IEEE P802.11  
Wireless LANs

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| TGbe September 2022 Interim Minutes | | | | |
| Date: 2022-09-13 | | | | |
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|  |  |  |  |  |

Abstract

This document contains the minutes for the July 2022 IEEE 802.11 TGbe plenary sessions.

Revision history:

* Rev0: First version of the document, including the minutes for the Sept. 12 PM1 TGbe joint session, and the place holders for other sessions.
* Rev1: add the minutes for the Sept. 13 AM1 TGbe joint session
* Rev2: add the minutes for the Sept. 14 AM1 TGbe joint session, the Sept. 15 AM1 TGbe joint session, the Sept. 15 PM1 TGbe joint session, and the minutes for the MAC ad hoc sessions available so far
* Rev3: add the minutes for the PHY ad hoc sessions
* Rev4: add the validated voting results for some motions
* Rev5: add the minutes for the MAC ad hoc sessions

Abbreviations:

* C: Comment.
* A: Answer.

# Monday, September 12, MAC/PHY AM2 (10:30-12:30)

For PHY ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1639-00-00be-minutes-802-11-be-phy-ad-hoc-september-2022-interim-meeting.docx

For MAC ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1597-02-00be-minutes-of-tgbe-2022-sept-interim-mac.docx

# Monday, September 12, Joint PM1 (13:30-15:30)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Registration information
  + The chair announced that registration is needed to attend this meeting.
* Meeting protocol
  + Please ensure that the following information is listed correctly when joining the call:
    1. "[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:
  + **Joint:** Jason Y. Guo ([guoyuchen@huawei.com](mailto:guoyuchen@huawei.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
  + **PHY:** Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)) & Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
  + **MAC:** Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) & Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.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
  + Technical Submissions**: CRs**
    - [1270r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1270-00-00be-cr-for-power-boost-factor-cids.docx) CR for Power Boost Factor CIDs Hanqing Lou [5C-Q&A 10’]
    - [1194r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1194-00-00be-lb266-cr-for-9-4-1-70.docx) LB266 CR for 9.4.1.70 Jinyoung Chun [11C-SP 10’]
    - [1324r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1324-01-00be-cr-for-cids-in-35-7-2-part-iii.docx) CR for CIDs in 35.7.2 Part III Zinan Lin [2C-SP 10’]
    - [1131r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1131-03-00be-lb266-cr-on-9-4-1-71.docx) LB266 CR on 9.4.1.71 Jinyoung Chun [1C-SP 10’]
    - [1267r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1267-00-00be-lb266-cr-on-eht-operation-element.docx) LB266 CR on EHT Operation element Guogang Huang [29C-13GT 20’]
    - [1232r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1232-00-00be-cr-for-cids-in-35-7-2-part-ii.docx) CR for CIDs in 35.7.2 Part II Zinan Lin [8C 15’]
    - [1311r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1311-00-00be-cr-for-clause-6-3-part-2.docx) CR for clause 6.3 part 2 Yan Li [8C 15’]
  + Discussion
    - Revision changes
      * The chair announces that no need to announce the revision changes for the agenda, just present the latest revision
    - Order change of 1232r0
  + Agenda approved with unanimous consent
* The chair presents the summary from July meeting and conf calls.
* Technical Submissions**: CR**
  + 1270r0 CR for Power Boost Factor CIDs Hanqing Lou

C: suggest change MU to RU, and define what “RU” means.

C: That’s what I suggested in the comment, the “MR”

SP deferred.

* + 1194r3 LB266 CR for 9.4.1.70 Jinyoung Chun

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1194r3 and incorporate the text changes into the latest TGbe draft?

         12594

Discussion: None.

Result: No objection.

* + 1324r1 CR for CIDs in 35.7.2 Part III Zinan Lin

C: For CID 12553, the editor and another commenter prefers resolution 1

C: For CID 11660, this is only correct for the AP, for non-AP STA, it’s completely optional.

