IEEE P802.11  
Wireless LANs

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| TGax Teleconference Minutes from May to June 2019 | | | | |
| Date: 2019-06-28 | | | | |
| Author(s): | | | | |
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| Al Petrick | InterDigital |  |  |  |

Abstract

This document contains minutes of TGax teleconference from May to June 2019.

Rev. 0: Initial version.

* Cummulative minutes of TGax teleconferences on May 23rd, May 31st, June 20th, and June 27th, 2019.
  + Minutes from TGax teleconference on May 30th are taken by Al Petrick.

# Teleconference on Thursday, May 23rd, 2019, 10:00 AM – 12:00 (ET)

1. **Meeting called to order by Alfred Asterjadhi (Qualcomm), the vice chairperson of TGax @ 10:03 (ET).**
   1. Introduction of the TGax leadership.
2. **Agenda Setting**
   1. Proposed Agenda
      1. Call the meeting to order
      2. IEEE 802 and 802.11 IPR policies and procedures
         1. Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
         2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
         3. Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* + 1. Attendance (Please send an e.mail to Yasuhiko Inoue (inoue.yasuhiko@lab.ntt.co.jp)
    2. Announcements
       1. None.
    3. Comment Resolution
       1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0696-01-00ax-omi-comment-resolutions.docx>, Jarkko Kneckt (Apple)
       2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0488-02-00ax-cr-for-rnr.docx>, Jarkko Kneckt (Apple)
       3. <https://mentor.ieee.org/802.11/dcn/19/11-19-0750-01-00ax-11ax-d4-0-comment-resolution-26-5-3-4.docx>, Liwen Chu (Marvell)
    4. AOB
    5. Adjourn
  1. 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.
     3. The agenda was approved.

1. **IEEE 802 and 802.11 IPR Policy and Procedure**
   1. Chair mentioned that we are operating under the IEEE 802 and 802.11 Policy and Procedure.
   2. Relevant documents
      1. IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
      2. Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
      3. LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
      4. Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
      5. Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
      6. Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
      7. IEEE 802.11 Working Group Operartions Manual - <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-21-0000-802-11-operations-manual.docx>
      8. Participation in IEEE 802 Meetings
   3. Chair asked if there is any potentially essential patent that people are aware of.
      1. No potentially essential patent reported.
2. **Attendance**
   1. Chair asked the attendees to send an email to Yasuhiko ([yasu.inoue.h2k5@gmail.com](mailto:yasu.inoue.h2k5@gmail.com)).
3. **Announcement**
   1. Chair asked people to state name and affiliation when addressing for the first time during the session.
   2. Chair memtioned that we still had 283 comments to resolve.
4. **Comment Resolution**
   1. **Jarkko Kneckt (Apple) presented “OMI Comment Resolutions,” based on the submission 11-19-0696-01.**
      1. Summary
         1. Resolutions for the comments related to the OMI specified in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20716, 20788, 21208, 21478, and 21618.
      2. Discussion
         1. CID 20716: Update resolution based on feedback from Mark/Alfred.
         2. CID 20788 and 21618 (deferred): Need more discussion.
         3. CID 21208 and 21478 are ready for motion (as shown in 19/696r2).
      3. Next Step
         1. Jarkko to come back with updates..
   2. **Jarkko Kneckt (Apple) presented “CR for Reduced Neighbor Report,” based on the submission 11-19-0488-02.**
      1. Summary
         1. Resolutions for the comments related to the Resuced Neighbor Report specified in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20253, 20255, 20264 and 20265.
      2. Discussion
         1. CID 20253 (deferred): Need more discussion.
         2. Remaining CIDs (deferred): Resolution is the same as for CID 20253.
      3. Next Step
         1. Jarkko to updarte the document..
   3. **Liwen Chu (Marvell Semiconductor) presented “11ax D4.0 comment-resolution 26.5.3.4,” based on the submission 11-19-0750-01.**
      1. Summary
         1. Resolutions for the comments related to the A-MPDU contents in an HE TB PPDU specified in the IEEE 802.11ax D4.0 subclause 26.5.3.4 with following CIDs are proposed.
            1. CIDs: 15084, 15684, 15685, 16404, 16607, 16608, 17117
      2. Discussion
         1. CID 20186 (deferred): Follow up with an update accounting for the feedback received during the conference call.
         2. CID 20640: Continue presentation from this CID. Include early feedback received from Robert and Mark..
      3. Next Step
         1. Liwen’s presentation was interrupted due to the time.
         2. Liwen to update the document and to continue his presentation.
5. **AOB**
   * 1. None
6. **Adjournment**
   1. No time to go through the rest of the agenda items.
   2. Meeting adjourned at 10:20 (ET).
7. **List of Attendees**

