IEEE P802.11  
Wireless LANs

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| Minutes of TGax May 2018 ad hoc meeting (MAC-MU-SR) in Rennes, France | | | | |
| Date: 2018-05-21 | | | | |
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Abstract

This document contains minutes of TGax May 2018 ad hoc meeting (MAC-MU-SR).

Rev. 0: Initial version.

**Wednesday, May 2nd, 2018 TGax May 2018 ad hoc (MAC, MU, SR) - Day 1**

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 9:00 AM (local time).**
   1. Introduction of the chairperson Osama Aboul-Magd (Huawei Technologies) and the TGax secretary, Yasuhiko Inoue (NTT).
   2. Agenda: 11-18-0689-01 (rev. 2 is the working document)
2. **IEEE 802 and 802.11 IPR Policy and Procedure**
   1. Chair read the 5 slides of IEEE 802 Policies and Procedures.
      1. Participants have a duty to inform the IEEE
      2. Ways to inform IEEE
         1. Chair asked if there is any potentially essential patent that people are aware of.
            1. No potentially essential patent reported.
      3. Other guidelines for IEEE WG meetings
      4. Patent-related information
      5. Participation in IEEE 802 Meetings
3. **General flow of the ad hoc meeting**
   1. Proposed
      1. Wednesday (9:00 – 18:00)
         1. Comment Resolution
         2. Recess
      2. Thursday (9:00 – 18:00)
         1. Comment Resolution
         2. Recess
      3. Friday (9:00 – 16:00) 🡪 Chair needs to leave Rennes around 14:00. Need discussion.
         1. Comment Resolution
         2. Adjourn
   2. Discussion
      1. Chair asked if it is okay to finish the ad hoc meeting on Friday at 17:00 since people may leave earlier to catch the flight.
         1. An attendee mentioned that there is no reason to finish the meeting earlier since it was announced a month in advance.
   3. Approval of the agenda
      1. Chair asked if there is any comment. 🡪 No commnet.
4. **Agenda for the 1st day of the TGax ad hoc meeting**
   1. Proposed agenda
      1. Call meeting to order
      2. Patent policy, etc.
      3. Announcements
      4. Call for submissions
      5. Set agenda
      6. Presentations and Comment Resolution
      7. Recess
   2. Schedule of the day
      1. 9:00 – 9:15
         1. Call meeting to order
         2. IEEE\_SA IPR policy and procedure
         3. Host announcements
      2. 9:15 – 10:30 Comment resolution
      3. 10:30 – 10:45 Break
      4. 10:45 – 12:00 Comment Resolution
      5. 12:00 – 13:00 Lunch
      6. 13:00 – 15: 15 Comment resolution
      7. 15:15 – 15:45 Break
      8. 15:45 – 18:00 comment resolution
   3. Approval of the agenda
      1. Chair asked if there is any item to add to the agenda. 🡪 No item to add to the agenda.
      2. Chair asked if there is any objection to approve the agenda. 🡪 No objection.
   4. The agenda was approved.
5. **Call for submissions**
   1. Chair included an excel file to the agenda file.
   2. The plan is to hear presentation
6. **Comment Resolutions**
   1. **Liwen Chu (Marvell Semiconductors) presented “11ax D2.0 Comment Resolution 10.13.1 10.13.3,” based on the submission 11-18-0792-01.**
      1. Summary
         1. Resolutions for the following CIDs related to 10.13.1 (A-MPDU contents) and 10.13.3 (Minimum MPDU Start Spacing field rules) are proposed.
            1. Relevant CIDs: 12442, 12443, 12444, 12638.
      2. Discussion
         1. People discussed the bit coding of the QoS Control field.
         2. The relation between Multi-TID and single TID A-MPDU is discussed.
      3. **Straw Poll: Do you accept resolutions to CIDs; 12442, 12443, 12444, 12638 in doc 11-18/0792r1?**
         1. **Result: No objection.**
         2. **Remark: This is a new resolution.**
      4. Next Step
         1. The document 11-18-0792-01 is ready for motion..
   2. **Pascal Viger (Canon Research) presented “CIDs related to 27.5.1,” based on the submission 11-18-0390-02.**
      1. Summary
         1. Resolution and proposed changes to TGax D2.3 for following CIDs related to subclause 27.5.1 (HE DL MU operation) for unassociated STAs.
            1. Relevant CIDs: 14092, 13080, 13081, 13069
         2. .
      2. Discussion
         1. Current spec allows one Management frame to be included in a A-MPDU while the proposal allows multiple Management frames in an aggregate.
         2. A member commented that this proposal conflicts with the other part of the spec.
         3. People discussedaggregation of MSDU/A-MSDUs with different RA address.
      3. Next Step
         1. We will come back to this document for more discussion.
   3. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for 27.7 and 27.7.1,” based on the submission 11-18-0044-01.**
      1. Summary
         1. Resolutions for multiple comments related to TGax D2.0 subclauses 27.7 (TWT operation) and 27.7.1 with the following CIDs:
            1. Relevant CIDs: 11338, 11343, 11377, 11993, 12281, 12317, 13778, 13293, 13294, 13779, 12045, 11840, 11035 (13 CIDs).
      2. Discussion
         1. A member commented that the resolution for CID 12281 should be “REJECT.”
         2. People also discussed the resolution for CID 12317 regarding the definition of PS mode, Active mode, and the Awake state and the Doze state in the PS mode.
         3. People discussed the AP power saving capability in the baseline.
         4. Re: CID 13770 – Alfred modified the proposed text based on the discussion. 🡪 The document will be rev. 2.
      3. **Straw Poll: Do you accept resolutions to CIDs; 11338, 11343, 11377, 11993, 12281, 12317, 13778, 13293, 13294, 13779, 12045, 11840, 11035 (13 CIDs) in doc 11-18/0044r2?**
         1. **Result: Accepted (no objection).**
         2. **CID 12317 – check with an interested member.**
      4. Next Step
         1. Alfred to check CID 12317 with a member.
   4. **Alfred Asterjadhi (Qualcomm) presented “Comment resolution for several miscellaneous comments part 3,” based on the submission 11-18-0684-00.**
      1. Summary
         1. Resolutions for comments related to TGax D2.0 with the following CIDs are proposed:
            1. Relevant CIDs: 14239, 14240, 13670, 12939, 12837 (5 CIDs)
      2. Discussion
         1. CID 14239: A member expressed objection to the resolution for this CID.
7. **Recess for lunch @ 12:00**

