IEEE P802.11  
Wireless LANs

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| TGbe Sept-Nov Teleconference Minutes | | | | |
| Date: 2022-10-12 | | | | |
| 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 September to November 2022.

Revision history:

* Rev0: initial version of the document

Abbreviations:

* C: Comment.
* A: Answer.

# 1st Conf. Call: September 26 (19:00–21:00 ET)–PHY

Please refer to the following link for the minutes

* https://mentor.ieee.org/802.11/dcn/22/11-22-1667-00-00be-minutes-802-11be-phy-ad-hoc-september-to-november-conference-calls.docx

# 1st Conf. Call: September 26 (19:00–21:00 ET)–MAC

Please refer to the following link for the minutes

* https://mentor.ieee.org/802.11/dcn/22/11-22-1668-00-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-september-and-november-2022.docx

# 2nd Conf. Call: September 28 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* to be added

# 3rd Conf. Call: October 12 (10:00–12:00 ET)–JOINT

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order
* 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) | 10/12 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (Joint) | 10/12 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (Joint) | 10/12 | Asterjadhi, Alfred | Qualcomm Incorporated |
| TGbe (Joint) | 10/12 | Baek, SunHee | LG ELECTRONICS |
| TGbe (Joint) | 10/12 | Bahn, Christy | IEEE STAFF |
| TGbe (Joint) | 10/12 | baron, stephane | Canon Research Centre France |
| TGbe (Joint) | 10/12 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (Joint) | 10/12 | Cao, Rui | NXP Semiconductors |
| TGbe (Joint) | 10/12 | Carney, William | Sony Group Corporation |
| TGbe (Joint) | 10/12 | Chen, You-Wei | MediaTek Inc. |
| TGbe (Joint) | 10/12 | Cheng, Xilin | NXP Semiconductors |
| TGbe (Joint) | 10/12 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (Joint) | 10/12 | CHERIAN, GEORGE | Qualcomm Incorporated |
| TGbe (Joint) | 10/12 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (Joint) | 10/12 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (Joint) | 10/12 | Chung, Chulho | SAMSUNG |
| TGbe (Joint) | 10/12 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (Joint) | 10/12 | Duan, Ruchen | SAMSUNG |
| TGbe (Joint) | 10/12 | Erkucuk, Serhat | Ofinno |
| TGbe (Joint) | 10/12 | Fan, Shuang | ZTE Corporation |
| TGbe (Joint) | 10/12 | Fang, Yonggang | Mediatek |
| TGbe (Joint) | 10/12 | Fischer, Matthew | Broadcom Corporation |
| TGbe (Joint) | 10/12 | Fujimori, Yuki | Canon Research Centre France |
| TGbe (Joint) | 10/12 | Ghosh, Chittabrata | Meta Platforms; PWC, LLC |
| TGbe (Joint) | 10/12 | Gorthi, Hemamali | Infineon Technologies |
| TGbe (Joint) | 10/12 | Gu, Xiangxin | Unisoc |
| TGbe (Joint) | 10/12 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 10/12 | Haider, Muhammad Kumail | Facebook |
| TGbe (Joint) | 10/12 | Handte, Thomas | Sony Corporation |
| TGbe (Joint) | 10/12 | Hart, Brian | Cisco Systems, Inc. |
| TGbe (Joint) | 10/12 | Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) |
| TGbe (Joint) | 10/12 | Hu, Chunyu | Facebook |
| TGbe (Joint) | 10/12 | Huang, Lei | Huawei International Pte Ltd |
| TGbe (Joint) | 10/12 | Huang, Po-Kai | Intel |
| TGbe (Joint) | 10/12 | Huq, Kazi Mohammed Saidul | Ofinno |
| TGbe (Joint) | 10/12 | Jang, Insun | LG ELECTRONICS |