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|  | **Name** | **Affiliation** |
| 1 | Alfred Asterjadhi | Qualcomm |
| 2 | Liwen Chu | Marvell |
| 3 | Yasu Inoue | NTT |
| 4 | Patrice Nezou | Canon Research |
| 5 | Abhishek Patil | Qualcomm |
| 6 | Gaurav Patwardhan | HP Enterprise |
| 7 | Al Petrick | InterDigital Communications |
| 8 | Mark Rison | Samsung |
| 9 | L. Sun | InterDigital Communications |
| 10 | Xiaofei Wang | InterDigital Communications |
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# Teleconference on Thursday, May 30th, 2019, 20:00 AM – 22:00 (ET)

1. **Meeting called to order by Alfred Asterjadhi (Qualcomm), the vice-chair of TGax @ 20:05 AM (ET).**
   1. Introduction of the acting chair Alfred Asterjadhi (Qualcomm).
   2. Yasuhiko Inoue (NTT) is not on the call. Al Petrick volunteers to tale minutes.
2. **Agenda Setting**
   1. Proposed Agenda
      1. Call the meeting to order
      2. IEEE 802 and 802.11 IPR policies and procedures
      3. Attendance reminder: Please send an e-mail to Yasuhiko Inoue (inoue.yasuhiko@lab.ntt.co.jp) and Al Petrick (al@jpasoc.com)
      4. Announcements
         1. None.
      5. Comment resolution
      6. AOB
      7. Adjourn
   2. 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.
      3. The agenda was approved.
3. **IEEE 802 and 802.11 IPR Policy and Procedure**
   1. Chair mentioned that we are operating under the IEEE 802 and 802.11 Policy and Procedure.
      * 1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
        2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
        3. Speak up now and respond to this Call for Potentially Essential Patents
        4. If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair.
   2. Relevant documents
      1. IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
      2. Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
      3. LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
      4. Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
      5. Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
      6. Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
      7. IEEE 802.11 Working Group Operartions Manual - <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-21-0000-802-11-operations-manual.docx>
      8. Participation in IEEE 802 Meetings
   3. Chair asked if there is any potentially essential patent that people are aware of.
      1. No potentially essential patent reported.
4. **Attendance**
   1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   2. Attendence record - Chair asked attendees to send an email to Yasuhiko ([inoue.yasuhiko@lab.ntt.co.jp](mailto:inoue.yasuhiko@lab.ntt.co.jp)) and Al Petrick ([al@jpasoc.com](mailto:al@jpasoc.com)) to record attendance.
5. **Announcement**
   1. Alfred Asterjahdi suggested he will be chairing the teleconference calls protem until further notice.
6. **Comment Resolution**
   1. **Liwen Chu (Marvell) presented “,” based on the submission 11-18-1987-01.**
      1. Summary
         1. Resolutions for the comments with following CIDs on IEEE 802.11ax D3.0 are proposed.
            1. CIDs: 15210, 15875, 16581, 16582, 16583, 16556, 16558, 15038, 15064 and 15065.
         2. **Started discussing from CID 20640. Incorporated received suggestions.**
      2. Discussion
         1. CID 20186, 21597: The resolution for 21597 is the same as 20816. Work offline to move the paragraph as suggested during the call.
         2. CID 20650: Work offline to add Ctrl. subfield ID 15 exception and corresponding redline text.
         3. CID 20651: Suggestion is to add a note clarifying that UPH is based on current capabilities since OM change takes effect after end of the TXOP.
         4. CID 20655: Will have some editorial changes.
         5. CID 20659: Work offline to clarify that padding is included. Needs more discussion.
         6. CID 20816: Work offline to clarify text. Needs more discussion.
         7. CID 20640, 20660, 20764, 21082: Are fine as per 19/750r2.
7. **AOB**
   1. None
8. **Adjournment**
   1. Meeting adjourned at 10:00 (ET).
9. **List of Attendees**

