IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax  November 2017 Orlando Meeting Minutes | | | | |
| Date: 2017-11-20 | | | | |
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Abstract

TGax meeting minutes from the IEEE 802.11 Orlando session, November 6th – 10th, 2017.

**IEEE 802.11 Task Group ax**

**November 2017 Orlando Meeting**

**Caribe Royale, Orlando, FL**

**November 6th – 10th, 2017**

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

**Vice Chair Simone Merlin (Qualcomm)**

**Vice Chair Ron Porat (Broadcom)**

**TGax Secretary Yasuhiko Inoue (NTT)**

**TGax Technical Editor Robert Stacy (Intel)**

**Monday, November 6th, 2017, PM1 TGax full Session (13:30-15:30)**

1. **The meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chair of the TGax,** **@13:30.**
   1. Introduction of front table.
2. **Announcement**
   1. Agenda Doc.11-17/1546r0 on the server. Rev. 1 is the working document.
   2. Meeting Protocol: Chair asked to state name and affiliation when speaking for the first time.
   3. Attendance reminder.
      1. The attendance server: https://imat.ieee.org/
3. **Agenda for Monday, November 6th, PM1 (13:30 – 15:30).**
   1. Proposed Agenda for Monday PM1:
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Call for submissions
      4. Summary from September 2017 meeting
      5. TG motions
         1. Approve TG meeting and Teleconferences minutes since September meeting.
      6. Timeline
      7. Editor Report and Comment Assignment – Robert Stacey
      8. Presentations
      9. Recess
   2. Chair asked if there are any other items – No items proposed.
   3. Meeting will be conducted based on this order.
4. **The chair reviewed the mandatory 6 slides of P&P.**
   1. Instructions for the WG Chair.
   2. Participants, Patents, and Duty to Inform.
   3. Patent Related Links.
   4. Call for potentially essential patents.
      1. Chair asked if anyone is aware of potentially essential patents.
      2. **No potentially essential patents reported.**
   5. Other Guidelines for IEEE WG Meetings.
   6. Participation in IEEE 802 Meetings
5. **Agenda items for the week**
   1. Approve meeting and teleconference minutes since September 2017.
   2. Comment assignment and resolution
   3. Schedule TG ad hoc meeting.
   4. Schedule TG telecons.
6. **General Flow of the meeting**
   1. Slides 14 and 15 of the 17/1546r0 contain general flow of the meeting.
   2. There are ten meeting slots planed for TGax.

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| --- | --- | --- | --- | --- |
|  | Monday | Tuesday | Wednesday | Thursday |
| AM1 |  |  | TGax  (full session) |  |
| AM2 |  | TGax  (full TG session) |  | TGax  (full session) |
| PM1 | TGax  (full TG session) |  |  |  |
| PM2 |  | TGax  (full TG session) | TGax  (full TG session) | TGax  (full session) |
| PM3 |  |  |  |  |

