IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax  September 2017 Waikoloa Meeting Minutes | | | | |
| Date: 2017-09-29 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yasuhiko Inoue | NTT | 1-1 Hikari-no-oka, Yokosuka, Kanagawa 239-0847 Japan | +81 46 859 5097 | inoue.yasuhiko@lab.ntt.co.jp |
|  |  |  |  |  |

Abstract

This document contains the minutes from the IEEE 802.11 TGax meeting from September 11th – 15th, 2017 in Waikoloa, HI.

Minutes/Straw Polls from the ad hoc groups are contained in the following documents:

* PHY Ad Hoc
  + [11-17-1531-00](https://mentor.ieee.org/802.11/dcn/17/11-17-1531-00-00ax-september-2017-hawaii-phy-ad-hoc-meeting-minutes.docx), September 2017 Waikoloa PHY Ad Hoc Meeting Minutes.
* MAC Ad Hoc
  + [11-17-1543-00](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), MAC Ad hoc September 2017 Meeting Minutes.
* MU Ad Hoc
  + [11-17-1491-02](https://mentor.ieee.org/802.11/dcn/17/11-17-1491-02-00ax-mu-ad-hoc-meeting-minutes-september-2017.docx), MU ad hoc group meeting minutes September 2017.

**IEEE 802.11 Task Group ax**

**September 2017 Meeting in Waikoloa, HI**

**Hilton Waikoloa Village, Big Island, HI**

**September 11th – 15th, 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, September 11th, 2017, AM2 TGax full Session (10:30-12:30)**

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.11-17/0887r0 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. **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
4. **Agenda items for the week**
   1. Approve meeting and teleconference minutes since July 2017.
   2. Continue with comment resolution on draft D1.0. The goal is to complete comment resolution
   3. Pass a motion for to prepare draft D2.0 and start a WG LB.
   4. Schedule TG ad hoc meeting, if needed.
   5. Schedule TG telecons.
5. **General Flow of the meeting**
   1. Slides 14 and 15 of the 17/1219r1 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  (Ad Hoc) | TGax  (Ad Hoc) |  | |  |
| PM1 | TGax  (full session) | |  |  | TGax  (Ad Hoc) | TGax  (Ad Hoc) | TGax  (full session) |
| PM2 | TGax  (Ad Hoc) | TGax  (Ad Hoc) | TGax  (Ad Hoc) | TGax  (Ad Hoc) | TGax  (Ad Hoc) | TGax  (Ad Hoc) | TGax  (full session) |
| PM3 |  | | TGax  (ad Hoc) | TGax  (ad Hoc) |  | |  |

