IEEE P802.11  
Wireless LANs

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| IEEE 802.11  TGax July 2019 Vienna Meeting Minutes | | | | |
| Date: 2019-8-12 | | | | |
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Abstract

This document contains the TGax meeting minutes from the IEEE 802.11 July 2019 Vienna session.

The minutes of PHY and MAC ad hocs are contained in separate documents:

* PHY
  + Agenda: <https://mentor.ieee.org/802.11/dcn/19/11-19-1274-03-00ax-tgax-july-2019-meeting-agenda.pptx>
* MAC
  + Agenda: <https://mentor.ieee.org/802.11/dcn/19/11-19-1279-02-00ax-tgax-mac-adhoc-july-2019-meeting-agenda.pptx>
  + <https://mentor.ieee.org/802.11/dcn/19/11-19-1294-00-00ax-july-15-pm3-tgax-mac-ad-hoc-meeting-minutes.docx>
  + <https://mentor.ieee.org/802.11/dcn/19/11-19-1312-00-00ax-july-16-tgax-mac-ad-hoc-meeting-minutes.docx>
* MU
  + Agenda: <https://mentor.ieee.org/802.11/dcn/19/11-19-1292-01-00ax-july-19-11ax-mu-ad-hoc-meeting-agenda.pptx>

**IEEE 802.11 Task Group AX July 2019 Meeting**

**Austria Center Vienna, Vienna, Austria**

**July 15th – 19th, 2019**

**Chair Osama Aboul-Magd (Huawei Technologies)**

**The 1st Vice-Chair Ron Porat (Broadcom Ltd.)**

**The 2nd Vice-Chair Alfred Asterjadhi (Qualcomm)**

**Secretary Yasuhiko Inoue (NTT Corporation)**

**Technical Editor Robert Stacey (Intel Corporation)**

**Monday, July 15th, 2019, AM1 TGax ad hoc session (8:00 - 10:00)**

1. **The meeting called to order at 8:00 AM by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
   1. Introduction of TGax leadership.
   2. Agenda document 19/0983r1 on the server. R2 is the working document.
2. **Agenda Setting**
   1. Proposed agenda for Monday AM1 (TGax ad hoc session – no motions)
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Submissions and ad hoc group schedule
      4. Presentations and comment resolution
      5. Adjourn
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
      1. The agenda for Monday AM1 is approved.
3. **Announcements**
   1. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
   2. Attendance: <https://imat.ieee.org/attendance>
   3. Chair asked people to put the cellphone mute of switch off.
4. **IEEE-SA IPR Policy & Procedure**
   1. Chair read the following 5 slides:
      1. Participants have a duty to inform the IEEE – done.
      2. Ways to inform IEEE – done
         * Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
         * Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
         * Speak up now and respond to this Call for Potentially Essential Patents
         * If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
         1. Chair asked if anyone in this meeting is aware of any potentially essential patents. 🡪 There was no response.
      3. Other guidelines for IEEE WG meetings – done
      4. Patent-related information – done
      5. Participation in IEEE 802 Meetings – done
5. **Submissions and ad hoc group schedule**
   1. TGax received following submissions during the July session and the TGax MAC ad hoc held in the week before.
   2. PHY submissions
      1. 11-19-0422, “CR for CID 21497, 21501, 21502,” Xiaogang Chen (Intel)
      2. 11-19-0793, “Remaining PHY Math comment resolutions,” Yan Zhang (Marvell)
      3. 11-19-0826, “CR on DCM and STBC Combinations,” Youhan Kim (Qualcomm)
      4. 11-19-0827, “CR on Punctured Non-HT Duplicate PPDU,” Youhan Kim (Qualcomm)
      5. 11-19-0830, “CR on Clause 17,” Youhan Kim (Qualcomm)
      6. 11-19-0836, “D4.0 Comment Resolution – Part 3,” Youhan Kim (Qualcomm)
      7. 11-19-0837, “CR on HE Capabilities,” Youhan Kim (Qualcomm)
      8. 11-19-0858, “PHY CR in Clause 10,” Youhan Kim (Qualcomm)
      9. 11-19-0866, “CR for Misc.,” Xiaogang Chen (Intel)
      10. 11-19-0971, “CR on CID 20760 and 20793,” Ross Jian Yu (Huawei Technologies)
      11. 11-19-0972, “Remaining CR on SIG-B Part I,” Ross Jian Yu (Huawei Technologies)
      12. 11-19-0973, “Resolution to CID20718,” Yujin Noh (Newracom)
      13. 11-19-1013, “Spec Text Changes on MCS Table,” Ross Jian Yu (Huawei Technologies)
      14. 11-19-1125, “Remaining CR on SIG-B Part II,” Dandan Liang (Huawei Technologies)
      15. 11-19-1127, “Comment Resolution on CIDs on Clause 27.3.10.7,” Jianhan Liu (MediaTek)
      16. 11-19-1150, Proposed resolutions to comments on clause 26.3.10.15,” Ross Jian Yu (Huawei Technologies)
      17. 11-19-1185, “CR on PHY SIGB,” Ming Gan (Huawei Technologies)
      18. 11-19-1225, “D4.0 Comment Resolution – Part 3,” Youhan Kim (Qualcomm)
      19. 11-19-1226, “D4.0 Comment Resolution – Part 4,” Youhan Kim (Qualcomm)
      20. 11-19-1271, “PHY Miscellaneous Comment Resolution,” Sameer Vermani (Qualcomm)
   3. MAC submissions
      1. 11-19-0303, “Comment resolutions for QoS Control,” Alfred Asterjadhi (Qualcomm)
      2. 11-19-0304, “Comment resolutions for HE BSS operation in 6 GHz,” Alfred Asterjadhi (Qualcomm)
      3. 11-19-0339, “11ax D4.2 MAC Comment Resolution for Co-hosted BSSID,” Po-Kai Huang (Intel)
      4. 11-19-0413, “CR for MU EDCA parameters,” Laurent Cariou (Intel)
      5. 11-19-0414, “CR for NFRP,” Laurent Cariou (Intel)
      6. 11-19-0415, “CR for OPS,” Laurent Cariou (Intel)
      7. 11-19-0417, “CR for 6 GHz out of band,” Laurent Cariou (Intel)
      8. 11-19-0488, “CR for Reduced Neighbor Report,” Jarkko Kneckt (Apple)
      9. 11-19-0494, “Resolution for CID 20346 related to BSS Color,” Kaiying Lu (MediaTek)
      10. 11-19-0505, “Resolution for CIDs related to BSS Color – Part 2,” Abhishek Patil (Qualcomm)
      11. 11-19-0506, “Resolution for CIDs related to Multiple BSSID,” Abhishek Patil (Qualcomm)
      12. 11-19-0548, “Resolution for CIDs related to TF format (9.3.1.22) – Part 2,” Abhishek Patil (Qualcomm)
      13. 11-19-0561, “Comment resolutions for miscellaneous TWT,” Alfred Asterjadhi (Qualcomm)
      14. 11-19-0593, “Comment resolutions for Frame Control,” Alfred Asterjadhi (Qualcomm)
      15. 11-19-0594, “Comment resolutions for transmit power control - part 2,” Alfred Asterjadhi (Qualcomm)
      16. 11-19-0604, “11ax D4.1 MAC Comment Resolution for NAV part I,” Po-Kai Huang (Intel)
      17. 11-19-0605, “11ax D4.0 MAC Comment Resolution for MU-RTS part II,” Po-Kai Huang (Intel)
      18. 11-19-0652, “Comment resolutions for TWT Information frames,” Alfred Asterjadhi (Qualcomm)
      19. 11-19-0696, “OMI Comment Resolutions,” Jarkko Kneckt (Apple)
      20. 11-19-0703, “11ax D4.0 comment and resolution for Trigger frame MAC padding,” Tianyu Wu (Apple)
      21. 11-19-0724, “Comment resolutions for broadcast TWT,” Alfred Asterjadhi (Qualcomm)
      22. 11-19-0725, “Comment resolutions for Individual TWT,” Alfred Asterjadhi (Qualcomm)
      23. 11-19-0734, “11ax D4.0 Comment Resolution 9.7.3,” Liwen Chu (Marvell)
      24. 11-19-0735, “11ax D4.0 Comment Resolution 10.24,” Liwen Chu (Marvell)