C: Need to work offline

* + 1232r0 CR for CIDs in 35.7.2 Part II Zinan Lin

C: For CID 10815, the 484+242 is partial bandwidth, why do you remove the P there?

C: Do you mean P or F is only needed when there is ambiguity?

C: It is fine to remove the P.

C: It is not clear what does the P and F in the table mean. More offline work is needed.

C: For CID 12009, the resolution can not be accepted since there are two options, the editor does not know which option to execute.

C: for CID 11668, not sure the editor will understand the instruction, better make it revised, and give the editor a clearer instruction.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1232r1 and incorporate the text changes into the latest TGbe draft?

         10172, 10171, 10815, 10170, 10816, 11668, 12009, 12556

Discussion: None.

Result: No objection.

* + 1131r4 LB266 CR on 9.4.1.71 Jinyoung Chun

C: For better reading, “Any … not …” could be changed to “None of the …”

C: Some other editorial suggestions.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1131r5 and incorporate the text changes into the latest TGbe draft?

         11628, 12597

Discussion: None.

Result: No objection.

* + 1267r2 LB266 CR on EHT Operation element Guogang Huang

C: change “the setting rule” to “xx field is set as described in yy subclause number”

C: moving the positions of the subfields is not good for existing implementation, the format change seems unnecessary. Describing the conditions is Okay.

C: For CID 10808, is 35.16.1 is the right reference? No “Information present” is found there.

C: Seems it is added in this document.

C: for cid 10991, the instruction to the editor of CID 11859 can be used.

C: 11026, this case is not totally impossible, better to defer it.

C: the description in Table 9-401a is complete, Table 9-401b is not needed.

C: 11037 should be accepted.

C: change “may set” to “shall set” because you have an “if” condition there.

C: change “non-AP EHT STAs” to “non-AP non-EHT STAs”

C: the “Otherwise” part shall also use the “shall” language.

The contribution is not finished, it is expected to be continued in the next joint session.

* Recess at 15:30

# Monday, September 12, MAC/PHY PM2 (16:00-18:00)

For PHY ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1639-00-00be-minutes-802-11-be-phy-ad-hoc-september-2022-interim-meeting.docx

For MAC ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1597-02-00be-minutes-of-tgbe-2022-sept-interim-mac.docx

# Monday, September 12, MAC PM3 (19:30-21:30)

For MAC ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1597-02-00be-minutes-of-tgbe-2022-sept-interim-mac.docx

# Tuesday, September 13, Joint AM1 (08:00-10:00)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* 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:
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  + **Joint:** Jason Y. Guo ([guoyuchen@huawei.com](mailto:guoyuchen@huawei.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
  + **PHY:** Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)) & Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
  + **MAC:** Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) & Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
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    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
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**Copyright Policy was presented.**

* + **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* Agenda
  + Technical Submissions**: CRs**
    - [1267r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1267-00-00be-lb266-cr-on-eht-operation-element.docx) LB266 CR on EHT Operation element Guogang Huang [29C Ctd.]
    - [1311r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1311-00-00be-cr-for-clause-6-3-part-2.docx) CR for clause 6.3 part 2 Yan Li [8C]
    - [1312r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1312-00-00be-cr-for-clause-6-3-part-3.docx) CR for clause 6.3 part 3 Yan Li [10C]
    - [1251r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1251-00-00be-lb266-cr-for-35-14-nominal-packet-padding-values.docx) CR for 35.14 Nominal Packet Padding Values Mengshi Hu [8C]
    - [1361r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1361-00-00be-lb266-cr-for-9-3-1-22-2-common-info-field-of-trigger-frame.docx) CR for 9.3.1.22.2 Common Info field of Trigger Frame Mengshi Hu [5C]
    - [1266r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1266-00-00be-lb266-cr-for-eht-mu-operation.docx) cr-for-EHT-MU-Operation Jason Y. Guo [9C]
    - [1340r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1340-00-00be-lb266-cr-for-eht-trs-part-i.docx) cr-for-EHT-TRS-Part-I Jason Y. Guo [10C]
    - [1410r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1410-00-00be-cr-for-cids-on-ndpa-frame-format.docx) CR for CIDs on NDPA frame format Mahmoud Kamel [9C]
    - [1307r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1307-00-00be-cr-for-9-3-1-19-part1.docx) cr-for-9.3.1.19-part1 Jinyoung Chun [10C]
  + Discussion
    - Revision changes
      * The chair announces that no need to announce the revision changes for the agenda, just present the latest revision
  + Agenda approved with unanimous consent
* Technical Submissions**: CR**
  + 1267r4 LB266 CR on EHT Operation element Guogang Huang

