| Bahn, Christy |  | No | Non-Voter |
| Baik, Eugene | Qualcomm Incorporated | Yes | Voter |
| Bajko, Gabor | MediaTek Inc. | Yes | Voter |
| Banerjea, Raja | Qualcomm Incorporated | Yes | Potential Voter |
| Bankov, Dmitry | IITP RAS | Yes | Potential Voter |
| Bapat, Sanjay | Maxlinear | Yes | Aspirant |
| baron, stephane | Canon Research Centre France | Yes | Voter |
| Barr, David | Intel Corporation | Yes | Aspirant |
| Batra, Anuj | Apple, Inc. | Yes | Voter |
| Baykas, Tuncer | Istanbul Medipol University, Hyperion Technologies | Yes | Voter |
| BECHADERGUE, Bastien | OLEDCOMM | Yes | Voter |
| Beg, Chris | Cognitive Systems Corp. | Yes | Potential Voter |
| Bei, Jianwei | NXP Semiconductors | Yes | Voter |
| Ben Arie, Yaron | Toga networks (a huawei company) | Yes | Voter |
| ben yahia, olfa | vestel | No | Non-Voter |
| Berens, Friedbert | FBConsulting Sarl | Yes | Voter |
| Berger, Catherine | IEEE STAFF | No | Non-Voter |
| Berger, Christian | NXP Semiconductors | Yes | Voter |
| Berkema, Alan | HP Inc. | Yes | Voter |
| Berner, Stephan | PureLiFi | Yes | Potential Voter |
| Bhandaru, Nehru | Broadcom Corporation | Yes | Voter |
| Bims, Harry | Bims Laboratories, Inc. | Yes | Voter |
| Bluschke, Andreas | Signify | Yes | Potential Voter |
| Bober, Lennert | Fraunhofer Heinrich Hertz Institute | Yes | Voter |
| Boldy, David | Broadcom Corporation | Yes | Voter |
| Bolotin, Ilya | Intel | No | Aspirant |
| Bouchet, Olivier | Orange | No | Voter |
| Bravo, Daniel | Intel Corporation | Yes | Aspirant |
| Bredewoud, Albert | Broadcom Corporation | Yes | Voter |
| Calcev, George | Huawei R&D USA | No | Voter |
| Camps Soriano, Carlos | MaxLinear Corp | Yes | Aspirant |
| Canchi, Radhakrishna | Kyocera International Inc | Yes | Voter |
| Cao, Rui | NXP Semiconductors | Yes | Voter |
| Cariou, Laurent | Intel Corporation | Yes | Voter |
| Carney, William | Sony Corporation | Yes | Voter |
| Cavalcanti, Dave | Intel Corporation | Yes | Voter |
| Cepni, Gurkan | Apple, Inc. | Yes | Voter |
| Cha, Jaesun | Electronics and Telecommunications Research Institute (ETRI) | No | Aspirant |
| CHAN, YEE | Facebook | Yes | Potential Voter |
| Chang, Soo-Young | California State University, Sacramento (CSUS) | No | Voter |
| Chao, Yi-Ling | NXP Semiconductors | No | Non-Voter |
| Chaplin, Clint | Self | No | ExOfficio |
| Chayat, Naftali | Vayyar Imaging | Yes | Aspirant |
| Chen, Chaoliang | iComm Semiconductor | No | Non-Voter |
| Chen, Cheng | Intel Corporation | Yes | Voter |
| Chen, Cheng-Ming | Qualcomm Incorporated | Yes | Potential Voter |
| Chen, Evelyn | Ericsson AB | Yes | Voter |
| chen, jindou | Huawei Technologies Co., Ltd | Yes | Aspirant |
| Chen, Na | MaxLinear Corp | Yes | Voter |
| Chen, Peng | Huawei Technologies Co., Ltd | No | Non-Voter |
| Chen, Xiaogang | Intel Corporation | Yes | Voter |
| Chen, Zheng |  | No | Non-Voter |
| Cheng, Gang | Nokia | No | Non-Voter |
| Cheng, Paul | MediaTek Inc. | Yes | Voter |
| Cheng, Xilin | NXP Semiconductors | Yes | Potential Voter |
| CHERIAN, GEORGE | Qualcomm Incorporated | Yes | Voter |
| Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. | Yes | Voter |
| Cho, Hangyu | LG ELECTRONICS | Yes | Voter |
| cho, shinho | allradio | No | Non-Voter |
| Choi, Jaehyuk | Gachon University | No | Aspirant |
| Choi, Jinsoo | LG ELECTRONICS | Yes | Voter |
| Choo, Seungho | Senscomm Semiconductor Co., Ltd. | Yes | Potential Voter |
| Chu, Liwen | NXP Semiconductors | Yes | Voter |
| CHUN, JINYOUNG | LG ELECTRONICS | Yes | Potential Voter |
| Chung, Bruce | Realtek Semiconductor Corp. | No | Voter |
| Chung, Chulho | SAMSUNG | Yes | Potential Voter |
| Ciochina, Dana | Sony Corporation | Yes | Voter |
| Coffey, John | Realtek Semiconductor Corp. | Yes | Voter |
| Cohn, Daniel | Intel Corporation | Yes | Aspirant |
| Congdon, Paul | Huawei Technologies Co., Ltd | No | Non-Voter |
| Cordeiro, Carlos | Intel Corporation | Yes | Voter |
| Costa, D.Nelson | Peraso Technologies Incorporated | Yes | Voter |
| Cotton, Michael G | NTIA | No | Non-Voter |
| da Silva, Claudio | Intel Corporation | Yes | Voter |
| Das, Dibakar | Intel Corporation | Yes | Voter |
| Das, Subir | Perspecta Labs Inc | Yes | ExOfficio |
| Dash, Debashis | Apple | Yes | Voter |
| Dauphinee, Leonard | MaxLinear Corp | Yes | Voter |
| Dave, Brajesh | Apple, Inc. | No | Aspirant |
| Davies, Robert | Signify | Yes | Potential Voter |
| De Ruijter, Hendricus | Silicon Laboratories | No | Non-Voter |
| de Vegt, Rolf | Qualcomm Incorporated | Yes | Voter |
| DeLaOlivaDelgado, Antonio | InterDigital, Inc. | Yes | Voter |
| Derham, Thomas | Broadcom Corporation | Yes | Voter |
| Di Taranto, Rocco | Ericsson AB | Yes | Aspirant |
| Ding, Baokun | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Ding, Yanyi | Panasonic corporation | Yes | Voter |
| DOAN, DUNG | Qualcomm Incorporated | Yes | Potential Voter |
| Dogukan, Ali | Vestel | Yes | Aspirant |
| Dong, Xiandong | Xiaomi Inc. | Yes | Voter |