1. **Agenda for Monday, September 11th, AM2 (10:30 – 12:30).**
   1. Proposed Agenda for Monday AM2:
      1. Call meeting to order
      2. IEEE-SA, 802 and 802.11 Policy and Procedure..
      3. Call for submissions
      4. Set Ad Hoc Groups schedule and approve agenda
      5. Summary from July 2017 meeting
      6. TG motions
         1. Approve TG meeting and Telecon minutes since July 2017 meeting.
         2. Motion to affirm no changes to CSD as a result of the PAR modification.
      7. Editor Report – Robert Stacey
      8. Timeline
      9. Options for the next TGax ad hoc meeting
      10. Reference 802.11ax Waveform Generator
      11. Presentations and Comment Resolution
          1. 11-17/01403, “HE-SIGB coding examples for HE-MU PPDU,” Fei Tong (Samsung)
          2. 11-17/1360, “Multiple BSS Simulation for PAR Verification Follow-up” Frank Hsu (MediaTek)
          3. 11-17/1377, “LB225 CR 27.13 Link Adaptation using the HLA Control field text,” Frank Hsu (MediaTek)
      12. Recess
   2. Chair asked if there are any other items – No items proposed.
   3. Meeting will be conducted based on this order.
2. **Submissions presented during teleconference or ad hoc and ready for motion**
   1. 11-17-0389, “CIDs-for-27-2-1-part1,” Kaiying Lv (ZTE)
   2. 11-17-0553, “LB225 11ax D1.0 Comment Resolution 27.10.4 Part 1,” Liwen Chu (Marvell)
   3. 11-17-0777, “CR TWT IE,” Matthew Fischer (Broadcom)
   4. 11-17-0811, “Comment Resolution on TIM Broadcast,” Jarkko Kneckt (Apple)
   5. 11-17-0925, “CR on HE Duration-based RTS,” Huizhao Wang (Quantenna)
   6. 11-17-1009, “Quiet time period – part 3 (27.26.3.x),” Chao-Chun Wang (MediaTek)
   7. 11-17-1010, “Quiet time period – part 4 (9.4.2.223-225),” Chao-Chun Wang (MediaTek)
   8. 11-17-1011, “Quiet time period – part 5 (9.6.29.x),” Chao-Chun Wang (MediaTek)
   9. 11-17-1034, “Quiet time period – part 6,” Chao-Chun Wang (MediaTek)
   10. 11-17-1067, “LB225 11ax D1.0 Comment Resolution OMI and Operation Mode,” Liwen Chu (Marvell)
   11. 11-17-1068, “LB225 11ax D1.0 Comment Resolution 10.7,” Liwen Chu (Marvell)
   12. 11-17-1072, “Remaining OMI comment resolutions,” Jarkko Kneckt (Apple)
   13. 11-17-1082, “Comment resolutions for BRP and BSRP trigger frames,” Menzo Wentink (Qualcomm)
   14. 11-17-1135, “CR QOS SF,” Matthew Fischer (Broadcom)
   15. 11-17-1173, “Proposed Resolutions to CID 5011, 6900, 6998, and 9056,” Osama Aboul-Magd (Huawei Technologies)
   16. 11-17-1174, “Clauses 3.2, 3.3, and 3.4 Comment Resolutions,” Osama Aboul-Magd (Huawei Technologies)
   17. 11-17-1183, “CR for CID 5772, 9476, 9480,” Po-Kai Huang (Intel)
   18. 11-17-1220, “Clause 10.2 Comment Resolution,” Osama Aboul-Magd (Huawei Technologies)
   19. 11-17-1248, “Clause 27.1 Comment Resolution,” Osama Aboul-Magd (Huawei Technologies)
   20. 11-17-1263, “Misc for HE Ops IE,” Alfred Asterjadhi (Qualcomm)
   21. 11-17-1267, “LB225 11ax D1.0 Comment Resolution 27.10.2, 27.10.3,” Liwen Chu (Marvell)
   22. 11-17-1268, “Clause 4.3.14a Comment Resolution,” Osama Aboul-Magd (Huawei Technologies)
   23. 11-17-1270, “LB225 CR 10.22.2.11 CID 5374,” Yongho Seok (MediaTek) 🡪 Need more discussion
   24. 11-17-1271, “LB225 CR 9.7.3 CID 9389,” Yongho Seok (MediaTek)
   25. 11-17-1272, “LB225 CR 10.3.2.10.3 CID 9429,” Yongho Seok (MediaTek)
   26. 11-17-1275, “CIDs related to TF,” Abhishek Patil (Qualcomm)
   27. 11-17-1276, “CIDs related to Random Access,” Abhishek Patil (Qualcomm)
   28. 11-17-1277, “Pending CIDs in 27.16,” Abhishek Patil (Qualcomm)
   29. 11-17-1278, “Proposed Resolution for CID 9846,” Abhishek Patil (Qualcomm)
   30. 11-17-1279, “Various CIDs in Clause 9,” Abhishek Patil (Qualcomm)
   31. 11-17-1283, “CR for 10.5 MPDU Fragmentation,” Woojin Ahn (WILUS)
   32. 11-17-1313, “LB225 CR CID 8538 9377,” Yongho Seok (MediaTek)
   33. 11-17-1317, “CR for 10.3.2.10,” Kiseon Ryu (LG Electronics)
   34. 11-17-1335, “CR for 27.3.1,” Laurent Cariou (Intel)
   35. 11-17-1336, “CR for 9.4.2.240,” Laurent Cariou (Intel)
   36. 11-17-1342, “PHY CR 8348 6433,” Alfred Asterjadhi (Qualcomm)
   37. 11-17-1351, “CR on 27.14.2,” Jeongki Kim (LG Electronics)
   38. 11-17-1362, “CIDs on Subclause 27.3.3 Part 2,” Ming Gan (Huawei Technologies)
   39. 11-17-1363, “CIDs on Subclause 27.3.3 Part 3,” Ming Gan (Huawei Technologies)
3. **Call for submissions – 63 submissions**
   1. PHY – 21 submissions
      1. 11-17-0995, “Doppler Comment Resolution,” Hongyuan Zhang (Marvell)
      2. 11-17-1001, “Comment Resolutions on Clause 28.2.2 (TXVECTOR and RXVECTOR parameters) Part 1,” Bo Sun (ZTE)
      3. 11-17-1296, “Comment Resolutions on Miscellaneous Comments,” Lochan Verma (Qualcomm)
      4. 11-17-1306, “CRs on Clause 28.3.3.2,” Xiaogang Chen (Intel)
      5. 11-17-1307, “Changes for the Tx/Rx Vectors related to HE TB NDP feedback,” Xiaogang Chen (Intel)
      6. 11-17-1315, “Comment Resolution to CID8576,” Yujin Noh (Newracom)
      7. 11-17-1320, “*NSYM* and *TPE* at RX side for Midamble design – Follow up,” Yujin Noh (Newracom)
      8. 11-17-1324, “Usage of Doppler bit in A-Control subfield,” Yujin Noh (Newracom)
      9. 11-17-1325, “Text Proposal on Usage of Doppler bit in A-Control subfield,” Yujin Noh (Newracom)
      10. 11-17-1327, “Interleaver for HE-SIGA and HE-SIGB,” Dongguk Lim (LG Electronics)
      11. 11-17-1332, “Comment Resolutions on Clause 28.3.3.4 (Pilot subcarriers),” Junghoon Suh (Huawei Technologies)
      12. 11-17-1350, “On TX EVM,” Ron Porat (Broadcom)
      13. 11-17-1357, “Capability on Doppler Mode,” Ross jian Yu (Huawei Technologies)
      14. 11-17-1361, “CRs for 20 MHz-only STA – Part 4,” Sungeun Lee (Cypress)
      15. 11-17-1366, “Midamble Design Continued,” Yang Zhang (Marvell)
      16. 11-17-1374, “On Amplitude Drift Compensation,” Jianhan Liu (MediaTek)
      17. 11-17-1375, “Text Changes on Transmitter modulation accuracy (EVM) test,” Jianhan Liu (MediaTek)
      18. 11-17-1376, “Usage of Doppler Bit in 11ax,” Jianhan Liu (MediaTek)
      19. 11-17-1380, “HE SIG-B Spatial Configuration Field Fixing,” Hongyuan Zhang (Marvell)
      20. 11-17-1381, “DCM in HE TB PPDU,” Yan Zhang (Marvell)
      21. 11-17-1383, “Proposed Change to the Resolution to CID 9551,” Yasuhiko Inoue (NTT)
   2. MAC – 37 submissions
      1. 11-17-0307, “HE BSS Load Information Element,” Frank Hsu (MediaTek)
      2. 11-17-0308, “HE BSS Load Information Element for 11ax,” Frank Hsu (MediaTek)
      3. 11-17-0619, “Proposed Text Changes for Client Management,” Eldad Perahia (HPE-Aruba)
      4. 11-17-0719, “Unifying QoS Control and BSR A-Control for Buffer Status Report,” Zhou Lan (Broadcom)
      5. 11-17-0765, “Follow UP of Unifying Queue Size Report,” Zhou Lan (Broadcom)
      6. 11-17-1054, “LB225 CR 27.13 (Link Adaptation,” Frank Hsu (MediaTek)
      7. 11-17-1069, “LB225 11ax D1.0 Comment Resolution 9.7.3,” Liwen Chu (Marvell)
      8. 11-17-1081, “Comment Resolutions for HE NDP Announcement frame,” Menzo Wentink (Qualcomm)
      9. 11-17-1087, “MAC CR CIDs 4813-4814,” Alfred Asterjadhi (Qualcomm)
      10. 11-17-1138, “CR TWT Operation,” Matthew Fischer (Broadcom)
      11. 11-17-1244, “BSS Basic HE-MCS per Bandwidth,” Matthew Fischer (Broadcom)
      12. 11-17-1258, “Resolution to CID9863,” Yujin Noh (Newracom)
      13. 11-17-1262, “Miscellaneous for HE sounding,” Alfred Asterjadhi (Qualcomm)
      14. 11-17-1264, “Misc for Trigger frame format,” Alfred Asterjadhi (Qualcomm)
      15. 11-17-1280, “visio file for figure 27.12,” Abhishek Patil (Qualcomm)
      16. 11-17-1282, “LB225 11ax D1.0 Comment Resolution 27.11.1, 27.11.2,” Liwen Chu (Marvell)
      17. 11-17-1285, “LB225 11ax D1.0 Comment Resolution HE MAC Capabilities,” Liwen Chu (Marvell)
      18. 11-17-1290, “LB225 11ax D1.0 Comment Resolution HE PHY Capabilities, PPE,” Liwen Chu (Marvell)
      19. 11-17-1294, “LB225 11ax D1.0 Comment Resolution 10.7 Remaining CIDs,” Liwen Chu (Marvell)
      20. 11-17-1295, “Proposed Resolution for CID 9501,” Guoqing Li (Apple)
      21. 11-17-1299, “CID 10276 related to 27.5.5,” Laurent Cariou (Intel)
      22. 11-17-1301, “11ax D1.4 MAC Comment Resolution for CID 9636, 9699,” Po-Kai Huang (Intel)
      23. 11-17-1304, “LB225 11ax D1.0 Comment Resolution on Clause 10.9 HT Control Field,” James Yee (MesiaTek)
      24. 11-17-1330, “CIDs: Acknowledgment related comments,” George Cherian (Qualcomm)
      25. 11-17-1337, “CR for CID5859 and CID 5971,” Jarkko Kneckt (Apple)
      26. 11-17-1338, “TWT SP initiation and termination and legacy PS,” Jarkko Kneckt (Apple)
      27. 11-17-1339, “Improvement to TWT Parameter set,” Jarkko Kneckt (Apple)
      28. 11-17-1341, “PHY CR 8348 6433,” Alfred Asterjadhi (Qualcomm) – not available
      29. 11-17-1346, “Individual constrained TWT agreements,” jarkkoKneckt (Apple)
      30. 11-17-1364, “CIDs on Subclause 27.3.3 Part 3,” Ming Gan (Huawei Technologies) – not available
      31. 11-17-1365, “CIDs on Subclause 27.3.3 Part 3,” Ming Gan (Huawei Technologies) – not available
      32. 11-17-1377, “11ax D1.0 MAC Comment Resolution for 27.13 and 9.4.2.218.2,” Frank Hsu (MediaTek)
      33. 11-17-1399, “Resolution for CID 3099,” Edward Au (Huawei Technologies)
      34. 11-17-1401, “Resolution for CIDs 5285, 6198, 7603,” Edward Au (Huawei Technologies)
      35. 11-17-1402, “Resolution for PICS,” Edward Au (Huawei Technologies)
      36. 11-17-1429, “Annex G Comment Resolution,” Osama Aboul-Magd (Huawei Technologies)
      37. 11-17-1456, “Resolution for CID 8555,” Abhishek Patil (Qualcomm)
   3. MU – 3 submissions
      1. 11-17-1060, “CR on CID 6053,” Jeongki Kim (LG Electronics)
      2. 11-17-1091, “Proposed resolution for comments related to CIDs in 27.5.2,” Jing Ma
      3. 11-17-1139, Comment Resolution on retransmission of OFDMA random access,” Jing Ma (NICT)
      4. 11-17-1286, “CR DL MU procedure,” Zhou Lan (Broadcom)
   4. **Ad Hoc meeting scheduling**
      1. Ad Hoc slot assignment
         1. MAC … 6, PHY … 5, Joint MU & SR … 1.
      2. Chair asked if there are any objections to approve the TGax schedule as follow.
         1. There are no objections. The TGax schedule is approved.