C: CID 12056, in the resolution column, “could not make consensus” is not a good resolution, it is better to find the exact reason in the last round.

C: could you explain what does the last paragraph mean?

C: some wording suggestions on the last sentence.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1267r5 and incorporate the text changes into the latest TGbe draft?

         10807 10808 10990 10991 ~~11026~~ 11037 11043 11044 11045 11046 11512 11513 11514 11857 11858 11859 11860 11861 11862 ~~12056~~ ~~12131~~ 12824 12969 12970 13363 13364 13382 13467 13468

Discussion: None.

Result: No objection.

* + 1311r0 CR for clause 6.3 part 2 Yan Li

C: no DCN number within the instruction to the editor.

C: at least add “in this document”.

C: CID 10449, better to defer it to have offline discussion with Po-Kai.

SP deferred since offline discussion is needed. Expection is to run SP in the next session.

* + 1312r0 CR for clause 6.3 part 3 Yan Li

C: add document number to the instructions to the editor.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1312r4 and incorporate the text changes into the latest TGbe draft?

         10280,13518,10450,12242,13529,10281,10282,10283,13283,10942

Discussion: None.

Result: No objection.

* + [1251r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1251-00-00be-lb266-cr-for-35-14-nominal-packet-padding-values.docx) CR for 35.14 Nominal Packet Padding Values Mengshi Hu

C: CID 10339, in PHY we agreed to use PPDU bandwidth instead of RU size

C: suggestion is to use the PPDU bandwidth, and then call out the RU size.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1251r2 and incorporate the text changes into the latest TGbe draft?

         10339, 10392, 10398, 10400, 10402, 11883, 11884, 11885

Discussion: None.

Result: No objection.

* + 1361r1 CR for 9.3.1.22.2 Common Info field of Trigger Frame Mengshi Hu

C: if no change is needed since there is a previous CID resolves that, please refer to that CID

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1361r1 and incorporate the text changes into the latest TGbe draft?

         10409, 10977, 10978, 14011, 14012

Discussion: None.

Result: No objection.

* + 1266r2 cr-for-EHT-MU-Operation Jason Y. Guo

C: Regarding SST in S160, my main concern this one is relying on SST. SST hasn’t been defined yet. Could we defer the text on SST portion?

C: there is a contribution by Ross. We can prioritize it in the next call.

C: CID 13434, 13435 are deferred. No changes to the doc during the presentation.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1266r2 and incorporate the text changes into the latest TGbe draft?

         10996 11272 11273 12006 13862 13437 13438

Discussion: None.

Result: No objection.

* + 1340r2 cr-for-EHT-TRS-Part-I Jason Y. Guo

C: Regarding L-length text change, L-length of the EHT TB PPDU has module zero. Can you remind me the PHY does the transmission or the MAC?

C: within the trigger frame, it gets module 1. The non-AP STA’s MAC tells its PHY what needs to be transmitted.

C: the non-AP STA has received TRS, no explicit indication of the L-Length. The MAC tells the PHY the L-length has the module of 1. Are you expecting the PHY to substract one?

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1340r2 and incorporate the text changes into the latest TGbe draft?

         XXXXX

Discussion: None.

Result: No objection.

* + 1410r0 CR for CIDs on NDPA frame format Mahmoud Kamel

The contribution is not finished. Need to resume in the next session.