| Doostnejad, Roya | Intel Corporation | Yes | Voter |
| Du, Rui | Huawei Technologies Co., Ltd | Yes | Voter |
| Du, Zhenguo | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Duan, Ruchen | SAMSUNG | Yes | Voter |
| Ecclesine, Peter | Cisco Systems, Inc. | Yes | Voter |
| Edelmayer, Andras | Commsignia | No | Non-Voter |
| Edgar, Richard | Imagination Technologies Ltd. | Yes | Voter |
| Eitan, Alecsander | Qualcomm Incorporated | Yes | Voter |
| ElSherif, Ahmed | Qualcomm Incorporated | Yes | Voter |
| Emmelmann, Marc | Self Employed / Koden-TI / Fraunhofer FOKUS | Yes | Voter |
| Erceg, Vinko | Broadcom Corporation | Yes | Voter |
| Erell, Assaf | Vayyar Imaging Ltd. | Yes | Aspirant |
| Fang, Juan | Intel Corporation | Yes | Aspirant |
| Fang, Yonggang | Self | Yes | Voter |
| Fedyk, Donald | Nortel Networks | No | Non-Voter |
| feng, Shuling | MediaTek Inc. | Yes | Potential Voter |
| Feng, Xiang | Keysight Technologies | Yes | Voter |
| Ferruz, David | Maxlinear Corp | Yes | Aspirant |
| Filippi, Alessio | NXP Semiconductors | No | Voter |
| Fischer, Matthew | Broadcom Corporation | Yes | Voter |
| Fletcher, Paul | Samsung Cambridge Solution Center | No | Voter |
| Foland, Jeremy | Qorvo | No | Voter |
| Fridman, Roi | Vayyar Imaging Ltd | Yes | Aspirant |
| Furuichi, Sho | Sony Corporation | Yes | Voter |
| Gan, Ming | Huawei Technologies Co., Ltd | Yes | Voter |
| Ganwani, Vijay | NXP Semiconductors | Yes | Potential Voter |
| Gao, Zhigang | Cisco Systems, Inc. | Yes | Aspirant |
| Garcia Rodriguez, Adrian Jose | Nokia | No | Voter |
| Gardner, James | Qualcomm Incorporated | Yes | Voter |
| Garg, Lalit | Broadcom Corporation | Yes | Voter |
| Ghaderipoor, Alireza | MediaTek Inc. | Yes | Aspirant |
| Ghosh, Chittabrata | Intel Corporation | Yes | Voter |
| Gidvani, Ravi | SAMSUNG | Yes | Aspirant |
| Gilb, James | General Atomics Aeronautical Systems, Inc. | No | ExOfficio |
| Godbole, sachin | Broadcom Corporation | No | Voter |
| Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) | No | ExOfficio |
| Goldberg, Jonathan | IEEE STAFF | No | Non-Voter |
| Golmie, Nada | National Institute of Standards and Technology (NIST) | No | Non-Voter |
| Gong, Bo | Huawei Technologies Co., Ltd | Yes | Aspirant |
| Goodall, David | Morse Micro | No | Non-Voter |
| GOTO, Fumihide | DENSO | Yes | Voter |
| Grandhe, Niranjan | NXP Semiconductors | Yes | Voter |
| Grigat, Michael | Deutsche Telekom AG | Yes | Voter |
| Gu, Xiangxin | Unisoc | No | Non-Voter |
| GUIGNARD, Romain | Canon Research Centre France | Yes | Potential Voter |
| Guntupalli, Lakshmikanth | Ericsson AB | Yes | Voter |
| Guo, Yuchen | Huawei Technologies Co., Ltd | Yes | Voter |
| Gupta, Priti | Samsung Cambridge Solution Center | No | Non-Voter |
| Gurevitz, Assaf | INTEL | Yes | Aspirant |
| Gwak, Yongsu | Korea National University of Transportation | No | Voter |
| Haasz, Jodi | IEEE Standards Association (IEEE-SA) | No | Non-Voter |
| Haider, Muhammad Kumail | Facebook | Yes | Potential Voter |
| Hall, Robert | CONSULTANT | Yes | Voter |
| Hamilton, Mark | Ruckus/CommScope | Yes | Voter |
| HAN, CHONG | pureLiFi | Yes | Potential Voter |
| Han, Jonghun | SAMSUNG | Yes | Voter |
| HAN, Xiao | Huawei Technologies Co., Ltd | Yes | Voter |
| Han, Zhiqiang | ZTE Corporation | Yes | Potential Voter |
| Handte, Thomas | Sony Corporation | Yes | Voter |
| Hansen, Christopher | Covariant Corporation | Yes | Voter |
| Haran, Onn | Auto-Talks | No | Non-Voter |
| Harkins, Daniel | Aruba Networks, Inc. | No | Voter |
| Harrison, Edward | Anritsu Company | Yes | Voter |
| Hart, Brian | Cisco Systems, Inc. | Yes | Voter |
| Haskou, Abdullah | InterDigital, Inc. | Yes | Potential Voter |
| Healey, Adam | Broadcom Inc. | No | Non-Voter |
| Hedayat, Ahmadreza | Charter Communications | No | Voter |
| Henry, Jerome | Cisco Systems, Inc. | Yes | Voter |
| hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) | Yes | Voter |
| Hiertz, Guido | Ericsson GmbH | Yes | Voter |
| Hirata, Ryuichi | Sony Corporation | Yes | Voter |
| Hiroki, Shigeru | Canon Research Centre France | Yes | Potential Voter |
| Ho, Duncan | Qualcomm Incorporated | Yes | Voter |
| Hoffman, Damian | Vayyar Imaging | Yes | Aspirant |
| Holcomb, Jay | Itron Inc. | No | ExOfficio |
| Holland, Oliver | Advanced Wireless Technology Group, Ltd. | Yes | Voter |
| Hong, Hanseul | WILUS Inc. | Yes | Voter |
| Hopf, Daniel | Continental Automotive GmbH | No | Non-Voter |
| Hsiao, Ching-Wen | MediaTek Inc. | Yes | Voter |
| Hsieh, Hung-Tao | MediaTek Inc. | Yes | Voter |
| Hsu, Chien-Fang | MediaTek Inc. | Yes | Voter |
| Hu, Chunyu | Facebook | Yes | Voter |
| Hu, Glenn | Tencent | Yes | Voter |
| Hu, Mengshi | HUAWEI | Yes | Potential Voter |
| Huang, Guogang | Huawei Technologies Co., Ltd | Yes | Voter |
| Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | Yes | Voter |
| Huang, Po-Kai | Intel Corporation | Yes | Voter |
| Huang, Xiaolong | Qualcomm Incorporated | No | Aspirant |