1. **Agenda for Monday, November 6th, PM1 (13:30 – 15:30).**
   1. Proposed Agenda for Monday PM1:
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Call for submissions
      4. Summary from September 2017 meeting
      5. TG motions
         1. Approve TG meeting and Telecon minutes since November meeting.
      6. Timeline
      7. Editor Report and Comment Assignment – Robert Stacey
      8. Presentations and Comment Resolution
      9. Recess
   2. Chair asked if there are any other items – No items proposed.
   3. Meeting will be conducted based on this order.
2. **Call for submissions**
   1. Seven submissions are on the server.
      1. 11-17-1682, “Comments on TGax D2.0,” Robert Stacy (Intel)
      2. 11-17-1687, “TGax Editor’s Report,” Robert Stacy (Intel)
      3. 11-17-1717, “Associated Congestion Avoidance Method Based on Dynamic Adjustment of Beacon Interval,” Hongyan Li (Xidian Univ.)
      4. 11-17-1719, “Contention Based UL-OFDMA Random Access without back-off,” Hongyan Li (Xidian Univ.)
      5. 11-17-1723, “TPC combined with channel allocation method for OBSS environment,” Hongyan Li (Xidian Univ.)
      6. 11-17-1730, “PHY CID 17890 Resolution,” Sungeun Lee (Cypress)
      7. 11-17-1731, “PHY CID 17895 Resolution,” Sungeun Lee (Cypress)
3. **Summary from September 2017 Meeting**
   1. Completed resolution of comments received on draft D1.0.
   2. Passed a motion to prepare draft D2.0 and start WG letter ballot
4. **TG Motions – Approval of TG Minutes (September 2017 Meeting and Teleconference Minutes)**
   1. **Motion: Approve TGax minutes of meetings and teleconferences from September 2017 meeting to today:** 
      * <https://mentor.ieee.org/802.11/dcn/17/11-17-1465-00-00ax-tgax-september-2017-waikoloa-meeting-minutes.docx>
      * <https://mentor.ieee.org/802.11/dcn/17/11-17-1367-01-00ax-minutes-from-tgax-non-phy-ad-hoc-meeting-sep-2017.docx>
      * <https://mentor.ieee.org/802.11/dcn/17/11-17-1531-00-00ax-september-2017-hawaii-phy-ad-hoc-meeting-minutes.docx>
      * <https://mentor.ieee.org/802.11/dcn/17/11-17-1491-02-00ax-mu-ad-hoc-meeting-minutes-september-2017.docx>
      * <https://mentor.ieee.org/802.11/dcn/17/11-17-1543-00-00ax-minutes-of-the-802-11-tgax-mac-ad-hoc-group-september-meetings.docx>
      1. **Moved by Guido R. Hiertz, Seconded by Abhishek Patil.**
      2. **Discussion – No discussion.**
      3. **Result: Motion accepted with no objection.**
5. **WG LB #230 Result**

|  |  |
| --- | --- |
| **Ballot Number** | **230** |
| Ballot Group | TGax |
| Opened | 2017-10-05 |
| Closed | 2017-11-04 |
| Duration of ballot (days) | 30 |
| Pool (eligible voters) | 329 |
|  |  |
| Vote Received |  |
| Approve | 137 |
| Disapprove | 81 |
| Disapprove without comment (invalid) | 0 |
| Abstain | 8 |
|  |  |
| Total returns | 226 |
| Return as % of pool | 68.69 |
| Return requirement | The > 50% return requirement has been met. |
| Abstain as % of returns | 2.43 |
