IEEE P802.11  
Wireless LANs

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| IEEE 802.11  Minutes of TGax CRC Weekly Teleconferences April 2020 | | | | |
| Date: 2020-04-09 | | | | |
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Abstract

This document contains the minutes from the TGax teleconferences in April, 2020.

Revision History:

* R0: Initial version.
  + Minutes of TGax CRC call on April 2nd, 2020.

**Thursday, April 2nd, 2020, TGax CRC Teleconference (20:00 - 23:00 ET)**

1. **The meeting called to order at 20:05 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
   1. Introduction of TGax chairperson and secretary.
   2. The agenda document 20/0538r2 is on the server.
2. **Attendees**
   1. Osama Aboul-Magd (Huawei Technologies)
   2. Tomoko Adachi (Toshiba)
   3. Alfred Asterjadhi (Qualcomm)
   4. Stephane Baron (Canon)
   5. Cheng Chen (Intel)
   6. George Cherian (Qualcomm)
   7. Liwen Chu (NXP)
   8. Sean Coffey (RealTek)
   9. Claudio da Silva (Intel)
   10. Thomas Derham (Broadcom)
   11. Matthew Fischer (Broadcom)
   12. Lili Herveu (CableLabs)
   13. Po-Kai Huang (Intel)
   14. Yasuhiko Inoue (NTT)
   15. Feng Jiang (Intel)
   16. Srinivas Kandala (Samsung)
   17. Jarkko Kneckt (Apple)
   18. Qinghua Li (Intel)
   19. Pooya Monajemi (Cisco Systems)
   20. Leo Montreuil (Broadcom)
   21. Abhishek Patil (Qualcomm)
   22. Al Petrick (InterDigital)
   23. Jon Rosdahl (Qualcomm)
   24. Sigurd Schelstraete (Quantenna)
   25. Yongho Seok (MediaTek)
   26. Robert Stacey (Intel)
   27. Bo Sun (ZTE)
   28. Bin Tian (Qualcomm)
   29. Pascal Viger (Canon)
   30. Aiguo Yan (Oppo)
   31. Ross Jian Yu (Huawei Technologies)
   32. Jiayin Zhang (Huawei Technologies)
   33. Yan Zhang (NXP)
3. **Agenda Setting**
   1. Proposed agenda for the TGax Teleconference on March 16th, 2020.
      1. Call meeting to order
      2. IEEE-SA IPR policy and Procedure
      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. Motions related to the submission discussed last week
         1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0297-00-00ax-cr-for-7-cids.docx> - Jarkko Kneckt
         2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0369-02-00ax-cr-cid-24054.docx> - Po-Kai Huang
         3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0352-01-00ax-cr-d6-0-he-phy-service-interface.docx> - Bo Sun
         4. <https://mentor.ieee.org/802.11/dcn/20/11-20-0348-01-00ax-mac-cr-misc-cids-in-clause-3.docx> - Alfred Asterjadhi
         5. <https://mentor.ieee.org/802.11/dcn/20/11-20-0349-00-00ax-mac-cr-misc-cids-in-clause-10.docx> - Alfred Asterjadhi
         6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0315-02-00ax-resolution-for-cids-related-to-multiple-bssid.docx>   - Abhishek Patil
         7. [https://mentor.ieee.org/802.11/dcn/20/11-20-0316-02-00ax-resolution-for-cids-related-to-bss-color.docx](https://mentor.ieee.org/802.11/dcn/20/11-20-0316-00-00ax-resolution-for-cids-related-to-bss-color.docx)  – Abhishek Patil
         8. <https://mentor.ieee.org/802.11/dcn/20/11-20-0318-01-00ax-resolution-for-cids-related-to-uora.docx> – Abhishek Patil
         9. <https://mentor.ieee.org/802.11/dcn/20/11-20-0445-01-00ax-mac-cr-misc-cids-in-clause-9.docx> – Alfred Asterjadhi
         10. <https://mentor.ieee.org/802.11/dcn/20/11-20-0317-02-00ax-resolution-for-misc-cids.docx> – Abhishek Patil
      5. CR Submissions
         1. [https://mentor.ieee.org/802.11/dcn/20/11-20-0447-00-00ax-resolution-to-cid-24081.docx – Tomo Adachi](https://mentor.ieee.org/802.11/dcn/20/11-20-0514-00-00ax-11ax-draft-6-0-phy-comment-resolutions.docx)
         2. [https://mentor.ieee.org/802.11/dcn/20/11-20-0497-01-00ax-misc-cr-on-d6-0.doc – Ross Yu Jian](https://mentor.ieee.org/802.11/dcn/20/11-20-0514-00-00ax-11ax-draft-6-0-phy-comment-resolutions.docx)
         3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0514-00-00ax-11ax-draft-6-0-phy-comment-resolutions.docx> – Yan Zhang