| Hurtarte, Jeorge | Teradyne, Inc. | Yes | Voter |
| Hwang, Sung Hyun | Electronics and Telecommunications Research Institute (ETRI) | No | Voter |
| Ibrahim, Mostafa | SAMSUNG ELECTRONICS | Yes | Voter |
| IDO, Tetsuo | Canon | Yes | Potential Voter |
| Ikegami, Tetsushi | Meiji University | Yes | Voter |
| Inohiza, Hirohiko | Canon | Yes | Potential Voter |
| Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) | Yes | Voter |
| Iranzo, Salvador | Maxlinear Corp. | Yes | Aspirant |
| Iwai, Takashi | Panasonic Corporation | No | Non-Voter |
| Iwatani, Junichi | Nippon Telegraph and Telephone Corporation (NTT) | No | Non-Voter |
| Izquierdo, Eduardo | Maxlinear Corp. | Yes | Aspirant |
| Jacobs, Darnell | US Department of Defense | No | Non-Voter |
| Jain, Mayank | Kumu Networks | No | Aspirant |
| Jamalabdollahi, Mohsen | Cisco Systems, Inc. | No | Non-Voter |
| Jang, Insun | LG ELECTRONICS | Yes | Voter |
| Jaramillo, Jesus | Amphenol Corporation | No | Non-Voter |
| Jauh, Alan | Unisoc Comm. | No | Voter |
| Jeffries, Timothy | Huawei R&D USA | Yes | Voter |
| Jeon, Eunsung | SAMSUNG ELECTRONICS | Yes | Potential Voter |
| Jeong, Yangseok | KT Corp. | No | Aspirant |
| Ji, Chenhe | Huawei Technologies Co., Ltd | Yes | Voter |
| Jia, Jia | Huawei Technologies Co., Ltd | Yes | Voter |
| jiang, feng | Apple Inc. | Yes | Voter |
| Jiang, Jinjing | Apple, Inc. | Yes | Voter |
| jiang, yiming | Nokia | No | Non-Voter |
| Jin, Liang | Spirent Communications | No | Aspirant |
| Jones, Allan | Activision | No | Voter |
| JONES, JEFFRUM | Qorvo | No | Voter |
| Jones, Steven | Samsung Cambridge Solution Center | No | Aspirant |
| Jones, Vincent Knowles IV | Qualcomm Incorporated | Yes | Voter |
| JOO, SEONG-SOON | ETRI | No | Non-Voter |
| Jung, hyojin | Hyundai Motor Company | No | Voter |
| JUNG, MYUNG CHEUL | Pantech Inc. | Yes | Voter |
| Jungnickel, Volker | Fraunhofer Heinrich Hertz Institute | Yes | Voter |
| Kadampot, Ishaque Ashar | Qualcomm Incorporated | Yes | Potential Voter |
| Kain, Carl | Noblis, Inc. | Yes | Voter |
| Kakani, Naveen | Qualcomm Incorporated | Yes | Voter |
| kamath, Manoj | Broadcom Corporation | Yes | Aspirant |
| Kamel, Mahmoud | InterDigital, Inc. | Yes | Potential Voter |
| Kandala, Srinivas | SAMSUNG | Yes | Voter |
| Kang, Hyunduk | Electronics and Telecommunications Research Institute (ETRI) | Yes | Potential Voter |
| KANG, Kyu-Min | Electronics and Telecommunications Research Institute (ETRI) | No | Voter |
| Kang, Sugbong | Apple, Inc. | Yes | Aspirant |
| KANG, TEAG JIN | Broadcom Corporation | No | Voter |
| Kasher, Assaf | Qualcomm Incorporated | Yes | Voter |
| Kedem, Oren | Huawei Technologies Co., Ltd | Yes | Aspirant |
| Kelsey, Randy | Engineering Solutions Inc | No | Non-Voter |
| Kenney, John | TOYOTA InfoTechnology Center U.S.A. | Yes | Voter |
| Kerry, Stuart | OK-Brit; Self | Yes | Voter |
| Khan, Naseem | Leidos Engineering. LLC | Yes | Voter |
| Khericha, samir | Broadcom Corporation | No | Aspirant |
| Khorov, EVGENY | IITP RAS | Yes | Voter |
| Khude, Nilesh | NXP Semiconductors | Yes | Potential Voter |
| Kim, Eunhee | Electronics and Telecommunications Research Institute (ETRI) | No | Aspirant |
| Kim, Jeongki | LG ELECTRONICS | Yes | Voter |
| Kim, Jin Min | SAMSUNG ELECTRONICS | No | Voter |
| Kim, Juha | Telecommunications Technology Association (TTA) | No | Non-Voter |
| Kim, Myeong-Jin | SAMSUNG | Yes | Voter |
| kim, namyeong | LG ELECTRONICS | Yes | Potential Voter |
| Kim, Sang Gook | LG ELECTRONICS | Yes | Voter |
| Kim, Sanghyun | WILUS Inc. | Yes | Voter |
| Kim, Songhak | Kaonmedia | No | Non-Voter |
| Kim, Suhwook | LG ELECTRONICS | No | Voter |
| Kim, Yongho | Korea National University of Transportation | Yes | Voter |
| Kim, Youhan | Qualcomm Incorporated | Yes | Voter |
| KIM, Youngjae | Telecommunications Technology Association (TTA) | No | Aspirant |
| Kim, Youn-Kwan | The Catholic University of Korea | No | Voter |
| Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) | Yes | Voter |
| Kitazawa, Shoichi | Muroran IT | Yes | Potential Voter |
| Klein, Arik | Huawei Technologies Co., Ltd | Yes | Voter |
| Klimakov, Andrey | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Kloper, David | Cisco Systems, Inc. | No | Voter |
| KNECKT, JARKKO | Apple, Inc. | Yes | Voter |
| Ko, Geonjung | WILUS Institute | Yes | Voter |
| Koc, Onur | Onur Koc Vestel | No | Non-Voter |
| Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) | Yes | Voter |
| Kondylis, George | Broadcom Corporation | No | Non-Voter |
| Korvick, Mark | Apple, Inc. | No | Aspirant |
| Kozarev, Aleksandra | MaxLinear Corp | Yes | Aspirant |
| Krieger, Ann | US Department of Defense | No | Non-Voter |
| kristem, vinod | Intel Corporation | Yes | Aspirant |
| Kumar, Manish | Marvell Semiconductor, Inc. | Yes | Voter |
| Kureev, Aleksey | IITP RAS | Yes | Potential Voter |
| Kwak, Jin-Sam | WILUS Inc. | Yes | Voter |