| Abstain requirements | The < 30% abstain requirement has been met |
|  |  |
| Approval rate as % of valid returns | 62.84 |
| Approval requirement | The >= 75% approval requirement has not been met |
| Result | Motion fails |
| Number of comments received | 3374 |

1. **Comment Assignment**
   1. Robert Stacy (Intel), the TGax technical editor, presented “TGax Editor’s Report,” based on the submission 11-17-1687-00.
      1. LB #230 comments: 3350 comments are collected.
      2. Comments are categorized into a number of comment groups. Each comment group is assigned to a lead individual and may be further divided into subgroups and assigned to a volunteer.
      3. A comment group lead is responsible for coordinating the activity.
      4. Each comment group is assigned to an ad hoc.
   2. Comment groups and assignees are contained in 11-17-1687-01 (in slides 10 to 14).
      1. There will be further assignments later this week.
2. **Agenda for the rest of the week**
   1. **Tuesday**
      1. Two CR submissions from Hongyuan Zhang (Marvell).
      2. Three submissions from Xidian university.
      3. Timeline discussion
   2. **Wednesday**
      1. CR presentations, if any.
      2. Additional comment assignment
3. **Timeline discussion**
   1. Slide 23 of the agenda document (17/1546) contains current timeline which needs to be updated.
   2. Current Timeline
      1. **May 2014: start of the TG**
      2. **Nov. 2014: First draft of the TG SFD was approved**
      3. **Jan. 2016: proposed TG draft**
      4. **March 2016: Draft D0.1 was approved and CC started**
      5. **November 2016: Draft 1.0 and WG letter ballot**
         1. **LB-225: opened Dec. 1st 2016 and closed January 8th 2017**
      6. **September 2017: Draft 2.0 and WG letter ballot**
         1. **LB-225: opened Oct. 5th 2017 and closed Nov. 4th 2017**
      7. **May 2018: MDR (Mandatory Document Review)**
      8. **May 2018: Formation of SB pool**
      9. **November 2018: Sponsor Ballot**
      10. **July 2019: RevCom**
   3. Proposed Changes to current timeline
      1. **May 2014: start of the TG**
      2. **Nov. 2014: First draft of the TG SFD was approved**
      3. **Jan. 2016: proposed TG draft**
      4. **March 2016: Draft D0.1 was approved and CC started**
      5. **November 2016: Draft 1.0 and WG letter ballot – Failed (57.77%)**
         1. **LB-225: opened Dec. 1st 2016 and closed Jan. 8th 2017**
      6. **September 2017: Draft 2.0 and WG letter ballot – Failed (62.84%)**
         1. **LB-225: opened Oct. 5th 2017 and closed Nov. 4th 2017**
      7. **May 2018: Draft 3.0 and WG Letter Ballot**
      8. **July 2018: MDR (Mandatory Document Review)**
      9. **February 2019: Formation of SB pool**
      10. **May 2019: Sponsor Ballot**
      11. **December 2019: RevCom**
   4. New timeline to be discussed later this week.
4. **AoB**
   1. No new business.
5. **TGax meeting recessed @ 15:22 until Tuesday AM2.**