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| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Alfred Asterjadhi | Qualcomm |
| 2 | Mark Rison | Samsung |
| 3 | Liwen Chu | Marvell |
| 4 | Al Petrick | InterDigital Communications |
| 5 | Tomoko Adachi | Toshiba Corporation |
| 7 | Xiaofei Wang | InterDigital Communications |
| 8 | Li-Hsiang Sun | InterDigital Communications |
| 9 | Jarkko Kneckt | Apple |
| 10 | Tianyu Wu | Apple |
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# Teleconference on Thursday, June 13th, 2019, 10:00 AM – 12:00 (ET)

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 10:05 AM (ET).**
   1. Introduction of the chairperson Osama Aboul-Magd (Huawei Technologies) and the secretary Yasuhiko Inoue (NTT).
2. **Agenda Setting**
   1. Proposed Agenda
      1. Call the meeting to order
      2. IEEE 802 and 802.11 IPR policy and procedure
      3. Attendance reminder.
      4. TGax adhoc Meeting in Renne, France (July 10-12)
         1. Please approve the ePoll if planning to attend.
         2. <https://mentor.ieee.org/802.11/poll-status?p=32600008>
      5. Announcements
      6. Comment Resolution
         1. [https://mentor.ieee.org/802.11/dcn/19/11-19-0561-00-00ax-mac-cr-misc-twt.docx](https://mentor.ieee.org/802.11/dcn/19/11-19-0561-00-00ax-mac-cr-misc-twt.docx%20)  - Alfred Asterjadhi
         2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0594-01-00ax-mac-cr-transmit-power-control-part-2.docx> - Alfred Asterjadhi (Qualcomm)
         3. <https://mentor.ieee.org/802.11/dcn/19/11-19-0909-00-00ax-mac-cr-6-ghz-scanning.docx> - Alfred Asterjadhi (Qualcomm)
         4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1009-00-00ax-cr-for-miscellaneous-cids.docx> - Po-Kai Huang (Intel)
      7. AoB
      8. Adjourn
   2. 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.
      3. The agenda was approved.
3. **IEEE 802 and 802.11 IPR Policy and Procedure**
   1. Chair mentioned that we are operating under the IEEE 802 and 802.11 Policy and Procedure.
      1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
      2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      3. Speak up now and respond to this Call for Potentially Essential Patents
      4. If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
   2. Relevant documents
      1. IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
      2. Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
      3. LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
      4. Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
      5. Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
      6. Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
      7. IEEE 802.11 Working Group Operartions Manual - <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-21-0000-802-11-operations-manual.docx>
      8. Participation in IEEE 802 Meetings
   3. Chair asked if there is any potentially essential patent that people are aware of.
      1. No potentially essential patent reported.
4. **Attendance**
   1. Chair asked the attendees to send an email to Yasuhiko (<yasu.inoue.h2k5@gmail.com>) and/or Osama ([osama.aboulmagd@huawei.com](mailto:osama.aboulmagd@huawei.com)) to record attendance.
5. **TGax ad hoc meeting in July 2019**
   1. Please respond to the ePoll if you plan to attend: <https://mentor.ieee.org/802.11/poll-status?p=32600008>
   2. There will be 16 people so far.
6. **Announcement**
   1. Chair asked people to state name and affiliation when addressing for the first time during the session.
   2. Chair mentioned that we had two more teleconferences planned before the Jnauary 2019 session. One more telelconference will be added on January 10th to accelerate the comment resolution.
7. **Comment Resolution Status**
   1. We still have about 800 technical comments to resolve.
8. **Comment Resolution**
   1. **Alfred Asterjadhi (Qualcomm) presented “Comment Resolutions for miscellaneous TWT,” based on the submission 11-19-0561-00.**
      1. Summary
         1. Resolutions to the comments related to the TWT specififed in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20247, 20352, 20410, 20443, 20590, 21061, 21062, 21265 (8 CIDs).
      2. Discussion
         1. CID 21062: There was a comment that the sentence is misleading. 🡪 Alfred updated during the presentation.
         2. Additional discussion on the IE field value.
      3. Next Step
         1. CIDs 20247, 20352, 20410, 20443, 20590, 21061, 21062, 21265.
         2. r1 will be uploaded – ready for motion.
   2. **Alfred Asterjadhi (Qualcomm) presented “Comment Resolutions for 6GHz Scanning,” based on the submission 11-19-0909-00.**
      1. Summary
         1. Resolutions to the comments related to the Scaning Scheme for the 6 GHz band specififed in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20493, 21160, 21496.
      2. Discussion
         1. Considered from last week.
         2. CID 21160: A member expressed objection to the limitation of the number of ShortSSID in the proposed text.
         3. Another member commented on the limitation on the Probe Request in the Table 9-40.
      3. Next Step
         1. Changes were made to satisfy the issues raised during the last week teleconference.
         2. CID 20493, 21160, 21496 are now ready for motion.
   3. **Po-Kai Huang (Intel) presented “11ax D4.1 MAC Comment Resolution for Miscellaneous CIDs,” based on the submission 11-19-1009-00.**
      1. Summary
         1. Resolutions to the comments on 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20739, 20740
      2. Discussion
         1. The group discussed the relation of HE ER PPDU and HE SU PPDU.
      3. Next Step
         1. CID 20739, 20740 – r1 will be uploaded.
         2. Ready for motion.
9. **AOB**
   * 1. None
10. **Adjournment**
    1. No time to go through the rest of the agenda items.
    2. Meeting adjourned at 11:05 AM (ET).
11. **List of Attendees**

