IEEE P802.11  
Wireless LANs

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| TGbe March 2024 Meeting Minutes | | | | |
| Date: 2024-3-11 | | | | |
| 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 March 2024 IEEE 802.11 TGbe sessions.

Revision history:

* Rev0: First version of the document.
* Rev1: add the minutes of the TGbe joint session of Thursday PM1

Abbreviations:

* C: Comment.
* A: Answer.

# Mar. 11, Monday, AM1, MAC (08:00-10:00)

Please refer to the following link:

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# Mar. 11, Monday, PM1, Joint (13:30-15:30)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Jason Yuchen Guo (Huawei) is serving as the Secretary.
* Registration information
  + The chair announced that registration is needed to attend this meeting.
* Meeting protocol
  + The chair announced that everyone is required to log in WebEx to vote.
  + Please ensure that the following information is listed correctly when joining the call:
    - "[voter status] First Name Last Name (Affiliation)"
* 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 Wireless Interim/Plenary Session” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> 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)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
* 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
* Agenda
  + Summary from January 2024 meeting
  + Approve TG minutes from January 2024
  + TGbe Editor’s Report
  + CR submissions
    - [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: Res. for TPE and Trigger frame Yanjun Sun [4C]
    - [368r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0368-00-00be-resolutions-for-cid-22177.docx) Resolutions for CID 22177 Jianhan Liu [1C]
    - [483r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0483-00-00be-cr-for-eht-link-adaptation.docx) CR for EHT link adaptation Bo Gong [2C]
    - [381r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0381-00-00be-cr-cid22289.docx) CR\_CID22289 Xiaogang Chen [1C]
    - [328r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0328-00-00be-sb1-20mhz-only-limited-capabilities.docx) SB1 20MHz-Only Limited Capabilities (CID 22381) Youhan Kim [1C]
  + Discussions:
    - None
  + Agenda approved with unanimous consent
* **TGbe Editor’s Report**

[24/255r5](https://mentor.ieee.org/802.11/dcn/24/11-24-0255-05-00be-tgbe-editor-s-report-on-initial-sa-ballot.ppt) TGbe Editor's report on initial SA ballot Edward Au

Discussion: none.

* **Approve TG minutes from January 2024**

**Move to approve TGbe minutes listed below:**

* + January interim: <https://mentor.ieee.org/802.11/dcn/24/11-24-0128-00-00be-tgbe-january-2024-meeting-minutes.docx>
  + Teleconferences Jan-Mar: [https://mentor.ieee.org/802.11/dcn/24/11-24-0377-](https://mentor.ieee.org/802.11/dcn/24/11-24-0377-02-00be-tgbe-january-march-teleconference-minutes.docx)[03](https://mentor.ieee.org/802.11/dcn/24/11-24-0377-03-00be-tgbe-january-march-teleconference-minutes.docx)[-00be-tgbe-january-march-teleconference-minutes.docx](https://mentor.ieee.org/802.11/dcn/24/11-24-0377-02-00be-tgbe-january-march-teleconference-minutes.docx)

**Move: Matthew Fischer Second: Jason Y. Guo**

**Discussion: None**

**Result: Approved with unanimous consent**

* **Submissions**
  + [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: Res. for TPE and Trigger frame Yanjun Sun

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0309r0 and incorporate the text changes into the latest TGbe draft?

         22410, 22408, 22405, 22391

Discussion: None.

Result: No objection.

* + [368r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0368-00-00be-resolutions-for-cid-22177.docx) Resolutions for CID 22177 Kaiying Lu

C: it seems you use the EHT OM to indicate the MCS15 disable, if a STA does not support 320MHz, it will not support EHT OM. Can you use the 11ax OM signaling? E.g., use the ER SU disable bit.

Offline discussion is needed.

* + [381r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0381-00-00be-cr-cid22289.docx) CR\_CID22289 Xiaogang Chen

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0381r0 and incorporate the text changes into the latest TGbe draft?

         22289

Discussion: None.

Result: No objection.

* + [328r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0328-00-00be-sb1-20mhz-only-limited-capabilities.docx) SB1 20MHz-Only Limited Capabilities (CID 22381) Youhan Kim

C: If the AP sets this bit to 0, it means that it will treat the non-AP as regular non-AP, right?

A: Correct.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0328r0 and incorporate the text changes into the latest TGbe draft?

         22381

Discussion: None.

Result: No objection.

* + Agenda discussion

The following docs are added to the agenda:

321r0, 358r0, 363r0, 373r0, 286r0, 379r0, 292r2, 368r1

The chair asked if there’s any objection of adding the above docs to the agenda.

No objection.

* + 321r0 Initial SA Ballot CR for CID 22159 Juseong Moon

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0321r0 and incorporate the text changes into the latest TGbe draft?

         22159

Discussion: None.

Result: No objection.