| TGbe (Joint) | 10/12 | Jung, Insik | LG ELECTRONICS |
| TGbe (Joint) | 10/12 | Kain, Carl | USDoT; Noblis, Inc. |
| TGbe (Joint) | 10/12 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (Joint) | 10/12 | Kim, Jeongki | Ofinno |
| TGbe (Joint) | 10/12 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (Joint) | 10/12 | Kim, Sanghyun | WILUS Inc |
| TGbe (Joint) | 10/12 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (Joint) | 10/12 | Ko, Geonjung | WILUS Inc. |
| TGbe (Joint) | 10/12 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (Joint) | 10/12 | Lanante, Leonardo | Ofinno |
| TGbe (Joint) | 10/12 | Levy, Joseph | InterDigital, Inc. |
| TGbe (Joint) | 10/12 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (Joint) | 10/12 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (Joint) | 10/12 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (Joint) | 10/12 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (Joint) | 10/12 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (Joint) | 10/12 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (Joint) | 10/12 | MAO, ZHI | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 10/12 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 10/12 | Mehrnoush, Morteza | Facebook |
| TGbe (Joint) | 10/12 | NANDAGOPALAN, SAI SHANKAR | Synaptics |
| TGbe (Joint) | 10/12 | Nayak, Peshal | Samsung Research America |
| TGbe (Joint) | 10/12 | Nezou, Patrice | Canon Research Centre France |
| TGbe (Joint) | 10/12 | Ng, Boon Loong | Samsung Research America |
| TGbe (Joint) | 10/12 | Orr, Stephen | Cisco Systems, Inc. |
| TGbe (Joint) | 10/12 | Ouchi, Masatomo | Canon |
| TGbe (Joint) | 10/12 | Park, Minyoung | Intel |
| TGbe (Joint) | 10/12 | Park, Sungjin | Senscomm |
| TGbe (Joint) | 10/12 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (Joint) | 10/12 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (Joint) | 10/12 | Qi, Yue | Samsung Research America |
| TGbe (Joint) | 10/12 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (Joint) | 10/12 | Schelstraete, Sigurd | MaxLinear |
| TGbe (Joint) | 10/12 | Sevin, Julien | Canon Research Centre France |
| TGbe (Joint) | 10/12 | Shafin, Rubayet | Samsung Research America |
| TGbe (Joint) | 10/12 | Shellhammer, Stephen | Qualcomm Incorporated |
| TGbe (Joint) | 10/12 | Sherlock, Ian | Texas Instruments Inc. |
| TGbe (Joint) | 10/12 | Shirakawa, Atsushi | SHARP CORPORATION |
| TGbe (Joint) | 10/12 | Stanley, Dorothy | Hewlett Packard Enterprise |
| TGbe (Joint) | 10/12 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 10/12 | Taori, Rakesh | Infineon Technologies |
| TGbe (Joint) | 10/12 | Tsujimaru, Yuki | Canon Inc. |
| TGbe (Joint) | 10/12 | Varshney, Prabodh | Nokia |
| TGbe (Joint) | 10/12 | Verenzuela, Daniel | Sony Corporation |
| TGbe (Joint) | 10/12 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (Joint) | 10/12 | Wang, Hao | Tencent |
| TGbe (Joint) | 10/12 | Wang, Qi | Apple, Inc. |
| TGbe (Joint) | 10/12 | Wei, Dong | NXP Semiconductors |
| TGbe (Joint) | 10/12 | Wullert, John | Peraton Labs |
| TGbe (Joint) | 10/12 | Yang, Jay | Nokia |
| TGbe (Joint) | 10/12 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (Joint) | 10/12 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (Joint) | 10/12 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