* Recess at 10:00

# Tuesday, September 13, MAC/PHY PM1 (13:30-15:30)

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# Wednesday, September 14, Joint AM1 (08:00-10:00)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
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  + **PHY:** Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)) & Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
  + **MAC:** Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) & Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
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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
  + Technical Submissions**: CRs**
    - [1410r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1410-00-00be-cr-for-cids-on-ndpa-frame-format.docx) CR for CIDs on NDPA frame format Mahmoud Kamel [9C]
    - [1416r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1416-00-00be-discussion-on-sst-and-a-ppdu.pptx) Discussion on SST and A-PPDU Ross Jian Yu [15C]
    - [1544r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1544-00-00be-lb-266-cids-on-coexistence-assurance-document.docx) LB 266 CIDs on Coexistence Assurance document Sigurd Schelstraete [9C]
    - [706r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0706-06-00be-tgbe-coexistence-assessment-document.docx) TGbe Coexistence Assessment Document Sigurd Schelstraete
    - [1307r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1307-00-00be-cr-for-9-3-1-19-part1.docx) cr-for-9.3.1.19-part1 Jinyoung Chun [10C]
    - [1481r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1481-00-00be-lb266-cr-for-ul-mu-operation-35-5-2-3.docx) CR for UL MU operation 35.5.2.3 Yanjun Sun [6C]
  + TGbe Editor’s Report: 11-22/972r9
  + Approve TG minutes
  + Motions: 1038r12
  + Discussion
    - None
  + Agenda approved with unanimous consent
* Technical Submissions**: CR**
  + 1410r1 CR for CIDs on NDPA frame format Mahmoud Kamel

C: For “accepted resolution”, no need to instruct the editor.

C: CID 12540, is your change exactly the same as the proposed change?

C: EHT NDPA is missing in the proposed change.

C: CID 13454, I think the commenter makes sense, I’m not sure whether the rejection reason is correct or not.

C: Object changing the token field at this stage.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1410r2 and incorporate the text changes into the latest TGbe draft?

         10791, 12540, 12541, 12548, 12549, 12550, 12551, 12552, 13454

Discussion: None.

Result: No objection.

* + 1416r1 Discussion on SST and A-PPDU Ross Jian Yu

C: SSTand A-PPDU are separate scheme, they are similar, but A-PPDU needs more work, prefer to move A-PPDU in the next amendment.

C: prefer to move this discussion to UHR

C: I second the previous commenter’s opinion

C: neither of these schemes is simple, support moving this to UHR

**SP:** Do you agree to enable SST on S160 for 11be?

Discussion: None.

Result: Y 32 , N 58 , A 28.

**SP:** Do you agree to enable A-PPDU for 11be?YNA

Discussion:

C: Since SST on S160 is not supported, how to support A-PPDU for 11be?

C: What kind of logic are you going to use for the CIDs regarding A-PPDU?

SP deferred after the discussion

* + 1544r0 LB 266 CIDs on Coexistence Assurance document Sigurd Schelstraete

C: The Coexistence Assurance document is passed, we don’t need to run it again here.

C: use D2.0 as the reference for TGbe draft in doc 11-21/706.

C: UWB is not required to do 802.11-like CSMA/CA

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1544r1 and incorporate the text changes into the latest TGbe CA document (11-21/706r6)?

         11142, 11143, 11144, 11145, 11146, 1147, 11148, 11149, 11150

Discussion: None.

Result: No objection.

* TGbe Editor’s Report: 11-22/972r9

Discussions: some discussion regarding the text harmonization with TGme draft 2.0

* Motions: 1038r12

Minutes for the motions can be found from Slide 33 to Slide 48 in:

https://mentor.ieee.org/802.11/dcn/22/11-22-1038-14-00be-tgbe-motions-list-part-3.pptx

* Recess at 10:00

# Wednesday, September 14, MAC/PHY PM2 (16:00-18:00)

For PHY ad-hoc group:

* The meeting was canceled

For MAC ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1597-02-00be-minutes-of-tgbe-2022-sept-interim-mac.docx