      25. 11-19-0736, “11ax D4.0 Comment Resolution 10.32.2,” Liwen Chu (Marvell)
      26. 11-19-0737, “11ax D4.0 comment-resolution 9.2.4.6, 9.4.2.242.2,” Liwen Chu (Marvell)
      27. 11-19-0745, “MAC CR for subclause 9.4.2,” Ming Gan (Huawei)
      28. 11-19-0748, “11ax D4.0 Comment Resolution 26.2.8,” Liwen Chu (Marvell)
      29. 11-19-0750, “11ax D4.0 comment-resolution 26.5.3.4,” Liwen Chu (Marvell)
      30. 11-19-0751, “Figure 26-3a,” Abhishek Patil (Qualcomm)s
      31. 11-19-0753, “11ax D4.1 MAC Multiple BSSID Minor Bug Fix,” Po-Kai Huang (Intel)
      32. 11-19-0756, “Ack related CRs on Section 26.4,” George Cherian (Qualcomm)
      33. 11-19-0769, “CR for NFRP,” Laurent Cariou (Intel)
      34. 11-19-0770, “LB238 CR PPDU format, BW, MCS, NSS, and DCM selection,” Yongho Seok (MediaTek)
      35. 11-19-0771, “LB238 CR HE Subchannnel Selective Transmission,” Yongho Seok (MediaTek)
      36. 11-19-0785, “MAC CR Fragmentation,” Ming Gan (Huawei)
      37. 11-19-0795, “Visio file for updated figure 26-3a,” Abhishek Patil (Qualcomm)
      38. 11-19-0816, “Resolutions to comments to subclause 9.3.1.8,” Tomoko Adachi (Toshiba)
      39. 11-19-0835, “Proposed resolution for CIDs for 26-2-2,” Kaiying Lu (MediaTek)
      40. 11-19-0863, “11ax D4.0 sounding comments,” Menzo Wentink (Qualcomm)
      41. 11-19-0909, “Comment resolutions for 6 ghz scanning,” Alfred Asterjadhi (Qualcomm)
      42. 11-19-0910, “Comment resolutions for fast passive scanning,” Alfred Asterjadhi (Qualcomm)
      43. 11-19-0915, “Fragment Flushing,” Matthew Fischer (Broadcom)
      44. 11-19-0961, “Comment resolutions for group addressed MPDUs delivery,” Alfred Asterjadhi (Qualcomm)
      45. 11-19-0962, “Comment resolutions for non-AP STA scanning (26.17.2.3.3),” Alfred Asterjadhi (Qualcomm)
      46. 11-19-0963, “Comment resolutions for HE BSS operation – part 2,” Alfred Asterjadhi (Qualcomm)
      47. 11-19-0964, “Comment resolutions for additional rules for preassociation,” Alfred Asterjadhi (Qualcomm)
      48. 11-19-0965, Comment resolutions for HE BSS operation in 6 GHz–part 2,” Alfred Asterjadhi (Qualcomm)
      49. 11-19-0967, “Comment resolutions for fast passive scanning-part 2,” Alfred Asterjadhi (Qualcomm)
      50. 11-19-1009, “11ax D4.1 MAC Comment Resolution for Miscellaneous CIDs,” Po-Kai Huang (Intel)
      51. 11-19-1014, “11ax D4.2 MAC Comment Resolution for NAV part II,” Po-Kai Huang (Intel)
      52. 11-19-1023, “11ax D4.0 Comment Resolution 21.6.4.1,” Liwen Chu (Marvell)
      53. 11-19-1035, “11ax D4.0 Comment Resolution 26.6.4.2 26.6.4.4,” Liwen Chu (Marvell)
      54. 11-19-1061, “Comment resolutions for HE FTM in 6 Ghz,” Alfred Asterjadhi (Qualcomm)
      55. 11-19-1064, “CR Disallowed Subchannels,” Matthew Fischer (Broadcom)
      56. 11-19-1122, “11ax D4.2 Padding for Random Access,” Po-Kai Huang (Intel)
      57. 11-19-1130, “11ax D4.0 Comment Resolution for RDG MU,” Yunbo Li (Huawei Technologies)
      58. 11-19-1137, “11ax sounding comments D4.0,” Menzo Wentink (Qualcomm)
      59. 11-19-1138, “LB238 CR HLA,” Yongho Seok (MediaTek)
      60. 11-19-1139, “LB238 CR AID assignment,” Yongho Seok (MediaTek)
      61. 11-19-1141, “LB238 CR MAC Miscellaneous,” Yongho Seok (MediaTek)
      62. 11-19-1147, “CID 20000,” Abhishek Patil (Qualcomm)
      63. 11-19-1148, “Resolution for CIDs related to Multiple BSSID – Part 2,” Abhishek Patil (Qualcomm)
      64. 11-19-1149, “Resolution for CIDs 21172 and 20013,” Abhishek Patil (Qualcomm)
      65. 11-19-1155, “LB-238 Miscellaneous Comment Resolution,” Osama Aboul-Magd (Huawei Technologies)
      66. 11-19-1161, “CR for Misc CIDs,” Laurent Cariou (Intel)
      67. 11-19-1163, “Proposed resolution for CIDs Related to Quiet Time Period,” Kaiying Lu (MediaTek)
      68. 11-19-1167, “11ax D4.2 MAC Comment Resolution for SM Power Save Part II,” Po-Kai Huang (Intel)
      69. 11-19-1183, “Comment Resolution on Trigger Frame Format,” Lochan Verma (Qualcomm)
      70. 11-19-1184, “MAC CR for,” Ming Gan (Huawei Technologies)
      71. 11-19-1200, “Resolutions to comments 20104, 20648, 21124, and 21469,” Tomoko Adachi (Toshiba)
      72. 11-19-1204, “CR for CID20624,” Laurent Cariou (Intel)
      73. 11-19-1209, “11ax D4.0 sounding comments,” Huizhao Wang (Quantenna)
      74. 11-19-1211, “Ack related CRs,” George Cherian (Qualcomm)
      75. 11-19-1217, “Resolution for CID 21110,” Abhishek Patil (Qualcomm)
      76. 11-19-1219, “Comment resolutions for one CID,” Alfred Asterjadhi (Qualcomm)
      77. 11-19-1222, “CR for 20253, 20255, 20264 and 20265,” Jarkko Kneckt (Apple)
      78. 11-19-1236, “Comment resolution on MIBs for LB238,” Edward Au (Huawei Technologies)
      79. 11-19-1237, “Proposed resolution for some CIDs in section 3.2 and 4.3.15a,” Guoqing Li (Apple)
      80. 11-19-1243, “Comment resolution on PICs for LB238,” Edward Au (Huawei Technologies)
      81. 11-19-1259, “LB 238 Annex G Comment Resolution,” Osama Aboul-Magd (Huawei Technologies)
      82. 11-19-1263, “11ax D4.2 RA Setting for Response to Trigger frame,” Po-Kai Huang (Intel)
      83. 11-19-1275, “Proposed Resolution to Tgax D4.0 CR20268,” Srinivas Kandala (Samsung)
   4. MU submissions
      1. 11-19-0508, “Resolution for CIDs related to UORA,” Abhishek Patil (Qualcomm)
      2. 11-19-0510, “Resolution for CIDs related to MU Operation,” Abhishek Patil (Qualcomm)
      3. 11-19-0765, “CR MU EDCA Timer,” Zhou Lan (Broadcom)
      4. 11-19-0908, “MU EDCA parameters update frame,” Matthew Fischer (Broadcom)
      5. 11-19-0917, “UORA Misc,” Matthew Fischer (Broadcom)
      6. 11-19-1140, “LB238 CR UL MU Power Capabilities,” Yongho Seok (MediaTek)
      7. 11-19-1186, “Comment Resolution on MU Operation,” Lochan Verma (Qualcomm)
      8. 11-19-1218, “Resolution for CIDs related to UORA – Part 2,” Abhishek Patil (Qualcomm)
   5. SR submissions
      1. 11-19-0416,”CR for Spatial reuse,” Laurent Cariou (Intel)
      2. 11-19-0613, “SRP Comments,” Matthew Fischer (Broadcom)
   6. Others (presented in full TG session)
      1. 11-19-0099, “11ax D4.0 sounding comments,” Huizhao Wang (Quantenna)
      2. 11-19-0619, “Proposed Resolutions to select comments on D4.0,” Mark Rison (Samsung)
      3. 11-19-0876, “Updated Channelization for 6 GHz,” Imran Latif (Quantenna)
      4. 11-19-0912, “Editorial changes to approved resolutions,” Robert Stacey (Intel)
      5. 11-19-1017, “D4.0 CR for 6GHz channelization,” Ruchen Duan (Samsung)
      6. 11-19-1123, “Editorial Comments on TGax/D4.0,” Robert Stacey (Intel)
      7. 11-19-1199, “Updated Channelization for 6 GHz,” Imran Latif (Quantenna)
   7. **General flow and the TGax meeting schedule**
      1. TGax plans to have 10 sessions this week. Three of them are assigned to the ad hoc meetings.
      2. The TGax chair is not available for Coexistence workshop on Wednesday PM1.
      3. Wednesday PM1 is still a TG full meeting, but PHY related topics will be discussed fiest.