| Kwon, Young Hoon | NXP Semiconductors | Yes | Voter |
| Lai, Gavin | Moxa | No | Non-Voter |
| Lalam, Massinissa | SAGEMCOM SAS | Yes | Voter |
| Lan, Zhou | Broadcom Corporation | Yes | Voter |
| Lanante, Leonardo | Kyushu Institute of Technology | No | Voter |
| Lansford, James | Qualcomm Incorporated | Yes | Voter |
| Latif, Imran | Quantenna Communications, Inc. | No | Voter |
| Le Houerou, Brice | Canon Research Centre France | Yes | Potential Voter |
| Lee, Hyeong Ho | Netvision Telecom Inc. | Yes | Voter |
| Lee, Il-Gu | Sungshin University | No | Aspirant |
| Lee, Jae Seung | ETRI | Yes | Voter |
| Lee, Kyeseon | ETRI | No | Non-Voter |
| Lee, Nancy | Signify | Yes | Potential Voter |
| Lee, Wookbong | SAMSUNG | Yes | Voter |
| LEI, JUN | Beijing Nufront Mobile Multimedia Technology | No | Non-Voter |
| Lepp, James | BlackBerry | Yes | Voter |
| Levitsky, Ilya | IITP RAS | Yes | Voter |
| Levy, Joseph | InterDigital, Inc. | Yes | Voter |
| Li, Bo | Northwestern Polytechnical University | Yes | Aspirant |
| Li, Guoqing | Apple, Inc. | Yes | Voter |
| Li, Jialing | Qualcomm Incorporated | Yes | Potential Voter |
| Li, Jianhui | Huawei Technologies Co., Ltd | Yes | Voter |
| Li, Liang | Vinno Technologies Inc. | No | Non-Voter |
| Li, Nan | ZTE Corporation | Yes | Voter |
| Li, Qinghua | Intel Corporation | Yes | Voter |
| Li, Yanchun | Huawei Technologies Co., Ltd | Yes | Voter |
| Li, Yiqing | Huawei Technologies Co. Ltd | Yes | Voter |
| Li, Yunbo | Huawei Technologies Co., Ltd | Yes | Voter |
| Liang, dandan | Huawei Technologies Co., Ltd | No | Voter |
| Lim, Dong Guk | LG ELECTRONICS | Yes | Voter |
| Lim, Sang-Kyu | Electronics and Telecommunications Research Institute (ETRI) | No | Non-Voter |
| Lin, Cheng-Hui | Qorvo | No | Voter |
| Lin, Wei | Huawei Technologies Co., Ltd | Yes | Voter |
| Lindskog, Erik | SAMSUNG | Yes | Voter |
| Lissack, Zeev | Vayyar | No | Non-Voter |
| LIU, CHENCHEN | Huawei Technologies Co., Ltd | Yes | Voter |
| Liu, Der-Zheng | Realtek Semiconductor Corp. | No | Voter |
| Liu, Jeff | Broadcom Corporation | Yes | Voter |
| Liu, Jianfei | HUAWEI | Yes | Aspirant |
| Liu, Jianhan | MediaTek Inc. | Yes | Voter |
| Liu, Ronald | Ericsson AB | No | Aspirant |
| Liu, Ying | NXP Semiconductors | Yes | Aspirant |
| Liu, Yong | Apple, Inc. | Yes | Voter |
| Loginov, Vyacheslav | IITP RAS | Yes | Potential Voter |
| Lopez, Miguel | Ericsson AB | Yes | Voter |
| Lorgeoux, Mikael | Canon Research Centre France | Yes | Aspirant |
| Lou, Hanqing | InterDigital, Inc. | Yes | Potential Voter |
| Lou, Hui-Ling | NXP Semiconductors | Yes | Voter |
| Louzir, Ali | InterDigital, Inc. | No | Non-Voter |
| Lu, Kaiying | MediaTek Inc. | Yes | Voter |
| Lu, Liuming | ZTE Corporation | Yes | Voter |
| Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. | Yes | Potential Voter |
| Luu, David | Juniper Networks, Inc. | No | Non-Voter |
| Lv, Lily | Huawei Technologies Co., Ltd | Yes | Voter |
| Ma, Li | MediaTek Inc. | Yes | Potential Voter |
| Ma, Mengyao | HUAWEI | Yes | Voter |
| Madpuwar, Girish | Broadcom Corporation | Yes | Voter |
| Mai, Huiheng | Blu Wireless Technology Ltd | No | Aspirant |
| Malinen, Jouni | Qualcomm Incorporated | Yes | Voter |
| Maltsev, Alexander | Intel Corporation | No | Voter |
| Manakkal, Raja Rajesh | Broadcom Corporation | Yes | Aspirant |
| Mano, Hiroshi | Koden Techno Info K.K. | No | Voter |
| Marks, Roger | EthAirNet Associates | No | ExOfficio |
| Martinez Vazquez, Marcos | MaxLinear Corp | Yes | Potential Voter |
| Mashimo, Hiroshi | Canon | Yes | Aspirant |
| Max, Sebastian | Ericsson AB | Yes | Voter |
| Mazor, Nadav | Vayyar Ltd | Yes | Aspirant |
| McCall, David | Intel Corporation | No | Non-Voter |
| McCann, Stephen | Huawei Technologies Co., Ltd | Yes | Voter |
| Mcconnell, Ray | Blu Wireless Technology Ltd | No | Aspirant |
| Mehrnoush, Morteza | Facebook | Yes | Potential Voter |
| Mein, John | IEEE/SELF | No | Non-Voter |
| MELZER, Ezer | Toga Networks, a Huawei company | Yes | Voter |
| Memisoglu, Ebubekir | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| Merlin, Simone | Qualcomm Incorporated | Yes | Voter |
| Minotani, Jun | Panasonic Corporation | No | Voter |
| Mirfakhraei, Khashayar | Cisco Systems, Inc. | Yes | Voter |
| Mody, Apurva | BAE Systems | No | ExOfficio |
| Moelker, Dignus-Jan | Broadcom Corporation | Yes | Aspirant |
| Mohanty, Bibhu | Qualcomm Incorporated | No | Voter |
| Monajemi, Pooya | Cisco Systems, Inc. | Yes | Voter |
| Montemurro, Michael | Huawei Technologies Co. Ltd | Yes | Voter |
| Montreuil, Leo | Broadcom Corporation | Yes | Potential Voter |
| Moon, Juseong | Korea National University of Transportation | Yes | Aspirant |
| Morioka, Hitoshi | SRC Software | Yes | Voter |
| Moskowitz, Robert | Verizon | No | Non-Voter |
| Motozuka, Hiroyuki | Panasonic Corporation | Yes | Voter |
| Mueller, Robert | Ilmenau University of Technology - TU Ilmenau | Yes | Voter |
| Murphy, Rick | vLogic, Inc. | No | Aspirant |