* + 358r0 D5.0 CR for miscellaneous CIDs Yunbo Li

C: CID 22033 is deferred per the request by Al Petric

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0358r1 and incorporate the text changes into the latest TGbe draft?

         22189 22205 22294

Discussion: None.

Result: No objection.

* + 363r0 SABallotD5.0 CID22216 Thomas Derham

Discussion: None.

SP is expected to be run together with the next contribution (from the same presenter)

* + 373r1 SABallotD5.0-CID22342 Thomas Derham

Discussion: None.

The chair asked if there’s anyone who need more time to review this doc since it’s a rather long one.

Ming Requested to have more time to review it.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0363r0 and incorporate the text changes into the latest TGbe draft?

         22216

Discussion: None.

Result: No objection.

* + 286r0 Proposed resolution for CID 22236 Yonggang Fang

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0286r0 and incorporate the text changes into the latest TGbe draft?

         22236

Discussion: None.

Result: No objection.

* + 379r0 CR for Section 36.3.11.12 on P802.11be D5.0 Oded Redlich

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0379r0 and incorporate the text changes into the latest TGbe draft?

         22264

Discussion: None.

Result: No objection.

* + 292r2 Resolution of Definition-Related CIDs (SA Ballot) John Wullert

C: in the resolution collum, the revision should be changed to r2

**SP:** Do you agree to resolve the following CIDs listed in 11-24/0292r2 and incorporate the text changes into the latest TGbe draft?

        22235

Discussion: None.

Result: No objection.

* + 368r1 Resolutions for CID 22177 Kaiying Lu

C: change “MCS15 Disable” to “MCS15 Enable”

C: what’s the default mode?

A: it should be disabled.

C: how does the AP signal it?

A: using the same bit in the EHT OM control.

C: why indicated is better than received?

A: “indicated” can be cross-link.

SP deferred.

* AOB
  + None
* Recessed at 15:28

# Mar. 12, Tuesday, PM3, MAC (19:30-21:30)

Please refer to the following link:

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# Mar. 14, Thursday, AM1, MAC (08:00-10:00)

Please refer to the following link:

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# Mar. 14, Thursday, AM1, PHY (08:00-10:00)

Please refer to the following link:

Http://

# Mar. 14, Thursday, PM1, Joint (13:30-15:30)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Jason Yuchen Guo (Huawei) is serving as the Secretary.
* Registration information
  + The chair announced that registration is needed to attend this meeting.
* Meeting protocol
  + The chair announced that everyone is required to log in WebEx to vote.
  + Please ensure that the following information is listed correctly when joining the call:
    - "[voter status] First Name Last Name (Affiliation)"
* 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 Wireless Interim/Plenary Session” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> 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)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
* 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
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    - 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
* Agenda
  + Summary from January 2024 meeting
  + Approve TG minutes from January 2024
  + TGbe Editor’s Report
  + Submissions
    - [341r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0341-00-00be-sa-ballot-cr-for-miscellaneous-cids.docx) SA Ballot CR for Miscellaneous CIDs Ming Gan [5C SP]
    - [319r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0319-03-00be-cr-for-miscellaneous-cids-part-ii.docx) CR for Miscellaneous CIDs Part II Po-Kai Huang [1C SP]
    - [291r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0291-03-00be-resolution-of-epcs-related-cids-sa-ballot.docx) Resolution of EPCS-related CIDs (SA Ballot) John Wullert [1C SP]
    - [300r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0300-03-00be-proposed-resolutions-for-cid-22382-cid-22383.docx) Proposed Resolutions for CID-22382 & CID-22383 Salvatore Talarico [2C SP]
    - [294r1](https://mentor.ieee.org/802.11/dcn/24/11-24-0294-01-00be-sa-ballot-cr-for-35-3-7-5.docx) SA ballot: CR for 35.3.7.5 Arik Klein [1C SP]
    - [324r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0324-02-00be-cr-for-802-11be-isb.docx) CR for 802.11be ISB Laurent Cariou [10C SP]
    - [359r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0359-01-00be-d5-0-cr-for-p2p-buffer-report.docx) D5.0 CR for P2P buffer report Yunbo Li [1C SP]
    - [483r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0483-00-00be-cr-for-eht-link-adaptation.docx) CR for EHT link adaptation Bo Gong [2C]
    - [588r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0588-00-00be-tgbe-sa1-resolution-to-mlo-mbssid-cids.docx) TGbe SA1 Resolution to MLO MBSSID CIDs Michael Montemurro [4C]
    - [347r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0347-00-00be-sa-ballot-cr-for-a-mpdu-in-eht-ppdu.docx) SA Ballot CR for A-MPDU in EHT PPDU SunHee Baek [1C]
    - [356r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0356-00-00be-sa-ballot-cr-for-str.docx) SA Ballot CR for STR Insun Jang [1C]
    - [578r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0578-00-00be-channel-usage.docx) Channel Usage Brian Hart [1C]
    - [329r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0329-00-00be-sb1-sounding-segmentation.docx)SB1 Sounding Segmentation (CID 22373) Youhan Kim [1C]
    - [340r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0340-00-00be-sa-ballot-cr-for-35-3-16-8-3.docx) SA Ballot CR for 35.3.16.8.3 Ming Gan [4C]
    - [365r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0365-00-00be-proposed-resolutions-to-11be-initial-sa-ballot-cids-on-emlsr-link-number.docx) Prop. Res. to 11be init. SA ballot CIDs on EMLSR link number Qi Wang [4C]
  + Motions
  + Teleconference Plan
  + Goals for May 2024
  + Discussions:
    - Arik requested to move his SP ahead
    - Ming requested to add doc 339r2 to the SP list
  + Agenda approved with unanimous consent
* **Submissions**
  + [294r1](https://mentor.ieee.org/802.11/dcn/24/11-24-0294-01-00be-sa-ballot-cr-for-35-3-7-5.docx) SA ballot: CR for 35.3.7.5 Arik Klein