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|  | **Monday** | | **Tuesday** | | **Wednesday** | **Thursday** |
| **AM1** | TGax  (ad hoc) | |  | |  |  |
| **AM2** |  | | PHY ad hoc | MAC ad hoc |  | TGax  full |
| **PM1** | TGax  full | | PHY ad hoc | MAC ad hoc | TGax full  (PHY) |  |
| **PM2** |  | | TGax  full | | TGax full  (MAC/MU) | TGax  full |
| **PM3 (EVE)** | MAC  ad hoc | MU  ad hoc |  | |  |  |

1. **Presentations and Comment Resolution**
   1. **George Cherian (Qualcomm) presented “Ack related CRs,” based on the submission 11-19-1211-00.**
      1. Summary
         1. Resolutions for the comments received for IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20996, 21174, 21179, 21185, 21186, 20792
      2. Discussion
         1. CID 20996: The commenter is not happy with the proposed resolution. 🡪 To be come back later.
         2. CID 20792: The commenter is not happy with the resolution. Ack for the management frame should have the same assumption with the data frames. 🡪 It is not possible because of the dependencies on the frame types.
         3. CID 21174: A member asked for clarification on what exactly accepted.
         4. CID 21186: “PS-Poll” was accidentally dropped from the proposed text.
      3. **Straw Poll: Do you accept resolutions to CIDs 20996, 21174, 21179, 21185, 21186, 20792 in doc 11-19/1211r1?**
         1. **Result: Resolutions to CIDs written in black were approved with unanimous consent.**
      4. Next Step
         1. CIDs 20996, 21174 and 21186 needs more discussion.
   2. **Laurent Cariou (Intel) presented “CR for Spatial reuse,” based on the submission 11-19-0416-03.**
      1. Summary
         1. Resolutions for the comments received for IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20337, 20338, 20569, 20615, 20669, 20677, 20948, 21038, 21060, 21094, 21095, 21483, 21484, 21485
      2. Discussion
         1. CID 21308: A member commented that the class B devices are not allowed to operate in 6 GHz band since due to the poor performance. Another member commented that class B devices cannot use the Spatial Reuse procedure as well.
         2. CID 21038: A member asked a question why class B devices are restricted from 6 GHz operation.
      3. Next Step
         1. Straw poll is deferred. Need more discussion.
   3. **Laurent Cariou (Intel) presented “CR for CID 20624,” based on the submission 11-19-1204-01.**
      1. Summary
         1. A resolution for the comment with CID 20624breceived for IEEE 802.11ax D4.0 is proposed.
            1. The CID 20624 is related to the MU EDCA Parameter setting.
      2. Discussion
         1. C: This should be discussed in TGmd.
         2. C: There are inconsistencies in the base standard.
      3. Next Step
         1. Straw poll is deferred. Need more discussion.
2. **Adjournment**
   1. TGax ad hoc meeting has adjourned @ 10:03 AM.

**Monday, July 15th, 2019, PM1 TGax full sessions (13:30 - 15:30)**

1. **The meeting called to order at 13:30 by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
   1. Introduction of TGax leadership.
   2. Agenda document 19/0983r2 on the server. R3 is the working document.
2. **Agenda Setting**
   1. Proposed agenda for Monday PM1
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Submissions and ad hoc group schedule
      4. Summary from May 2019 meeting
      5. TG motions
         1. Approve TG meeting and Teleconference minutes since May 2019 meeting.
      6. Presentations and comment resolution
      7. Adjourn
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
      1. The agenda for Monday PM1 is approved.
3. **Announcements**
   1. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
   2. Attendance: <https://imat.ieee.org/attendance>
   3. Chair asked people to put the cellphone mute of switch off.
4. **IEEE-SA IPR Policy & Procedure**
   1. Chair read the following 5 slides:
      1. Participants have a duty to inform the IEEE – done.
      2. Ways to inform IEEE – done
         * Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
         * Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
         * Speak up now and respond to this Call for Potentially Essential Patents
         * If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
         1. Chair asked if anyone in this meeting is aware of any potentially essential patents. 🡪 There was no response.
      3. Other guidelines for IEEE WG meetings – done
      4. Patent-related information – done
      5. Participation in IEEE 802 Meetings – done
5. **TGax schedule**
   1. As discussed during the AM1 session today.

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|  | **Monday** | | **Tuesday** | | **Wednesday** | **Thursday** |
| **AM1** | TGax  (ad hoc) | |  | |  |  |
| **AM2** |  | | PHY ad hoc | MAC ad hoc |  | TGax  full |
| **PM1** | TGax  full | | PHY ad hoc | MAC ad hoc | TGax full  (PHY) |  |
| **PM2** |  | | TGax  full | | TGax full  (MAC/MU) | TGax  full |
| **PM3**  **(EVE)** | MAC  ad hoc | MU  ad hoc |  | |  |  |

1. **Summary from May 2019 session**
   1. Approved the resolution of about 420 CIDs in May.
   2. Held a number of teleconferences. About 30 CIDs are ready for motion from the telecons.
   3. Held an ad hoc meeting July 10-12. About 150 CIDs are ready for motion.
   4. The Editor resolved all the remaing Editorial comments.
      1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1123-00-00ax-editorial-comments-on-d4-0.xlsx>
   5. Generated a new revision of the TG |Coexistence assurance document as a result of the comments received.
      1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1348-06-00ax-coexistence-assurance.docx>
2. **TG Motion – Approval of TG Minutes (May 2019 meeting and teleconferences minutes)**
   1. **Motion: Approve TGax minutes of meetings and teleconferences from May 2019 Interim meeting to today:**
      * <https://mentor.ieee.org/802.11/dcn/19/11-19-0872-00-00ax-tgax-may-2019-atlanta-meeting-minutes.docx>
      * <https://mentor.ieee.org/802.11/dcn/19/11-19-1012-00-00ax-tgax-teleconference-minutes-from-may-to-june-2019.docx>
      * <https://mentor.ieee.org/802.11/dcn/19/11-19-0918-00-00ax-mac-ad-hoc-meeting-minutes-may-2019.docx>
      1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil.**
      2. **Result: The motion was approved with unanimous consent.**
3. **Presentation and Comment Resolution**
   1. **Imran Latif (Quantenna) presented “Updated Channelization for 6 GHz,” based on the submission 11-19-1199-01.**
      1. Summary
         1. Current 6 GHz channelization is in-efficient and does not fit for the future changes for the 6 GHz band.
         2. Increase of the guard-band on lower U-NII-5 from 10 to 20 MHz and shift of starting frequency from 5940 to 5950 MHz are proposed.
         3. Separate channelization for each U-NII band is also proposed for flexibility..
      2. Discussion
         1. C: Agreed that current channel plan is inefficient, however, concerned that less 160 MHz channels and consistency with discussions in TGbe.
         2. C: We are trying to optimize the channelization with insufficient information. We need more time to decide.
         3. C: Need to check FCC’s rule making.
      3. Straw Polls
         * 1. **Straw Poll #1: Do you agree that the channelization for 6 GHz shall start at 5950 MHz instead of 5940 MHz?**

**Result: Y/N/Need more discussion = 24/0/64.**

* + - 1. **Straw Poll #2: Do you agree with the proposed efficient channelization, i.e., dedicated channelization for each U-NII band where there is no crossing of channels across U-NII bands, for the 6 GHz band?**
      2. **Based on the result of the previous straw poll, this straw poll was deferred.**
    1. Next step
       1. Imran to have more offline discussion.
  1. **Wook Bong Lee (Samsung) presented “D4.0 CR for 6GHz channelization,” based on the submission 11-19-1017-03.**
     1. Summary
        1. Resolutions to the comments for the 6 GHz channelization defined in IEEE 802.11ax D4.0 with following CIDs are proposed.
           1. CIDs: 20452, 20453, 20518, 20519
     2. Discussion
        1. C: A member agreed with the proposed change. Requirements of ETSI is discussed. Also the commenter asked for removal of the discussion part in the submission.
     3. **Straw Poll: Do you accept resolutions to CIDs 20452, 20453, 20518, 20519 in doc 11-19/1017r3?**
        1. **Result: Accepted with unanimous consent.**
     4. Next Step
        1. Approval by TG motion.
  2. **Huizhao Wang (Quantenna) presented “,” based on the submission 11-19-0099-03.**
     1. Summary
        1. Resolutions to the comments on HE sounding defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
           1. CIDs: 20198, 20222, 20223, 20224, 20225, 20226, 21609, 21613
     2. Discussion
        1. Q: A member asked for the intention of this proposal. 🡪 The intention is to allow non-TB feedback.
        2. C: Some members opposed to the proposal. We do not need too many mode of sounding.
        3. C: Another member supported this proposal since this is not a new mode of sounding but it is existing procedure.
     3. Straw Polls – conducted after presentation of Po-Kai.
        1. **Straw Poll #1: Do you agree the CR for CIDs (20198, 20233, 21609, 21613) allowing using non-TB sounding sequence to solicit MU feedback from non-AP STA?**
           1. **Result: Y/N/A = 10/20/9**
        2. **Straw Poll #2: Do you agree CIDs 20222, 20224, 20225, 20226 allowing using no-TB sounding sequence solicit partial BA SU feedback, beamformer suggesting sounding paraneters to beamformee?**
           1. **Result: Y/N/A = 10/18/18**
     4. Next Step
        1. Need more discussion.
  3. **Po-Kai Huang (Intel) presented “11ax D4.2 Padding for Random Access,” based on the submission 11-19-0099-03.**
     1. Summary
        1. This submission proposes resolutions for issues related to padding of random access.
        2. For UORA, a non-AP STA may not stop processing User Info field until it reaches a User Info field with AID equal to 4095.
        3. It is proposed to clarify that AID 2046 are not counted as padding.
     2. Discussion
        1. C: A member mentioned that he/she understood the intention, but the proposed text is more than that.
        2. C: Unassigned RU (AID12 = 2046) needs additional processing time.
        3. C: A member asked for making rules simple and no exception.
     3. Next Step
        1. More discussion to come to an agreement.