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|  | Monday | | Tuesday | | Wednesday | | Thursday |
| AM1 |  | |  | | TGax  (full session) | |  |
| AM2 | TGax  (full session) | | TGax  (PHY) | TGax  (MAC) |  | |  |
| PM1 |  | |  |  | TGax  (PHY) | TGax  (MAC) | TGax  (full session) |
| PM2 | TGax  (PHY) | TGax  (MAC) | TGax  (PHY) | TGax  (MAC) | TGax  (PHY) | TGax  (MAC) | TGax  (full session) |
| PM3 | TGax  (PHY) | TGax  (MAC) | TGax  (MU) | TGax  (MAC) |  | |  |

1. **Summary from July 2017 Meeting**
   1. Discussed options and need for volunteers for the Waveform generation activity.
   2. Motion passed to extend 802.11ax scope to include bands up to 7.125 GHz
   3. The TG held a 3-day ad hoc meeting in Santa Clara to work on the MAC and MU remaining comments
      1. 35 Submissions were discussed covering over 650 CID. Most of the CIDs are now ready for motion.
      2. Agenda for the ad hoc meeting is available at 11-17/1251r4.
   4. Additionally about 60 CIDs are resolved during the telecons.
2. **TG Motions**
   1. **Motion: Approve TGax minutes of meetings and teleconferences from July 2017 meeting to today:** 
      * [**https://mentor.ieee.org/802.11/dcn/17/11-17-1105-00-00ax-tgax-july-2017-berlin-meeting-minutes.docx**](https://mentor.ieee.org/802.11/dcn/17/11-17-1105-00-00ax-tgax-july-2017-berlin-meeting-minutes.docx)
      * [**https://mentor.ieee.org/802.11/dcn/17/11-17-1177-03-00ax-tgax-teleconference-minutes-from-july-to-august-2017.docx**](https://mentor.ieee.org/802.11/dcn/17/11-17-1177-03-00ax-tgax-teleconference-minutes-from-july-to-august-2017.docx)
      * [**https://mentor.ieee.org/802.11/dcn/17/11-17-1367-00-00ax-minutes-from-tgax-non-phy-ad-hoc-meeting-sep-2017.docx**](https://mentor.ieee.org/802.11/dcn/17/11-17-1367-00-00ax-minutes-from-tgax-non-phy-ad-hoc-meeting-sep-2017.docx)
      * [**https://mentor.ieee.org/802.11/dcn/17/11-17-1154-00-00ax-11ax-mac-ad-hoc-meeting-minutes.docx**](https://mentor.ieee.org/802.11/dcn/17/11-17-1154-00-00ax-11ax-mac-ad-hoc-meeting-minutes.docx)
      * [**https://mentor.ieee.org/802.11/dcn/17/11-17-1148-00-00ax-tgax-mu-and-sr-ad-hoc-group-meeting-minutes-july-2017.docx**](https://mentor.ieee.org/802.11/dcn/17/11-17-1148-00-00ax-tgax-mu-and-sr-ad-hoc-group-meeting-minutes-july-2017.docx)
      * [**https://mentor.ieee.org/802.11/dcn/17/11-17-1094-00-00ax-tgax-july-2017-berlin-phy-ad-hoc-meeting-minutes.docx**](https://mentor.ieee.org/802.11/dcn/17/11-17-1094-00-00ax-tgax-july-2017-berlin-phy-ad-hoc-meeting-minutes.docx)
      1. **Moved by Suhwook Kim, Seconded by Abhishek Patil.**
      2. **Discussion – No discussion.**
      3. **Result: Motion accepted with no objection.**
   2. **Motion to affirm that the IEEE P802.11ax CSD in document 11-14/0169r1 still applies to the modified PAR in document 11-17/0913r2.**
      1. **Moved by Yasuhiko Inoue, Seconded by Rich Kennedy.**
      2. **Result: Y/N/A = 95/0/0, motion passes.**
3. **Editor’s Report**
   1. Robert Stacy (Intel) gave a brief update on the TGax draft 1.0 comment resolution status.
   2. Email from Robert Stacy, the TGax editor, contains current status of the comment resolution for 802.11ax draft 1.0 (WG LB 225) as of August 21st, 2017.

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| **Count of CID** | **Column Labels** |  |  |  |  |  |
| **Owning Ad-hoc** | **Unassigned** | **Assigned** | **Resolution Drafted** | **Approved** | **Duplicate** | **Grand Total** |
| **EDITOR** | **168** | **27** | **1927** | **2912** | **1115** | **6149** |
| Approved Edits in D1.1 |  |  |  | 249 | 11 | 260 |
| Approved Edits in D1.2 |  |  | 6 | 989 | 1 | 996 |
| Approved Edits in D1.3 |  |  |  | 581 | 3 | 584 |
| Approved Edits in D1.4 |  |  |  | 333 | 1 | 334 |
| Approved No Change |  |  |  | 760 | 9 | 769 |
| CA Doc |  |  | 10 |  |  | 10 |
| Duplicates |  |  |  |  | 1090 | 1090 |
| Editorials | 161 |  |  |  |  | 161 |
| Editorials in D1.1 |  |  | 88 |  |  | 88 |
| Editorials in D1.2 |  |  | 333 |  |  | 333 |
| Editorials in D1.3 |  |  | 132 |  |  | 132 |
| Editorials in D1.4 |  |  | 694 |  |  | 694 |
| Editorials No Change |  |  | 634 |  |  | 634 |
| PICS | 1 | 11 |  |  |  | 12 |
| Task Group Discussion | 1 |  |  |  |  | 1 |
| (blank) | 5 | 16 | 30 |  |  | 51 |
| **MAC** | **33** | **809** | **2** | **6** | **1** | **851** |
| Editorials | 33 | 1 |  |  |  | 34 |
| (blank) |  | 808 | 2 | 6 | 1 | 817 |
| **MU** | **11** | **215** |  |  |  | **226** |
| Editorials | 11 |  |  |  |  | 11 |
| (blank) |  | 215 |  |  |  | 215 |
| **SR** | **9** | **2** |  |  |  | **11** |
| Editorials | 9 |  |  |  |  | 9 |
| (blank) |  | 2 |  |  |  | 2 |
| **PHY** | **12** | **163** | **3** | **3** |  | **181** |
| Editorials | 12 | 5 |  |  |  | 17 |
| (blank) |  | 158 | 3 | 3 |  | 164 |
| **Grand Total** | **233** | **1216** | **1932** | **2921** | **1116** | **7418** |