         4. <https://mentor.ieee.org/802.11/dcn/20/11-20-0376-01-00ax-cr-txvector-inactive-subchannels-and-more.docx-> Matt Fischer
         5. <https://mentor.ieee.org/802.11/dcn/18/11-18-0218-08-00ax-fragment-flushing-blockackreq.docx> - Matt Fischer
         6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0529-00-00ax-cr-24235-24236-psr-20-mhz-normalization.docx> - Matt Fischer
         7. 11-20/0450 MAC-CR-Miscellaneous CIDs in Subclause 26dot17 – Alfred Asterjadhi
         8. <https://mentor.ieee.org/802.11/dcn/20/11-20-0540-00-00ax-d6-0-phy-cr.docx> - Youhan Kim
         9. <https://mentor.ieee.org/802.11/dcn/20/11-20-0549-00-00ax-d6-0-comment-resolution-9-7-3.docx> - Liwen Chu
      6. AoB
      7. Adjourn
   2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
      1. **The agenda for the TGax teleconference on March 26th, 2020 is approved.**
4. **Announcements**
   1. Chair asked the attendees to announce name and the affiliation when addressing the group for the first time during a meeting slot.
   2. Attendance: Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd ([Osama.aboulmagd@huawei.com](mailto:Osama.aboulmagd@huawei.com)). Thanks to Jon Rosdahl, the IMAT is also available to record the attendance.
   3. Chair asked people to put the cellphone mute of switch off.
5. **IEEE 802 and 802.11 IPR policy and procedure**
   1. Patent Policy:
   2. Participants have a duty to inform the IEEE - done.
      * Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
      * Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims
   3. Ways to inform IEEE: - done
      * Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
      * Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      * Speak up now and respond to this Call for Potentially Essential Patents
      * If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
      1. Chair asked if anyone in this meeting is aware of any potentially essential patents.
         1. **No potentially essential patent reported.**
   4. Other guidelines for IEEE WG meetings – done
   5. Patent-related information – done
   6. Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct - done
   7. Participants in the IEEE-SA “individual process” shall act independently of others, including employers - done
   8. IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints - done
6. **Motions related to the submissions discussed last week**
   1. **CR Motion #1006: Move to approve resolutions to CIDs 24523 in doc 11-20/0297r3.**
      1. Moved by Jarkko Kneckt, Seconded by Alfred Asterjadhi
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
   2. **CR Motion #1007: Move to approve resolutions to CIDs 24054 in doc 11-20/0369r6.**
      1. Moved by Po-Kai Huang, Seconded by Alfred Asterjadhi
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
   3. **CR Motion #1008: Move to accept resolutions to CIDs 24048, 24138, 24178, 24180, 24187, 24294, 24397, 24455, 24456, 24498, 24499, 24549 in doc 11-20/0352r2.**
      1. Moved by Bo Sun, Seconded by Ross Jian Yu
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
   4. **CR Motion #1009: Move to accept resolutions to CIDs 24164, 24026, 24382, 24383 in doc 11-20/0318r2.**
      1. Moved by Abhishek Patil, Seconded by Alfred Asterjadhi
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
   5. **CR Motion #1010: Move to accept resolutions to CIDs 24272, 24273, 24274 in doc 11-20/0348r2.**
      1. Moved by Alfred Asterjadhi, Seconded by Abhishek Patil
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
   6. **CR Motion #1011: Move to accept resolutions to CIDs 24021, 24135, 24423 in doc 11-20/0349r1.**
      1. Moved by Alfred Asterjadhi, Seconded by Abhishek Patil
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
   7. **CR Motion #1012: Move to accept resolutions to CIDs 24299, 24361, 24421, 24422, 24464, 24493 in doc 11-20/0445r1.**
      1. Moved by Alfred Asterjadhi, Seconded by Abhishek Patil
      2. Discussion – no discussion.
      3. **Result: Approved by unanimous consent.**
7. **CR submissions**