* Announcements:
  + POCs are requested to perform a status check of CR documents/pending CIDs.
  + CIDs in quarantine (see [984r14](https://mentor.ieee.org/802.11/dcn/20/11-20-0984-14-00be-tgbe-teleconference-guidelines.docx) for guidelines, and [971r24](https://mentor.ieee.org/802.11/dcn/22/11-22-0971-24-00be-ieee-802-11be-lb266-comments.xlsx) for latest LB266 database) will start to be added to quarantine motions from this Friday, 14th of October 2022.
* Agenda
  + Technical Submissions**: CRs**
    - [1317r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1317-02-00be-cr-on-cid-10116.docx) CR on CID 10116 Bo Gong [1C-SP 10’]
    - [1565r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1565-01-00be-lb266-cr-for-uora.docx) LB266 CR for UORA Greg Geonjung Ko [8C-SP 10’]
    - [1531r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1531-00-00be-lb266-cr-for-cid-14051.docx) CR for CID 14051 Ruchen Duan [1C 15’]
    - [1468r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1468-00-00be-cr-for-cids-in-35-7.docx) CR for CIDs in 35.7 Zinan Lin [5C 15’]
    - [1726r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1726-00-00be-lb266-cr-for-cid-12064.docx) CR for CID 12064 Leonardo Lanante [1C 10’]
    - *Any CRs from MAC queues?*
  + Technical Submissions:
    - [1423r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1423-00-00be-eht-smps.docx) EHT SMPS Xiaogang Chen [PDT 15’]
  + Discussions
    - 1307r2 was requested to be added to the SP list
    - 1509r3 from MAC was requested to be added to the contribution list
  + Agenda approved with unanimous consent
* Technical Submissions**: CRs**
  + [1317r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1317-02-00be-cr-on-cid-10116.docx) CR on CID 10116 Bo Gong

C: Regarding the last comment, the figure is not applicable to the solicited MFB

C: Defer the SP for offline discussion.

C: the current text in this document does not touch the SP regarding defining EHT link adaptation in R2.

The presenter decides to run the SP.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1317r2 and incorporate the text changes into the latest TGbe draft?

         10116, 11677, 10788, 13535

Discussion: None.

Result: 31Y, 19N, 42A

* + [1565r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1565-01-00be-lb266-cr-for-uora.docx) LB266 CR for UORA Greg Geonjung Ko

C: if we use HE RA RU, we don’t need to care about the fairness issue, hence I still think using the HE RA RU is a better choice.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1565r1 and incorporate the text changes into the latest TGbe draft?



Discussion: None.

Result: 29Y, 20N, 27A

* + 1307r2 cr-for-9.3.1.19-part1 Jinyoung Chun

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1307r2 and incorporate the text changes into the latest TGbe draft?

         11683

Discussion: None.

Result: No objection.

* + [1531r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1531-00-00be-lb266-cr-for-cid-14051.docx) CR for CID 14051 Ruchen Duan

C: we should be really careful adding this change to the BlockAck at this stage.

C: I think we may find a simple method, e.g., BA can be aggregated with QoS null frame as an A-MPDU in a single PPDU.

No SP was run.

* + [1468r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1468-00-00be-cr-for-cids-in-35-7.docx) CR for CIDs in 35.7 Zinan Lin

C: in the NOTE in P506L26, change “is” to “might”

C:11274, the resolution should be revised since the modification is not exactly the same as the proposed change.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1468r1 and incorporate the text changes into the latest TGbe draft?

        11274, 11275, 11663, 11669, 11670

Discussion: None.

Result: No objection.

* + [1726r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1726-00-00be-lb266-cr-for-cid-12064.docx) CR for CID 12064 Leonardo Lanante

C: in the baseline spec, we have languages describing that multiple links can access independently, I think the languages here can be largely simplified.

C: using a note will be a better choice.

C: Agree with Yanjun, we can have simplified languages.

* + 1509r3 MLD Load Balancing Pooya Monajemi

C: there are several changes, better to outline what are the mandatory behaviors, how negoatiable is this really? If AP strongly suggest, how would the sequence go?

C: what happens if the non-AP STA declines?

C: we’ve already have a scheme for load balancing which is BTM where STA does not have flexibility, the proposed scheme is a more balanced one.

C: the name of the field “Priority” is not very clear, “negotiability” could be better.

C: Table 9-xx1, last collum, need to remove the broadcast part.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1509r4 and incorporate the text changes into the latest TGbe draft?

        14055, 10488, 11106, 11108, 11763, ~~12632~~

Discussion: None.

Result: 52Y, 34N, 28A

* Adjourned at 11:58

# 4th Conf. Call: October 13 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* to be added

# 5th Conf. Call: October 17 (19:00–21:00 ET)–PHY

Please refer to the following link for the minutes

* to be added

# 5th Conf. Call: October 17 (19:00–21:00 ET)–MAC

Please refer to the following link for the minutes

* to be added

# 6th Conf. Call: October 19 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* to be added