1. **Timeline**
   1. There is no change on the TGax timeline.
   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**
      6. **September 2017: Draft 2.0 and WG letter ballot**
      7. **May 2018: MDR (Mandatory Document Review)**
      8. **May 2018: Formation of SB pool**
      9. **November 2018: Sponsor Ballot**
      10. **July 2019: RevCom**
2. **Presentations**
   1. **Frank Hsu (MediaTek) presented “Multiple BSS Simulation for PAR Verification Follow-up,” based on the submission 11-17-1360-00.**
      1. Summary
         1. Throughputs of 11ac and 11ax in mixed UL/DL multiple BSS scenarios (3 BSSs) are presented.
         2. Resolution to CID 5011.
      2. Discussion
         1. A member asked details of the simulation conditions such as OFDMA tone, channel model and packet size.
         2. Another member asked if the presenter plans more simulations. 🡪 Not sure since ax can achieve x4 throughput gain.
   2. **Frank Hsu (MediaTek) presented “Comment Resolution for 27.13 and 9.4.2.218.2,” based on the submission 11-17-1377-02.**
      1. Summary
         1. Resolutions to the comments on HE Link Adaptation (HLA) were revisited to collect comments from PHY experts.
      2. Discussion
         1. A member asked what exactly were proposed in the submission. 🡪 HE-MCS and Nss, clarification to the 27.13.1 Link Adaptation.
         2. The member commented he prefers to limit the scenario. RU indication is not adequate for 160 MHz and 80+80 MHz channels. He also asked to have more time to review the document since this is the first time for him to see the document.
         3. Another member pointed out that the text in the submission is not consistent with other part of the draft.
3. **AoB**
   1. No other business that can be done in 5 minutes.
   2. PM2 and PM3 sessions on Monday September 11th are ad hoc sessions
      1. Meeting rooms:
         1. PHY Ad Hoc – Kona 4/5.
         2. MAC Ad Hoc – Kohala 3.
4. **TGax meeting recessed @ 12:25.**

The next TGax full session is Wednesday AM1 (September 13th, 8:00 AM).

**Monday, September 11th, 2017, PM2 TGax Ad Hoc Sessions (16:00-18:00)**

* Ad Hoc #1: PHY @ Kona 4 & 5.
  + Agenda: 11-17-1434
* Ad hoc #2: MAC @ Kohala 3.
  + Agenda: 11-17-1453

**Monday, September 11th, 2017, PM3 TGax Ad Hoc Sessions (19:30-21:30)**

* Ad Hoc #1: PHY @ Kona 4 & 5.
  + Agenda: 11-17-1434
* Ad hoc #2: MAC @ Kohala 3.
  + Agenda: 11-17-1453

**Tuesday, September 12th, 2017, AM2 TGax ad hoc Sessions (10:30-12:30)**

* Ad hoc #1: PHY @ Kona 4 & 5.
  + Agenda: 11-17-1434
* Ad hoc #2: MAC @ Kohala 3
  + Agenda: 11-17-1453

**Tuesday, September 12th, 2017, PM2 TGax Ad Hoc Sessions (16:00-18:00)**

* Ad hoc #1: PHY @ Kona 4 &5.
  + Agenda: 11-17-1434
* Ad hoc #2: MAC @ Kohala 3.
  + Agenda: 11-17-1453

**Tuesday, September 12th 2017, PM3 TGax ad hoc Session (19:30-21:30)**

* Ad hoc #1: MU @ Kona 4 & 5.
  + Agenda: 11-17-1487
* Ad hoc #2: MAC @ Kohala 3.
  + Agenda: 11-17-1453

**Wednesday, September 13th 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 17/1219r3 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. Update on the discussion with ARC
      5. Presentations
         1. 11-17/1403, “HE-SIGB coding examples for HE-MU PPDU,” Fei Tong (Samsung)
         2. Action on link adaptation and BSS Load element CIDs
            1. 11-17/1377, 11-17/0308, 11-17/1397
         3. Comment resolution submissions
      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. **Progress Review**
   1. PHY: Good progress. Will finish in two slots.
   2. MAC: 6 submissions are remained. Will finish in two slots.
   3. MU: Heard all presentations.
5. **Discussion with ARC SC**
   1. The submission 11-17-1396r1 contains the proposed modifications to the MAC architecture.
      1. UL MU TB Access (UMTA) and UL OFDMA-Based Random Access (UORA) are added on the top of DCF.
      2. Osama plans to use the submission 11-17-1396r1 as the resolutions for 3 CIDs in doc. 11-17-1220.
   2. Discussion - No discussion.
   3. **Straw Poll: Do you agree to resolution to CIDs 4746, 5373, and 8207 in doc 11-17/1396r1?**
      1. **Discussion – No discussion.**
      2. **Result: No objection.**
6. **Presentations**
   1. **Paul Fletcher (Samsung) presented “HE-SIGB coding examples for HU MU PPDU” based on the submission 11-17-1403-00.**
      1. Summary
         1. This is basically a call for volunteers to collaborate.
         2. The document on the server is encrypted and cannot be opened.
      2. Discussion – No discussion.
         1. Chair asked the presenter to upload a non-encrypted version of the document as a revision.
   2. **Frank Hsu (MediaTek) presented “Proposed resolution for comments related to Section 4.3.14a,” based on the submission 11-17-1733-03.**
      1. Summary
         1. Frank gave an update from the presentation yesterday.
      2. Discussion
         1. A member commented that the feedback is based on the OFDMA and the rationale for the proposal is not clear enough. More comfortable to stick to SU. 🡪 OFDMA should be one of the feedback method.
         2. Resolution for each CID was reviewed. Basically resolutions are all “REVISED”.
      3. **Straw Poll: Do you agree to resolutions to CIDs**

**4786, 5916, 6032, 6107, 7891, 8529, 9738, 9955, 10145 (27.13)**

**4598, 6090, 7366, 7882, 10074 (9.4.2.218.2)**

**in doc 11-17/1377r4?**

* + - 1. **Result: Y/N/A = 9/2/25. 🡪 Will be converted to a motion.**
  1. **Guido R. Hiertz (Ericsson) presented “Resolution to CID 5597,” based on the submission 11-17-1443-00.**
     1. Summary
        1. Proposed resolution for CID 5597.
        2. The point is HE STA to optionally implement QMF feature.
        3. Related text contained in this document.
     2. Discussion
        1. No discussion.
     3. **Straw Poll: Do you accept REVISED as the resolution to CIDs 5597 and include the changes in doc 11-17/1443r0?**
        1. Discussion
           1. A member requested some time for review. Guido is okay to defer. However, it has to be concluded by Thursday.
        2. Result: No objection 🡪 motion on Thursday.

1. **AoB**
   1. We still have 50 minutes.
   2. No other submission that can be presented in this time slot.
2. **Recess@9:12 AM.** 
   1. There will be TGax ad hoc meetings this afternoon.
   2. Chair will send out an email.

**Wednesday, September 13th 2017, PM1 TGax Ad Hoc Sessions (13:30-15:30)**

* Ad Hoc #1: PHY – Kona 4 & 5
  + Agenda: 11-17-1434.
* Ad Hoc #2: MAC – Kohala 3
  + Agenda: 11-17-1453.