| Murti, Wisnu | SeoulTech | Yes | Voter |
| Myles, Andrew | Cisco Systems, Inc. | Yes | Voter |
| Nagai, Yukimasa | Mitsubishi Electric Corporation | Yes | Voter |
| nagata, kengo | Nippon Telegraph and Telephone Corporation (NTT) | Yes | Voter |
| Nakano, Hiroki | CAHI Corporation; Kyoto University | Yes | Potential Voter |
| Nakano, Takayuki | Panasonic Corporation | Yes | Aspirant |
| Nam, Junyoung | Qualcomm Incorporated | Yes | Potential Voter |
| Namboodiri, Vamadevan | SAMSUNG ELECTRONICS | No | Aspirant |
| Nandagopalan, SAI SHANKAR | Cypress Semiconductor Corporation | Yes | Voter |
| Naribole, Sharan | SAMSUNG | Yes | Voter |
| Nassiri Toussi, Karim | Broadcom Corporation | Yes | Aspirant |
| New, Anthony | Prysmian Cables & Systems | No | Non-Voter |
| Nezou, Patrice | Canon Research Centre France | Yes | Voter |
| Nguyen, An | U.S. Department of Homeland Security | Yes | Voter |
| Nikolich, Paul | self employed/various | No | ExOfficio |
| Noh, Si-Chan | Newratek | No | Voter |
| Noh, Yujin | Newracom Inc. | Yes | Voter |
| Nurani Krishnan, Neelakantan | Qualcomm Incorporated | Yes | Potential Voter |
| Ochiai, Yuya | Buffalo Inc. | No | Aspirant |
| Oh, Hyun Seo | Electronics and Telecommunications Research Institute (ETRI) | Yes | Voter |
| Oh, Youngseok | SK Telecom | No | Voter |
| Ohsawa, Tomoki | NICT | No | Voter |
| Okada, Hiraku | Nagoya University | Yes | Potential Voter |
| Omar, Hassan | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Oren, Elad | Intel Corporation | Yes | Aspirant |
| Orlik, Philip | Mitsubishi Electric Research Labs (MERL) | Yes | Aspirant |
| Orlovsky, Michael | Vayyar Imaging LTD. | Yes | Aspirant |
| Orr, Stephen | Cisco Systems, Inc. | Yes | Aspirant |
| Ouchi, Masatomo | Canon | Yes | Potential Voter |
| Oyama, Satoshi | Association of Radio Industries and Businesses (ARIB) | Yes | Potential Voter |
| Ozbakis, Basak | VESTEL Electronics Corp. | Yes | Potential Voter |
| OZDEN ZENGIN, OZLEM | VESTEL | Yes | Aspirant |
| Ozpoyraz, Burak | Vestel | No | Non-Voter |
| Palayur, Saju | Maxlinear Inc. | Yes | Aspirant |
| Palm, Stephen | Broadcom Corporation | Yes | Voter |
| Palmer, Clark | Meteorcomm | No | Non-Voter |
| Pan, Chun | Huawei Technologies Co., Ltd | No | Voter |
| Pare, Thomas | MediaTek Inc. | Yes | Voter |
| Parekh, Jatin | Arista Networks, Inc. | No | Voter |
| Park, Eunsung | LG ELECTRONICS | Yes | Voter |
| Park, Hyun Soo | Leaders Tech. Co.,ltd. | No | Aspirant |
| Park, Minyoung | Intel | Yes | Voter |
| Park, Sung-jin | LG ELECTRONICS | No | Aspirant |
| Park, Taejoon | Electronics and Telecommunications Research Institute (ETRI) | No | Non-Voter |
| Parsons, Glenn | Ericsson AB | Yes | ExOfficio |
| Patil, Abhishek | Qualcomm Incorporated | Yes | Voter |
| Patwardhan, Gaurav | Hewlett Packard Enterprise | Yes | Voter |
| Perahia, Eldad | Hewlett Packard Enterprise | Yes | Potential Voter |
| Perkins, Richard | Qorvo | No | Voter |
| Perlmutter, Uri | Intel Corporation | Yes | Aspirant |
| PESIN, ANTHONY | InterDigital, Inc. | Yes | Potential Voter |
| Petranovich, James | ViaSat, Inc. | Yes | Voter |
| petrick, Albert | Jones-Petrick and Associates, LLC. | Yes | Voter |
| Petry, Brian | Broadcom Corporation | Yes | Voter |
| Pettersson, Charlie | Ericsson AB | Yes | Voter |
| Pirhonen, Riku | NXP Semiconductors | Yes | Potential Voter |
| Popov, Mark | Vayyar | Yes | Aspirant |
| porat, ron | Broadcom Corporation | Yes | Voter |
| Prabhakaran, Dinakar | Broadcom Corporation | Yes | Potential Voter |
| Puducheri, Srinath | Broadcom Corporation | Yes | Voter |
| Pulikkoonattu, Rethnakaran | Broadcom Corporation | Yes | Voter |
| Purwita, Ardimas | University of Edinburgh | No | Aspirant |
| Pushkarna, Rajat | Panasonic Asia Pacific Pte Ltd. | Yes | Potential Voter |
| Pyo, SungChul | Hanyang Univerisity | No | Non-Voter |
| Qi, Emily | Intel Corporation | Yes | Voter |
| QIU, WEI | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Rafique, Saira | Istanbul Medipol University, Vestel | Yes | Potential Voter |
| Rai, Kapil | Qualcomm Incorporated | Yes | Potential Voter |
| Raissinia, Alireza | Qualcomm Incorporated | Yes | Voter |
| Rakanovic, Demir | u-blox | No | Voter |
| Ramesh, Sridhar | Maxlinear Inc. | No | Non-Voter |
| Randall, Karen | Tallac/self | No | Non-Voter |
| Ranganath, Ashok | SAMSUNG | No | Aspirant |
| Rantala, Enrico-Henrik | Nokia | Yes | Voter |
| Redlich, Oded | Huawei Technologies Co., Ltd | Yes | Voter |
| Rege, Kiran | Perspecta Labs | Yes | Aspirant |
| Regev, Alon | Keysight Technologies | No | Aspirant |
| Regev, Dror | Toga Networks (a Huawei Company) | Yes | Voter |
| REICH, MOR | HUAWEI | Yes | Potential Voter |
| Reshef, Ehud | Intel Corporation | Yes | Aspirant |
| Rezk, Meriam | Qualcomm Incorporated | Yes | Potential Voter |
| Riegel, Maximilian | Nokia | Yes | Voter |
| Rison, Mark | Samsung Cambridge Solution Centre | Yes | Voter |
| Robert, Joerg | University of Erlangen-Nuremberg | Yes | Potential Voter |