1. **AoB**
   1. none.
2. **Recess**
   1. TGax is in recess @ 15:32.

**Monday, July 15th, 2019, PM3 TGax ad hoc sessions (19:30 - 21:30)**

* MAC ad hoc: meeting room F1
  + Agenda: 11-19-1279
* MU ad hoc: meeting room F2
  + Agenda: 11-19-1292

Minutes are contained in separate documents.

**Tuesday, July 16th, 2019, AM2 TGax Ad Hoc Session (10:30 AM - 12:30)**

* PHY ad hoc: meeting room F1
  + Agenda: 11-19-1274
* MAC ad hoc: meeting room F2
  + Agenda: 11-19-1279

**Tuesday, July 16th, 2019, PM1 TGax Ad Hoc Session (13:30 - 15:30)**

* PHY ad hoc: meeting room F1
  + Agenda: 11-19-1274
* MAC ad hoc: meeting room F2
  + Agenda: 11-19-1279

**Tuesday, July 16th, 2019, PM2 TGax full session (16:00 - 18:00)**

1. **The meeting called to order at 16:00 AM by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
   1. Introduction of TGax leadership.
   2. Agenda document 19/0983r3 on the server. R2 is the working document.
2. **Agenda Setting**
   1. Proposed agenda for Tuesday PM2
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Review progress from ad hoc groups
         1. MAC 🡪 11-19/1279r2
         2. MU 🡪 11-19/1292r1
         3. PHY 🡪 11-19/1274r2
      4. Presentations and comment resolution
      5. Recess
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
      1. The agenda for Tuesday PM2 is approved.
3. **Announcements**
   1. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
   2. Attendance: <https://imat.ieee.org/attendance>
   3. Chair asked people to put the cellphone mute of switch off.
4. **IEEE-SA IPR Policy & Procedure**
   1. The chairperson reminded that we are still operating under the IEEE-SA Policies and Procedures.
   2. The chairperson also reminded that the participation to the IEEE 802 meeting is as an individual.
5. **Progress Review**
   1. PHY - 5 CIDs remaining. One more session will be good.
   2. MAC - still many submissions to hear.
   3. MU - done.
6. **Presentations and Comment Resolution**
   1. **Laurent Cariou (Intel) presented “CR for 6 GHz out of band,” based on the submission 11-19-0417-06.**
      1. Summary
         1. Resolutions to the comments on 6 GHz band related operation defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20019, 20040, 20041, 20244, 20252, 20253, 20255, 20264, 20265, 20290, 20365, 20366, 20369 ,20370, 20371, 20800, 20801, 20802, 20803, 20804, 20805, 20806, 21161, 21162, 21355, 21356, 21357, 21358, 21442, 21505, 21506, 21533, 21534, 21535 ,21536, 21583, 21584, 20081, 20082, 20083, 21285, 21335, 21441, 20372
            2. Remaining CIDs: 20041, 20801, …, 21506 and 21535.
      2. Discussion
         1. CID 20801: A member asked for deferral.
         2. Other CIDs are okay.
      3. **Straw Poll: Do you accept resolutions to CIDs 20017, 20019, 20022, 20040, 20041, 20244,, 20290, 20365, 20366, 20369, 20370, 20371, 20800, 20801, 20802, 20803, 20804, 20805, 20806, 21161, 21162, 21355, 21356, 21357, 21358, 21442, 21505, 21506, 21533, 21534, 21535 ,21536, 21583, 21584, 20081, 20082, 20083, 21285, 21286, 21335, 21441, 20372 in doc 11-19/0417r7?**
         1. **Result: Resolutions to CIDs in black approved by unanimous consent.**
      4. Next Step: CID 20801 needs more work. Other CIDs are ready for motion.
   2. **Laurent Cariou (Intel) presented “CR for Spatial reuse,” based on the submission 11-19-0416-04.**
      1. Summary
         1. This is an update from the yesterday’s discussion.
         2. Remaining CIDs are 21038, 21060 and 21095.
      2. Discussion
         1. Minor edits suggested.
      3. **Straw Poll: Do you accept resolutions to CIDs 21038, 21060, 21095 in doc 11-19/0416r4?**
         1. **Result: Accepted with unanimous consent.**
      4. Next Step: Approval by TG motion.
   3. **Laurent Cariou (Intel) presented “CR for Misc CIDs,” based on the submission 11-19-1161-04.**
      1. Summary
         1. Resolutions for the comments submitted to the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20090, 20099, 20245, 20367, 20368, 20570, 20599, 20638, 20668, 20810, 21525, 20375, and 20042.

Remaining CID is 20090.

* + 1. Discussion
       1. The group discussed the multiple RNR case.
       2. One of the member would like to defer the SP.
    2. **Straw Poll: Do you accept resolutions to CIDs 20090, 20099, 20245, 20367, 20368, 20570, 20599, 20638, 20668, 20810, 21525, 20375, 20042 in doc 11-19/1161r4?**
       1. **Result: Y/N/A = 11/2/23, achieves >= 75 %**
    3. Next Step: Approval by TG motion.
  1. **Laurent Cariou (Intel) presented “Last CIDs,” based on the submission 11-19-1281-01.**
     1. Summary
        1. Resolutions to the comments submitted to the IEEE 802.11ax D4.0 with following CIDs are proposed.
           1. CIDs: 20036, 20339, 20340, 20377, 21443, 21444
     2. Discussion
        1. CID 20377: The commenter is not happy with the reason of the rejection. 🡪 The reason was updated.
        2. CID 21443: A member asked for deferral. 🡪 Deferred.
        3. CID 21552:
           1. A member commented the reason for the rejection is not appropriate. 🡪 Updated.
           2. Another member suggested acceptance of the CID. He/She would like to see the technical reason of the rejection.
           3. There was a comment that the existing text is the consensus of the group.
        4. The document was updated to r2 incorporating the results of discussions.
     3. **Straw Poll: Do you accept resolutions to CIDs 20036, 20339, 20340, 20377, 21444 in doc 11-19/1281r2?**
        1. **Result: Resolutions were accepted by unanimous consent.**
     4. Next Step: Approval by TG motion. CID 21443 needs more discussion.
  2. **Laurent Cariou (Intel) presented “CR for CID21506,” based on the submission 11-19-1301-00.**
     1. Summary
        1. The resolution to the comment with CID 21506 submitted to the IEEE 802.11ax D4.0 is proposed.
           1. CID 21506 - Re: Co-located ESS operation
     2. Discussion
        1. A member asked if there is any equivalent behavior in Neighbor Report. The answer was no.
        2. The group discussed the TxPower differences and the coverage. The mechanism to carry TxPower differences are discussed as well.
        3. The group also discussed the Co-located BSS case.
     3. Straw Poll – deferred.
     4. Next Step: Need more discussion.
  3. **Laurent Cariou (Intel) presented “CR for NFRP,” based on the submission 11-19-0769-00.**
     1. Summary
        1. This document contains a proposed resolution to CID 20364.
           1. CID 20364 – Re: NFRP trigger frame
     2. Discussion
     3. Straw Polls
        1. **Straw Poll #1: Do you agree to define a new type for NFRP Trigger frame for indication of the power state as suggested in 11-19/0769r0?**
           1. **Result: Y/N/A = 9/10/24, did not achieve >= 75%**
        2. **Straw Poll #2: Do you accept “Rejected” as the resolution to CID 20364? A proposal was presented in doc 11-19/0769r0 and was discussed. The SP result indicated no consensus on the proposed resolution.**
           1. **Result: Accepted with unanimous consent.**
     4. Next Step: Approval by TG motion.
  4. **Abhished Patil (Qualcomm) presented “Resolution for CIDs related to Multiple BSSID – Part 2,” based on the submission 11-19-1148-01.**
     1. Summary
        1. Resolutions
           1. CIDs: 20293, 20413, 21042, 20709, 20259, 21537, 21168, 21157
     2. Discussion
        1. CID 21042: Related text was updated based on the discussion.
        2. CID 21168:
           1. A member asked what VAP is. 🡪 Virtual AP.
           2. The point is if it is possible to schedule users associated to different AP.
           3. The group discussed the restriction on the scheduling at each VAP.
        3. CID 21157:
           1. A member would like to take over this CID.
     3. **Straw Poll: Do you accept resolutions to CIDS 21042, 21537 in doc 11-19/1148r2?**
        1. **Result: Approved by unanimous consent.**
     4. Next Step: Approval by TG motion.

1. **Recess**
   1. TGax is in recess @ 18:00 until Wednesday PM1.

