IEEE P802.11  
Wireless LANs

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| TGbe May July Teleconference Minutes | | | | |
| Date: 2023-06-07 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jason Yuchen Guo | Huawei |  |  | guoyuchen@huawei.com |
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|  |  |  |  |  |

Abstract

This document contains the minutes for the IEEE 802.11 TGbe teleconferences from May 2023 to July 2023.

Revision history:

* Rev0: initial version of the document

Abbreviations:

* C: Comment.
* A: Answer.

# 1st Conf. Call: May 31 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://

# 2nd Conf. Call: June 07 (10:00–12:00 ET)–JOINT

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order
* Jason Yuchen Guo (Huawei) is serving as the Secretary
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto: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. **Nobody speaks/writes up**.

* + **Copyright Policy: Participants are advised that**
    - IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
    - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
    - **Copyright Policy was presented.**
  + **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please record your attendance during the conference call by using the IMAT system:
    - 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “<Joint TGbe > conference call that you are attending.
  + If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Jason Y. Guo ([guoyuchen@huawei.com](mailto:guoyuchen@huawei.com)) and Alfred Asterjadhi ([asterjadhi@gmail.com](mailto:asterjadhi@gmail.com))
  + Please ensure that the following information is listed correctly when joining the call:
    - "[voter status] First Name Last Name (Affiliation)"
  + Attendee List

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (Joint) | 6/7 | AbidRabbu, Shaima' | Istanbul Medipol University; Vestel |
| TGbe (Joint) | 6/7 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (Joint) | 6/7 | Ajami, Abdel Karim | Qualcomm Technologies, Inc |
| TGbe (Joint) | 6/7 | Baykas, Tuncer | Ofinno |
| TGbe (Joint) | 6/7 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (Joint) | 6/7 | Chen, You-Wei | MediaTek Inc. |
| TGbe (Joint) | 6/7 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (Joint) | 6/7 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (Joint) | 6/7 | Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| TGbe (Joint) | 6/7 | Erkucuk, Serhat | Ofinno |
| TGbe (Joint) | 6/7 | Fang, Juan | Intel |
| TGbe (Joint) | 6/7 | Fang, Yonggang | Mediatek |
| TGbe (Joint) | 6/7 | GUIGNARD, Romain | Canon Research Centre France |
| TGbe (Joint) | 6/7 | Gupta, Binita | Meta Platforms, Inc. |
| TGbe (Joint) | 6/7 | Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) |
| TGbe (Joint) | 6/7 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (Joint) | 6/7 | Huang, Po-Kai | Intel |
| TGbe (Joint) | 6/7 | Jang, Insun | LG ELECTRONICS |
| TGbe (Joint) | 6/7 | Jung, Insik | LG ELECTRONICS |
| TGbe (Joint) | 6/7 | Kim, Geon Hwan | LG ELECTRONICS |
| TGbe (Joint) | 6/7 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 6/7 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (Joint) | 6/7 | Lanante, Leonardo | Ofinno |
| TGbe (Joint) | 6/7 | Li, Weiyi | Spreadtrum |
| TGbe (Joint) | 6/7 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (Joint) | 6/7 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (Joint) | 6/7 | Nayak, Peshal | Samsung Research America |
| TGbe (Joint) | 6/7 | Ng, Boon Loong | Samsung Research America |
| TGbe (Joint) | 6/7 | Park, Sungjin | Senscomm |
| TGbe (Joint) | 6/7 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (Joint) | 6/7 | Petrick, Albert | InterDigital, Inc. |
| TGbe (Joint) | 6/7 | Qi, Yue | Samsung Research America |
| TGbe (Joint) | 6/7 | Quan, Yingqiao | Spreadtrum |
| TGbe (Joint) | 6/7 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (Joint) | 6/7 | Shirakawa, Atsushi | SHARP CORPORATION |
| TGbe (Joint) | 6/7 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 6/7 | Sun, Bo | Sanechips |
| TGbe (Joint) | 6/7 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (Joint) | 6/7 | Tsodik, Genadiy | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 6/7 | VIGER, Pascal | Canon Research Centre France |
| TGbe (Joint) | 6/7 | Wang, Qi | Apple, Inc. |
| TGbe (Joint) | 6/7 | Wei, Dong | NXP Semiconductors |
| TGbe (Joint) | 6/7 | Wu, Tianyu | Apple, Inc. |
| TGbe (Joint) | 6/7 | Wullert, John | Peraton Labs |
| TGbe (Joint) | 6/7 | Xia, Qing | Sony Corporation |
| TGbe (Joint) | 6/7 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (Joint) | 6/7 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (Joint) | 6/7 | Yoon, Yelin | LG ELECTRONICS |
| TGbe (Joint) | 6/7 | Zaman, Malia | IEEE Standards Association (IEEE-SA) |