| Roder, Patricia | IEEE Staff | No | Non-Voter |
| Rolfe, Benjamin | Blind Creek Associates | Yes | Aspirant |
| Rosdahl, Jon | Qualcomm Technologies, Inc. | Yes | Voter |
| Rosenblum, Amir | MaxLinear | No | Non-Voter |
| Rosenhouse, Tsachi | Vayyar Imaging | No | Non-Voter |
| Rouyer, Jessy | Nokia | No | Non-Voter |
| Roy, Richard | SRA International | No | Non-Voter |
| Roy, Sayak | NXP Semiconductors | Yes | Potential Voter |
| Ryan, Mike | Ford Motor Company | No | Aspirant |
| Ryan, Stuart | Blu Wireless Technology Ltd. | No | Aspirant |
| Ryu, Changwoo | Kaonmedia | No | Non-Voter |
| Sadeghi, Bahareh | Intel Corporation | Yes | Voter |
| Sahin, Onur | InterDigital, Inc. | No | Non-Voter |
| Sakamoto, Takenori | Panasonic Corporation | Yes | Voter |
| Sakoda, Kazuyuki | Sony Corporation | No | Voter |
| Salem, Mohamed | Huawei Technologies Co., Ltd | Yes | Voter |
| Salman, Hanadi | Istanbul Medipol University; VESTEL | Yes | Potential Voter |
| Sambasivan, Sam | AT&T | Yes | Voter |
| Sampath, Hemanth | Qualcomm Incorporated | No | Aspirant |
| Sand, Stephan | German Aerospace Center (DLR) | Yes | Voter |
| Sandhu, Shivraj | Qualcomm Incorporated | Yes | Potential Voter |
| Sarris, Ioannis | u-blox | Yes | Voter |
| Sato, Naotaka | Sony Corporation | Yes | Voter |
| Schelstraete, Sigurd | Quantenna Communications, Inc. | Yes | Voter |
| Schiessl, Sebastian | u-blox | Yes | Voter |
| Schmidhammer, Martin | German Aerospace Center (DLR) | Yes | Aspirant |
| Scott, Andy | NCTA | Yes | Voter |
| Seaman, Michael | CONSULTANT | No | Non-Voter |
| Sedin, Jonas | Ericsson AB | Yes | Voter |
| Segev, Jonathan | Intel Corporation | Yes | Voter |
| Seok, Yongho | MediaTek Inc. | Yes | Voter |
| Serafimovski, Nikola | pureLiFi | Yes | Voter |
| Sethi, Ankit | NXP Semiconductors | Yes | Potential Voter |
| Sevin, Julien | Canon Research Centre France | Yes | Potential Voter |
| Shah, Anup | Mentor Graphics | No | Non-Voter |
| Shah, Kunal | Itron Inc. | No | Voter |
| Sharma, Prashant | NXP Semiconductors | No | Voter |
| Shaul, yossef | Auto-Talks | No | Non-Voter |
| Shearer, Steve | octoScope | No | Voter |
| Shellhammer, Stephen | Qualcomm Incorporated | Yes | ExOfficio |
| Shen, Xiaoman | Huawei Technologies Co., Ltd | Yes | Aspirant |
| Sherlock, Ian | Texas Instruments Incorporated | Yes | Voter |
| Shilo, Shimi | Huawei Technologies Co., Ltd | Yes | Voter |
| Shor, Gadi | Intel Corporation | Yes | Aspirant |
| Singh, Gurdev | SAMSUNG ELECTRONICS | No | Non-Voter |
| singla, Parul | Maxlinear Inc | No | Non-Voter |
| Sinn, Ulrich | Siemens AG | Yes | Voter |
| Siyari, Peyman | Qualcomm Incorporated | No | Aspirant |
| Smely, Di Dieter | Kapsch TrafficCom AG | Yes | Aspirant |
| Smith, Frederick | Chevron Corporation | No | Non-Voter |
| Smith, Graham | SR Technologies | Yes | Voter |
| Solaija, Muhammad Sohaib | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| Son, Ju-Hyung | WILUS Inc. | Yes | Voter |
| Song, Taewon | LG ELECTRONICS | No | Voter |
| Sosack, Robert | Molex Incorporated | Yes | Potential Voter |
| Srinivasa, Sudhir | NXP Semiconductors | Yes | Voter |
| Srinivasan, Shree Raman | Qualcomm Incorporated | Yes | Aspirant |
| Stacey, Robert | Intel Corporation | Yes | Voter |
| Stahl Diskin, Nir | Broadcom Corporation | No | Voter |
| Stanley, Dorothy | Hewlett Packard Enterprise | Yes | Voter |
| Startsev, Ivan | IITP | Yes | Potential Voter |
| Stavridis, Athanasios | Ericsson AB | Yes | Voter |
| Steinbacher Jr, Owen | WatchGuard | No | Aspirant |
| Stepanov, Max | Intel Corporation | Yes | Aspirant |
| Stephens, Adrian | Self | No | Voter |
| Stott, Noel | Keysight Technologies | Yes | Voter |
| Strauch, Paul | Qualcomm Incorporated | Yes | Potential Voter |
| Strickland, Stuart | Hewlett Packard Enterprise | No | Non-Voter |
| Su, Hang | Broadcom Corporation | Yes | Potential Voter |
| SU, HONGJIA | Huawei Technologies Co., Ltd | Yes | Voter |
| Suh, JUNG HOON | Huawei Technologies Co., Ltd | Yes | Voter |
| Sumi, Takenori | Mitsubishi Electric Corporation | Yes | Voter |
| Sun, Bo | ZTE Corporation | Yes | Voter |
| Sun, Li-Hsiang | InterDigital, Inc. | Yes | Voter |
| Sun, Sang | ZTE Corporation | No | Aspirant |
| sun, sheng | Huawei Technologies Co., Ltd | Yes | Voter |
| Sun, Yanjun | Qualcomm Incorporated | Yes | Voter |
| Sun, Yingxiang | Huawei Technologies Co., Ltd | No | Non-Voter |
| Sun, Yingxiang | Huawei Technologies Co. Ltd | Yes | Potential Voter |
| Sundaram, Rajesh | Broadcom Corporation | Yes | Aspirant |
| Sundman, Dennis | Ericsson AB | Yes | Voter |
| SURACI, FRANK | U.S. Department of Homeland Security | Yes | Potential Voter |
| Tadahal, Shivkumar | Broadcom Corporation | No | Non-Voter |
| Takai, Mineo | Space-Time Engineering | Yes | Voter |
| TAKATA, TOMOHUMI | Panasonic Corporation | No | Aspirant |
| Tan, Danny | Huawei Technologies Co., Ltd | Yes | Voter |
| Tanaka, Yusuke | Sony Corporation | Yes | Voter |