**Wednesday, July 17th, 2019, PM1 TGax full session (13:30 - 15:30)**

1. **The meeting called to order at 13:31 by Jianhan Liu (MediaTek), the TGax PHY ad hoc chair on behalf of Osama Aboul-Magd.**
   1. Introduction of TGax leadership.
   2. Osama is not available due to the Coexistence Workshop.
   3. Agenda document 19/1274r2 on the server.
2. **Agenda Setting**
   1. Proposed Agenda for Wednesday PM1:
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Submissions and comment resolution
      4. Recess
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
   3. The agenda for AM1 was approved.
3. **Announcements/Reminder**
   1. Attendance: <https://imat.ieee.org/attendance>
   2. Chair asked people to state name and affiliation when addressing the group for the first time in a session.
4. **IEEE-SA IPR Policies and Procedures -** Chair read the following 5 slides:
   * 1. Participants have a duty to inform the IEEE – done.
     2. Ways to inform IEEE – done
        + Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
        + Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
        + Speak up now and respond to this Call for Potentially Essential Patents
        + If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
        1. Chair asked if anyone in this meeting is aware of any potentially essential patents. 🡪 There was no response.
     3. Other guidelines for IEEE WG meetings – done
     4. Patent-related information – done
     5. Participation in IEEE 802 Meetings – done
5. **Submissions and Comment Resolution**
   1. **Youhan Kim (Qualcomm) presented “D4.0 Comment Resolution – Part 3,” based on the submission 11-19-1225-02.**
      1. Summary
         1. Resolutions for the comments received for the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 20217, 20561, 20523, 20552, 20556, 21500, 21499, 21215, 21216, 21120, 21378, 20653, 20619, 20620, 21563
      2. Discussion
         1. CID 20561 & 20523:
            * The group discussed the usage of terminologies such as Trigger frame and Triggering PPDU. Basically a frame is MAC layer concept and PPDU is PHY.
            * A member asked for the STA’s behavior when a Triggering frame is received by multiple antennas. Also the group discussed the case when the transmit antenna and the receive antenna are different. Basically there will not be a big issue.
            * Another member commented there is a conflict in the definition of Trigger NFRP.
         2. CID 20217: A member commented that the number of DC tone should not be changed.
      3. **Straw Poll: Do you agree the proposed comment resolution to the following CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1225r2?**
         * + **CID 20217, 20561, 20523, 20552, 20556, 21500, 21499, 21215, 21216, 21120, 21378, 20653, 20619, 20620, 21563**
         1. **Result: Accepted with no objection.**
      4. Next Step: TG motion.
   2. **Youhan Kim (Qualcomm) presented “D4.0 Comment Resolution – Part 4,” based on the submission 11-19-1226-01.**
      1. Summary
         1. Resolutions for the comments received for the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 20631, 20632, 20203, 20883
      2. Discussion
         1. CID 20203: A member commented that the TGmd reopened the discussion related to this comment.
      3. **Straw Poll: Do you agree the proposed comment resolution to the following 4 CIDs to IEEE P802.11ax D4.2 as in 11-19/1226r1** 
         * + **CID 20631, 20632, 20203, 20883**
         1. **Result: Accepted with no objection.**
      4. Next Step: TG motion.
   3. **Ming Gan (Huawei Technologies) presented “CR on PHY SIGB,” based on the submission 11-19-1185-02.**
      1. Summary
         1. Resolutions for the comments on the HE-SIG-B defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 20937, 21034, and 20777 (3 CIDs)
      2. Discussion
         1. Some minor fixes based on the comment 🡪 r3 is uploaded.
      3. **Straw Poll: Do you agree the proposed comment resolution to the following 3 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1185r3?**
         * + **CID 20937, 21034 and 20777**
         1. **Result: Accepted with no objection.**
   4. **Xiaogang Chen (Intel) presented “CR for CID 21501, 21502, 21436” based on the submission 11-19-0422-07.**
      1. Summary
         1. Resolutions for the comments on HE PHY defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 21501, 21502 and 21436
      2. Discussion
         1. CID 21502: A member asked for more discussion 🡪 this CID is deferred.
      3. **Straw Poll: Do you agree the proposed comment resolution to the following 2 CIDs to IEEE P802.11ax D4.2 as in 11-19/0422r7?** 
         * + **CID 21501, 21436**
         1. **Result: Accepted with no objection.**
      4. Next Step: TG motion for the CID 21501 and 21436. CID 21502 needs more discussion.
   5. **Po-Kai Huang (Intel) presented “11ax D4.2 RA Setting for Response to Trigger frame,” based on the submission 11-19-1263-00.**
      1. Summary
         1. There is a conflict for the spec text in 26.5.2.3.5 (RA field for frames carried in an HE TB PPDU) and 26.7.3 (Rules for HE sounding protocol sequences).
         2. In 26.5.2.3.5, the RA field of the Management frame sent in response to a Trigger frame shall be set to the MAC address of the destination AP while the text in 26.7.3 says that the RA of the HE compressed beamforming/CQI report sent in response shall have the RA field set to either the nontransmitted BSSID or the transmitted BSSID.
      2. Discussion
         1. A member asked for a time to think about this issue.
         2. Another member mentioned that transmitter address setting should be consistent throughout the sequence.
      3. Next Step
         1. Need more discussion.
   6. **Yongho Seok (MediaTek) presented “LB238 CR MAC Miscellaneous,” based on the submission 11-19-1141-02.**
      1. Summary
         1. Resolutions for the comments received for the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 20030, 20586, 20300, 20301, 20697, 20747, 20039, 20500 (8 CIDs)
      2. Discussion
         1. No discussion.
      3. **Straw Poll: Do you agree the proposed comment resolution to the following 8 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1141r2?**
         * + **CIDs: 20030, 20586, 20300, 20301, 20697, 20747, 20039, 20500**
         1. **Result: Accepted with no objection.**
      4. Next Step
         1. Approval by TG motion.
   7. **Yongho Seok (MediaTek) presented “LB238 CR UL MU Power Capabilities,” based on the submission 11-19-1140-00.**
      1. Summary
         1. Resolutions for the comments on the UL MU Power Capabilities defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * 20688, 21328, 21330, 21331, 21332, 20204, 21333, 20499
      2. Discussion
         1. Yongho’s presentation was interrupted because of the time.
      3. Next Step
         1. Yongho to continue his presentation.
6. **AoB**
   1. None.
7. **Recess**
   1. TGax meeting is in recess @ 15:31. There is TGax full session (MAC/MU topics) in PM2 today.

**Wednesday, July 17th, 2019, PM2 TGax ad hoc sessions (16:00 - 18:00)**

1. **The meeting called to order at 16:00 by Osama Aboul-Magd (Huawei Technologies), the chairperson of the IEEE 802.11 TGax.**
   1. Introduction of TGax leadership.
   2. Agenda document 19/0983r4 on the server.
2. **Agenda Setting**
   1. Proposed Agenda for Wednesday PM1:
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Submissions and comment resolution
      4. Recess
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
   3. The agenda for PM2 was approved.
3. **Announcements/Reminder**
   1. Chair reminded people that we are still operating under the IEEE-SA IPR Policies and Procedures.
   2. Attendance: <https://imat.ieee.org/attendance>
   3. Chair asked people to state name and affiliation when addressing the group for the first time in a session.
4. **Submissions and Comment Resolution**
   1. **Yongho Seok (MediaTek) presented “,” based on the submission 11-19-1140-00.**
      1. Summary
         1. Resolutions for the comments on the UL MU Power Capabilities defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * 20688, 21328, 21330, 21331, 21332, 20204, 21333, 20499
      2. Discussion
         1. CID 20688:
            * A member commented that the reference needs to be fixed (9.6.3.1.6 🡪 9.4.2.256).
            * Another member asked if it is really necessary to define a new Action frame.
            * The group discussed the mechanism to tell the maximum capable transmit power for MCS0.
         2. CID 21049: Deferred by a request from a participant.
         3. CID 21329: A member asked for deferral.
         4. CID 21328: A member commented that the normative behavior of power capability is not defined. 🡪 deferred.
      3. **Straw Poll: Do you accept resolutions to CIDs 21049, 20688, 21328, 21330, 21331, 21332, 20204, 21333, 20499, 20689, and 21329 in doc 11-19/1140r1?**
         1. **Result: Y/N/A = 19/0/10, achieves >= 75%.**
      4. Next Step:
         1. Approval by TG motion. CIDs 21049, 21328 and 21329 need more discussion.
   2. **Yongho Seok (MediaTek) presented “LB238 CR HE Subchannnel Selective Transmission,” based on the submission 11-19-0771-00.**
      1. Summary
         1. Resolutions for the comments on HE Sebchannel Selective Transmission defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 21514, 21515, 21516, 21206, 21517, 20236, 20246, 21518, 21519, 21520, 20122, 20123, 21207, 21519, 20407 (14 CIDs)
      2. Discussion
         1. CID 21516: A member asked if there is a definition for HE SST STA. Another member commented that it is redundant.
         2. CID 21515: 🡪 to be removed from this document.
         3. CID 21206: The group discussed the relation between SST and 20 MHz-only STA. A participant mentioned he is not sure if this resolution satisfies the comment. 🡪 CID 21206 was transferred to David Kloper (Cisco Systems).
         4. CID 20236: A participant asked for deferral of this comment. He will take care of this CID. 🡪 CID 20236 was transferred to Zhou Lan (Broadcom).
         5. CID 20123 was resolved in another document.
      3. **Straw Poll: Do you accept resolutions to CIDs 21514, 21515, 21516, 21206, 21517, 20236, 20246, 21518, 21520, 20122, 21207, 21519, 20407 in doc 11-19/0771r1?**
         1. **CID 20236 is transferred to Zhou.**
         2. **CID 21206 is transferred to David.**
         3. **Result: Approved with unanimous consent.**
         4. Next Step: Approval by TG motion.
   3. **George Cherian (Qualcomm) presented “Ack related CRs,” based on the submission 11-19-1306-00.**
      1. Summary
         1. Resolutions for the remaining three CIDs on the Ack related comments for the IEEE 802.11ax D4.0 are proposed.
            * CIDs: 20996, 21174, and 21186
      2. Discussion
         1. CID 20996: The resolution was changed from “Revised” to “Accepted”. 🡪 r1 to be uploaded.
      3. **Straw Poll: Do you accept resolutions to CIDs 20996, 21174, 21186 in doc 11-19/1306r1?**
         1. **Result: Approved with unanimous consent.**
      4. Next Step: Approval by TG motion.
   4. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for HE FTM in 6 Ghz,” based on the submission 11-19-1061-00.**
      1. Summary
         1. Resolutions for the two comments on the FTM in 6 GHz band defined by the IEEE 802.11ax D4.0 are proposed.
            * CIDs: 20209 and 21567.
      2. Discussion - No discussion.
      3. **Straw Poll: Do you accept resolutions to CIDs 20209 and 21567 in doc 11-19/1061r0?**
         1. **Result: Accepted with unanimous consent.**
      4. Next Step: Approval by TG motion.
   5. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for transmit power control - part 2,” based on the submission 11-19-0594-02.**
      1. Summary
         1. Resolutions for CIDs 20017 and 20022 on transmit power control defined by the IEEE 802.11ax D4.0 are proposed.
      2. Discussion
         1. A member commented that number should be assigned by ANA. 🡪 Alfred to take an action.
      3. **Straw Poll: Do you accept resolutions to CIDs 20017 and 20022 in doc 11-19/0594r2?**