**Lunch Break**

1. **Meeting reconvened @ 13:00.**
2. **Continue Comment Resolutions**
   1. **Alfred Asterjadhi (Qualcomm) continued presentation of the “Comment resolution for several miscellaneous comments part 3,” based on the submission 11-18-0684-01.**
      1. Alfred updated some text in the original document.
      2. Discussion
         1. CID 12939: A member who agrees with the comment is concerned by the resolution for this CID which is “REJECT.”
      3. **Straw Poll: Do you accept resolutions to CIDs; 14239, 14240, 13670, 12939, 12837 (5 CIDs) in doc 11-18/0684r1?**
         1. **14239 is deferred (until Wednesday AM)**
         2. **Result: Acceped.**
   2. **Alfred Asterjadhi (Qualcomm) presented “Comment resolution for several miscellaneous comments part 4,” based on the submission 11-18-0685-00.**
      1. Summary
         1. Resolutions for comments related to TGax D2.0 with the following CIDs are proposed:
            1. Relevant CIDs: 12798, 12938, 13105, 13115 (4 CIDs)
      2. Discussion
         1. No discussion.
      3. **Straw Poll: Do you accept resolutions to CIDs; 12798, 12938, 13105, 13115 (4 CIDs) in doc 11-18/0685r0?**
         1. **Result: Acceped with no objection.**
   3. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for 10.22.2.9 (revisited),” based on the submission 11-18-0665-00.**
      1. Summary
         1. Proposed to revisit resolutions for comments related to TGax D2.0 with the following CIDs related to subclause 10.22.2.9 (Truncation of TXOP) are proposed:
            1. Relevant CIDs: 12086, 12450 (2 CIDs)
      2. Discussion
         1. A member identified an issue for the case that the CF-End cannot be identified as inter-or intra-BSS frame.
         2. Some members asked more time for discussion.
      3. Next Step
         1. To be revisited later.
   4. **Julien Sevin (Canon Research) presented “Comment resolution for CID 13084,” based on the submission 11-18-0388-01.**
      1. Summary
         1. Resolutions for CID 13084 related to subclause 9.3.1.23 (Trigger frame format) is proposed:
            1. Relevant CIDs: 12086, 12450 (2 CIDs)
      2. Discussion
         1. A member mentioned that he identified a fundermental issue with this paragraph.
         2. Another member commented that a part of the text specified a behaviour that we had never discussed.
      3. Next Step
         1. Need more work to come to an agreement.
   5. **Ming Gan (Huawei Technologies) presented “LB230 CR on Fragmentation-Part 3,” based on the submission 11-18-0764-01.**
      1. Summary
         1. Resolutions for the following comments on HE Fragmentation received from WG LB230 on the IEEE 802.11ax draft 2.0 are proposed:
            1. Relevant CIDs: 13899 11677 12474 13904 13900 12476 13901 12475 13903 12477 13249 11259 11084 13902 13905 13906 12463 (17 CIDs)
      2. Discussion
         1. A member asked for consistency with his document which contains resolutions for CID on the related topic. 🡪 Ming updated the document (🡪 r1).
         2. No more discussion.
      3. **Straw Poll: Do you accept resolutions to CIDs; 13899 11677 12474 13904 13900 12476 13901 12475 13903 12477 13249 11259 11084 13902 13905 13906 12463 (17 CIDs) in doc 11-18/0764r1?**
         1. **Result: Acceped with no objection.**
   6. **Liwen Chu (Marvell Semiconductors) presented “11ax D2.0 Comment Resolution 9.7.1,” based on the submission 11-18-0425-02.**
      1. Summary
         1. Resolutions for the following comments on subclause 9.7.1 (A-MPDU format) received from WG LB230 on the IEEE 802.11ax draft 2.0 are proposed:
            1. Relevant CIDs: 11129, 11255, 11328, 11329, 11502, 12815, 12816, 13661, 14327 (9 CIDs)
      2. Discussion
         1. No discussion.
      3. **Straw Poll: Do you accept resolutions to CIDs; 11129, 11255, 11328, 11329, 11502, 12815, 12816, 13661, 14327 in doc 11-18/0425r2?**
         1. **Result: Acceped with no objection.**
   7. **Liwen Chu (Marvell Semiconductors) presented “11ax D2.0 Comment Resolution 9.4.2.237.2,” based on the submission 11-18-0793-00.**
      1. Summary
         1. Resolutions for the following comments on subclause 9.4.2.237.2 (HE MAC Capabilities Information field) received from WG LB230 on the IEEE 802.11ax draft 2.0 are proposed:
            1. Relevant CIDs: 11014, 12020, 11021, 11022, 11859, 12278, 12419, 12703, 12861, 13001 (10 CIDs)
      2. Discussion
         1. Re CID 12419: A member asked more time for discussion. 🡪 The CID 12419 was deferred. The document was updated to r1.
      3. **Straw Poll: Do you accept resolutions to CIDs; 11014, 12020, 11021, 11022, 11859, 12278, 12703, 12861, 13001 in doc 11-18/0793r1?**
         1. **Result: Acceped with no objection.**
3. **Recess @ 15:15 until 15:45.**