**Wednesday, September 13th 2017, PM2 TGax Ad Hoc Sessions (16:00-18:00)**

* Ad Hoc #1: PHY – Kona 4 & 5.
  + Agenda: 11-17-1434.
* Ad Hoc #2: MAC – Kohala 3.
  + Agenda: 11-17-1453.

**Thursday, September 14th, 2017, PM1 TGax full Session (13:30-15:30)**

1. **The meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of the TGax, @13:30.**
   1. Agenda 17/1219r5 is on the server. Rev. 6 is the working document.
   2. Introduction of front table.
2. **Agenda for this session**
   1. Thursday PM1 and PM2
      1. Call Meeting to order
      2. Agenda Setting
      3. Announcement/Reminder
         1. IEEE 802 and 802.11 IPR Policy and procedure.
         2. Attendance
      4. COEX Presentation (Andrew Myles)
      5. TG Motions
         1. Motions to approve comment resolution
         2. Motion to approve WG letter ballot
      6. Timeline
      7. Teleconferences schedule
      8. Presentations
      9. 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. **COEX Presentation**
   1. **Andrew Myles (Cisco Systems) presented “Revised shorter presentation to TGax relating to coexistence efforts in Coexistence SC,” based on the submission 11-17-1469r3.**
      1. Summary
         1. Collaboration is required with ETSI BRAN to ensure 802.11ax achieves its potential as next gen Wi-Fi.
         2. The current version of EN 301 893 is problematic for 802.11ax performance & spatial reuse, globally. The upcoming revision of EN 301 893 provides an opportunity to better enable 802.11ax.
         3. Call to action: Please actively participate in the Coexistence SC to help 802.11ax achieve its full potential!
      2. Discussion
         1. Chair asked how we can participate. 🡪 There will be non-overlapping session during a face-to-face meeting. People can participate teleconferences as well.
5. **Motions – TG documents**
   1. **PHY Motions**
      1. **PHY Motion # 198: Move to accept the proposed spec text modification as in 11-17/1296r0.**
         1. **Moved by Lochan Verma, Seconded by Yasuhiko Inoue.**
         2. **Discussion – No discussion.**
         3. **Result: Motion was accepted with no objection.**
      2. **PHY Motion #199: Move to accept the proposed spec text modification proposed as in 11-17/1375r2.**
         1. **Moved by Jianhan Liu, Seconded by Yasuhiko Inoue.**
         2. **Discussion – No discussion.**
         3. **Result: Motion was accepted with no objection.**
      3. **PHY Motion #200: Move to accept the proposed spec text modification proposed as in 11-17/1307r1.**
         1. **Moved by Xiaogang Chen, Seconded by Yasuhiko Inoue.**
         2. **Discussion – No discussion.**
         3. **Result: Motion was accepted with no objection.**
      4. **PHY Motion #201: Move to accept the proposed spec text modification as in 11-17/1327r0.**
         1. **Moved by Dongguk Lim, Seconded by Yasuhiko Inoue.**
         2. **Discussion – No discussion.**
         3. **Result: Motion was accepted with no objection.**
      5. **PHY Motion #202: Move to accept the proposed spec text modification as in 11-17/1380r0.**
         1. **Moved by Hongyuan Zhang, Seconded by Yasuhiko Inoue.**
         2. **Discussion – No discussion.**
         3. **Result: Motion was accepted with no objection.**
      6. **PHY Motion #203: Move to accept the proposed spec text modification as in 11-17/1449r0.**
         1. **Moved by Yan Zhang, Seconded by Yasuhiko Inoue.**
         2. **Discussion – No discussion.**
         3. **Result: Motion was accepted with no objection.**
   2. **CR Motions**
      1. **CR Motion #364: Move to accept the proposed comment resolution to CID 8093 as below:**

**Resolution: Rejected**

**Reason: Commenter does not provide enough information for the group to determine exactly what changes to make to satisfy the commenter.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #365: Move to accept the proposed comment resolution to CID 8055 as below:**

**Resolution: Rejected**

**Reason: the commenter fails to provide enough information to indicate how to apply the changes.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #366: Move to accept the proposed comment resolution to CID 1703, 5817, 5818, 7219, 7858 and 9080 as below:**

**Resolution: Revised**

**Instruction to Editor: the issue addressed by the comment has been resolved in D1.4. No more modification needed.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #367: Move to accept the proposed comment resolution to CID 8081 as below:**

**Resolution: Rejected.**

**Reason: The group agrees that electronic version figure is readable. The figure can certainly be improved for print in future version.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion 368: Move to accept the proposed comment resolution to CIDs 9213 as below:**

**Resolution: Rejected.**

**Reason: The proposed modification could imply an implementation possibility but not necessarily specified in spec.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #369: Move to accept resolution to CID 5292 as below:**

**Resolution: Revised.**

**Instruction to Editor: the issue addressed by CID 5292 has been implemented in D1.4. So no more modification is needed.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #370: Move to accept resolution to CID 4917 as below:**

**Resolution: Rejected.**

**Reason: Benefits are not clear. HE-SIG-B structure is very different from other fields and does not necessarily have to follow the same organization.**

* + - 1. **Moved by Bo Sun, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #371: Move to accept resolutions to CIDs.**

|  |  |
| --- | --- |
| **DCN** | **CIDs** |
| **11-17/1361r0** | **9765, 7237, 8806, 8808, 7827, 10382, 8810, 8811, 9153** |
| **11-17/1296r0** | **3430(MU), 10346(MU), 10347(MU), 10348(MU), 8869, 7849** |
| **11-17/1001r4** | **4094, 8744, 9545, 4857, 4940, 5244, 9546, 4858, 5245, 8746, 4941, 8748, 4943, 8749, 8750, 4944, 9721, 8751, 4861, 4945, 8752, 4946, 8753, 4947, 4949, 8754, 8755, 10199, 8756, 8757, 8758, 8759, 4862, 8760, 4860, 8763, 4859, 4950, 8764, 6111, 7680, 8765, 8766, 8767, 9139, 10083, 8768, 10363, 4951, 8769, 9140, 8531, 9141, 8770, 8771, 8772, 8773, 4954, 8776, 8777, 8778, 4955, 5247, 8779, 4957, 4958, 8780, 8781, 8782, 5248, 4959, 9144, 9145, 5389, 4960, 8783** |
| **11-17/1381r3** | **6309 (MAC), 8761, 8762, 9138** |
| **11-17/1306r2** | **4970, 7238, 7239, 7240, 8604, 9148, 9149, 9150, 9793, 9091, 7855, 9084** |
| **11-17/1332r0** | **10374** |
| **11-17/0995r4** | **PHY CID 3320, 3403, 5141, 5418, 5419, 7986, 8416, 8674, 9509, 10350, 4953, 8417, 8775, 10351, 10364, 5246, 5753, 5301, 5303, 5413, 5414, 5415, 5416, 5787, 5792, 6123, 7236, 8079, 8418, 8419, 8567, 8912, 9552, 9553, 10210, 10408, 10410;**  **MAC CID 3319, 3321, 3401, 3405, 3672, 5089, 5131, 5417, 6084, 8022, 8420, 8657, 9995, 10341, 5090** |
| **11-17/1315r3** | **8576** |
| **11-17/1462r0** | **7548** |
| **11-17/1472r1** | **7859** |
| **11-17/0720r1** | **4906** |
| **11-17/0532r2** | **9734, 10146, 9052, 9205** |
| **11-17/1485r0** | **9735** |
| **11-17/1383r5** | **9551** |
| **11-17/1462r0** | **7548** |
| **11-17/1001r4** | **9968, 8747** |
| **11-17/1454r1** | **0084** |
| **11-17/1468r0** | **9463** |