**Note: Alfred will update the ANA values to element IDs according to Mark suggestion.**

* + - 1. **Result: Accepted with unanimous consent.**
    1. Next Step: Approval by TG motion.

1. **Recess**
   1. TGax is in recess @ 18:00 until Thursday AM2.

**Thursday, July 18th, 2019, AM2 TGax full session (10:30 AM - 12:30 PM)**

1. **The meeting called to order at 10:30 AM by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
   1. Introduction of TGax leadership.
   2. Agenda document 19/0983r5 available.
2. **Agenda Setting**
   1. Proposed Agenda for Thursday AM2 and PM2:
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. TG Motions
      4. Teleconferences scheduling
      5. Ad hoc meeting
      6. Submissions and comment resolutions
      7. Adjourn
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
   3. The agenda for AM2 and PM2 was approved.
3. **Announcements and Reminder**
   1. Chair reminded that we are still operating under the IEEE-SA P&P.
   2. Chair asked people to state name and affiliation when addressing the group for the first time in a session.
   3. Attendance: <https://imat.ieee.org/attendance>
4. **TG Motion**
   1. **CR Motions**
      1. **CR Motion #866: Move to accept resolutions to CIDs 20260, 20261, 20362, 20363, 20575, 21134, 21135, 21136, 20420, 21142 in doc 11-19/0414r3.**
         1. **Moved by Laurent Cariou, Seconded by Srinivas Kandala.**
         2. **Discussion – No discussion.**
         3. **Result: Passes by unanimous consent.**
      2. **CR Motion #867: Move to accept resolutions to CIDs 20193, 21199, 21604, 20136, 20137, 20194, 20195, 20417, 20983, 21069, 21202, 21606 in doc 11-19/1023r4.**
         1. **Moved by Liwen Chu, Seconded by Alfred Asterjadhi.**
         2. **Discussion – No discussion.**
         3. **Note: This motion is covered by another motion (MAC Motion #852)**
      3. **CR Motion #868: Move to accept resolution to CID 20346 in doc 11-19/0494r3.**
         1. **Moved by Kaiying Lu, Seconded by Yongho Seok.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      4. **CR Motion #869: Move to accept resolutions to CIDs 20167, 20396, and 20397 in doc 11-19/0835r3.**
         1. **Moved by Kaiying Lu, Seconded by Yongho Seok.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      5. **CR Motion #870: Move to accept resolutions to CIDs 20826, 20196, 20330, 20393, 20427, 21066, 21137, in doc 11-19/1035r1.**
         1. **Moved by Liwen Chu, Seconded by Ming Gan.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      6. **CR Motion #871: Move to accept resolutions to CIDs 20425 20759 in doc 11-19/1184r1.**
         1. **Moved by Ming Gan, Seconded by Yunbo Li.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      7. **CR Motion #872: Move to accept resolutions to CIDs 20308, 21106, 20386, 20387, 20722, 20796, 20848, 21022, 21474, 21487, 20761, 20889 in doc 11-19/0604r5.**
         1. **Moved by Po-Kai Huang, Seconded by Wook Bong Lee.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      8. **CR Motion #873: Move to accept resolution to CIDs 20000 in doc 11-19/1147r1.**
         1. **Moved by Abhishek Patil, Seconded by Bin Tian.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      9. **CR Motion #874: Move to accept resolution to CID 21110 in doc 11-19/1217r1.**
         1. **Moved by Abhishek Patil, Seconded by Ming Gan.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      10. **CR Motion #875: Move to accept resolutions to CIDs 21179, 21185, 20792 in doc 11-19/1211r1.**
          1. **Moved by George Cherian, Seconded by Ming Gan.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      11. **CR Motion #876: Move to accept resolutions to CIDs 20452, 20453, 20518, 20519 in doc 11-19/1017r4.**
          1. **Moved by Wook Bong Lee, Seconded by Alfred Asterjadhi.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      12. **CR Motion #877: Move to accept resolutions to CIDs 20019,, 20040, 20041, 20244, 20290, 20365, 20366, 20369, 20370, 20371, 20800, 20801, 20802, 20803, 20805, 20806, 21161, 21162, 21355, 21356, 21357, 21358, 21442, 21505, 21506, 21533, 21534, 21535 ,21536, 21583, 21584, 20081, 20082, 20083, 21285, 21335, 21441, 20372 in doc 11-19/0417r8.**
          1. **Moved by Laurent Cariou, Seconded by Srinivas Kandala.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      13. **CR Motion #878: Move to accept resolutions to CIDs 21038, 21060, 21095 in doc 11-19/0416r4.**
          1. **Moved by Laurent Cariou, Seconded by Srinivas Kandala.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      14. **CR Motion #879: Move to accept resolutions to CIDs 20090, 20099, 20245, 20367, 20368, 20570, 20599, 20638, 20668, 20810, 21525, 20375, 20042 in doc 11-19/1161r4.**
          1. **Moved by Laurent Cariou, Seconded by Srinivas Kandala.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      15. **CR Motion #880: Move to accept resolutions to CIDs 20036, 20339, 20340, 20377, 21444 in doc 11-19/1281r2.**
          1. **Moved by Laurent Cariou, Seconded by Srinivas Kandala.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      16. **CR Motion #881: Move to accept resolution to CID 21506 in doc 11-19/1301r0.**
          1. **Moved by Laurent Cariou, Seconded by .**
          2. **Discussion: No discussion.**
          3. **Result: This motion was deferred.**
      17. **CR Motion #882: Move to accept “Rejected” as the resolution to CID 20364. A proposal was presented in doc 11-19/0769r0 and was discussed. The SP result indicated no consensus on the proposed resolution.**
          1. **Moved by Abhishek Patil, Seconded by George Cherian.**
          2. **Discussion: No discussion.**
          3. **Result: Pass with unanimous consent.**
      18. **CR Motion #883: Move to accept resolutions to CIDs 20293, 20413, 21042, 20709, 20259, 21537 in doc 11-19/1148r2.**
          1. **Moved by Abhishek Patil, Seconded by Srinivas Kandala.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      19. **CR Motion #884: Move to accept resolutions to CIDs 21295, 20120, 20123 in doc 11-19/0961r3.**
          1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      20. **CR Motion #885: Move to accept resolutions to CIDs 20242, 20454, 21044, 21096, 21139, 21140, 21141, 21353, 21354, 21531, 21532, 21579, 21580, 21582, 20374, 20376, 20127 in doc 11-19/0962r4.**
          1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      21. **CR Motion #886: Move to accept resolutions to CIDs 20240, 20456, 21269, 21270, 21272, 21275, 21277, 21279 in doc 11-19/0963r2.**
          1. **Moved by Alfred Asterjadhi, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      22. **CR Motion #8887: Move to accept resolutions to CIDs 20074, 20075, 20130, 20211, 21512, 21048 in doc 11-19/0965r1.**
          1. **Moved by Alfred Asterjadhi, Seconded by George Cherian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      23. **CR Motion #888: Move to accept resolutions to CIDs 20085, 20086, 20642, 21052, 21053, 21054, 21056, 21057, 21058, 21059, 20647, 20961, 20962, 20963, 20965, 20966, 20967, 21055, 20101, 20102, 20103, 20483, 20484 in doc 11-19/1163r1.**
          1. **Moved by Kaiying Lu, Seconded by Srinivas Kandala.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      24. **CR Motion #889: Move to accept resolutions to CIDs 20716, 21208, 21478 in doc 11-19/0696r11.**
          1. **Moved by Jarkko Kneckt, Seconded by Zhou Lan.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      25. **CR Motion #890: Move to accept resolutions to CIDs 20131, 20132, 20133, 20134, 20384, 20385, 20414, 20415, 20627, 20765, 21032, 21068, 21342, 21610, 20699 in doc 11-19/0734r3.**
          1. **Moved by Liwen Chu, Seconded by Ming Gan.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      26. **CR Motion #891: Move to accept resolutions to CID 20646, 20807 in doc 11-19/0737r2.**
          1. **Moved by Liwen Chu, Seconded by Zhou Lan.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      27. **CR Motion #892: Move to accept resolutions to CIDs 20654, 20671, 20876 in doc 11-19/0735r7.**
          1. **Moved by Liwen Chu, Seconded by Alfred Asterjadhi.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      28. **CR Motion #893: Move to accept resolutions to CIDs 21479, 20887, 20476 in doc 11-19/1138r1.**
          1. **Moved by Yongho Seok, Seconded by James Yee.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      29. **CR Motion #894: Move to accept resolutions to CIDs 20469, 20466, 20468 in doc 11-19/1139r1.**