# Thursday, September 15, Joint AM1 (08:00-10:00)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* 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:
  + **Joint:** Jason Y. Guo ([guoyuchen@huawei.com](mailto:guoyuchen@huawei.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
  + **PHY:** Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)) & Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
  + **MAC:** Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) & Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.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
  + Technical Submissions**: CRs**
    - [1619r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1619-00-00be-lb266-cr-for-sst-and-a-ppdu.doc) LB266 CR for SST and A-PPDU Ross Jian Yu [16C-SP 10’]
    - 1311r2 CR for clause 6.3 part 2 Yan Li [8C-SP 5’]
    - [1324r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1324-02-00be-cr-for-cids-in-35-7-2-part-iii.docx) CR for CIDs in 35.7.2 Part III Zinan Lin [2C-SP 5’]
    - [1270r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1270-04-00be-cr-for-power-boost-factor-cids.docx) CR for Power Boost Factor CIDs Hanqing Lou [5C-SP 5’]
    - [1307r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1307-00-00be-cr-for-9-3-1-19-part1.docx) cr-for-9.3.1.19-part1 Jinyoung Chun [10C 10’]
    - [1617r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1617-00-00be-lb266-cr-for-9-3-1-22-mics-part2.docx) LB266 CR for 9.3.1.22 MICS part2 Yanjun Sun [9C 10’]
    - [1481r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1481-00-00be-lb266-cr-for-ul-mu-operation-35-5-2-3.docx) CR for UL MU operation 35.5.2.3 Yanjun Sun [6C 10’]
    - [1120r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1120-03-00be-lb266-cr-for-cids-of-4-3-16a.docx) LB266 CR for CIDs of 4.3.16a Yanyi Ding [2C 10’]
    - [1565r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1565-00-00be-lb266-cr-for-uora.docx) LB266 CR for UORA Greg G. Ko [8C 15’]
    - [1317r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1317-00-00be-cr-on-cid-10116.docx) CR on CID 10116 Bo Gong [1C 10’]
    - [1364r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1364-01-00be-lb266-cr-for-phy-ru-or-mru-index.docx) CR for PHY RU or MRU Index Mengshi Hu [1C 10’]
    - [1320r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1320-02-00be-lb266-cr-for-3-2-definitions-specific-to-ieee-802-11.docx) CR for 3.2 Definitions specific to IEEE Yousi Lin [1C 10’]
    - [1348r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1320-01-00be-lb266-cr-for-3-2-definitions-specific-to-ieee-802-11.docx) CR for PAR verification low latency Yousi Lin [1C 10’]
  + Discussion
    - Comments to correct presenter name for 1320.
    - Comment to defer doc 1317.
  + Agenda approved with unanimous consent
* Technical Submissions**: CR**
  + 1619r0 LB266 CR for SST and A-PPDU Ross Jian Yu

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1619r0 and incorporate the text changes into the latest TGbe draft?

         10110, 10111, 10112, 10113, 10114, 10115, 13434, 13435, 13436, 13441, 13546, 13552, 13565, 13874, 13545, 13558

Discussion: None.

Result: No objection.

* + 1311r2 CR for clause 6.3 part 2 Yan Li

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1311r3 and incorporate the text changes into the latest TGbe draft?

         10203, 10449, 12042, 12043, 12899, 12952, 12953, 13301

Discussion: None.

Result: No objection.

* + 1324r2 CR for CIDs in 35.7.2 Part III Zinan Lin

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1324r2 and incorporate the text changes into the latest TGbe draft?

         12553, 11660

Discussion: None.

Result: No objection.

* + 1270r4 CR for Power Boost Factor CIDs Hanqing Lou

C: is there any other place to make the change for MR?

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1270r4 and incorporate the text changes into the latest TGbe draft?

         10944, 10945, 10946, 10947, 11868

Discussion: None.

Result: No objection.