**Tuesday, November 7th, 2017, AM2 TGax full Sessions (10:30-12:30)**

1. **The meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chair of the TGax,** **@10:30.**
   1. Introduction of front table.
2. **Announcement**
   1. Agenda Doc.11-17/1546r1 on the server. Rev. 2 is the working document.
   2. Meeting Protocol: Chair asked to state name and affiliation when speaking for the first time.
   3. Attendance reminder.
      1. The attendance server: https://imat.ieee.org/
3. **Agenda for Tuesday, November 7th, AM2 (10:30 – 12:30).**
   1. Proposed Agenda for Tuesday AM2:
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      3. Call for submissions
      4. Presentations and Comment Resolution
         1. <https://mentor.ieee.org/802.11/dcn/17/11-17-1730-00-00ax-phy-cid-11890-resolution.docx>, Hongyuan Zhang (Marvell)
         2. <https://mentor.ieee.org/802.11/dcn/17/11-17-1731-00-00ax-phy-cid-11895-resolution.docx>, Hongyuan Zhang (Marvell)
         3. <https://mentor.ieee.org/802.11/dcn/17/11-17-1717-00-00ax-associated-congestion-avoidance-method-based-on-dynamic-adjustment-of-beacon-interval.pptx>
         4. <https://mentor.ieee.org/802.11/dcn/17/11-17-1719-00-00ax-contention-based-ul-ofdma-random-access-without-back-off.pptx>
         5. <https://mentor.ieee.org/802.11/dcn/17/11-17-1723-00-00ax-tpc-combined-with-channel-allocation-method-for-obss-environment.pptx>
      5. Timeline discussion
      6. Ad Hoc Meeting in San Diego, January 10-12, 2018
      7. Agenda for Tuesday PM2
      8. Recess
   2. Chair asked if there is any objection to proceed with this agenda. No objection heard.
   3. The agenda for Tuesday AM2 was approved.
4. **Presentations**
   1. **Hongyuan Zhang (Marvell Semiconductors) presented “PHY CID 11890,” based on the submission 11-17-1730-00.**
      1. **Summary**
         1. A text was added to allow the use of two separate LOs for each 80 MHz portion of CBW160 and CBW80+80 transmissions just like 802.11ac.
      2. **Discussion**
         1. The CID in 17/1730r0 is not correct. 🡪 corrected in r1**.**
      3. **CR Motion #441: Move to accept resolution to CID 11890 in doc 11-17/1730r1.**
         1. **Moved by: Hongyuan Zhang, Seconded by: Youhan Kim.**
         2. **Result: The motion was accepted with no objection.**
   2. **Hongyuan Zhang (Marvell Semiconductors) presented “PHY CID 11895,” based on the submission 11-17-1731-00.**
      1. **Summary**
         1. Comment says that legacy part of the PPDU should not be beamformed.
         2. The author proposes to add text to disallow the use of beamforming for non-HT PPDUs, non-HT portion of HT-mixed format PPDU and non-VHT portion of the VHT PPDUs carrying a Trigger frame.
      2. **Discussion**
         1. Some members expressed concerns on the proposed text and requested clarification by adding some more text.
         2. The author needs additional time to update the document.
   3. **Mao Yang (Northwestern University) presented “Associated Congestion Avoidance Method Based on Dynamic Adjustment of Beacon Interval,” based on the submission 11-17-1717-00 on behalf of Hongyan Li (Xidian University).**
      1. **Summary**
         1. The authors propose an adjustment scheme of Beacon Interval in order for congestion control.
      2. **Discussion: No discussion.**
   4. **Mao Yang (Northwestern University) presented “Contention Based UL-OFDMA Random Access without back-off,” based on the submission 11-17-1719-00 on behalf of Hongyan Li (Xidian University).**
      1. **Summary**
         1. The authors introduce a method called Contention Based UL-OFDMA Random Access without back-off to improve the network’s performance in dense scenario.
      2. **Discussion: No discussion.**
   5. **Mao Yang (Northwestern University) presented “TPC combined with channel allocation method for OBSS environment,” based on the submission 11-17-1723-00 on behalf of Hongyan Li (Xidian University).**
      1. **Summary**
         1. Transmit power control combined with channel allocation method is proposed.
      2. **Discussion: No discussion.**
5. **Timeline discussion**
   1. Slide 23 of the agenda document (17/1546) contains current timeline which needs to be updated.
   2. Current Timeline
      1. **May 2014: start of the TG**
      2. **Nov. 2014: First draft of the TG SFD was approved**
      3. **Jan. 2016: proposed TG draft**
      4. **March 2016: Draft D0.1 was approved and CC started**
      5. **November 2016: Draft 1.0 and WG letter ballot**
         1. **LB-225: opened Dec. 1st 2016 and closed January 8th 2017**
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   3. Proposed Changes to current timeline
      1. **May 2014: start of the TG**
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      8. **July 2018: MDR (Mandatory Document Review)**
      9. **February 2019: Formation of SB pool**
      10. **May 2019: Sponsor Ballot**
      11. **December 2019: RevCom**
   4. Chair explained the changes to the current timeline. The proposed new timeline was accepted.
6. **TGax Ad Hoc meeting**
   1. January 10th – 12th, 2018, in San Diego.
      1. Non-PHY: 3 days (January 10, 11 and 12)
      2. PHY: One day (January 12)
   2. **Motion for TGax ad hoc meeting:**
   * **Authorize TGax to hold an ad-hoc meeting on January 10-12, 2018 in San Diego, for the purpose of comment resolution.**
   * **PHY Ad Hoc is meeting for one day, January 12, 2018**
     1. **Moved by: Youhan Kim, Seconded by Yasuhiko Inoue**
     2. **Result: Y/N/A = 40/0/1, motion passes.**
7. **Agenda for Tuesday PM2 session**
   1. **No presentations are available for PM2 today.**
   2. **Chair asked if there is any objection to cancel PM2 session. 🡪 No objection.**
   3. **Tuesday PM2 session is cancelled.**
8. **AoB**
   1. **No other business for this session.**
9. **Recess**
   1. **TGax is in recess @ 11:30 AM until Wednesday AM1.**