**Afternoon Break**

1. **Meeting reconvened @ 15:48.**
2. **Comment Resolutions**
   1. **Liwen Chu (Marvell Semiconductors) revisited the updated version of “11ax D2.0 Comment Resolution 9.7.1” based on the submission 11-18-0425-03.**
      1. Summary
         1. Clarification was made to the text in 27.10.1 (A-MPDU operation).
      2. Discussion
         1. A member suggested further modification. 🡪 Revision 4 of this document was created.
      3. Next Step
   2. **Liwen Chu (Marvell Semiconductor) presented “11ax D2.0 Comment Resolution CID 11314, 12883,” based on the submission 11-18-0794-00.**
      1. Summary
         1. Resolutions for the following comments received for TGax Draft 20 and the proposed change is for TGax Draft 2.2.
            1. CIDs: 11314 and 12883 (2 CIDs).
      2. Discussion
         1. A member suggested editorial changes to the proposed text.
         2. People discussed the TID Aggregation value that an AP can set.
      3. Next Step
         1. Liwen to revise the document.
   3. **Liwen Chu (Marvell Semiconductors) presented “11ax D2.0 BSS Operation BW,” based on the submission 11-18-0795-00.**
      1. Summary
         1. This is a bugfix, not CR.
         2. An AP announces 160/80+80 MHz BSS by using Channel Center Frequency Segment 0, Channel Center Frequency Segment 1, Channel Center Frequency Segment 2.
         3. . The Channel Center Frequency Segment 2 is invisable to a VHT STA that doesn’t support Extended NSS BW Support.
      2. Discussion
         1. People discussed the contents of Table 11-24 and 11-16.
      3. Next Step:
         1. This submission will be revisited later.
   4. **Yongho Seok (MediaTek) presented “LB230 CR HT Control,” based on the submission 11-18-0627-00.**
      1. Summary
         1. Resolutions for the following comments received from TGax LB230 are proposed.
            1. Relevant CIDs: 11162, 12340, 14143, 12206, 11969, 12356, 13534, 12857, 12644, 13137, 13138, 13872, 12437, 13185, 12439, 12440, 11148 (17 CIDs)
      2. Discussion
         1. CID 11162: Text in the resolution column was updated based on the discussion.
         2. CID 12356: People discussed details of the NAV setting rules.
         3. CID 12206: A member requested more time for review.
      3. Next Step
         1. . Yongho to update the document.
   5. **Abhishek Patil (Qualcomm) presented “Resolution for CIDs related to BSS Color,” based on the submission 11-18-0743-00.**
      1. Summary
         1. . Resolutions for the following comments related to the BSS Color received for TGax LB230 are proposed.
            1. Relevant CIDs: 11128 and 14127 (2 CIDs)
      2. Discussion
         1. . People discussed the BSS Color for the Co-Located AP cases. Some members mentioned that more changes to the existing text are needed.
         2. Some other members identified an issue with a proposed text of 27.16.2.1. 🡪 A straw poll was conducted to see the preference of the group regarding the setting of value of Color Switch Countdown field, i.e. AP “shall” or “should” select the value of Color Switch Countdown field. The result was almost 50-50.
      3. Next Step
         1. . Need more discussion.
   6. **Abhishek Patil (Qualcomm) presented “Resolution for CID 13078,” based on the submission 11-18-0744-00.**
      1. Summary
         1. .Resolutions for CID 13078 received for TGax LB230 is proposed.
         2. The comment discusses the definition of broadcast RU in 3.2.
      2. Discussion
         1. .A participant suggested further modification to the proposed text changes.
      3. Next Step
         1. .Abhi to update the document and present it later.
   7. **Abhishek Patil (Qualcomm) presented “Resolution for CID in 27.7.3.1 (TWT),” based on the submission 11-18-0739-01**
      1. Summary
         1. . Resolutions for the following CIDs in 27.7.3.1 (TWT) received for TGax LB230 are proposed.
            1. Relevant CIDs: 11347, 11037, 13781, 13782 (4 CIDs)
      2. Discussion
         1. . No discussion.
      3. **Straw Poll: Do you agree to resolutions to CIDs; 11347, 11037, 13781, 13782 in doc 11-18/0739r1?**
         1. **Result: No objection to the proposed resolution.**
      4. Next Step
         1. . The document 18/0739r1 is ready for motion.
   8. **Abhishek Patil (Qualcomm) presented “Resolution for CIDs related to Random Access,” based on the submission 11-18-0742-02.**
      1. Summary
         1. . Resolutions for the following comments on subclause 27.5.5 (UL OFDMA-based Random Access) received from TGax LB230 are proposed.
            1. Relevant CIDs: 11713 and 13925 (2 CIDs).
      2. Discussion
         1. . A participant commented that the resolution should be “Revised” and the text in the Resolution column should be updated.
      3. Next Step
         1. . Abhi to come back with revision. To be discussed tomorrow.
3. **AOB**
   1. None.
4. **Recess**
   1. TGax ad hoc meeting is in recess at 17:58 until 9:00 AM tomorrow (Local Time).
5. **List of Attendees of day 1**

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| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Alfred Asterjadhi | Qualcomm |
| 3 | Stephane Baron | Canon Research |
| 4 | Laurent Cariou | Intel |
| 5 | Liwen Chu | Marvell Semiconductors |
| 6 | Matthew Fischer | Broadcom Ltd. |
| 7 | Ming Gan | Huawei Technologies |
| 8 | Frank Hsu | MediaTek |
| 9 | Po-Kai Huang | Intel |
| 10 | Yasuhiko Inoue | NTT |
| 11 | Nick Jackson | Samsung |
| 12 | Jeongki Kim | LG Electronics |
| 13 | Jarkko Knect | Apple |
| 14 | Zhou Lan | Broadcom Ltd. |
| 15 | Guoqing Li | Apple |
| 16 | Yunbo Li | Huawei Technologies |
| 17 | Pooya Monajemi | Cisco Systems |
| 18 | Sai Shankar Nandagoparan | Cypress Semiconductor |
| 19 | Patrice Nezou | Canon |
| 20 | Abhishek Patil | Qualcomm |
| 21 | Al Petrick | InterDigital Communications |
| 22 | Yongho Seok | MediaTek |
| 23 | Julien Sevin | Canon Research |
| 24 | Pascal Viger | Canon Research |
| 25 | Huizhao Wang | Quantenna Communications |
| 26 | James Wang | MediaTek |
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# Thursday, May 3rd, 2018, 9:00 – 18:00 TGax ad hoc – Day 2