* + - 1. **Moved by Bo Sun, Seconded by Yasu Inoue.**
      2. **Discussion:** 
         1. **A member asked for the change in 11-17/1383r5 from the previous version. 🡪 It’s editorial modification (revision No. in resolution column).**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #372 (MU): Move to accept resolution to CIDs:**

|  |  |
| --- | --- |
| **DCN** | **CIDs** |
| **11-17/1286r1** | **3223, 3224, 4797, 4798, 4799, 4801, 4802, 4803, 4804, 5179, 5180, 5181, 5182, 5698, 5699, 5700, 5701, 5780, 5808, 5943, 5944, 5945, 5980, 5981, 5982, 6099, 6163, 6164, 6165, 7089, 7226, 7385, 7571, 7572, 7642, 7643, 7688, 7689, 7807, 7808, 8053, 8167, 8168, 8217, 8255, 8270, 8294, 8495, 8496, 8497, 8593, 8696, 8697, 8698, 8699, 9290, 9398, 9454, 9457, 9466, 9467, 9468, 9526, 9587, 9704, 9705, 9706, 9889, 9890, 9891, 9892, 9893, 10316** |
| **11-17/1139r2** | **6139, 7425** |
| **11-17/1091r1** | **7394, 8058, 8275, 8303** |
| **11-17/1060r6** | **6053, 6042** |

* + - 1. **Moved by Sigurd Schelstraete, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #373: Move to accept resolutions to CIDs;**

**3056, 3189, 3190, 5167, 5168, 5394, 5454, 5456, 5686, 5779, 5799, 6058, 6059, 6152, 6176, 6574, 6575, 6576, 6577, 6578, 6579, 6580,6581, 6582, 6583, 7022, 7071, 7232, 7659, 8358, 8693, 9380, 9519, 9520, 9585, 9727, 9739, 9747, 9872, 9873, 10007, 10171, 10241, 10242, 10243, 10244, 5453, 7162, 9438**

**in doc 11-17/0389r10**

* + - 1. **Moved by Kaiying Lv, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #374: Move to accept resolutions to CIDs;**

**6187, 6183, 7605, 4793, 5402, 9392, 9393, 10332, 8136, 8135, 7947, 7944, 7943, 7942, 7941, 7940, 7949, 7950, 7948, 7962, 7863, 7864, 8401, 8393, 9672, 9671**

**in doc 11-17/0553r8**

* + - 1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #375: Move to accept resolution to CIDs;**

**3031 3123 4765 4766 5034 5673 5759 5765 5766 5767 5768 5769 5832 5833 5834 5835 5836 5892 5959 6049 6051 6089 6350 6351 6352 6353 6354 6355 6363 7170 7184 7208 7358 7359 7360 7361 7362 7551 7598 7599 7600 7922 7923 7924 7925 7926 7927 7928 7929 7930 8123 8124 8127 8131 8144 8196 8197 8200 8591 9843 9971**

**in doc 11-17/0777r8**

* + - 1. **Moved by Matthew Fischer, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #376: Move to accept resolutions to CIDs 5973 and 9870 in doc 11-17/0811r3.**
       1. **Moved by Jarkko Kneckt, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    2. **CR Motion #377: Move to accept resolutions to CIDs;**

**3136, 4834, 5159, 5161, 5162, 5557, 5560, 5568, 6514, 6515, 7530, 7779, 7781, 7872, 7873, 8208, 8209, 8349, 8350, 8451, 9422, 9686**

**in 11-17/0925r12**

* + - 1. **Moved by Huizhao Wang, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #378: Move to accept resolutions to CIDs;**

**5068, 6048, 6804, 6805, 6807, 6814, 6815, 5230, 6816, 8243, 8421, 8422, 8244, 8245, 8289, 8622, 9593, 5952**

**in Doc 11-17/1009r1**

* + - 1. **Moved by Chao-Chun Wang, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #379: Move to accept resolutions to CIDs;**

**3041, 3129, 6469, 6470, 8204, 3043, 3045, 5341, 4644, 5069, 5340, 5770, 5771, 5952, 5950, 3044, 5951, 7563, 5845, 8205, 5846, 6471, 6473, 7777, 8203, 8206, 9112**

**in doc 11-17/1010r3.**

* + - 1. **Moved by Chao-Chun Wang, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #380: Move to accept resolutions to CIDs 3050, 5847, 7384, 8315 in doc 11-17/1011r1.**
       1. **Moved by Chao-Chun Wang, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    2. **CR Motion #381: Move to accept resolutions to CIDs; 4781, 6982, and 8210 in doc 11-17/1034r1.**
       1. **Moved by Chao-Chun Wang, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    3. **CR Motion #382: Move to accept resolution to CID 7617 in doc 11-17/1067r4.**
       1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    4. **CR Motion #383: Move to accept resolution to CID 8427 in doc 11-17-1135-01.**
       1. **Moved by Matthew Fischer, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    5. **CR Motion #384: Move to accept resolutions to CIDs 3185, 4755, 7783, 7784, 7785, 9559 in doc 11-17/1068r1.**
       1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    6. **CR Motion #385: Move to accept resolutions to CIDs 5011, 6900, 6998, 9056 in doc 11-17/1173r2.**
       1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    7. **CR Motion #386: Move to accept resolutions to CIDs 5308, 6070, 6914, 6915, 6916, 6922, 8171, 6920, 7222 in doc 11-17/1174r1.**
       1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    8. **CR Motion #387: Move to accept resolutions to CIDs 5772, 9476, 9480 in doc 11-17/1183r5.**
       1. **Moved by Laurent Cariou, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    9. **CR Motion #388: Move to accept resolutions to CIDs 4746, 5373, 8207 in doc 11-17/1396r1.**
       1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: Motion was accepted with no objection.**
    10. **CR Motion #389: Move to accept resolutions to CIDs 3141, 5166, 7070, 7792, 7793, 8317, 8333, 8692, 9436, 9437, 9517 in doc 1248r2.**
        1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: Motion was accepted with no objection.**
    11. **CR Motion #390: Move to accept resolutions to CIDs 4773, 5552, 5553, 5554, 5555, 5556 7382, 7774, 7870, 8355, 9664, 9665 in doc 11-17/1263r2.**
        1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: Motion was accepted with no objection.**
    12. **CR Motion #391: Move to accept resolutions to CIDs 3185, 4755, 7783, 7784, 7785, 9559 in doc 11-17/1267r3.**
        1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: Motion was accepted with no objection.**
    13. **CR Motion #392: Move to accept resolutions to CIDs 6925, 6926, 6931, 6932, 6933, 6934, 7896, 8170, 7896 in doc 11-17/1268r1.**
        1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: Motion was accepted with no objection.**
    14. **CR Motion #393: Move to accept resolution to CID 9389 in doc 11-17-1271r1.**
        1. **Moved by Yongho Seok, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: Motion was accepted with no objection.**
    15. **CR Motion #394: Move to accept resolutions to CIDs;**