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| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Alfred Asterjadhi | Qualcomm |
| 3 | Liwen Chu | Marvell Semiconductor |
| 4 | Mark Hamilton | ARRIS/Ruckus |
| 5 | Yasu Inoue | NTT |
| 6 | Abhishek Patil | Qualcomm |
| 7 | Al Petrick | InterDigital Communications |
| 8 | Mark Rison | Samsung |
| 9 | Rober Stacey | Intel |
| 10 | Pascal Vigar | Canon Research |
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# Teleconference on Thursday, June 20th, 2019, 20:00 – 22:00 (ET)

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 20:05 (ET).**
   1. Introduction of the chairperson Osama Aboul-Magd (Huawei Technologies) and the secretary Yasuhiko Inoue (NTT).
2. **Agenda Setting**
   1. Proposed Agenda
      1. Call the meeting to order
      2. IEEE 802 and 802.11 IPR policies and procedures
      3. Attendance reminder: Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com)
      4. Announcements
      5. Status of comment resolution
      6. Comment resolution
         1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0750-02-00ax-11ax-d4-0-comment-resolution-26-5-3-4.docx> - Liwen Chu
         2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0735-01-00ax-11ax-d4-0-comment-resolution-10-24.docx> - Liwen Chu
         3. <https://mentor.ieee.org/802.11/dcn/19/11-19-0734-00-00ax-11ax-d4-0-comment-resolution-9-7-3.docx> - Liwen Chu
         4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1014-00-00ax-cr-for-nav-part-ii.docx> - Po-Kai Huang
         5. <https://mentor.ieee.org/802.11/dcn/19/11-19-0765-06-00ax-cr-mu-edca-timer.docx> - Zhou Lan
         6. <https://mentor.ieee.org/802.11/dcn/19/11-19-0909-02-00ax-mac-cr-6-ghz-scanning.docx> - Alfred Asterjadhi
         7. <https://mentor.ieee.org/802.11/dcn/19/11-19-0963-00-00ax-mac-cr-he-bss-operation-p2.docx> - Alfred Asterjadhi
         8. <https://mentor.ieee.org/802.11/dcn/18/11-18-0962-04-00ba-proposed-spec-text-for-indication-of-bss-parameter-update-counter-value.docx> - Alfred Asterjadhi
         9. 11-19/0961 – Alfred Asterjadhi – to be uploaded
         10. <https://mentor.ieee.org/802.11/dcn/18/11-18-0964-01-00ax-proposed-resolution-for-cids-for-27-2-2.docx> - Alfred Asterjadhi
      7. AOB
      8. Adjourn
   2. 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.
      3. The agenda was approved.
3. **IEEE 802 and 802.11 IPR Policy and Procedure**
   1. Chair mentioned that we are operating under the IEEE 802 and 802.11 Policy and Procedure.
      1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
      2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      3. Speak up now and respond to this Call for Potentially Essential Patents
      4. If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
   2. Relevant documents
      1. IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
      2. Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
      3. LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
      4. Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
      5. Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
      6. Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
      7. IEEE 802.11 Working Group Operartions Manual - <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-21-0000-802-11-operations-manual.docx>
      8. Participation in IEEE 802 Meetings
   3. Chair asked if there is any potentially essential patent that people are aware of.
      1. No potentially essential patent reported.
4. **Attendance**
   1. Chair asked the attendees to send an email to Yasuhiko ([yasu.inoue.h2k5@gmail.com](mailto:yasu.inoue.h2k5@gmail.com)) and/or Osama ([osama.aboulmagd@huawei.com](mailto:osama.aboulmagd@huawei.com)) to record attendance.