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 09:00 (Local Time).**
   1. Introduction of the chairperson Osama Aboul-Magd (Huawei Technologies) and the secretary Yasuhiko Inoue (NTT).
2. **Reminder**
   1. Chair reminded that we are still operating under IEEE 802 and IEEE 802.11 Policy and Procedure.
   2. Chair asked people to state name and affiliation when addressing for the first time in the session.
   3. Chair also asked people to signed up the attendace sheet. It is just for the minutes and is not affecting the voting right.
3. **Agenda Setting**
   1. Proposed Agenda
      1. Call meeting to order
      2. Patent policy, etc.
      3. Announcements
      4. Call for submissions
      5. Set agenda
      6. Presentations and Comment Resolution
      7. Recess
   2. Schedule for the day
      1. 9:00 – 9:05 Call the meeting to order, IPR P&P, etc.
      2. 9:05 – 10:30 Comment Resolution
      3. 10:30 – 10:45 Break
      4. 10:45 – 12:00 Comment Resolution
      5. 12:00 – 13:30 Lunch
      6. 13:30 – 15:30 Comment Resolution
      7. 15:30 – 15:45 Break
      8. 15:45 – 18:00 Comment Resolution
      9. 18:00 Recess
   3. Approval of the agenda
      1. Chair asked if there is any objection to approve the agenda. 🡪 No objection.
      2. The agenda was approved.
4. **Progress Review**
   1. 18/0792 by Liwen Chu (Marvell): Resolutions to all CIDs in this document are accepted.
   2. 18/0390 by Pascal Viger (Canon): Straw poll deferred.
   3. 18/0044 by Alfred Asterjadhi (Qualcomm): Resolutions to all CIDs in this document are basically accepted. Need double check of CID 12317 with another member.
   4. 18/0684 by Alfred Asterjadhi (Qualcomm): Resolutions to all CIDs in this document except CID 14239 are accepted. CID 14239 was deferred until Wednesday AM.
   5. 18/0685 by Alfred Asterjadhi (Qualcomm): Resolutions to all CIDs in this document are accepted.
   6. 18/0665 by Alfred Asterjadhi (Qualcomm): Straw poll was deferred. Need more discussion with other members.
   7. 18/0388 by Julien Sevin (Canon Research): Straw poll was deferred until Wednesday PM. Need more discussion.
   8. 18/0764 by Ming Gan (Huawei): Resolutions to all CIDs in this document are accepted.
   9. 18/0425 by Liwen Chu (Marvell): Resolutions to all CIDs in this document are accepted.
   10. 18/0793 by Liwen Chu (Marvell): Resolutions to all CIDs in this document are accepted.
   11. 18/0794 by Liwen Chu (Marvell): Straw poll was deferred. Need more discussion.
   12. 18/0795 by Liwen Chu (Marvell): This not a CR but bugfix. The document will be revisited later.
   13. 18/0627 by Yongho Seok (MediaTek): Resolutions to all CIDs in this document are basically accepted. Need to check the resolution to CID 12206 with the TGax technical editor.
   14. 18/0743r2 by Abhishek Patil (Qualcomm): Straw pol was deferred (until Wednesday PM).
   15. 18/0744r1 by Abhishek Patil (Qualcomm): Straw pol was deferred for more discussion.
   16. 18/0739r1 by Abhishek Patil (Qualcomm): Resolutions to all CIDs in this document are accepted.
5. **Comment Resolutions**
   1. **Alfred Asterjadhi (Qualcomm) presented “Comment resolution for several miscellaneous comments part 2,” based on the submission 11-18-0660-00.**
      1. Summary
         1. Resolutions for comments related to TGax D2.0 with the following CIDs are proposed.
            1. Relevant CIDs: 11353, 11830, 13510, 12432 11019, 12421 (6 CIDs).
      2. Discussion
         1. CID 13510: People discussed the relation between the power save mode (ACTIVE/PS) and power state (Awake/Doze). A member mentioned that the text related to this CID is not consistent with other part of the standard. 🡪 Alfred to take offline discussion.
         2. CID 11019: Deferred by request from a member.
         3. CID 12421: People discussed removal of a text related to this CID. SP result was 50/50.
      3. **Straw Poll: Do you accept resolutions to CIDs; 11353, 11830, 13510, 12432 11019, 12421 (6 CIDs) in doc 11-18/0660r1?**
         1. **Result:** 
            1. CIDs 13510 and 11019 are deferred.
            2. **Resolutions for the other CIDs are approved.**
      4. Next Step
         1. Alfred to come back with resolutions for CID 13510 and 11019.
   2. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for 27.7.2,” based on the submission 11-18-0661-00.**
      1. Summary
         1. Resolutions for comments related to TGax D2.0 subclause 27.7.2 (Individual TWT agreement) with the following CIDs are proposed.
            1. Relevant CIDs: 11167, 11340, 11341, 11342, 11344, 11345, 11346, 11838, 11925, 11994, 11995, 12029, 12030, 12090, 12091, 12307, 12308, 12315, 12517, 12518, 12519, 12520, 12521 (23 CIDs) .
      2. Discussion
         1. CID 12308: Deferred for more discussion with the commenter.
         2. A member discussed timing relation of Announced TWT service period.
      3. **Straw Poll: Do you agree to resolutions to CIDs; 11167, 11340, 11341, 11342, 11344, 11345, 11346, 11838, 11925, 11994, 11995, 12029, 12030, 12090, 12091, 12307, 12308, 12315, 12517, 12518, 12519, 12520, 12521 (23 CIDs) in doc 11-18/0661r1?**
         1. **Result:**
            1. **CID 12308 was deferred.**
            2. **Resolutions for the other CIDs are approved.**
      4. Next Step
         1. Alfred to come back with a new resolution for CID 12308.
6. **Recess @ 10:35 for 15 minutes.**

Break @ 10:35 until 10:50

1. **Meeting recovened @ 10:50**
2. **Comment Resolutions**
   1. **Yongho Seok (MediaTek) presented “LB230 CR STA\_ID\_LIST,” based on the submission 11-18-0628-00.**
      1. Summary
         1. Resolutions for comments received from TGax LB230 on STA\_ID\_LIST are proposed.
            1. Relevant CIDs: 13940, 13939, 11181, 13941 (4 CIDs).
      2. Discussion
         1. A participant discussed the use of values of 2008 and 2044.
      3. **Straw Poll: Do you accept resolutions to CIDs; CIDs: 13940, 13939, 11181, 13941 (4 CIDs) in doc 11-18/0628r1?**
         1. **Result: No objection to the proposed resolutions.**
      4. Next Step
         1. The document 11-18-0628 is ready for motion.
   2. **Yongho Seok (MediaTek) presented “LB230 CR UPLINK\_FLAG,” based on the submission 11-18-0629-00.**
      1. Summary
         1. Resolutions for comments received from TGax LB230 on UPLINK\_FLAG are proposed.
            1. Relevant CIDs: 13296, 11042, 13795, 12799, 12048 (5 CIDs).
      2. Discussion
         1. People discussed a peer-to-peer transmission between non-AP HE STAs. It is currently regarded as a downlink transmission due to a restriction of STA\_ID.
         2. CID 12048: Deferred for more discussion
      3. **Straw Poll: Do you accept resolutions to CIDs; 13296, 11042, 13795, 12799, 12048 (5 CIDs) in doc 11-18/0629r1?**
         1. **Result:** 
            1. **CID 12048 was deferred.**
            2. **No objection to resolutions of the rest of the CIDs.**
      4. Next Step
         1. CID 12048 to be revisited.
   3. **Yongho Seok (MediaTek) presented “LB230 CR HE Sounding NDP,” based on the submission 11-18-0630-00.**
      1. Summary
         1. Resolutions for the following comments received from TGax LB230 on HE Sounding NDP are proposed.
            1. Relevant CIDs: 11434, 13309, 13310, 14199, 13405, 12843, 13763, 14200 (8 CIDs).
      2. Discussion
         1. A member commented that we should follow the style of 802.11ac.
      3. **Straw Poll: Do you agree to resolutions to CIDs; 11434, 13309, 13310, 14199, 13405, 12843, 13763, 14200 (8 CIDs) in doc 11-18/0630r0?**
         1. **Result: No objection to the proposed resolutions.**
      4. Next Step
         1. Ready for motion.
   4. **Yongho Seok (MediaTek) presented “LB230 CR Preamble Punctuing,” based on the submission 11-18-0604-00.**
      1. Summary
         1. Resolutions for the following comments received from TGax LB230 on Preamble Puncturing are proposed.
            1. Relevant CIDs: 11155, 13230, 13312 (3 CIDs).
      2. Discussion
         1. People discussed the ACK procedure when preamble puncturing is used.
         2. A participant asked for deferral of this document.
      3. **Straw Poll: Do you agree to resolutions to CIDs; 11155, 13230, 13312 (3 CIDs) in doc 11-18/0604r0?**
         1. **Result: Y/N/A = 10/1/10, the resolutions are accepted.**
      4. Next Step
         1. Ready for motion.
   5. **Abhishek Patil (Qualcomm) presented “Resolution for CIDs related to Random Access,” based on the submission 11-18-0742-03.**
      1. Summary
         1. This is continuation of the last presentation of the previous day.
            1. CIDs: 11713 and 13925.
         2. Abhi has made some modifications based on the discussion yesterday.
      2. Discussion
         1. No further discussion.
      3. **Straw Poll: Do you agree to resolutions to CIDs; in doc 11-18/0742r3?**
         1. **Result: No objection.**
      4. Next Step
         1. Ready for motion.
3. **Recess for Lunch @ 12:00 until 13:30.**

