IEEE P802.11  
Wireless LANs

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| TGbe January March Teleconference Minutes | | | | |
| Date: 2024-02-28 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
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Abstract

This document contains the minutes for the IEEE 802.11 TGbe teleconferences from January 2024 to March 2024.

Revision history:

* Rev0: initial version of the document
* Rev1: add the attendee list for the Feb. 28 joint call and the link for the Feb. 07 PHY call
* Rev2: add the links for the MAC ad hoc meetings

Abbreviations:

* C: Comment.
* A: Answer.

# 1st Conf. Call: February 07 (10:00–12:00 ET)–PHY

Please refer to the following link for the minutes

* https://mentor.ieee.org/802.11/dcn/24/11-24-0283-00-00be-minutes-802-11-be-phy-ad-hoc-conference-calls-jan-mar-2024.docx

# 1st Conf. Call: February 07 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://mentor.ieee.org/802.11/dcn/24/11-24-0269-00-00be-minutes-tgbe-mac-ad-hoc-january-to-march-conference-calls.docx

# 2nd Conf. Call: February 21 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://mentor.ieee.org/802.11/dcn/24/11-24-0269-00-00be-minutes-tgbe-mac-ad-hoc-january-to-march-conference-calls.docx

# 3rd Conf. Call: February 28 (10:00–12:00 ET)–JOINT

* Call 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" \l "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](https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx" \t "_blank)
  + 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) | 2/28 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 2/28 | Bahn, Christy | IEEE STAFF |
| TGbe (Joint) | 2/28 | baron, stephane | Canon Research Centre France |
| TGbe (Joint) | 2/28 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (Joint) | 2/28 | Carney, William | Sony Group Corporation |
| TGbe (Joint) | 2/28 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (Joint) | 2/28 | Chisci, Giovanni | Qualcomm Technologies, Inc |
| TGbe (Joint) | 2/28 | Choi, Jinsoo | LG ELECTRONICS |
| TGbe (Joint) | 2/28 | Chu, Liwen | NXP Semiconductors |
| TGbe (Joint) | 2/28 | Chung, Chulho | SAMSUNG |
| TGbe (Joint) | 2/28 | Das, Subir | Peraton Labs |
| TGbe (Joint) | 2/28 | Fang, Yonggang | Mediatek |
| TGbe (Joint) | 2/28 | Fischer, Matthew | Broadcom Corporation |
| TGbe (Joint) | 2/28 | Gupta, Binita | Cisco Systems, Inc. |
| TGbe (Joint) | 2/28 | Handte, Thomas | Sony Corporation |
| TGbe (Joint) | 2/28 | Helwa, Sherief | Qualcomm Technologies, Inc |
| TGbe (Joint) | 2/28 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (Joint) | 2/28 | Huang, Po-Kai | Intel |
| TGbe (Joint) | 2/28 | Jang, Insun | LG ELECTRONICS |
| TGbe (Joint) | 2/28 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (Joint) | 2/28 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (Joint) | 2/28 | Kim, Geon Hwan | LG ELECTRONICS |
| TGbe (Joint) | 2/28 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 2/28 | Li, Panpan | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 2/28 | Li, Weiyi | Spreadtrum Communication USA, Inc |
| TGbe (Joint) | 2/28 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (Joint) | 2/28 | Lu, kaiying | MediaTek Inc. |
| TGbe (Joint) | 2/28 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 2/28 | Mohanty, Shantidev | Self employed |
| TGbe (Joint) | 2/28 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGbe (Joint) | 2/28 | Palayur, Saju | Maxlinear Inc |
| TGbe (Joint) | 2/28 | Park, Minyoung | Intel |
| TGbe (Joint) | 2/28 | Park, Sungjin | senscomm |
| TGbe (Joint) | 2/28 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (Joint) | 2/28 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (Joint) | 2/28 | Petrick, Albert | InterDigital, Inc. |
| TGbe (Joint) | 2/28 | Quan, Yingqiao | Spreadtrum |
| TGbe (Joint) | 2/28 | Ratnam, Vishnu | Samsung Research America |
| TGbe (Joint) | 2/28 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (Joint) | 2/28 | Schelstraete, Sigurd | MaxLinear |
| TGbe (Joint) | 2/28 | Sosack, Robert | Molex Incorporated |
| TGbe (Joint) | 2/28 | Sun, Bo | Sanechips |
| TGbe (Joint) | 2/28 | Talarico, Salvatore | Sony Corporation |
| TGbe (Joint) | 2/28 | Wang, Qi | Apple Inc. |
| TGbe (Joint) | 2/28 | Wang, Ying | InterDigital, Inc. |
| TGbe (Joint) | 2/28 | Wullert, John | Peraton Labs |
| TGbe (Joint) | 2/28 | Xia, Qing | Sony Corporation |
| TGbe (Joint) | 2/28 | Yang, Jay | ZTE Corporation |
| TGbe (Joint) | 2/28 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (Joint) | 2/28 | Zhao, Yue | Huawei Technologies Co., Ltd |