5. **Announcement**
   1. Chair asked people to state name and affiliation when addressing for the first time during the session.
   2. Chair also asked people to mute the microphone when not speaking.
6. **Comment Resolution**
   1. **Liwen Chu (Marvell) presented “11ax D4.0 comment-resolution 26.5.3.4,” based on the submission 11-19-0750-02.**
      1. Summary
         1. Resolutions for the comments related to the subclause 26.5.3.4 (A-MPDU contents in an HE TB PPDU) specified in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20186, 20640, 20650, 20651, 20655, 20659, 20660, 20764, 20816, 21597, 21082.
            2.  CIDs 20186, 21597, 20650, 20651, 20655, 20659, 20660, and 20816 are discussed during today’s teleconference. Other CIDs are accepted in the previous teleconference.
      2. Discussion
         1. CID 20186: A member commented that the Multi-TID BlockAck Request is not covered by the proposed text. Another member discussed the effect of TIDAggregationLimit. 🡪 Liwen updated the proposed text.
         2. CID 20650: The group discussed the Control ID 15 case.
         3. CID 20651: There was a comment that OM parameters should TOM parameters.
         4. CID 20659: Resolution was updated from ACCEPTED to REVISED.
         5. CID 20186: Use of consistent expression was suggested.
      3. Next Step
         1. .All CIDs are ready for motion.
         2. Liwen to upload the new revision.
   2. **Liwen Chu (Marvell) presented “11ax D4.0 Comment Resolution 10.24,” based on the submission 11-19-0735-02.**
      1. Summary
         1. Resolutions for the comments related to the subclause 10.24 (HCF) of the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20654, 20671, 20876
      2. Discussion
         1. CID 20654: A member commented that the HE MU PPDU is not covered in the proposed text and it should be included. Another member discussed the need for Multi-TID Aggregation in the OFDMA. There was an opinion that related rules in 10.24.17 should be listed here to avoid confusion.
         2. CID 20671: A member mentioned just to accept the proposed change.
         3. CID 20876: Still open.
      3. Next Step
         1. CID 20671 is ready for motion. Other two CIDs (20654 and 20876) neeed more discussion. Liwen to update the document..
   3. **Alferd Astejadhi (Qualcomm) presented “Comment resolutions for 6 ghz scanning,” based on the submission 11-19-0909-02.**
      1. Summary
         1. Resolutions for the comments related to the 6 GHz scanning specified in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20493, 21160, 21496.
         2. The initial verion of this document was presented in the last teleconference. Alfred presented the update.
      2. Discussion
         1. CID 21160: The resolution was updated based on the suggestion from a member.
         2. The document was updated incorporating some suggested changes.
      3. Next Step
         1. CIDs 20493, 21160 and 21496 are now ready for motion..
7. **AoB**
   1. None.
8. **Adournment**
   1. TGax teleconference adjourned @ 21:50 (ET).
9. **List of Attendees**

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|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Tomoko Adachi | Toshiba |
| 3 | Alfred Asterjadhi | Qualcomm |
| 4 | Liwen Chu | Marvell |
| 5 | Po-Kai Huang | Intel |
| 6 | Yasuhiko Inoue | NTT |
| 7 | Pooya Monajeni | Cisco |
| 8 | Mark Rison | Samsung |
| 9 | Bo Sun | ZTE |
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# Teleconference on Thursday, June 27th, 2019, 10:00 – 12:00 (ET)