**Tuesday, November 7th, 2017, PM2 TGax full Sessions (16:00-18:00)**

Tuesday PM2 session was cancelled.

**Wednesday, November 8th 2017, AM1 TGax full Session (8:00-10:00)**

1. **The meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of the TGax, @8:00 AM**
   1. Introduction of the chair and secretary.
   2. Agenda 17/1546r2 is on the server.
2. **Agenda Setting**
   1. Proposed agenda for this session
      1. Call Meeting to order
      2. Reminder
         1. IEEE-SA IPR Policy and procedure.
         2. Attendance, Meeting etiquette, etc.
      3. Progress review
      4. PAR Modification Motion
      5. Presentations
      6. Recess
   2. Chair asked if there any comments or suggestions on the proposed agenda. No response.
      1. The agenda for Wednesday AM1 is approved.
3. **Reminder/Announcement**
   1. Chair reminded that we are still operating under IEEE 802 and 802.11 Policies and Procedures.
   2. Chair asked to state name and affiliation when addressing for the first time in the session.
   3. Chair asked to put cellphone mute.
4. **Presentations**
   1. **Sungeun Lee (Cypress Semiconductors) presented “CRs for 20 MHz-only STA – RU Restriction” based on the submission 11-17-1763-00.**
      1. Summary
         1. Resolutions to comments related to a 20 MHz-only non-AP HE STA RU restriction clarification and changes to the text are proposed.
         2. Relevant CIDs: 13398, 13431, 13576, 13577, 13578, 13579, 13580, 13581, 13303, 12557, 13582, 13583, 13584, 13585, 13586, 13587, 13588, 13589, and 14058.
      2. Discussion
         1. There was a comment that 160 MHz and 80+80 MHz channel RU restriction could be interpreted that they can be applicable to the lower 80 MHz.
         2. A member suggested more clarification.
         3. Another member suggested some changes in RU index.
      3. Next Step
         1. Sungeun to update the document.
   2. **Sungeun Lee (Cypress Semiconductors) presented “**CRs for 28.4.2 and 28.4.4**” based on the submission 11-17-1764-00.**
      1. Summary
         1. Resolutions to comments related to a Table naming and reference in Clause 28.4.2 and 28.4.4 and changes to the text are proposed.
         2. Relevant CIDs: 13607, 13608, 13609, 13610, 13611, and 13615.
      2. Discussion
         1. Some resolutions are changed based on the comment from members.
      3. **CR Motion #442: Move to accept resolutions to CIDs 13607, 13608, 13609, 13610, 13611, 13615 in doc 11-17/1764r0.**
         1. **Moved by Sungeun Lee, Seconded by Bin Tian.**
         2. **Result: Y/N/A = 34/0/5, motion passes.**
   3. **Previous presentation by Sungeun Lee (Cypress Semiconductors) entitled “CRs for 20 MHz-only STA – RU Restriction” was revisited based on the submission 11-17-1763-01.**
      1. Summary
         1. Sungeun goes through the changes.
      2. Discussion
         1. No discussion.
      3. **CR Motion #443: Move to accept resolutions to CIDs 13398, 13431, 13576, 13577, 13578, 13579, 13580, 13581, 13303, 12557, 13582, 13583, 13584, 13585, 13586, 13587, 13588, 13589, 14058 in doc 11-17/1763r1**
         1. **Moved by Sugeun Lee, Seconded by Bin Tian.**
         2. **Result: The motion was accepted with no objection.**
   4. **Edward Au (Huawei Technologies) presented “Resolution for the TBD in Annex C.3” based on the submission 11-17-1774-00.**
      1. Summary
         1. Resolutions for CID**s 12107, 12118, 13021, and 13054** are proposed.
         2. These comments are related to TBDs in Annex C.3.
      2. Discussion
         1. A member suggested more precise description.
         2. Another member mentioned that the comment can be rejected, however the TBD has to be resolved. In that case, “REVISED” will be more appropriate for the resolution.
         3. Edward updated the document.
      3. **CR Motion #444: Move to accept resolutions to CIDs 12107, 12118, 13021, 13054 in doc 11-17/1774r1**
         1. **Moved by Edward Au, Seconded by Bin Tian.**
         2. **Result: The motion was accepted with no objection.**
5. **Editor’s Report/Comment Assignment**
   1. Additional comment assignment was discussed.
6. **Presentations**
   1. **Edward Au (Huawei Technologies) presented “CR for PICS comments on D2.0 – Part 1” based on the submission 11-17-1775-00.**
      1. Summary
         1. Resolutions for CIDs 11400, 13327, 13328, 13502, 13503, and 12706 are proposed.
         2. These comments are related to the Annex B (PICS).
      2. Discussion
         1. Re. HEP10.3: A member commented that some feature might be optional depending on the supported RU size.
         2. Edward to come back with separate submission.
      3. **CR Motion #445: Move to accept resolutions to CIDs 1140, 13327, 13328, 13502, 13503, and 12706 in doc 11-17/1775r0.**

* + - 1. **Moved by Edward Au, Seconded by Bin Tian.**
      2. **Result: The motion was accepted with no objection.**
  1. Hongyuan Zhang (Marvell Semiconductors) revisited doc.11-17-1731r2 entitled “PHY CID 11895 Resolution.”
     1. Summary
        1. This a beamforming related CID.
        2. Honguan goes through the update.
     2. Discussion
        1. A member commented that the change might affect other part of the draft specifying the normative behavior.
        2. Another member suggested to go with the original document and add some text later.
        3. Hongyuan made further modification to the document.
     3. **CR Motion #446: Move to accept resolutions to CID 11895 in doc 11-17/1731r3.**

* + - 1. **Moved by Edward Au, Seconded by Bin Tian.**
      2. **Result: The motion was accepted with no objection.**

1. **Plans for tomorrow**
   1. Chair showed the proposed agenda for Thursday AM2 (in slide 36 of the agenda file).
   2. There is no objection for it.
2. **Recess@9:44 AM until start of AM2 session tomorrow.**

**Wednesday, November 8th 2017, PM2 TGax Ad Hoc Sessions (16:00-18:00)**

Wednesday PM2 session was cancelled.