* Agenda
  + Editor’s Report: [11-24/255r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0255-02-00be-tgbe-editor-s-report-on-initial-sa-ballot.ppt)
  + CR Submissions-Joint:
    - [256r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0256-02-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0.docx) CR for misc. comments on init. SA ballot on D5.0 Edward Au [1C SP]
    - [258r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0258-02-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0-part-2.docx) CR for misc. comments on init. SA ballot on D5.0–p2 Edward Au [1C SP]
    - [313r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0313-00-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0-part-3.docx) CR for misc. comments on init. SA ballot on D5.0–p3 Edward Au [14C]
    - [309r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0309-00-00be-sa-ballot-on-d5-0-resolution-for-tpe-and-trigger-frame.docx) SA ballot on D5.0: Resolution for TPE and Trigger frame Yanjun Sun [4C]
    - [346r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0346-00-00be-initial-sa-ballot-cr-for-cid-22290-on-ndpa-frame-format.docx) Init. SA Ballot CR for CID 22290 on NDPA frame format Mahmoud Kamel [1C]
  + CR Submissions-MAC:
    - [304r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0304-00-00be-d5-0-cr-for-ml-reconfiguration-part-1.docx) D5.0 CR for ML Reconfiguration part 1 Binita Gupta [42C]
    - [289r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0289-00-00be-tgbe-sa1-security-comment-resolutions.docx) TGbe SA1 Security Comment Resolutions Mike Montemurro [12C]
    - [297r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0297-00-00be-tgbe-sa1-resolution-to-cid-22097.docx) TGbe SA1 Resolution to CID 22097 Mike Montemurro [1C]
    - [298r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0298-00-00be-tgbe-sa1-eapol-key-notation-cleanup.docx) TGbe SA1 EAPOL Key notation cleanup Mike Montemurro [1C]
  + Motions (last 20 mins): [11-24/442r39](https://mentor.ieee.org/802.11/dcn/23/11-23-0442-38-00be-tgbe-motions-list-part-4.pptx)
  + Late Confirmations & Re-assignments (if any): [11-24/254r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0254-03-00be-ieee-802-11be-initial-sa-ballot-comments.xlsx)
  + Discussion: None.
  + The agenda is approved with unanimous consent.
* Editor’s Report: [11-24/255r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0255-02-00be-tgbe-editor-s-report-on-initial-sa-ballot.ppt)

The Editor (Edward Au) went through the Editor’s Report.

C: it makes sense to make the MLE to be order 5 since the RSN is added.

C: for the bit 21 of EHT, if it’s tested, then the test needs to be done again.

Need to check if there’s any issue by changing the bit position (B22 for EHT in Neighbor Report element)

C: the change for Table 9-141 should also be suspended, need to check.

* **CR Submissions-Joint:**
  + [256r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0256-02-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0.docx) CR for misc. comments on init. SA ballot on D5.0 Edward Au

C: The PAE is needed for the MLD, but for the STA affiliated with an MLD, is the PAE still needed?

C: change “defined” to “specified” or “indicated”

Note: the SP for this CR doc. will be run together with the following two docs.

* + [258r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0258-02-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0-part-2.docx) CR for misc. comments on init. SA ballot on D5.0–p2 Edward Au

Editorial corrections.

Note: the SP for this CR doc. will be run together with the following doc. and the previous doc.

* + [313r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0313-00-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0-part-3.docx) CR for misc. comments on init. SA ballot on D5.0–p3 Edward Au

C: the “on” is not needed since you have “on which”

C: since there is only one condition, you can remove the bullet “-”

**SP1:** Do you agree to resolve the following CIDs listed in 11-24/256r4 and incorporate the text changes into the latest TGbe draft?

         22219, 22011

Discussion: None.

Result: No objection.