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technoloigies), the chairperson of TGax @ 10:00 (ET).**
   1. Introduction of the chairperson Osama Aboul-Magd (Huawei Technologies) and the secretary Yasuhiko Inoue (NTT).
2. **Agenda Setting**
   1. Proposed Agenda
      1. Call the meeting to order
      2. IEEE 802 and 802.11 IPR policies and procedures
      3. Attendance reminder: Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com)
      4. TGax ad hoc meeting in Renne (July 10-12)
      5. Announcements
      6. Editorial comments
      7. Comment resolution
         1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0735-01-00ax-11ax-d4-0-comment-resolution-10-24.docx> - Liwen Chu
         2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0734-00-00ax-11ax-d4-0-comment-resolution-9-7-3.docx> - Liwen Chu
         3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1014-00-00ax-cr-for-nav-part-ii.docx> - Po-Kai Huang
         4. <https://mentor.ieee.org/802.11/dcn/19/11-19-0765-06-00ax-cr-mu-edca-timer.docx> - Zhou Lan
         5. <https://mentor.ieee.org/802.11/dcn/19/11-19-0963-00-00ax-mac-cr-he-bss-operation-p2.docx> - Alfred Asterjadhi
         6. 11-19-0962-00-00ax-MAC-CR-Non-AP STA scanning behavior (Alfred Asterjadhi, Qualcomm Inc.) – to be uploaded
         7. 11-19-0961-00-00ax-MAC-CR-Group addressed MPDUs delivery (Alfred Asterjadhi, Qualcomm Inc.) – to be uploaded
         8. 11-19-0964-00-00ax-MAC-CR-Additional rules for preassociation (Alfred Asterjadhi, Qualcomm Inc.) – to be uploaded
         9. <https://mentor.ieee.org/802.11/dcn/19/11-19-0619-00-00ax-proposed-resolutions-to-select-comments-on-d4-0.docx> - Sirinivas Kandala
      8. AOB
      9. Adjourn
   2. 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.
      3. The agenda was approved.
3. **IEEE 802 and 802.11 IPR Policy and Procedure**
   1. Chair mentioned that we are operating under the IEEE 802 and 802.11 Policy and Procedure.
      1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
      2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      3. Speak up now and respond to this Call for Potentially Essential Patents
      4. If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
   2. Relevant documents
      1. IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
      2. Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
      3. LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
      4. Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
      5. Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
      6. Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
      7. IEEE 802.11 Working Group Operartions Manual - <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-21-0000-802-11-operations-manual.docx>
      8. Participation in IEEE 802 Meetings
   3. Chair asked if there is any potentially essential patent that people are aware of.
      1. No potentially essential patent reported.
4. **Attendance**
   1. Chair asked the attendees to send an email to Yasuhiko ([yasu.inoue.h2k5@gmail.com](mailto:yasu.inoue.h2k5@gmail.com)) and/or Osama ([osama.aboulmagd@huawei.com](mailto:osama.aboulmagd@huawei.com)) to record attendance.
5. **Announcement**
   1. Chair asked people to state name and affiliation when addressing for the first time during the session.
   2. Chair also asked people to mute the microphone when not speaking.
6. **Comment Resolution**
   1. **Robert Stacey (Intel) presented the current status of comment resolution based on the comment resolution spreadsheet 11-19-0292-14.**
      1. AckPolicy related comments:
         1. CID 20152: The resolution was changed from REVISED to ACCEPTED.
         2. CID 20156: Suggested change has already implemented in D4.2.
         3. CID 20124: The reference 18/1474 is revisited.
         4. CID 20239, Re: Table 9-321(b): There was a comment that current resolution is not enough.
         5. CID 20545: There was a discussion related to the bit order of the field.
         6. Robert suggested offline works for the rest of CIDs.
   2. **Po-Kai Huang (Intel) presented “11ax D4.2 MAC Comment Resolution for NAV part II,” based on the submission 11-19-1014-01.**
      1. Summary
         1. Resolutions for the comments on the NAV specification in the IEEE 802.11ax D4.0 with following CIDs are proposed.
            1. CIDs: 20188, 21599, 20189, 21600, 20190, 21601.
      2. Discussion
         1. There was a commnet that the restriction of “non-AP” is not necessaey. The commenter also mentioned that proposed text is confusing.
         2. Based on the suggestion from a me\mber, the NOTE was updated.
      3. Next Step
         1. The document was promptly updated and Po-Kai will upload the new version.
         2. All CIDs are ready for motion.
7. **AoB**
   1. No other business to conduct in 5 minutes.
8. **Adjournment**
   1. TGax teleconference adjourned @ 11:55 AM (ET)
9. **List of Attendees**

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| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Mark Hamilton | ARRIS/Ruckus |
| 3 | Po-Kai Huang | Intel |
| 4 | Yasuhiko Inoue | NTT |
| 5 | Jeongki Kim | LG Electronics |
| 6 | Mark Rison | Samsung |
| 7 | Robert Stacey | Intel |
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