          1. **Moved by Yongho Seok, Seconded by James Yee.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      30. **CR Motion #895: Move to accept resolutions to CIDs 21169, 20192, 21603 in doc 11-19/1218r0.**
          1. **Moved by Abhishek Patil, Seconded by Alfred Asterjadhi.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      31. **CR Motion #896: Move to accept resolutions to CIDs 20529, 20630 in doc 11-19/1130r1.**
          1. **Moved by Yunbo Li, Seconded by Alfred Asterjadhi.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      32. **CR Motion #897: Move to accept resolutions to CIDs 20624 in doc 11-19/1204r1.**
          1. **Moved by Laurent Cariou, Seconded by Alfred Asterjadhi.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      33. **CR Motion #898: Move to accept resolutions to CIDs 20688, 21330, 21331, 21332, 20204, 21333, 20499, 20689, in doc 11-19/1140r1.**
          1. **Moved by Yongho Seok, Seconded by Ming Gan.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      34. **CR Motion #899: Move to accept resolutions to CIDs 21514, 21516, 21517, 20246, 21518, 21520, 20122, 21207, 21519, 20407 in doc 11-19/0771r1.**
          1. **Moved by Yongho Seok, Seconded by James Yee.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      35. **CR Motion #900: Move to accept resolutions to CIDs 20996, 21174, 21186 in doc 11-19/1306r1.**
          1. **Moved by George Cherian, Seconded by Abhishek Patil.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      36. **CR Motion #901: Move to accept resolutions to CIDs 20209 and 21567 in doc 11-19/1061r0.**
          1. **Moved by Abhishek Patil, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      37. **CR Motion #902: Move to accept resolutions to CIDs 20017 and 20022 in doc 11-19/0594r2.**
          1. **Moved by Alfred Asterjadhi, Seconded by.**
          2. **Note: Alfred will update the ANA values to element IDs according to Mark suggestion.**
      38. **CR Motion #903: Move to accept the proposed comment resolution to the following 3 CIDs to IEEE P802.11ax D4.2 as in 11-19/0572r1;**
          * + **CIDs 20973, 20719 and 21026.**
          1. **Moved by Bo Sun, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      39. **CR Motion #904: Move to accept the proposed comment resolution to the following 12 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.1 as in 11-19/0703r0;**
          * + **CIDs 20184, 20214, 20215, 20216, 20538, 20587, 20818, 21191, 21364, 21473, 21550, 21595.**
          1. **Moved by Tianyu Wu, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      40. **CR Motion #905: Move to accept the proposed comment resolution to the following 2 CIDs to IEEE P802.11ax D4.2 as in 11-19/0971r0;**
          * + **CIDs 20760, 20793.**
          1. **Moved by Ross Jian Yu, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      41. **CR Motion #906: Move to accept the proposed comment resolution to the following 7 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/0972r1;**
          * + **CIDs 20856, 20914, 20915, 21008, 21035, 21036, 21408.**
          1. **Moved by Ross Jian Yu, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      42. **CR Motion #907: Move to accept the proposed comment resolution to the following 2 CIDs to IEEE P802.11ax D4.2 as in 11-19/0422r7;**
          * + **CIDs 21501, 21436.**
          1. **Moved by Xiaogang Chen, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      43. **CR Motion #908: Move to accept the proposed comment resolution to the following 5 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1125r2;**
          * + **CIDs 20170, 20171, 20172, 20621, 20714.**
          1. **Moved by Dandan Liang, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      44. **CR Motion #909: Move to accept the proposed comment resolution to the following 1 CID to IEEE P802.11ax D4.2 as in 11-19/1302r0;**
          * + **CID 21267.**
          1. **Moved by Brian Hart, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      45. **CR Motion #910: Move to accept the proposed comment resolution to the following 1 CID to IEEE P802.11ax D4.2 as in 11-19/0973r2;**
          * + **CID 20718.**
          1. **Moved by Yujin Noh, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      46. **CR Motion #911: Move to accept the proposed comment resolution to the following 3 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1188r0;**
          * + **CIDs 20794, 20934, 20935.**
          1. **Moved by Ron Porat, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      47. **CR Motion #912: Move to accept the proposed comment resolution to the following 14 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1127r4;**
          * + **CIDs 20727, 20728, 20729, 20730, 20896, 20936, 20941, 21389, 21391, 21392, 21393, 21411, 21412, 21564.**
          1. **Moved by Kaiying Lu, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      48. **CR Motion #913: Move to accept the proposed comment resolution to the following 3 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1185r3;**
          * + **CIDs 20937, 21034 and 20777.**
          1. **Moved by Ming Gan, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      49. **CR Motion #914: Move to accept the proposed comment resolution to the following 3 CIDs to IEEE P802.11ax D4.2 as in 11-19/1271r0;**
          * + **CIDs 20769, 20774, 21381.**
          1. **Moved by Sameer Vermani, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      50. **CR Motion #915: Move to accept the proposed comment resolution to the following CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1225r2;**
          * + **CIDs 20217, 20561, 20523, 20552, 20556, 21500, 21499, 21215, 21216, 21120, 21378, 20653, 20619, 20620, 21563.**
          1. **Moved by Youhan Kim, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      51. **CR Motion #916: Move to accept the proposed comment resolution to the following 4 CIDs to IEEE P802.11ax D4.2 as in 11-19/1226r1;**
          * + **CIDs 20631, 20632, 20203, 20883.**
          1. **Moved by Youhan Kim, Seconded by Bin Tian.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      52. **CR Motion #917: Move to accept the proposed comment resolution to the following 8 CIDs and the corresponding modification proposal to IEEE P802.11ax D4.2 as in 11-19/1141r2;**
          * + **CIDs 20030, 20586, 20300, 20301, 20697, 20747, 20039, 20500.**
          1. **Moved by Yongho Seok, Seconded by Kaiying Lu.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      53. **CR Motion #918: Move to accept resolutions to CIDs 20247, 20352, 20410, 20443, 20590, 21061, 21062, 21265 in doc 11-19/0561r2.**
          1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      54. **CR Motion #919: Move to accept resolutions to CIDs 20186, 20640, 20650, 20651, 20655, 20659, 20660, 20764, 20816, 21597, 21082 in doc 11-19/0750r4.**
          1. **Moved by Liwen Chu, Seconded by Alfred Asterjadhi.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      55. **CR Motion #920: Move to accept resolution to CIDs 20493, 21160, 21496 in doc 11-19/0909r3.**
          1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      56. **CR Motion #921: Move to accept resolutions to CIDs 20739, 20740 in doc 11-19/1009r1.**
          1. **Moved by Po-Kai Huang, Seconded by Laurent Cariou.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
      57. **CR Motion #922: Move to accept resolutions to CIDs 20188, 21599, 20189, 21600, 20190, 21601 in doc 11-19/1014r2.**
          1. **Moved by Po-Kai Huang, Seconded by Laurent Cariou.**
          2. **Discussion: No discussion.**
          3. **Result: Passed with unanimous consent.**
   2. **PHY Motions – this motion was conducted between CR Motion #906 and #907.**
      1. **PHY Motion #213: Move to accept the proposed modification proposal to IEEE P802.11ax D4.2 as in 11-19/1013r0.**
         1. **Moved by Ross Jian Yu, Seconded by Bin Tian.**
         2. **Discussion – No discussion.**
         3. **Result: Passes by unanimous consent.**
5. **Teleconference Schedule**
   1. Thursday, August 1st, 15th, 29th, from 10:30 (ET) for 3 hours
   2. Thursday, August 8th, 22nd, September 5th, from 19:30 (ET) for 3 hours
6. **Ad Hoc meeting before the September 2019 meeting**
   1. TG agreed not to have an ad hoc meeting before the September 2019 meeting.
7. **AoB**
   1. Time is up.
8. **Recess**
   1. TGax is in recess @ 12:30 AM until start of PM2 (16:00) today.