| Tanigawa, Masaya | Buffalo Inc. | No | Aspirant |
| Taniguchi, Kentaro | TOSHIBA Corporation | No | Aspirant |
| Teran, Jesus Gutierrez | IHP GmbH | Yes | Potential Voter |
| Thompson, Geoffrey | InterDigital, Inc. | No | Non-Voter |
| Thompson, Tom | IEEE STAFF | No | Non-Voter |
| THOUMY, Francois | Canon Research Centre France | Yes | Aspirant |
| Tian, Bin | Qualcomm Incorporated | Yes | Voter |
| Tian, Tao | Unisoc Comm. | Yes | Voter |
| Tolpin, Alexander | Intel Corporation | Yes | Aspirant |
| Tomoyuki, Takada | Canon | Yes | Potential Voter |
| Torab Jahromi, Payam | Facebook | Yes | Voter |
| Torrijo, Alejandro | MaxLinear Corp | Yes | Aspirant |
| Trainin, Solomon | Qualcomm Incorporated | Yes | Voter |
| Tsai, Tsung-Han | MediaTek Inc. | Yes | Aspirant |
| Tsodik, Genadiy | Huawei Technologies Co., Ltd | Yes | Voter |
| Turkmen, Halise | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| Uhuotu, Steven | Cognitive Systems Corp. | No | Aspirant |
| Uln, Kiran | Cypress Semiconductor Corporation | Yes | Voter |
| Umehara, Makoto | Canon Research Centre France | Yes | Potential Voter |
| Unterhuber, Paul | German Aerospace Center (DLR) | Yes | Voter |
| Urabe, Yoshio | Panasonic Corporation | Yes | Voter |
| Ustunbas, Seda | ITU,Vestel | No | Non-Voter |
| V Padaki, Aditya | Samsung Research America | No | Voter |
| Vahidfar, Mohamad | Apple, Inc. | No | Non-Voter |
| Van Nee, Richard | Qualcomm Incorporated | Yes | Voter |
| van Wageningen, Andries | Signify | Yes | Voter |
| Van Zelst, Allert | Qualcomm Incorporated | Yes | Voter |
| Varshney, Prabodh | Nokia | Yes | Voter |
| Venkatesan, Ganesh | Intel Corporation | Yes | Voter |
| Verenzuela, Daniel | Sony Corporation | Yes | Potential Voter |
| Verma, Lochan | Apple Inc. | No | Voter |
| Verma, Sindhu | Broadcom Corporation | Yes | Voter |
| Vermani, Sameer | Qualcomm Incorporated | Yes | Voter |
| Vicent Colonques, Santiago | Maxlinear Corp | Yes | Aspirant |
| VIGER, Pascal | Canon Research Centre France | Yes | Voter |
| Vituri, Shlomi | Intel | Yes | Aspirant |
| Wang, Chao | Huawei Technologies Co., Ltd | No | Non-Voter |
| Wang, Chao Chun | MediaTek Inc. | Yes | Voter |
| Wang, Hao | Self | Yes | Voter |
| Wang, Huizhao | Quantenna Communications, Inc. | Yes | Voter |
| Wang, James June | MediaTek Inc. | No | Voter |
| Wang, Lei | Futurewei Technologies | Yes | Voter |
| Wang, Pu | Mitsubishi Electric Research Labs (MERL) | Yes | Potential Voter |
| Wang, Qi | Apple, Inc. | Yes | Voter |
| Wang, Xiaofei | InterDigital, Inc. | Yes | Voter |
| Wang, Yi-Hsiu | Zeku | Yes | Potential Voter |
| Want, Roy | Google | Yes | Voter |
| Ward, Lisa | Rohde & Schwarz | Yes | Voter |
| Wen, Yu | Google | No | Non-Voter |
| Wendt, Matthias | Signify | Yes | Voter |
| Wentink, Menzo | Qualcomm Incorporated | Yes | Voter |
| Weszely, Tamas | pureLiFi | No | Non-Voter |
| Wilhelmsson, Leif | Ericsson AB | Yes | Voter |
| Wilson, Matt | Johnson Controls Inc | No | Voter |
| Winser, Paul | Blu Wireless | No | Voter |
| Wizenberg, Reut | Vayyar Imaging | Yes | Aspirant |
| Woo, dong hyuck | Kwangwoon University | No | Aspirant |
| Wu, Hao | XGIMI Technology Co.Ltd | No | Non-Voter |
| Wu, Jianbing | SHEN ZHEN ITEST TECH CO.,LTD | No | Voter |
| Wu, Kanke | Qualcomm Incorporated | Yes | Potential Voter |
| Wu, Tianyu | Apple, Inc. | Yes | Voter |
| Wullert, John | Perspecta Labs | Yes | Potential Voter |
| Xia, Qing | Sony Corporation | No | Non-Voter |
| Xiao, Chusong | Futurewei Technologies | No | Voter |
| Xin, Liangxiao | Sony Corporation | Yes | Voter |
| Xin, Yan | Huawei Technologies Co., Ltd | Yes | Voter |
| Xu, Yanchao | Zeku | Yes | Voter |
| Xue, Qi | Qualcomm Incorporated | Yes | Voter |
| Xue, Ruifeng | Cisco Systems, Inc. | Yes | Voter |
| YAGHOOBI, HASSAN | Intel Corporation | Yes | Voter |
| Yan, Aiguo | Oppo | Yes | Potential Voter |
| Yan, Zhongjiang | Northwestern Polytechnical University | Yes | Potential Voter |
| Yang, Bo | Huawei Technologies Co., Ltd | Yes | Voter |
| Yang, Jay | Nokia | Yes | Potential Voter |
| Yang, Lin | Qualcomm Incorporated | Yes | Potential Voter |
| Yang, Mao | Northwestern Polytechnical University | Yes | Potential Voter |
| YANG, RUI | InterDigital, Inc. | Yes | Voter |
| Yang, Steve TS | MediaTek Inc. | Yes | Voter |
| Yang, Xun | Huawei Technologies Co., Ltd | Yes | Voter |
| Yang, Yongchao | Huawei Technologies Co. Ltd | No | Non-Voter |
| Yang, Yunsong | Futurewei Technologies | Yes | Voter |
| Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) | Yes | Voter |
| YARKAN, SERHAN | Istanbul Commerce University | No | Non-Voter |
| Yarkoni, Sol | Vayyar Imaging Ltd. | No | Non-Voter |
| Yee, James | MediaTek Inc. | Yes | Voter |
| Yee, Peter | NSA-CSD | Yes | Voter |
| yi, yongjiang | Futurewei Technologies | Yes | Voter |
| yim, choon sik | RCN | No | Non-Voter |
| Yin, Yue | HUAWEI | No | Non-Voter |
| Yona, Yair | Qualcomm Incorporated | No | Aspirant |