**Lunch Break (12:00 – 13:30)**

1. **Meeting reconvened @ 13:30.**
2. **Comment Resolutions**
   1. **Abhishek Patil (Qualcomm) presented “Resolution for CIDs related to BSS Color,” based on the submission 11-18-0743-02.**
      1. Summary
         1. The document 18/743 was revisited after minor edits.
      2. Discussion
         1. No discussion.
      3. **Straw Poll: Do you accept resolution to CIDs; 11128, 14127 in doc 11-18/0743r2?**
         1. **Result: No objection to the resolutions.**
      4. Next Step
         1. Document 11-18-0743-02 is ready for motion.
   2. **Abhishek Patil (Qualcomm) presented “Fix inconsistencies in 11.1.3.8 (Multiple BSSID Procedure),” based on the submission 11-18-0368-02.**
      1. Summary
         1. Since support multiple BSSID is mandatory for non-AP HE STAs, it is critical that TGax fixes inconsistencies found in section 11.1.3.8.
      2. Discussion
         1. A participant mentioned that complete profile should be included for each BSSID. He prefers to limit the changes only for the HE AP, however, TGmd expects TGax to do beyond that. Another member agrees with this.
      3. Next Step
         1. Abhi to make necessary modifications. He needs sometime for it.
   3. **Abhishek Patil (Qualcomm) presented “Resolution for various CIDs in 27.5,” based on the submission 11-18-0741-02.**
      1. Summary
         1. Resolutions for the following comments on subclause 27.5 (MU operation) received from TGax LB230 (27 CIDs) are proposed.
            1. Relevant CIDs: 12742, 13080, 13070, 13069, 12103, 11097, 13081, 12642, 11493, 11505, 14333, 11309, 11310, 12503, 12500, 11711, 13746, 12055, 12056, 13008, 12057, 11101, 12790, 12058, 11103, 11157, 13145 (27 CIDs).
      2. Discussion
         1. CIDs 13080, 13081, 13070 and 13069 are transferred to Pascal Viger (Canon Research)
         2. CIDs 11493, 11505 and 14333 are deferred for more discussion.
         3. The document was updated to rev. 3.
      3. **Straw Poll: Do you accept resolutions to CIDs; 12742, 12103, 11097, 12642, 11309, 11310, 12503, 12500, 11711, 13746, 12055, 12056, 13008, 12057, 11101, 12790, 12058, 11103, 11157, 13145 (20 CIDs) in doc 11-18/0741r3?**
         1. **Result: No objection to the resolutions.**
      4. Next Step
         1. Document 11-18-0741-03 is ready for motion.
   4. **Abhishek Patil (Qualcomm) presented “CID 11001,” based on the submission 11-18-0364-04.**
      1. Summary
         1. Resolution to the CID 11001 received for TGax LB230 is proposed:
            1. CID 11001: random access for unassociated STAs.
      2. Discussion
         1. . Many members pointed out the bugs in the spec.
         2. The issue includes that an unassociated STA returns the response without knowing what the primary channel is.
      3. Next Step
         1. Need more discussion to come to an agreement.
3. **Recess @ 15:30**