* Announcements:
  + TGbe Agendas for MAC ad-hoc & July Plenary posted: [23/921r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0921-00-00be-july-mac-adhoc-agenda.docx), & [23/919r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0919-00-00be-tgbe-july-2023-meeting-agenda.pptx)
    - This is an early call for submissions: Please obtain a DCN and send a request to be added to the queues (include estimated #CIDs); the earliest the docs are uploaded the better (early review, green tagging, etc). Eventually indicate preference (Ad-hoc or plenary, or earlier).
* Agenda
  + CR Submissions:
    - [630r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0630-02-00be-lb-271-cr-for-35-7-2-part-ii.docx) CR for 35.7.2 Part II Zinan Lin [SP 1C]
    - [728r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0728-02-00be-lb271-cr-for-35-15-2.docx) CR for 35 15 2 Yanjun Sun [SP 5C]
    - [823r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0823-00-00be-lb-271-cr-for-35-7-3-part-i.docx) CR for 35.7.3 Part I Zinan Lin [20C]
    - [969r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0969-00-00be-lb271-cr-for-cids-on-trigger-frame-puncturing-and-edca.docx) CR for CIDs on Trigger frame puncturing and EDCA Yanjun Sun [25C]
  + MAC CR Submissions:
    - [395r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0395-04-00be-cr-for-35-3-19.docx) CR for 35.3.19 Kaiying Lu [SP 1C]
    - [590r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0590-04-00be-lb271-cr-for-cids-in-35-3-7-1-x.docx) CR for CIDs in 35.3.7.1.x Laurent Cariou [SP XC]
    - [627r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0627-04-00be-lb271-cr-for-subclause-35-3-1.docx) CR for subclause 35.3.1 Ming Gan [SP 3C]
    - [638r3](https://mentor.ieee.org/802.11/dcn/23/11-23-0638-03-00be-lb271-cr-for-subclause-35-3-15-part-1.docx) CR for Subclause 35.3.15-Part 1 Ming Gan [SP 4C]
    - [366r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0366-04-00be-lb271-cr-35-3-18-part-2.docx) CR 35.3.18 part 2 Liwen Chu [SP 5C]
    - [738r5](https://mentor.ieee.org/802.11/dcn/23/11-23-0738-05-00be-lb271-cr-for-clause-35-3-7-4-2-part-2.docx) CR for Clause 35.3.7.4.2 - Part 2 Arik Klein [SP 1C]
  + Discussions
    - None
  + Agenda approved with unanimous consent
* **Technical contributions**
  + [630r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0630-02-00be-lb-271-cr-for-35-7-2-part-ii.docx) CR for 35.7.2 Part II Zinan Lin

C: Agree with the comment that these paragraphs are redundant. Prefer option 2.

C: Just to confirm, both options are technically identical?

A: Yes.

The chair asked if there’s any objection from the group of removing the repetitives.

No objection.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/0630r2 under option 2 and incorporate the text changes into the latest TGbe draft?

         17048

Discussion: None.

Result: No objection.

* + [728r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0728-02-00be-lb271-cr-for-35-15-2.docx) CR for 35 15 2 Yanjun Sun

C: can AP use both elements to indicate?

A: Yes, AP can use both.

C: for the channel switch wrapper element, we don’t need to carry it, STAs should be able to get the information from the Beacon.

C: Even for the AP side, the AP may not have info for the target channel.

C: the “shall” is a little strong at the AP side

C: The channel switch wrapper element is a good solution. For NSTR mobile AP MLD, the alternative solution does not work.