| Yong, Su Khiong | Apple, Inc. | No | Voter |
| Yoon, Sanghun | Korea Electronics Technology Institute (KETI) | No | Aspirant |
| Yoshikawa, Yuki | Canon | Yes | Potential Voter |
| Young, Christopher | Broadcom Corporation | Yes | Voter |
| Yu, Bo | Marvell Semiconductor, Inc. | No | Aspirant |
| Yu, Heejung | Korea University | No | Aspirant |
| Yu, Jian | Huawei Technologies Co., Ltd | Yes | Voter |
| Yu, Mao | NXP Semiconductors | Yes | Voter |
| YU, YU | Toshiba | No | Non-Voter |
| Yuan, Fangchao | Huawei Technologies Co., Ltd | Yes | Aspirant |
| Yukawa, Mitsuyoshi | Canon, Inc. | No | Aspirant |
| Yun, Ji-Hoon | SeoulTech | No | Voter |
| Zaman, Malia | IEEE Standards Association (IEEE-SA) | No | Non-Voter |
| ZEGRAR, Salah Eddine | Istanbul Medipol University; Vestel | Yes | Potential Voter |
| Zein, Nader | NEC Corporation | Yes | Aspirant |
| Zeleznikar, Alan | CommScope | No | Voter |
| Zeng, Ruochen | NXP Semiconductors | Yes | Potential Voter |
| Zeng, Yan | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Zhang, Hongyuan | NXP Semiconductors | Yes | Voter |
| ZHANG, JIAYIN | Huawei Technologies Co., Ltd | Yes | Voter |
| Zhang, John | GuangDong OPPO Mobile Telecommunications Corp., Ltd. | No | Non-Voter |
| Zhang, Meihong | Huawei Technologies Co., Ltd | Yes | Potential Voter |
| Zhang, Xingxin | Huawei Technologies Co., Ltd | No | Non-Voter |
| Zhang, Yan | NXP Semiconductors | Yes | Voter |
| Zheng, Xiayu | NXP Semiconductors | Yes | Voter |
| Zhou, Yifan | Huawei Technologies Co., Ltd | Yes | Voter |
| Zou, Tristan | Qualcomm Incorporated | Yes | Potential Voter |
| Zuo, Xin | Tencent | Yes | Voter |

**Annex B : Working Group Officers**

**Working Group**

|  |  |  |
| --- | --- | --- |
| Name (Affiliation) | Position | Contact Details |
| Dorothy Stanley (HP Enterprise) | IEEE 802.11 Working Group Chair | +1( 630) 363-1389  [dstanley@ieee.org](mailto:dstanley@ieee.org) |
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| Robert Stacey (Intel Corporation) | 2nd Vice Chair (Rules and reflectors) IEEE 802 (LMSC) EC delegate | +1 (503) 712 4447 [robert.stacey@intel.com](mailto:robert.stacey@intel.com) |
| Stephen McCann (Huawei Technology Co., Ltd) | Secretary | +44 1753 667099 [stephen.mccann@ieee.org](mailto:stephen.mccann@ieee.org) |
| Peter Ecclesine (Cisco Systems, Inc.) | Co-Technical Editor | +1 (408) 710-3403 [petere@ieee.org](mailto:petere@ieee.org) |
| Robert Stacey (Intel Corporation) | Co-Technical Editor 802.11 Assigned Numbers Authority | +1 (503) 712 4447 [robert.stacey@intel.com](mailto:robert.stacey@intel.com) |

**Standing Committees**

|  |  |  |
| --- | --- | --- |
| Name (Affiliation) | Position | Contact Details |
| Jim Lansford (Qualcomm) | Wireless Next Generation (WNG) Chair | +1-719-286-8660 [jim.lansford@ieee.org](mailto:jim.lansford@ieee.org) |
| Joseph Levy  (InterDigital Communications Inc.) | Advanced Access Network Interface (AANI) Chair | +1.631.622.4139 [jslevy@ieee.org](mailto:jslevy@ieee.org) |
| Mark Hamilton (Ruckus Wireless) | Architecture (ARC) Chair | +1 (303) 818-8472 [mark.hamilton2152@gmail.com](mailto:mark.hamilton2152@gmail.com) |
| Jon Rosdahl (Qualcomm) | Project Authorization Request (PAR) review Chair | +1 (801) 492-4023 [jrosdahl@ieee.org](mailto:jrosdahl@ieee.org) |
| Andrew Myles (Cisco) | Coexistence Standing Committee Chair | +61 418 656587 [amyles@cisco.com](mailto:amyles@cisco.com) |

**Task Groups**

|  |  |  |
| --- | --- | --- |
| Name (Affiliation) | Position | Contact Details |
| Osama Aboul-Magd (Huawei) | TGax Chair High Efficiency WLAN | +1 (613) 287-1405 [osama.aboulmagd@huawei.com](mailto:osama.aboulmagd@huawei.com) |
| Edward Au (Huawei) | TGay Chair Next Generation 60 GHz (NG60) | +1 773 782 6875  [edwardau@marvell.com](mailto:edwardau@marvell.com) |
| Jonathan Segev (Intel Corporation) | TGaz Chair Next Generation Positioning (NGP) | +972-54-2403587 [jonathan.segev@intel.com](mailto:jonathan.segev@intel.com) |
| Minyoung Park (Intel Corporation) | TGba Chair Wake-up Radio (WUR) | [mpark.ieee@gmail.com](mailto:mpark.ieee@gmail.com) |
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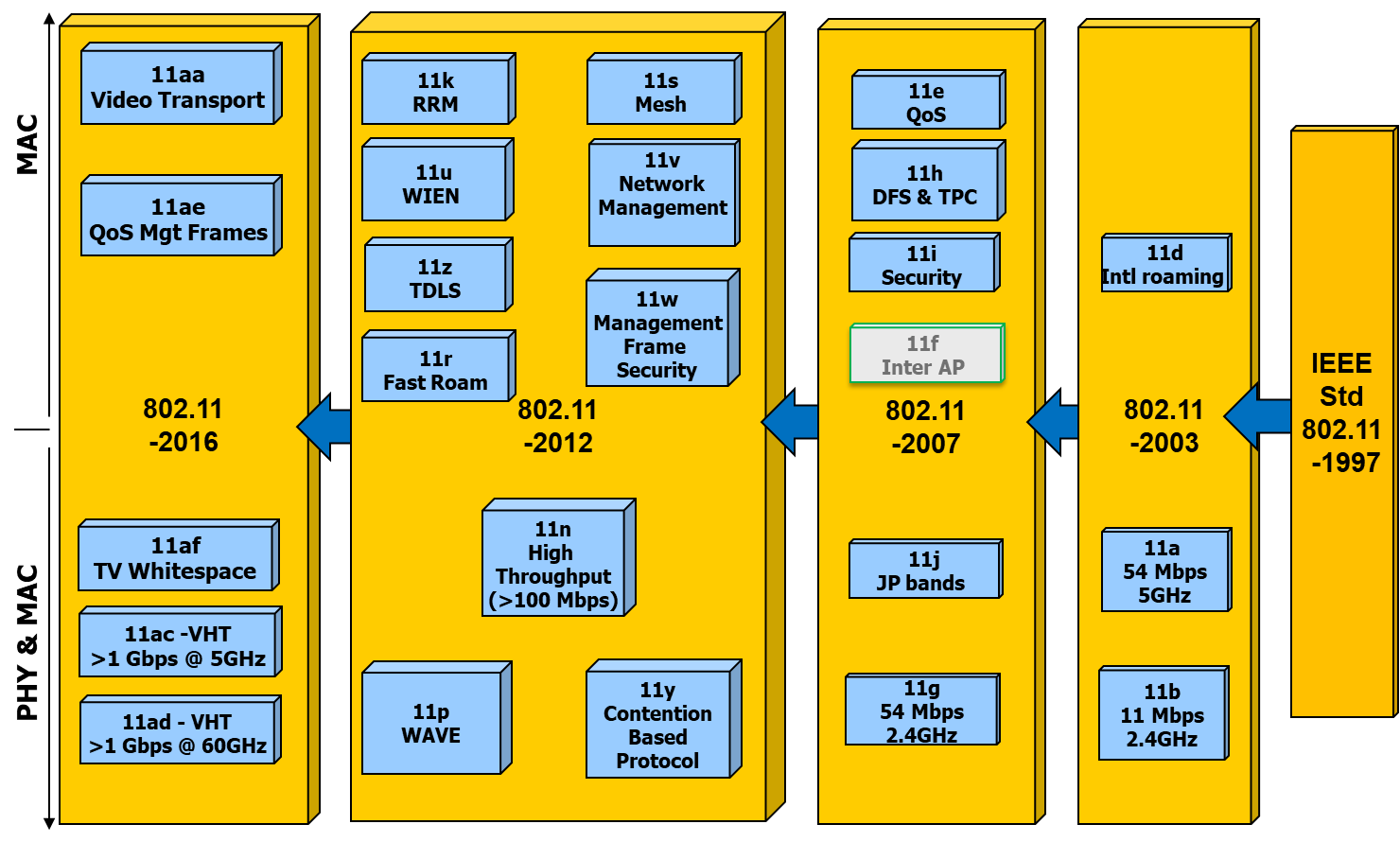
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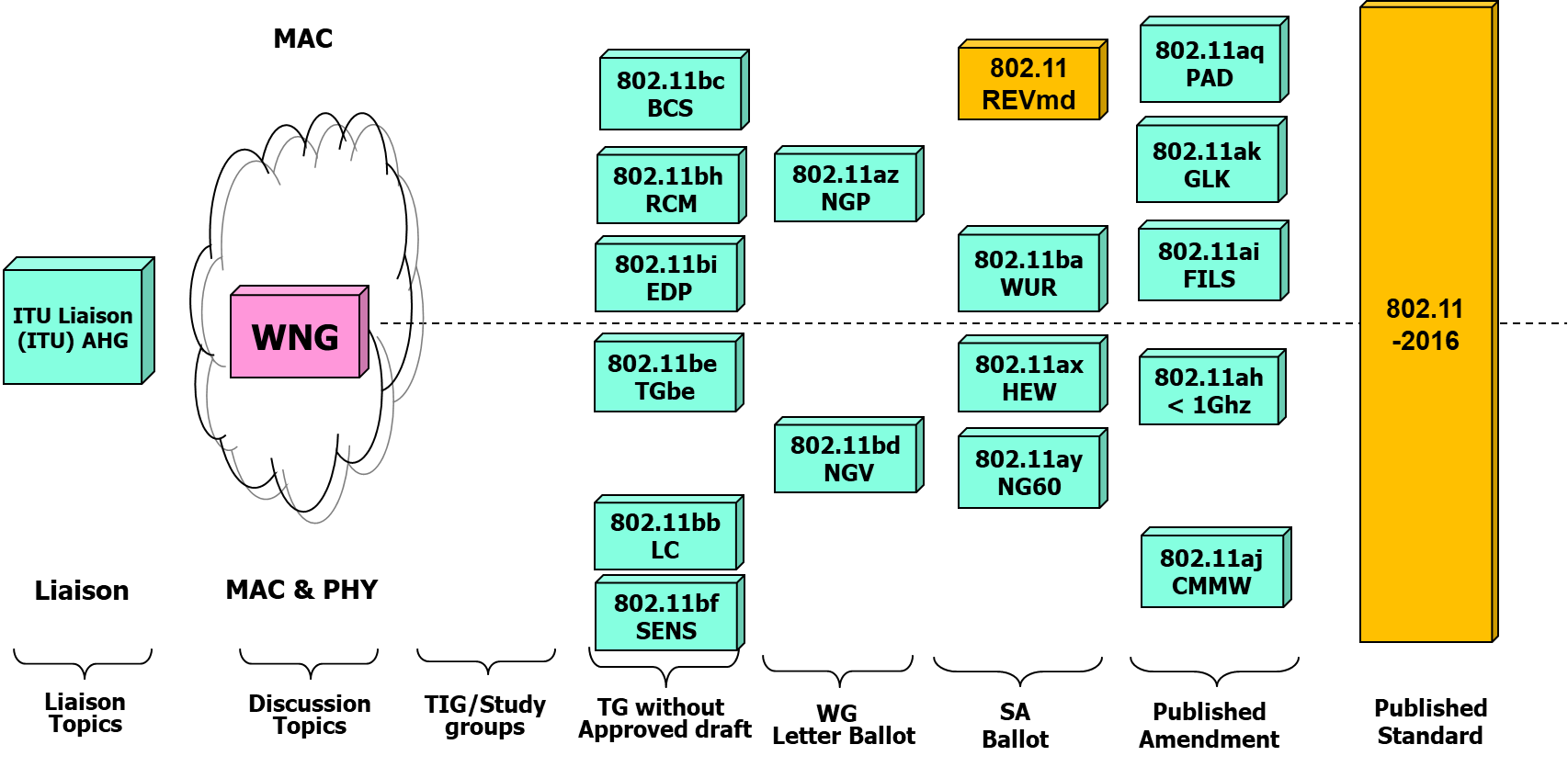
**Annex C : Minutes**

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 | 20-1705r1 |
| TGmd | TG | Did not meet |
| TGax | TG | 20-1785r0 |
| TGay | TG | 20-1790r0 |
| TGaz | TG | 20-1774r0 |
| TGba | TG | 20-1779r0 |
| TGbb | TG | 20-1811r0 |
| TGbc | TG | 20-1930r0 |
| TGbd | TG | 20-1775r1 |
| TGbe | TG | 20-1786r4 |
| TGbf | TG | 20-1834r0 |
| AANI | SC | 20-1926r0 |
| COEX | SC | 20-1898r0 |
| WNG | SC | 20-1762r0 |
| JTC 802 | SC | 20-1894r0 |
| ARC | SC | 20-1760r0 |
| RCM | SG | 20-1777r0 |
| ITU | AH | Did not meet |
| PAR | SC | 20-1725r0 |

**Annex D : Revisions and Standards Pipeline**

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**IEEE 802.11 Standards Pipeline**

End.