**Afternoon Break (15:30 – 16:00)**

1. **Meeting reconvened @ 16:00.**
2. **Comment Resolutions**
   1. **Pascal Viger (Canon Research) presented “CIDs related to 27.5.1,” based on the submission 11-18-0390-03.**
      1. Summary
         1. Resolutions for the following CIDs on subclause 27.5.1 (DL MU procedure for unassociated STAs) are proposed.
            1. Relevant CIDs: 14092, 13080, 13081, 13069, 13070 (5 CIDs).
      2. Discussion
         1. Some participants are concerned very much with the proposed changes to the draft.
         2. People pointed out many issues such as types of the response frames.
      3. **Straw Poll: Do you agree to resolutions to CIDs** 14092, 13080, 13081, 13069, 13070 (5 CIDs) **in doc 11-18/0390r3?** 
         1. **Result: Y/N/A = 4/6/10, not carried.**
      4. Next Step
         1. The document 11-18-0390 needs further discussion to come to an agreement.
   2. **Po-Kai Huang (Intel) presented “11ax D2.3 MAC Comment Resolution for NAV Part IV,” based on the submission 11-18-0688-00.**
      1. Summary
         1. Resolutions for the following CIDs received for 802.11ax draft 2.0 on NAV operation are proposed.
            1. Relevant CIDs: 13133, 11069, 11070, 14262, 12177, 12293, 12942, 12943, 12433, 12460.
      2. Discussion
         1. .CIDs 12433 and 12460: The commenter is not happy with the proposed resolution of “REJECT”. He asked for offline discussion.
      3. **Straw Poll: Do you accept resolutions to CIDs; 13133, 11069, 11070, 14262, 12177, 12293, 12942, 12943, 12433, 12460 in doc 11-18/0688r0?** 
         1. **CIDs 12433 and 12460 are deferred for further discussion**
         2. **Result: No objection to resolutions for the rest of the CIDs.**
      4. Next Step
         1. Po-Kai to come back with new resolutions for the CID 12433 and 12460.
   3. **Ming Gan (Huawei Technologies) presented “LB230 CR on BSS Load Information in subclause 9.4.2,” based on the submission 11-18-0181-00.**
      1. Summary
         1. Resolutions for the following CIDs received for 802.11ax draft 2.0 are proposed.
            1. Relevant CIDs: 12016, 13045 (2 CIDs).
      2. Discussion
         1. Some people object to the proposed resolution and changes to the draft..
      3. Next Step
         1. .This document needs more time for discussion.
   4. **Laurent Cariou (Intel) presented “CIDs related to 27.5.6 – Misc,” based on the submission 11-18-0767-00.**
      1. Summary
         1. Resolutions to the CID 12994 received for 802.11ax draft 2.0 are proposed.
      2. Discussion
         1. Some people are concerned by the proposed resolution and the changes to the draft. 🡪 Laurent to work with those people..
      3. Next Step
         1. . Laurent to come back with a new resolution.
   5. **Frank Hsu (MediaTek) presented “11ax D2.0 MAC Comment Resolution for Dynamic Fragmentation Coexistence,” based on the submission 11-18-0811-01.**
      1. Summary
         1. Resolution to the CID 12010 on HE Fragmentation received for 802.11ax draft 2.0 is proposed.
      2. Discussion
         1. Some people identified the action item related to this..
      3. **Straw Poll: Do you accept resolution to CID 12010 in doc 11-18/0811r0?** 
         1. **Result: Y/N/A = 2/5/10, SP does not carry.**
      4. Next Step
         1. Frank to come back with a new resolution..
   6. **Yongho Seok (MediaTek) presented “LB230 CR UPLINK\_FLAG,” based on the submission 11-18-0629-01.**
      1. Summary
         1. Yongho came back with new resolutions..
            1. Relevant CIDs: 13296, 11042, 13795, 12799, 12048 (5 CIDs).
      2. Discussion
         1. CID 12048: A member mentioned that no change is needed since it was reflected in D2.2..
      3. Next Step
         1. Yongho to remove the related text from this document. 🡪 updated to rev.2..
   7. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for 27.7.3.1,” based on the submission 11-18-0662-00.**
      1. Summary
         1. Resolutions for the following CIDs on subclause 27.7.3.1 (General description of received for 802.11ax draft 2.0 are proposed.
            1. Relevant CIDs: 11038, 11040, 11347, 11872, 13783, 13784, 13789, 11848 (8 CIDs).
      2. Discussion
         1. CID 11347 has already been covered by another document and was removed.
         2. Resolutions for CIDs 11040 and 1378.
      3. **Straw Poll: Do you accept resolutions to CIDs; Do you accept resolutions to CIDs; 11038, 11040, 11347, 11872, 13783, 13784, 13789, 11848 (8 CIDs) in doc 11-18/0622r1?**
         1. **Result: No objection to the resolutions.**
      4. Next Step
         1. . Ready for motion.
3. **AOB**
   1. None.
4. **Recess**
   1. Meeting is in recess @ 17:57 until 9:00 AM tomorrow morning.
5. **List of Attendees – attendees list of TGax May 2018 ad hoc Day 2.**

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Alfred Asterjadhi | Qualcomm |
| 3 | Stephane Baron | Canon Research |
| 4 | Laurent Cariou | Intel |
| 5 | Liwen Chu | Marvell Semiconductors |
| 6 | Matthew Fischer | Broadcom Ltd. |
| 7 | Ming Gan | Huawei Technologies |
| 8 | Frank Hsu | MediaTek |
| 9 | Po-Kai Huang | Intel |
| 10 | Yasuhiko Inoue | NTT |
| 11 | Nick Jackson | Samsung |
| 12 | Jeongki Kim | LG Electronics |
| 13 | Jarkko Knect | Apple |
| 14 | Zhou Lan | Broadcom Ltd. |
| 15 | Guoqing Li | Apple |
| 16 | Yunbo Li | Huawei Technologies |
| 17 | Pooya Monajemi | Cisco Systems |
| 18 | Sai Shankar Nandagoparan | Cypress Semiconductor |
| 19 | Patrice Nezou | Canon |
| 20 | Abhishek Patil | Qualcomm |
| 21 | Al Petrick | InterDigital Communications |
| 22 | Yongho Seok | MediaTek |
| 23 | Julien Sevin | Canon Research |
| 24 | Pascal Viger | Canon Research |
| 25 | Huizhao Wang | Quantenna Communications |
| 26 | James Wang | MediaTek |
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# Friday, May 4th, 2018, 9:00 – 16:00, TGax ad hoc – Day 3