* + [1307r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1307-00-00be-cr-for-9-3-1-19-part1.docx) cr-for-9.3.1.19-part1 Jinyoung Chun

C: CID, 11683, “are set to both” should be changed to “are both set to”

C: for the NDPA variant, we don’t have the B0 and B1 any more, it’s a single field with value 0-3, as amended by 11az, please check.

C: CID 12771, for AID 2047, it’s not about association ID information, why do we use AID in this way?

C: It’s an issue in HE, why do you ask in EHT?

C: Since it’s not a question for CR, could you send an email to ask the question?

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1307r1 and incorporate the text changes into the latest TGbe draft?

         12048, 12120, 13540, 13541, 13542, 12771, ~~11683~~, 10972, 11893, 12436, 12772, 13725, 12773, 13543, 13677, 11994, 11894, 10973, 12250, 11895,12049, 10792, 10795, 11490, 10793, 10794, 11684, 11685, 13726, 11686, 13544, 10974, 12957, and 13725

Discussion: CID 10974, remove the 3rd bullet.

Result: No objection.

* + [1617r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1617-00-00be-lb266-cr-for-9-3-1-22-mics-part2.docx) LB266 CR for 9.3.1.22 MICS part2 Yanjun Sun

Discussion: Defer 11995, have more offline discussion about it.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1617r0 and incorporate the text changes into the latest TGbe draft?

         10328, 10329, ~~11995~~, 10800, 10803, 11492, 10799, 13455, 13553

Discussion: None

Result: No objection.

* + [1481r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1481-00-00be-lb266-cr-for-ul-mu-operation-35-5-2-3.docx) CR for UL MU operation 35.5.2.3 Yanjun Sun

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1481r0 and incorporate the text changes into the latest TGbe draft?

         13559, 10998, 14007, 12007, 14008, 13969

Discussion: None.

Result: No objection.

* + [1120r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1120-03-00be-lb266-cr-for-cids-of-4-3-16a.docx) LB266 CR for CIDs of 4.3.16a Yanyi Ding

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1120r3 and incorporate the text changes into the latest TGbe draft?

         10965

Discussion: None.

Result: No objection.

* + [1565r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1565-00-00be-lb266-cr-for-uora.docx) LB266 CR for UORA Greg G. Ko

C: Have you considered the potaintial fairness issue where EHT STA can see more RA RUs than the HE STAs?

SP deferred. Offline discussions are required

* + [1320r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1320-02-00be-lb266-cr-for-3-2-definitions-specific-to-ieee-802-11.docx) CR for 3.2 Definitions specific to IEEE Yousi Lin

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1320r2 and incorporate the text changes into the latest TGbe draft?

         12033

Discussion: None.

Result: No objection.

* Recess at 10:00

# Thursday, September 15, MAC/PHY AM2 (10:30-12:30)

For PHY ad-hoc group:

* The meeting was canceled

For MAC ad-hoc group:

* https://mentor.ieee.org/802.11/dcn/22/11-22-1597-03-00be-minutes-of-tgbe-2022-sept-interim-mac.docx

# Thursday, September 15, Joint PM1 (13:30-15:30)

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* 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:
  + **Joint:** Jason Y. Guo ([guoyuchen@huawei.com](mailto:guoyuchen@huawei.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
  + **PHY:** Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)) & Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
  + **MAC:** Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) & Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.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
  + Technical Submissions**: CRs (first 1 hour)**
    - [1048r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1048-01-00be-lb266-cr-320mhz-indication-in-non-ht-duplicated-frame.docx) CR 320MHz indication in non-HT duplicated frame Yunbo Li [1C-SP 10’]
    - [1364r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1364-01-00be-lb266-cr-for-phy-ru-or-mru-index.docx) CR for PHY RU or MRU Index Mengshi Hu [1C 10’]
    - [1320r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1320-02-00be-lb266-cr-for-3-2-definitions-specific-to-ieee-802-11.docx) CR for 3.2 Definitions specific to IEEE Yousi Lin [1C 10’]
    - [1348r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1320-01-00be-lb266-cr-for-3-2-definitions-specific-to-ieee-802-11.docx) CR for PAR verification low latency Yousi Lin [1C 10’]
  + Motions: [1038r14](https://mentor.ieee.org/802.11/dcn/22/11-22-1038-14-00be-tgbe-motions-list-part-3.pptx)
  + Goals for November 2022
  + Teleconference Plan
  + Submissions (rest)
  + Discussion
    - DCN 1317r0 added.
    - 1487r4 added for SP.
    - 1509r2, 1510r2 added to the queue of the 2nd part of technical submissions.
    - Remove 1320r1.
    - DCN 1531 added.
  + Agenda approved with unanimous consent
* Technical Submissions**: CR**
  + 1048r1 CR 320MHz indication in non-HT duplicated frame Yunbo Li