**3011, 6079, 7482, 8534, 5914, 6290, 7742, 8344, 8652, 7743, 7744, 9629, 9823, 7483, 9776, 7671, 8656, 7524, 6083, 5825, 6061, 9259, 8339, 9632, 7747, 8023, 9634, 9758, 7746, 9347, 9830, 9474, 5380, 3017 7954, 9639, 7265, 8379, 9506, 7751, 5707**

**in doc 11-17/1275r4.**

* + - 1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: Motion was accepted with no objection.**
    1. **CR Motion #395: Move to accept resolution to CID 9429 in doc 11-17-1272r0.**
       1. **Moved by Yongho Seok, Seconded by Yasuhiko Inoue.**
       2. **Discussion: No discussion.**
       3. **Result: The motion was accepted with no objection.**
    2. **CR Motion #396: Move to accept resolutions to CIDs 9579, 9722 in doc 1-17/1277r2.**
       1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    3. **CR Motion #397: Move to accept resolution to CID 9846 in doc 11-17-1278r1.**
       1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    4. **CR Motion #398: Move to accept resolutions to CIDs 4927, 6092, 3178, 7775, 4776, 5921, 3260, 3263, 7757, 7010, 6004, 7367 in doc 11-17/1279r1.**
       1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    5. **CR Motion #399: Move to accept resolutions to CIDs 6561, 6961, 6962, 6963, 6964, 7782, 8433 in doc 11-17/1283r2.**
       1. **Moved by John Son, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    6. **CR Motion #400: Move to accept resolutions to CIDs 8358 and 9377 in doc 11-17/1313r0.**
       1. **Moved by Yongho Seok, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    7. **CR Motion #401: Move to accept resolutions to CIDs 3183, 3184, 4836, 4837, 4838, 5762, 6171, 6172, 6503, 7498, 7664, 8386, 8412, 9471, 9853 in doc 11-17/1317r1.**
       1. **Moved by Kiseon Ryu, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    8. **CR Motion #402: Move to accept resolutions to CIDs 6994, 6598, 6983, 6984, 6986, 6600, 7797, 6599, 8434, 7796, 6987, 9413, 5410, 9399, 6989, 8435, 6988, 6990 in doc 11-17/1335r1.**
       1. **Moved by Laurent Cariou, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    9. **CR Motion #403: Move to accept resolutions to CIDs 5336, 5337, 5338, 6940 in doc 11-17/1336r0.**
       1. **Moved by Laurent Cariou, Seconded by Yasuhiko Inoue.**
       2. **Discussion – No discussion.**
       3. **Result: The motion was accepted with no objection.**
    10. **CR Motion #404: Move to accept resolutions to CIDs 8348 and 6433 in doc 11-17/1342r0.**
        1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: The motion was accepted with no objection.**
    11. **CR Motion #405: Move to accept resolutions to CIDs 6040, 7420, 7421, 7601 in doc 11-17/1351r2.**
        1. **Moved by Kiseon Ryu, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: The motion was accepted with no objection.**
    12. **CR Motion #406: Move to accept resolutions to CIDs 7658, 8445, 8447, 8446, 5473, 5474, 8448, 7540, 7541, 5801, 8458 (11 CIDs) in doc 11-17/1362r2.**
        1. **Moved by Ming Gan, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: The motion was accepted with no objection.**
    13. **CR Motion #407: Move to accept resolutions to CIDs 8449 8453 8547 8452 8450 8451 6603 5929 7139 8439 8440 8441 8436 5469 6991 6992 7798 6993 8149 8437 8438 9401 in doc 11-17/1363r1.**
        1. **Moved by Ming Gan, Seconded by Yasuhiko Inoue.**
        2. **Discussion – No discussion.**
        3. **Result: The motion was accepted with no objection.**
    14. **CR Motion #408: Move to accept resolution to following CID in doc 11-17/1258r0 (1 CID).**

**CID: 9863.**

* + - 1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #409: Move to accept resolution to following CID in doc 11-17/0619r8 (1 CID).**

**CID: 5163.**

* + - 1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #410: Move to accept resolutions to following CIDs in doc 11-17/1282r4 (02 CIDs).**

**CIDs: 8724, 5735.**

* + - 1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #411: Move to accept resolutions to following CIDs in doc 11-17/1081r2 (31 CIDs).**

**CIDs: 3116, 3385, 3493, 3823, 3910, 4375, 4444, 5314, 6077, 6078, 7478, 7479, 7480, 7481, 7738, 7739, 7740, 7741, 7900, 7901, 7902, 7903, 7904, 8188, 8648, 8649, 9106, 9254, 9627, 9628, 9819.**

* + - 1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #412: Move to accept resolution to following CID in doc 11-17/1295r2 (1 CID).**

**CID: 9501.**

* + - 1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #413: Move to accept resolutions to following CIDs in doc 11-17/1438r1 (2 CIDs).**

**CIDs: 5863, 7251.**

* + - 1. **Moved by Kiseon Ryu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #414: Move to accept resolution to following CID in doc 11-17/1456r1 (1 CID).**

**CID: 8555.**

* + - 1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #415: Move to accept resolutions to following CIDs in doc 11-17/1264r2 (67 CIDs).**

**CIDs: 3012, 3013, 3014, 3117, 3164, 3168, 3170, 3172, 3173, 4988, 5012, 5129, 5132, 5158, 5319, 5757, 5826, 5955, 5956, 6081, 6151, 6323, 6325, 6326, 6327, 7261, 7263, 7485, 7486, 7488, 7748, 7749, 7750, 7913, 7956, 7958, 8112, 8189, 8253, 8254, 8650, 8653, 8654, 8655, 9102, 9264, 9350, 9470, 9473, 9631, 9635, 9638, 9640, 9641, 9644, 9822, 9824, 9825, 9829, 9832, 9833, 9990, 9991, 9992, 9994, 10002, 10238.**

* + - 1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #416: Move to accept resolutions to following CIDs in doc 11-17/1262r2 (56 CIDs).**

**CIDs: 3303, 3304, 3305, 3306, 5193, 5194, 5195, 5367, 5368, 5812, 6010, 6011, 6012, 6104, 6732, 6733, 7111, 7637, 7638, 7639, 7640, 7641, 7818, 7819, 8222, 8503, 8504, 8588, 8709, 8710, 8711, 8712, 8713, 8716, 9224, 9225, 9300, 9301, 9302, 9304, 9305, 9536, 9720, 9923, 9924, 9925, 9926, 9927, 9928, 9929, 10151, 10152, 10153, 10156, 10160, 8066.**

* + - 1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #417: Move to accept resolution to following CID in doc 11-17/1475r0 (1 CID).**

**CID: 5915.**

* + - 1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #418: Move to accept resolutions to following CIDs in doc 11-17/1301r1 (2 CIDs).**

**CIDs: 9636, 9699.**

* + - 1. **Moved by Laurent Cariou, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #419: Move to accept resolutions to following CIDs in doc 11-17/1290r4 (21 CIDs).**

**CIDs: 3388, 3497, 3828, 3916, 4383, 4453, 5538, 5540, 5541, 5543, 5544, 5545, 5546, 5547, 5549, 5550, 7994, 8106, 8107, 8681, 8688.**

* + - 1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #420: Move to accept resolutions to following CIDs in doc 11-17/1294r0 (4 CIDs).**

**CIDs: 4756, 9605, 9606, 9855.**

* + - 1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #421: Move to accept resolutions to following CIDs in doc 11-17/1304r0 (14 CIDs).**

**CIDs: 3186, 5334, 6174, 6175, 6518, 7021, 7886, 8147, 9327, 9341, 9430, 9687, 9688, 9856.**

* + - 1. **Moved by James Yee, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #422: Move to accept resolutions to following CIDs in doc 11-17/1429r0 (4 CIDs).**