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 09:00 (Local Time).**
2. **Reminder**
   1. Chair reminded that we are still operating under IEEE 802 and IEEE 802.11 Policy and Procedure.
3. **Agenda Setting**
   1. Proposed Agenda
      1. Call meeting to order
      2. Patent policy, etc.
      3. Announcements
      4. Call for submissions
      5. Set agenda
      6. Presentations and Comment Resolution
      7. Adjourn
   2. Meeting schedule
      1. 09:00 – 09:05 Call meeting to order and IPR reminder
      2. 09:05 – 10:30 Comment resolution
      3. 10-30 – 10:45 Break
      4. 10:45 – 12:00 Comment Resolution
      5. 12:00 – 13:30 Lunch
      6. 13:30 – 16:00 Comment resolution
      7. 16:00 Adjourn
   3. Approval of the agenda
      1. Chair asked if there is any objection to approve the agenda. 🡪 No objection.
      2. The agenda was approved.
4. **Progress Review**
   1. 18/660 by Alfred Asterjadhi (Qualcomm): CID 13510 needs more discussion. CID 11019 is deferred. No objection to the rest of the proposed resolutions.
   2. 18/661 by Alfred Asterjadhi (Qualcomm): CID 12308 was deferred. No objection to the rest of the proposed resolutions.
   3. 18/628 by Yongho Seok (MediaTek): No objection to the proposed resolutions.
   4. 18/629 by Yongho Seok (MediaTek): CID 12048 was deferred. No objection to the proposed resolutions for the rest of the CIDs.
   5. 18/630 by Yongho Seok (MediaTek): No objection to the proposed resolutions.
   6. 18/604 by Yongho Seok (MediaTek): SP approved by 10/1/0.
   7. 18/368 by Abhishek Patil (Qualcomm): Deferred for more discussion.
   8. 18/741 by Abhishek Patil (Qualcomm): 7 CIDs (13080, 13070, 13069, 13081, 11493, 11505 and 14333) are deferred. No objection to proposed resolutions for rest of the CIDs.
   9. 18/364 by Abhishek Patil (Qualcomm): Need further discussion.
   10. 18/688 by Po-Kai Huang (Intel): CIDs 12433 and 12460 are deferred until Thursday PM. No objection to the proposed resolutions for the rest of the CIDs
   11. 18/181 by Ming Gan (Huawei): Need more discussion.
   12. 18/767 by Laurent Cariou (Intel): Deferred for further discussion.
   13. 18/811 by Frank Hsu (MediaTek): SP didn’t achieve the required 75%.
   14. 18/662 by Alfred Asterjadhi (Qualcomm): No objection to proposed resolutions.
5. **Comment Resolutions**
   1. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for 27.7.3.2,” based on the submission 11-18-0663-00.**
      1. Summary
         1. Resolutions for the following comments related to TGax D2.0 subclause 27.7.3.2 (Rules for TWT scheduling AP) are proposed.
            1. Relevant CIDs: 11038, 11039, 11348, 11349, 11354, 11839, 11841, 11843, 11873, 11874, 11875, 12031, 12522, 13785, 13786, 13787, 13788 (17 CIDs).
      2. Discussion
         1. A member discussed the relationship between the trigger-enabled TWT setting and the TWT scheduling.
         2. Another member asked for clarification on the proposed text.
         3. CID 12031 was deferred by request from a participant.
      3. Next Step
         1. To be revisited later.
6. **Break @ 10:30 until 10:45.**

<<Break>>

1. **Meeting reconvened 10:45.**
2. **Comment Resolutions**
   1. **Abhishek Patil (Qualcomm) presented “Resolution for CID 13078,” based on the submission 11-18-0744-01.**
      1. Summary
         1. The document 11-18-0744 was revisited after modification based on the discussion.
      2. Discussion
         1. No further discussion.
      3. **Straw Poll: Do you accept resolution to CID 13078 in doc 11-18/0744r1?**
         1. **Result: No objection to the resolutions.**
      4. Next Step
         1. CID 13079 is ready for motion.
   2. **Frank Hsu (MediaTek) presented “HE BSS Load Information Element,” based on the submission 11-18-0083-01.**
      1. Summary
         1. The document 18/0083 was revisited. Resolutions for the comments on HE BSS Load Information Element are updated.
      2. Discussion
         1. A member asked what are the difference between this one and the one presented yesterday? 🡪The answer was that the BSS Load of DL and UL are separated.
         2. Another member mentioned that it is necessary to include busy medium time percentage 🡪 It is covered by the legacy mechanism. The previous proposal included the Legacy BSS Load, but it is simplified in this version.
      3. **Straw Poll: Do you accept resolutions to CIDs; 12016, 13045 in doc 11-18/0083r1?**
         1. **Result: Y/N/A = 3/4/11, the SP did not achieve 75%.**
      4. Next Step
         1. Need more discussion for CIDs 12016 and 13045.
   3. **Yongho Seok (MediaTek) presented “LB230 CR CID 13530 and 14183,” based on the submission 11-18-0603-00.**
      1. Summary
         1. Resolutions for the two comments (CID 13530 and 14183) are proposed.
      2. Discussion
         1. A member suggested discussion with PHY experts. 🡪 Yongho agreed.
      3. **Straw Poll: Do you accept resolutions to CIDs 13530 and 14183 in doc 11-18/0603r0?**
         1. **Result: Resolutions are accepted with no objection.**
      4. Next Step
         1. The document 11-18-0603-01 is ready for motion.
   4. **Yongho Seok (MediaTek) presented “LB230 CR CID 13870,” based on the submission 11-18-0602-00.**
      1. Summary
         1. Resolution for CID 13870 on subclause 9.4.2.1 (General description of Elements).
      2. Discussion
         1. A member asked for deferral of this CID due to the request from TGaz chair for review. 🡪 Deferred for discussion with TGaz experts.
         2. There was a comment that subclause 11.22.6.4 needs to be changed if this PPDU selection rule is adopted.
      3. Next Step
         1. The document 11-18-0602 to be reviewed with TGaz experts.
   5. **Liwen Chu (Marvell Semiconductor) presented “11ax D2.0 Comment Resolution CID 11314, 12883,” based on the submission 11-18-0794-01.**
      1. Summary
         1. The document 11-18-0794 was revisited after update considering the discussion of the previous day..
      2. Discussion
         1. No further discussion.
      3. **Straw Poll: Do you accept resolutions to CID; 11314, 12883 in doc 11-18/0794r1?**
         1. **Result: No objection.**
      4. Next Step
         1. The document 11-18-0794-01 is ready for motion.
   6. **Liwen Chu (Marvell Semiconductor) presented “11ax D2.0 Comment Resolution 27.10.4.1,” based on the submission 11-18-0797-01.**
      1. Summary
         1. Resolutions for the following comments related to TGax D2.0 on subclause 27.10.4.1 (Multi-TID A-MPDU and Ack-enabled A-MPDU) are proposed.
            1. Relevant CIDs: 11279, 12926, 12932, 11280, 11281, 13728, 12927, 12928, 13295, 13729, 11284, 11285, 13727, 11287, 11288, 11289, 13680, 11290, 11291, 11292, 11294
      2. Discussion
         1. CIDs 11231 and 11290 are deferred for more discussion.
      3. **Straw Poll: Do you accept resolutions to CIDs; 11279, 12926, 12932, 11280, 11281, 13728, 12927, 12928, 13295, 13729, 11284, 11285, 13727, 11287, 11288, 11289, 13680, 11290, 11291, 11292, 11294 in doc 11-18/0797r0?**
         1. **Result:** 
            1. **CIDs 11231 and 11290 are deferred.**
            2. **Resolutions for the rest of CIDs are accepted.**
      4. Next Step
         1. CIDs 11231 and 11290 will be revisited.
3. **Recess for Lunch @ 12:00 until 13:30.**