**Thursday, November 9th, 2017, AM2 TGax full Session (10:30-12:30)**

1. **The meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of the TGax, @10:30.**
   1. Agenda 17/1546r3 is on the server. Rev. 4 is the working document.
   2. Introduction of front table.
2. **Agenda for this session**
   1. Thursday AM2.
      1. Call Meeting to order
      2. Agenda Setting
      3. Announcement/Reminder
         1. IEEE-SA IPR Policy and procedure.
         2. Attendance
      4. Comment Assignment – Robert Stacy
      5. Teleconferences schedule
      6. Presentations
         1. 11-17-1769-00, “Discussion on Dynamic Fragmentation Level 3,” Huizhao Wang (Quantenna)
         2. 11-17-1766-00, “D2.0 Comment Resolution for CIDs on MLME SAP (Clause 6)” – Jae Seung Lee (ETRI)
      7. Adjourn
   2. Chair asked if there are any modifications to the agenda.
      1. Agenda approved without objections.
3. **Announcement/Reminder**
   1. Chair reminded IEEE 802 and 802.11 IPR P&P.
   2. Chair asked people to state name and affiliation when addressing for the first time in the session.
   3. Chair reminded people to do attendance.
4. **Presentations**
   1. **Huizhao Wang (Quantenna Communications) presented “Discussion on Level 3 Fragmentation,” based the submission 11-17-1769-00.**
      1. Summary
         1. Level 3 Fragmentation is not efficient enough. Could reduce efficiency of A-MPDU.
      2. Discussion
         1. A member commented that the proposal has issue that it cannot handle acknowledgment for A-MSDU consisting of multiple fragments. Need more offline discussions.
         2. A member asked what is suggested. 🡪 The intention is to make it efficient. Do not intend to remove the level 3 fragmentation feature from the draft.
         3. Another member agreed that level 3 fragmentation is not efficient enough. Suggested straw polls.
      3. **Straw Poll #1: Do you agree to remove level 3 fragmentation?**
         1. **Discussion – no discussion**
         2. **Result: Y/N/A = 22/17/14**
      4. **Straw Poll #2: Do you agree to remove level 3 fragmentation?**
         1. **Discussion**
            1. **Q: What do you mean by inefficient? 🡪 A: Capacity point of view.**
            2. **Result: Y/N/A = 5/10/many**
5. **Editor’s Report/Comment Asignment**
   1. Robert Stacy (Intel)
      1. More assignments such as clause 9.4.2.2 related comments and HE Capabilities MAC related comments.
6. **CR Presentations**
   1. **Jae Seung Lee (ETRI) presented “D2.0 Comment Resolution for CIDs on MLME SAP (Clause 6),” based on the submission 11-17-1766-00.**
      1. Summary
         1. Proposed resolutions for clause 6 related comments are proposed together with the modification to the text.
      2. Discussion
         1. A member commented the proposed modification the the MLME primitive contains many unnecessary parameters. Need more time to review.
7. **Teleconference schedule**
   1. Slide 37 of the agenda file contains the teleconference
      1. Nov. 30, Dec. 14, Jan. 4: 10:00 – 12:00 ET
      2. Dec. 7, 21, Jan. 25: 20:00 – 22:00 ET
   2. To be approved during the WG closing plenary.
8. **AoB**
   1. No other business to conduct.
   2. Chair asked if there is any objection to adjourn. 🡪 No objection.
9. **Adjournment**
   1. TGax adjourned for the week @ 12:12 PM.

**Thursday, November 9th, 2017, PM2 TGax full Session (16:00-18:00)**

Thursday PM2 session was cancelled as agreed on Tuesday.