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1048r1 and incorporate the text changes into the latest TGbe draft?

         12249

Discussion: None.

Result: No objection.

* + 1487r4 LB266 CR for ML Reconfiguration clause 35.3.6 Binita Gupta

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1487r4 and incorporate the text changes into the latest TGbe draft?

         12618, 10718, 13280, 14018

Discussion: None.

Result: No objection.

* + 1317r0 CR on CID 10116 Bo Gong

C: Could you defer this document so that we have more time to review it?

C: Another CID (11677) is about similar issue, do you want to resolve it together?

SP deferred. More offline discussion needed.

* + [1364r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1364-01-00be-lb266-cr-for-phy-ru-or-mru-index.docx) CR for PHY RU or MRU Index Mengshi Hu

C: I think a lot of the added texts are redundant.

C: The new sentence is more confusing.

The newly added paragraph except the note is removed after the discussion.

**SP:** Do you agree to resolve the following CIDs listed in 11-22/1364r2 and incorporate the text changes into the latest TGbe draft?

         10406

Discussion: None.

Result: No objection.

* + 1348r0 CR for PAR verification low latency Yousi Lin

Some comments received through the WebEx chat window:

C: This case 2 is Apple vs. Orange: 11ax can have two different link as well, why you compare 1 link 11ax vs. 2 links 11be?

C: the traffic load is too low (and/or # of STAs too small)

C: why the maximum delay is not considered.

C: is the OBSS load is 1-10Mbps increasing as well?

C: what was the wireless medium utilization wit 10Mbps? 1%, 10%, 20%?

C: also is it STR/NSTR or EMLSR?

SP not run. Offline discussions needed.

* Motions: [1038r14](https://mentor.ieee.org/802.11/dcn/22/11-22-1038-14-00be-tgbe-motions-list-part-3.pptx)

Minutes for the motions can be found in

<https://mentor.ieee.org/802.11/dcn/22/11-22-1038-15-00be-tgbe-motions-list-part-3.pptx>

with the additional information below:

* + The final (validated) result of Motion 435 in Slide 46 is: 53Y, 7N, 34A (pass)
  + The final (validated) result of the motion for holding the TGbe MAC November Ad-Hoc in Slide 59 is: 57Y, 7N, 22A (pass)
* Teleconference Plan

Request to change the time of the cofference call on Oct 31 to 10:00 – 12:00. Accepted.

Request to cancel the cofference calls on the first week after the September interim meeting. Rejected due to the fact that there is no cofference call during the golden week in October.

* Technical Submissions (rest)
  + 1510r2 TID to Link Mapping for QoS Pooya Monajemi

C: If the AP announce the restricted mode, is the STA allowed the reject the request from the AP?

C: This document seems too long, there are many terminologies not clearly defined, like MUEDCA mode, etc. We need to have more offline discussion to make it clear.

C: About the MU EDCA timer, the timer will be changed by the receiving of Trigger, and also be affected by this mode, more details required.

C: We need to address the EPCS enabled STAs.

C: could TID 6 and 7 have different mapping?

C: the disable/enabled can be changed, does it mean in this case the MU EDCA should also be changed?

C: if you have a definition for MU EDCA mode, it will be help to understand the whole document.

SP deferred. More offline discussion needed.

* Adjourned at 15:28