**SP2:** Do you agree to resolve the following CIDs listed in 11-24/258r3 and incorporate the text changes into the latest TGbe draft?

         22366

Discussion: None.

Result: No objection.

**SP3:** Do you agree to resolve the following CIDs listed in 11-24/313r1 and incorporate the text changes into the latest TGbe draft?

         22176, 22306, 22187, 22186, 22265, 22269, 22286, 22370, 22369, 22403, 22409, 22407, 22406, 22003

Discussion: None.

Result: No objection.

* + [346r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0346-00-00be-initial-sa-ballot-cr-for-cid-22290-on-ndpa-frame-format.docx) Init. SA Ballot CR for CID 22290 on NDPA frame format Mahmoud Kamel

Discussion: None.

**SP4:** Do you agree to resolve the following CIDs listed in 11-24/346r0 and incorporate the text changes into the latest TGbe draft?

         22290

Discussion: None.

Result: No objection.

* **CR Submissions-MAC:**
  + [304r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0304-00-00be-d5-0-cr-for-ml-reconfiguration-part-1.docx) D5.0 CR for ML Reconfiguration part 1 Binita Gupta

C: CID 22079, “STA MAC address” should just be “MAC address”

C: CID 22081, since the AP is removed, do we need to have the “shall” statement. Agree it’s true, but do we need it? This CID is deferred.

C: CID 22272, “affiliated with an AP MLD or a non-AP MLD” can just be “affiliated with an MLD”

C: CID 22333 deferred

**SP5:** Do you agree to resolve the following CIDs listed in 11-24/304r3 and incorporate the text changes into the latest TGbe draft?

         22018 22019 22020 22021 22022 22023 22039 22040 22041 22075 22076 22077 22078 22079 22080 ~~22081~~ 22088 22089 22090 22091 22092 22093 22166 22167 22168 22225 22226 22227 22272 22301 22302 22303 22331 22332 ~~22333~~ 22334 22335 22336 22337 22388 22397 22398

Discussion: None.

Result: No objection.

* + [297r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0297-00-00be-tgbe-sa1-resolution-to-cid-22097.docx) TGbe SA1 Resolution to CID 22097 Mike Montemurro

C: “be in awake state” and “transition to the awake state” are different, do all the places correspond to the latter case?

A: yes

**SP:** Do you agree to resolve the following CIDs listed in 11-24/297r0 and incorporate the text changes into the latest TGbe draft?

         22097

Discussion: None.

Result: No objection.

* + Motions (last 20 mins): [11-24/442r39](https://mentor.ieee.org/802.11/dcn/23/11-23-0442-38-00be-tgbe-motions-list-part-4.pptx)

**Motion 665 (MAC)**

**Move to approve resolutions to the CIDs:**

* 22237, 22042, 22199, 22200, ~~22219~~, 22004, 22270, 22198, ~~22011~~, 22006, 22223, 22263, 22387, 22386, 22238, 22274, 22275, 22359, 22368, 22371, 22372 in [11-24/256r1](https://mentor.ieee.org/802.11/dcn/24/11-24-0256-01-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0.docx) *[19 CIDs]*
* 22221, 22324, ~~22366~~, 22365, 22323, 22392, 22402, 22357, 22389, 22268, 22314 in [11-24/258r1](https://mentor.ieee.org/802.11/dcn/24/11-24-0258-01-00be-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d5-0-part-2.docx) *[10 CIDs]*
* 22010, ~~22027~~, 22164, 22228, 22220, 22232, 22233, 22319, 22012, 22201, 22009, 22338, 22401, 22325, 22172, ~~22034~~, 22173, ~~22174~~, 22175, 22304, 22305, 22169, 22170, 22157, ~~22250~~, ~~22343~~, 22014 in [11-24/296r5](https://mentor.ieee.org/802.11/dcn/24/11-24-0296-05-00be-cr-for-miscellaneous-cids.docx) *[22 CIDs]*

**and incorporate the text changes into the latest TGbe draft.**

**Move: Po-Kai Huang Second: Stephen McCann**

**Discussion: None.**

**Result: Approved with unanimous consent.**

* AoB: None
* Adjourned at 12:00

# 4th Conf. Call: March 06 (10:00–12:00 ET)–MAC

Please refer to the following link for the minutes

* https://mentor.ieee.org/802.11/dcn/24/11-24-0269-00-00be-minutes-tgbe-mac-ad-hoc-january-to-march-conference-calls.docx