Lunch Break

1. **Meeting reconvened @ 13:30.**
   1. Alfred runs the meeting on behalf of Osama.
2. **Comment Resolutions**
   1. **Julien Sevin (Canon Research) presented “Comment resolution for CID 13084,” based on the submission 11-18-0388-03.**
      1. Summary
         1. Resolution for CID 13084 is proposed.
            1. CID 13084: OFDMA Random Access and TWT SP.
      2. Discussion
         1. A member asked a question: Why text not related to CID has been updated? Another member mentioned that he would like to remove a part of proposed text in 27.7.5 while keeping the NOTE.
         2. A participant pointed out there will be better signalling scheme.
         3. Discussion continued...
      3. Next Step
         1. Deferred for more dicussion.
   2. **Huizhao Wang (Qantenna) presented “Allows Different Channel Width Capabilities Advertised in VHT and HE PHY Modes,” based on the submission 11-18-0200-05.**
      1. Summary
         1. This is revisit of a document which contains a proposal not related to any CID.
         2. This submission recommends to TGax group to allow different channel width capabilities advertised in VHT and HE Capabilities elements in 11ax Draft 2.0
      2. Discussion
         1. Some members are still concerned by the proposal to allow different channel width to be advertised in VHT and HE.
      3. **Straw Poll:** **Do you agree to allow different channel width capabilities advertisements in VHT and HE Capabilities elements, and the resultion text presented in this contribution?** 
         1. **Result: Y/N/A = 2/4/5, Straw Poll did not achieve 75% approval.**
      4. Next Step
         1. Need more discussion.
   3. **Laurent Cariou (Intel) presented “CIDs related to 27.5.6 – Misc,” based on the submission 11-18-0767-01.**
      1. Summary
         1. A resolution for CID 12994 regarding NDP Feedback Report Poll is proposed.
         2. The CID is partly resolved by the submission 18/149r0. This is further update on the proposed text changes.
      2. Discussion
         1. A member suggested further update since the reference in the resolution column is not correct.
         2. People discussed the correct expression related to the multiple BSSID - “transmitted BSSID” or “transmitting BSSID.”
      3. **Straw Poll: Do you accept resolutions to CID; 12994 in doc 11-18/0767r1?** 
         1. **Result: Accepted with no objection.**
      4. Next Step
         1. Document 11-18-0767-01 is ready for motion.
   4. **Pascal Viger (Canon Research) presented “CIDs related to UORA procedure – Part 1 (Initialization),” based on the submission 11-18-0695-01.**
      1. Summary
         1. Resolution with proposed changes to TGax D2.3 for CIDs from the WG LB for TGax related to UORA initialization.
            1. Relevant CIDs: 13400, 13653, 13761, and 13095.
      2. Discussion
         1. A member mentioned the proposal is covered by other part of the draft. Another member showed the related text in 27.5.5.6.
         2. Another member mentioned that the rule has to be aligned with other rules such as MU EDCA.
      3. Next Step
         1. Pascal to update the document.
   5. **Liwen Chu (Marvell Semiconductors) presented “11ax D2.0 Comment Resolution 27.10.4.2, 27.10.4.3,” based on the submission 11-18-0796-01.**
      1. Summary
         1. Resolutions for multiple comments related to TGax D2.0 with the following CIDs:
            1. 11297, 12930. 11299, 11300, 12933, 12934, 12935, 12936, 13732, 13745, and 13938.
      2. Discussion
         1. There are some editorial modifications. 🡪 updated to r2.
      3. **Straw Poll: Do you accept resolutions to CID; 11297, 12930. 11299, 11300, 12933, 12934, 12935, 12936, 13732, 13745, 13938, in doc 11-18/0796r2?**
         1. **Result: Accepted with no objection.**
      4. Next Step
         1. The document 11-18-0796-02 is ready for motion.
   6. **Partice Nezou (Qualcomm) presented “CIDs related to UORA procedure – part 2,” based on the submission 11-18-0694-02.**
      1. Summary
         1. Resolutions with proposed changes to TGax D2.3 for CIDs from the WG LB for TGax related to UORA procedure (subclause 27.5.5) are proposed.
            1. Relevant CIDs: 13096, 13098, 13652, 13762, 14138, 14139, 14140, 14142, 14209, and 14211.
      2. Discussion
         1. A member would like to confirm whether the resolution for CID 13762 is acceptable with his colleague.
      3. **Straw Poll: Do you accept resolutions to CID; 13096, 13098, 13652, 13762, 14138, 14139, 14140, 14142, 14209, 14211 in doc 11-18/0694r2?** 
         1. **Result: No objection.**
      4. Next Step
         1. The document 11-18-0694-02 is ready for motion.
   7. **Abhishek Patil (Qualcomm) presented “Resolution for CID 11002,” based on the submission 11-17-1860-09.**
      1. Summary
         1. Resolution for CID 11002 received for TGax LB230 regarding OFDMA Random Access procedure is proposed.
      2. Discussion
         1. A member mentioned that this is a controvertial point and asked for deferral. Some other members also asked for deferral.
      3. Next Step
         1. The CID 11002 is deferred for more discussion.
3. **AoB**
   1. No business to conduct.
4. **Adjourn**
   1. **TGax ad hoc March 2018 adjourned @ 15:44 (Local Time)**
5. **List of attendees**

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Alfred Asterjadhi | Qualcomm |
| 3 | Stephane Baron | Canon Research |
| 4 | Laurent Cariou | Intel |
| 5 | Liwen Chu | Marvell Semiconductors |
| 6 | Matthew Fischer | Broadcom Ltd. |
| 7 | Ming Gan | Huawei Technologies |
| 8 | Frank Hsu | MediaTek |
| 9 | Po-Kai Huang | Intel |
| 10 | Yasuhiko Inoue | NTT |
| 11 | Nick Jackson | Samsung |
| 12 | Jeongki Kim | LG Electronics |
| 13 | Jarkko Knect | Apple |
| 14 | Zhou Lan | Broadcom Ltd. |
| 15 | Guoqing Li | Apple |
| 16 | Yunbo Li | Huawei Technologies |
| 17 | Pooya Monajemi | Cisco Systems |
| 18 | Sai Shankar Nandagoparan | Cypress Semiconductor |
| 19 | Patrice Nezou | Canon |
| 20 | Abhishek Patil | Qualcomm |
| 21 | Al Petrick | InterDigital Communications |
| 22 | Yongho Seok | MediaTek |
| 23 | Julien Sevin | Canon Research |
| 24 | Pascal Viger | Canon Research |
| 25 | Huizhao Wang | Quantenna Communications |
| 26 | James Wang | MediaTek |
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