   1. **Tomoko Adachi (Tos**h**iba) presented “Resolution to CID 24081,” based on the submission 11-20-0447-00.**
      1. Summary
         1. The resolution for the comments with CID 24081 related to the IEEE 802,11ax D6.0 is proposed.
            1. Re: UPLINK\_FLAG.
      2. Discussion
         1. CID 24081: Although the proposal is to change the name of UPLINK\_FLAG, some people are not happy with it. A participant mentioned that the name basically should represent the function, however it is not always the case. There was a comment not to use “MAY” in a name.
      3. Next Step
         1. More offline discussion.
   2. **Ross Jian Yu (Huawei Technologies) presented “Misc CR on D6.0,” based on the submission 11-20-049-01.**
      1. Summary
         1. Resolutions to the comments with following CIDs related to the PHY section of IEEE 802,11ax D6.0 are proposed.
            1. CIDs: 24105, 24106, 24107, 24175, 24193, 24194, 24195, 24196, 24357, 24358
      2. Discussion
         1. CID 24193: There was a discussion on the deleted text.
         2. CID 24358: Reason for the rejection was provided by a participant. 🡪 Added to the resolution.
      3. Next Step
         1. To be approved in the next TGax CRC call.
   3. **Yan Zhang (NXP Semiconductor) presented “11ax Draft 6.0 PHY Comment Resolutions,” based on the submission 11-20-0514-01.**
      1. Summary
         1. Resolutions to the comments with following CIDs related to the PHY section of IEEE 802,11ax D6.0 are proposed.
            1. CIDs: 24182, 24323, 24183, 24184, 24314, 24315, 24316, 24317, 24197, 24322, 24330, 24198, 24199, 24200, 24201, 24202, 24203, 24204
      2. Discussion
         1. CID 24182: Regarding the NO\_SIG\_EXTN, the group discussed the VHT PPDU case. There was a comment that current text is good enough.
         2. CID 24183: The group discussed subcarrier index. Additional text for clarification was suggested.
         3. CID 24183: The resolution was updated. R1 of this document was created.
      3. Next Step
         1. There will be a motion to approve the resolution in the next TGax CRC call.
   4. **Matthew Fischer (Broadcom) presented “CR TXVECTOR INACTIVE SUBCHANNELS and more,” based on the submission 11-20-0376-01.**
      1. Summary
         1. Resolutions to the comments with following CIDs related to the INACTIVE\_SUBCHANNELS parameter in the TXVECTOR and a few others defined in the IEEE 802,11ax D6.0 are proposed.
            1. CIDs: 24028, 24041, 24043, 24281, 24271
      2. Discussion
         1. CID 24281: The group discussed what exactly the non-HE PPDU means.
         2. CID 24271: The group discussed TDLS case. There was a long discussion and the chairperson suggested more offline work.
      3. Next Step
         1. More offline discussions.
   5. **Matthew Fischer (Broadcom) presented “CR 24235 24236 PSR 20 MHz Normalization,” based on the submission 11-20-0529-01.**
      1. Summary
         1. Resolutions to the comments with following CIDs related to the PSR 20 MHz normalization description defined in the IEEE 802,11ax D6.0 are proposed.
            1. CIDs: 24235, 24236
      2. Discussion
         1. CID 24235: Clarification of NON\_VHT\_CBW20 was discussed. Some people are not comfortable with the text saying “PSDU carries PPDU.”
         2. CID 24236: Need clarification about the non-HE NDP in this context.
      3. Next Step
         1. Need more time.
   6. **Matthew Fischer (Broadcom) presented “Fragment Flushing BlockAckReq,” based on the submission 11-20-0218-08.**
      1. Summary
         1. Resolutions to the comments with following CIDs related to the Fragment Flushing BlockAckReq defined in the IEEE 802,11ax D6.0 are proposed.
            1. CIDs: 24267:
      2. Discussion
         1. CID 24267: A participant asked for more time to review the document. He does not see any technical benefit.
      3. Next Step
         1. Need more time.
8. **AoB**
   1. Time is up.
9. **Adjourn**
   1. TGax teleconference adjourned @ 22:58 (ET).