**CIDs: 3098, 9594, 9595, 9596.**

* + - 1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #423: Move to accept resolutions to following CIDs in doc 11-17/1330r1 (21 CIDs).**

**CIDs: 3059, 4852, 7084, 7529, 7538, 8432, 8460, 8467, 8469, 8479, 8481, 8483, 8484, 8487, 8488, 8489, 8492, 8493, 9394, 9395.**

* + - 1. **Moved by George Cherian, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #424: Move to accept resolution to following CID in doc 11-17/1358r1 (1 CID).**

**CID: 6942.**

* + - 1. **Moved by Ross Yu Jian, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #425: Move to accept resolution to following CID in doc 11-17/1399r1 (1 CID).**

**CID: 3099.**

* + - 1. **Moved by Ross Yu Jian, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #426: Move to accept resolutions to following CIDs in doc 11-17/1401r2 (3 CIDs).**

**CID: 5285, 6198, 7603.**

* + - 1. **Moved by Ross Yu Jian, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #427: Move to accept resolutions to following CIDs in doc 11-17/1402r1 (11 CIDs).**

**CID: 7001, 9597, 7004, 7005, 9335, 9324, 7880, 8313, 7012, 7006, 7000.**

* + - 1. **Moved by Ross Yu Jian, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #428: Move to accept resolutions to following CIDs in doc 11-17/1476r1 (4 CIDs).**

**CID: 4794, 6030, 6772, 8163.**

* + - 1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #429: Move to accept resolution to following CID in doc 11-17/1494r0 (1 CID).**

**CID: 8470.**

* + - 1. **Moved by George Cherian, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #431: Move to accept resolutions to CIDs 8172, 5023, 3073, 10016, 7651, 6154, 7181, 3236, 6000, 8389, 7409, 5860, 6711, 6712, 6008, 5676, 7419, 9956, 6038, 6108, 7204, 9578, 5740, 5738, 5507, 5508, 9740, 4787, 6039, 8288, 9741, 9957, 6043, 9742, 10295, 4788, 7422, 6182, 7043, 5401, 4710, 5333, 6093, 8685, 8686**

**in doc 11-17/1276r6.**

* + - 1. **Moved by Abhishek Patil, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #432: Move to accept resolution to following CID in doc 11-17/1270r1 (1 CID).**

**CID: 5374.**

* + - 1. **Moved by Yongho Seok, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #433: Move to accept resolutions to following CIDs in doc 11-17/1069r4 (33 CIDs).**

**CID: 4757, 3133, 3134, 4758, 8407, 8302, 5849, 6486, 6487, 4759, 9387, 9388, 3191, 6185, 7038, 5793, 4763, 3180, 4762, 8408, 9678, 9679, 4764, 4796, 7566, 6186, 7039, 9390, 3181, 4761, 4760, 8409.**

* + - 1. **Moved by Liwen Chu, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #434: Move to accept resolutions to following CIDs in doc 11-17/1087r2 (2 CIDs).**

**CID: 4813, 4814.**

* + - 1. **Moved by Alfred Asterjadhi, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #435: Move to accept REVISED as the resolution to CID 5597 and include in the draft the changes in doc 11-17/1443r0.**
       1. **Moved by Guido R. Hiertz, Seconded by Yasuhiko Inoue.**
       2. **Discussion:**
          1. **A member commented that this is related to support of QMF and it is dangerous for HE STAs to support it. 🡪 Guido still believes that it is beneficial to support QMF.**
          2. **Another member also shared the concern that the previous commenter expressed.**
       3. **Result: Y/N/A = 4/27/24, motion fails.**
    2. **CR Motion #436: Move to accept resolutions to CIDs**

**4786, 5916, 6032, 6107, 7891, 8529, 9738, 9955, 10145 (27.13)**

**4598, 6090, 7366, 7882, 10074 (9.4.2.218.2)**

**in doc 11-17/1377r4 (2 CIDs).**

* + - 1. **Moved by James Yee, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #437: Move to accept resolutions to following CIDs in doc 11-17-0759-04-00ax-comment-resolution-on-cid-9333-and-9969.**

**CIDs: 3215, 9333, 9969.**

* + - 1. **Moved by Jason Yuchen Guo, Seconded by Yasuhiko Inoue.**
      2. **Discussion:**
         1. **A member expressed a concern. He believes more discussion will be needed. 🡪 The presenter replied that the commenter gives no technical reason.**
         2. **Another member mentioned that this is not a bad idea. Maybe not complete, but good to go with it.**
      3. **Result: Y/N/A = 29/2/23, motion passes.**
    1. **CR Motion #438: Move to accept REJECT as the resolution to the following CIDs;**

**8426 (11-17/1131r2)**

**5917, 8165 (11-17/0308r5)**

**9472 and 9492 (11-17/1440r1)**

**5597 (11-17/1443r0)**

**7778**

**for lack of consensus on proposed resolutions.**

* + - 1. **Moved by Osama Aboul-Magd, Seconded by Yasuhiko Inoue.**
      2. **Discussion:**
         1. **A member asked for a question: What about the other CIDs? 🡪 Rejected as well.**
         2. **Another member commented that “lack of consensus” may not be the right term.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #439: Move to accept the resolution to comments in the following tabs in 17/0010r13:**

**Editorials No Change**

**Editorials in D1.1**

**Editorials in D1.2**

**Editorials in D1.3**

**Editorials in D1.4**

**Duplicates**

**CA Doc**

* + - 1. **Moved by Robert Stacy, Seconded by Yasuhiko Inoue.**
      2. **Discussion – No discussion.**
      3. **Result: The motion was accepted with no objection.**
    1. **CR Motion #440: Move to resolve CID that have no approved resolution as rejected in the interest of releasing draft 2.0.**
       1. **Moved by Robert Stacy, Seconded by Yasuhiko Inoue.**
       2. **Result: The motion was accepted with no objection.**
  1. **WG LB Motion**
* **Having approved changes to TGax draft D1.0, as defined in 11-17/0010r13 in addition to motions passed during September 2017 session.**
* **Instruct the editor to prepare TGax draft D2.0, and**
* **Approve a 30 day Working Group Technical Letter Ballot asking the question “Should TGax draft D2.0 be forwarded to Sponsor Ballot?”**
  + 1. **Moved by Robert Stacy, Seconded by Alfred Asterjadhi.**
    2. **Result: Y/N/A = 53/0/0, motion passes.**

1. **Ad Hoc Meeting**
   1. **No ad hoc meeting before the November 2017 meeting.**
2. **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**
   6. **September 2017: Draft 2.0 and recirculation**
   7. **May 2018: MDR (Mandatory Document Review)**
   8. **May 2018: Formation of SB pool**
   9. **November 2018: Sponsor Ballot**
   10. **July 2019: RevCom**
3. **Teleconference schedule**
   1. Already approved

* September 28th: 10:00 – 12:00 ET
* September 21st: 20:00 – 22:00 ET
  1. New set of teleconferences
     1. Thursday November 2nd, 2017: 10:00 – 12:00 ET

1. **AoB**
   1. **Chair asked if there is any objection to adjourn. 🡪 No objection.**
2. **Adjournment**
   1. TGax adjourned for the week @ 15:26

**Thursday, September 14th, 2017, PM2 TGax full Session (16:00-18:00)**

TGax meeting on Thursday PM2 was cancelled.