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22056

No objection received.

* + [341r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0341-00-00be-sa-ballot-cr-for-miscellaneous-cids.docx) SA Ballot CR for Miscellaneous CIDs Ming Gan

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22103 22209 22214 22322

No objection received.

* + [319r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0319-03-00be-cr-for-miscellaneous-cids-part-ii.docx) CR for Miscellaneous CIDs Part II Po-Kai Huang

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22413

No objection received.

* + [291r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0291-03-00be-resolution-of-epcs-related-cids-sa-ballot.docx) Resolution of EPCS-related CIDs (SA Ballot) John Wullert

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22197

No objection received.

* + [300r3](https://mentor.ieee.org/802.11/dcn/24/11-24-0300-03-00be-proposed-resolutions-for-cid-22382-cid-22383.docx) Proposed Resolutions for CID-22382 & CID-22383 Salvatore Talarico

C: the text says may or may not, then why do we need to add it?

C: what about “excepet that this requirement may be superseded by existing requirement”.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22382, 22383

No objection received.

* + [324r2](https://mentor.ieee.org/802.11/dcn/24/11-24-0324-02-00be-cr-for-802-11be-isb.docx) CR for 802.11be ISB Laurent Cariou

C: editorial changes

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22276 22358 22404 22400 22399 22309 22308 22273 22029 22073 22178 22281 22002

No objection received.

* + [359r4](https://mentor.ieee.org/802.11/dcn/24/11-24-0359-04-00be-d5-0-cr-for-p2p-buffer-report.docx) D5.0 CR for P2P buffer report Yunbo Li

C: not comfortable to add such changes to A-Control at this stage. Let’s keep the long term indication part, and see if the industry does need the short term indication.

C: please add “Basic” before “Multi-link element”

**SP deferred.**

* + 339r3 SA ballot CR for 35.1 Ming Gan

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22354 22385

No objection received.

* + [483r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0483-00-00be-cr-for-eht-link-adaptation.docx) CR for EHT link adaptation Bo Gong

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22179, 22180

No objection received.

* + [588r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0588-00-00be-tgbe-sa1-resolution-to-mlo-mbssid-cids.docx) TGbe SA1 Resolution to MLO MBSSID CIDs Michael Montemurro

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22098, 22191, 22231, 22339

No objection received.

* + [347r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0347-00-00be-sa-ballot-cr-for-a-mpdu-in-eht-ppdu.docx) SA Ballot CR for A-MPDU in EHT PPDU SunHee Baek

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22224

No objection received.

* + [356r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0356-00-00be-sa-ballot-cr-for-str.docx) SA Ballot CR for STR Insun Jang

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22215

No objection received.

* + [578r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0578-00-00be-channel-usage.docx) Channel Usage Brian Hart

Discussion: None.

More offline discussion needed.

* + [329r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0329-00-00be-sb1-sounding-segmentation.docx)SB1 Sounding Segmentation (CID 22373) Youhan Kim

C: you remove one paragraph from MIMO control field, could you clarify?

C: in TGme, similar changes are doing for HE.

SP deferred. Members need more time to review it.

* + [340r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0340-00-00be-sa-ballot-cr-for-35-3-16-8-3.docx) SA Ballot CR for 35.3.16.8.3 Ming Gan

C: changing should to shall relies on a set of condition. Could you defer this CID?

C: also need time to review other CIDs

SP deferred.

* + [365r0](https://mentor.ieee.org/802.11/dcn/24/11-24-0365-00-00be-proposed-resolutions-to-11be-initial-sa-ballot-cids-on-emlsr-link-number.docx) Prop. Res. to 11be init. SA ballot CIDs on EMLSR link number Qi Wang

Discussion: None.

The chair asked if there’s any objection by adding this doc. to the motion with the following CIDs:

22375, 22025, 22037 and 22396

No objection received.

* **Motions**

// to be added

* AOB
  + None
* Recessed at 15:18