**Thursday, July 18th, 2019, PM2 TGax full session (16:00 - 18:00)**

1. **The meeting called to order at 16:00 by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
   1. Introduction of TGax leadership.
   2. Agenda document 19/0983r5 available.
2. **Agenda Setting**
   1. The agenda for Thursday AM2 and PM2 as approved during AM2:
      1. Call Meeting to order
      2. IEEE-SA IPR policy and Procedure.
      3. TG Motions
      4. Telecon Schedule - done
      5. Do we need an adhoc? - done
      6. Submissions and Comment Resolution
      7. Adjourn
3. **Announcements**
   1. Chair reminded that we are still operating under the IEEE-SA P&P.
   2. Chair asked people to state name and affiliation when addressing the group for the first time in a session.
   3. Attendance: <https://imat.ieee.org/attendance>
4. **TG Motion**
   1. **CR Motion**
      1. **CR Motion #923: Move to accept resolution to CIDs in doc 11-19/1123r2 with the following tabs:**
         * + **Invalid Comment**
           + **Editorials in D4.1**
           + **Editorials in D4.2**
           + **Editorials Rejected**
           + **Editorials updated 2019-06-27**
           + **Remaining Editorials,**
         1. **Moved by Po-Kai Huang, Seconded by Youhan Kim.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
      2. **CR Motion #924: Move to accept resolutions to CIDs 20128, 21297, 21300, 21523 in doc 11-19/0964r3,**
         1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil.**
         2. **Discussion: No discussion.**
         3. **Result: Passed with unanimous consent.**
5. **CR Presentation and Motion**
   1. **Zhou Lan (Broadcom) presented “CR MU EDCA Timer,” based on the submission 11-19-0765-07.**
      1. Summary
         1. The resolution for the comment with CID 20175 on the MU EDCA procedure defined in the IEEE 802.11ax D4.0 is proposed.
      2. Discussion
         1. A member commented that multiple options related to this comment are discussed, however, none of them are agreed.
         2. Another member mentioned that this is the only way to resolve different timeout value at the STAs.
         3. The group discussed another option for the issue, however, there is no agreement.
      3. **CR Motion #925: Move accept resolution to CID 20175 in doc 11-19/0765r7.**
         1. **Moved by Zhou Lan, Seconded by Matthew Fischer.**
         2. **Discussion – No discussion.**
         3. **Result: Y/N/A = 24/16/8, motion fails.**
   2. **Tomoko Adachi (Toshiba) presented “Resolutions to comments 20104, 20648, 21124, and 21469,” based on the submission 11-19-1200-01.**
      1. Summary
         1. Resolutions for the comments with CIDs 20104, 20648, 21124, and 21469 related to the IEEE 802.11ax D4.0 are proposed.
         2. These are the remaining CIDs related to subclause 9.3.1.8.7 (Multi-STA BlockAck variant).
      2. Discussion
         1. Group discussed the value of Per AID TID Info fields.
      3. Motion
         1. **CR Motion #926: Move to accept resolutions to CIDs 20104, 20648, 21124, 21469 in doc 11-19/1200r1.**
            * **Moved by Tomoko Adachi, Seconded by Alfred Asterjadhi.**
            * **Discussion – No discussion**
            * **Result: Passed with unanimous consent.**
   3. **Menzo Wentink (Qualcomm) presented “11ax sounding comments D4.0,” based on the submission 11-19-1137-01.**
      1. Summary
         1. Resolutions for the comments related to the sounding mechanism defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            * CIDs: 20198, 20222, 20223, 20224, 20225, 20226, 20618, 20675, 20824, 20869, 20992, 21002, 21013, 21014, 21016, 21018, 21019, 21609, 21615.
      2. Discussion
         1. CID 21002: minor (editorial) change was made.
         2. CID 21609: A member expressed objection to the proposed resolution (REJECTED).

🡪 The group had a straw poll on this and did not achieve >= 75% support.

🡪 Not so many people were in the room at that time.

CID 21609 was deferred.

* + 1. Motion
       1. **CR Motion #927: Move to accept resolutions to CIDs 20675 20824 20869 20992 21002 21013 21014 21016 21018 21019 21325 21326 21615 in doc 11-19/1137r1.**
          - **Moved by Menzo Wentink, Seconded by Alfred Asterjadhi.**
          - **Discussion – No discussion**
          - **Result: Passed with unanimous consent.**
  1. **Liwen Chu (Marvell) presented “11ax D4.0 subclause 3.2 Comment Resolution,” based on the submission 11-19-1336-02.**
     1. Summary
        1. Resolutions for the comments related to subclause 3.2 (Definition) in the IEEE 802.11ax D4.0 with following CIDs are proposed.
           + CIDs: 20441, 20449, 20686, 20687, 20779.
     2. Discussion
        1. CID 20441: A member asked if the term is used in the draft. 🡪 Yes. The term is used in the proposed text in other document.
     3. Motion
        1. **CR Motion #928: Move to accept resolutions to CIDs 20441, 20449, 20686, 20687, 20779 in doc 11-19/1336r3.**
           + **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
           + **Discussion – No discussion**
           + **Result: Passed with unanimous consent.**
  2. **Jarkko Kneckt (Apple) presented “CR for 20252, 20253, 20255, 20264 and 20265,” based on the submission 11-19-1222-03.**
     1. Summary
        1. Resolutions for the comments related to the IEEE 802.11ax D4.0 with following CIDs are proposed.
           + CIDs: 20252, 20253, 20255, 20264 and 20265.
     2. Discussion
        1. A member mentioned that we need to remove related MIB.
        2. Another member asked for offline discussion.
  3. **Youhan Kim (Qualcomm) presented “D4.0 Comment Resolution – Part 3,” based on the submission 11-19-1225-03.**
     1. Summary
        1. This is an proposed update to the text in 19/1225 discussed this week.
           + Relevant CID: 12499.
     2. Discussion
        1. A member asked whether we need a motion to reconsider CR Motion #915. 🡪 No.
     3. Motion
        1. **CR Motion #929: Move to accept resolutions to CID 21499 in doc 11-19/1225r3.**
           + **Moved by Youhan Kim, Seconded by Yongho Seok.**
           + **Discussion – No discussion**
           + **Result: Passed with unanimous consent.**
  4. **Lochan Verma (Qualcomm) presented “Comment Resolution on Trigger Frame Format,” based on the submission 11-19-1183-02.**
     1. Summary
        1. Resolutions for the comments on the Trigger frame format defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
           + CIDs: 20521, 20522, 20725, 20858, 20859, 20860, 20861.
     2. Discussion
        1. CID 20521: A member asked if we really need to specify the PPDU type. 🡪 Triggering PPDU will be enough.
        2. A member asked for clarification of what will be included in the triggering PPDU.
        3. CID 20859: A member suggested minor change to the proposed text. 🡪 The document was updated (r3).
     3. Motion
        1. **CR Motion #930: Move to accept resolutions to CIDs 20521, 20522, 20725, 20858, 20859, 20860, 20861 in doc 11-19/1183r3.**
           + **Moved by Lochan Verma, Seconded by Alfred Asterjadhi.**
           + **Discussion – No discussion**
           + **Result: Passed with unanimous consent.**
  5. **Jarkko Kneckt (Apple) presented “CR for 20252, 20253, 20255, 20264 and 20265,” based on the submission 11-19-1222-04.**
     1. Summary
        1. Jarkko presented update of the submission..
     2. Discussion - No discussion.
     3. Motion
        1. **CR Motion #931: Move to accept resolutions to CIDs 20252, 20253, 20255, 20264 and 20265 in doc 1222r4.**
           + **Moved by Jarkko Kneckt, Seconded by Bin Tian.**
           + **Discussion – No discussion**
           + **Result: Passed with unanimous consent.**
  6. **Po-Kai Huang (Intel) presented “11ax D4.2 RA Setting for Response to Trigger frame,” based on the submission 11-19-1222-04.**
     1. Summary
        1. There is a conflict for the spec text in 26.5.2.3.5 (RA field for frames carried in an HE TB PPDU) and 26.7.3 (Rules for HE sounding protocol sequences).
        2. Po-Kai proposes to fix the issue.
        3. Po-Kai proposed a straw poll, however, people started discussion and could not get consensus.
        4. Time is up.

1. **Adjournment**
   1. **TGax has adjourned for the week @ 18:06.**