C: For regular AP MLD, the simple way is to let the STA switch channel and listen. We need to avoid Beacon bloating.

A: It’s just a transient event.

C: We have already have a way to solve this problem, why do we add another method at this stage?

A: If we don’t include the channel switch wrapper element, we will not be able to achieve the channel switch function.

C: We have already have the minimum information needed (e.g., channel number), which is enough.

A: The spirit of the channel switch function is to provide the same information of the target link. We just missed one element, need to add it back.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/0728r2 and incorporate the text changes into the latest TGbe draft?

         17998

Discussion: Guogang asked for further discussion on this topic.

SP deferred.

* + [823r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0823-00-00be-lb-271-cr-for-35-7-3-part-i.docx) CR for 35.7.3 Part I Zinan Lin

C: for 17060, mandating tb sounding for 2 or more STAs does not mean it is prohibited for the single STA case. I think it is allowed for a single STA, no?

A: No, it is not allowed to use the TB sounding for a single STA.

C: what’s the reason for disallowing that?

A: to simplify the modes.

C: in that case, we need some sentence to clarify that.

A: we already have a sentence saying the NDPA shall have at lease two STA Info fields to initiate a TB sounding sequence.

C: Junghoon is OK with the resolution after checking the corresponding text.

C: CID 17256, the resolution is referring to another CID which is not in this document, could you point out which document does that CID belong to?

A: The CID should be 17257.

A: Then the resolution should be revised.

C: for 17060, the resolution language may be misleading, the non-TB sounding can not allow MU sounding feedback.

C: we can discuss in uhr whether to allow MU feedback for non-TB sounding.

The chair asked if there’s any objection of keeping the current resolution.

No objection.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/0823r1 and incorporate the text changes into the latest TGbe draft?

        17057, 17058, 17059, 17256, 17257, 16670, 17060, 17062, 15578, 17061, 17063, 17985, 17986, 17064, 17065, 17066, 17274, 17067, 17258, 17068

Discussion: None.

Result: No objection.

* + [969r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0969-00-00be-lb271-cr-for-cids-on-trigger-frame-puncturing-and-edca.docx) CR for CIDs on Trigger frame puncturing and EDCA Yanjun Sun

C: for 2046, do we still need it for EHT variant?

A: No.

C: we don’t need to say HE/EHT TB PPDU, just use TB PPDU.

C: an should be a.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/0969r1 and incorporate the text changes into the latest TGbe draft?

        15721,17016,15759,15901,16128,15902,15502,15657,17325,15663,15002,17812,16735,17813,16737,17814,18301,17816,17817,16738,18007,17234,18008,17025,17026

Discussion: None.

Result: No objection.

* + Agenda discussion

The chair asked if Kaiying can finish her SP in the remaining time.

No response.

The chair asked if Laurent can finish his SP in the remaining time.

Laurent said the time is too short.

Thair asked if Ming can finish any of his two SPs.

Ming said he can try the first one.

* + [627r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0627-04-00be-lb271-cr-for-subclause-35-3-1.docx) CR for subclause 35.3.1 Ming Gan

C: please clarify AP1 and AP2 are affiliated with the same AP MLD.

C: CID 15177, operate with only one non-AP STA does not make sense.

SP scheduled to be run on the next MAC call.

* AoB: None
* Recessed at 12:02

# 3rd Conf. Call: June 08 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://

# 4th Conf. Call: June 12 (19:00–21:00 ET)–MAC

Please refer to the following link for the minutes

* https://

# 4th Conf. Call: June 12 (19:00–21:00 ET)–PHY

* Cancelled

# 5th Conf. Call: June 14 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://

# 6th Conf. Call: June 21 (10:00–12:00 ET)–JOINT

# 7th Conf. Call: June 26 (19:00–21:00 ET)–MAC

Please refer to the following link for the minutes

* https://

# 7th Conf. Call: June 26 (19:00–21:00 ET)–PHY

Please refer to the following link for the minutes

* https://

# 8th Conf. Call: June 28 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://

# TGbe July 2023 MAC ad-hoc meetings

Please refer to the following link for the minutes

* https://