IEEE P802.11
Wireless LANs

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| TGbe May 2022 Teleconference Minutes |
| Date: 2022-01-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dennis Sundman | Ericsson |  |  | dennis.sundman@ericsson.com |
| Matthew Fischer | Broadcom |  |  |  |

Abstract

This document contains the minutes for May 2022 IEEE 802.11 interim TGbe teleconferences.

Revision history:

* Rev0: First version of the document. Contains minutes for Tuesday and Wednesday Joint sessions.
* Rev1: Added minutes for Thursday Joint session.
* Rev2: Added minutes for the Monday Joint session. Added final motion results and complete motion results on requested motions: 384, 385 and 394.
* Rev3: Cleanup and added references to PHY and MAC ad-hocs.

# Monday, May 09, MAC/PHY (19:00-21:00)

Split call between MAC and PHY ad-hoc groups:

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0754-02-00be-minutes-of-tgbe-2022-may-interim-mac.docx>
* PHY: <https://mentor.ieee.org/802.11/dcn/22/11-22-0728-00-00be-minutes-802-11-be-phy-ad-hoc-may-2022-plenary-meeting.docx>

# Tuesday, May 10, Joint (09:00-11:00)

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 09:01 ET. The Chair notifies that the agenda is in [0595r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-04-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Procedural information. The Chair notifies that each individual has to register to the plenary. The Chair goes through procedures slide 3.
3. Meeting Protocol slides 4-5.
4. Attendance, voting and document status, slide 6.
5. Attendance reminder, slide 7:

3.1. Please record your attendance during the conference call by using the IMAT system:

Ueo 1) login to imat, 2) select “802.11 Electronic Plenary(<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.

* 1. If you are unable to record your attendance contact the Chair Alfred Asterjadhi and Secretary Dennis Sundman and we will help you.
1. IEEE-SA Policies and Procedure

Patent Policy, slide 9-10:

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. Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

1. The chair goes through Other guidelines for IEEE WG meetings, Patent-related information, Participation in IEEE 802 Meetings, and Copyright, slides 11-14. The Chair wants it noted in the minutes that slide 14: **Copyright Policy** was presented. The Chair encourages the group to carefully read slides 15-16 in [0595r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-04-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Announcements:
	1. TGbe officer re-election on Wednesday Joint session.
	2. PHY ad-hoc has completed their agenda items. Remaining meetings scheduled this week are cancelled.
3. Agenda:
	1. Discussion:

C: There is a document 610 that is revision 2 instead of revision 1.

C: Revision 2 on 269.

C: I (Insung Jang) will present instead of Jiin Kim.

C: Can you remove 314 from the agenda?

* 1. Agenda approved with unanimous consent.
1. [Guideline](https://mentor.ieee.org/802.11/dcn/20/11-20-0984-11-00be-tgbe-teleconference-guidelines.docx) Update
	1. Some questions and minor discussion.
2. CR Submissions:
	1. [1437r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1437-00-00be-resolution-for-cids-related-to-ml-probe-response.docx) Resolution for CIDs related to ML probe response Insung Jang [2C 10’]

Insung summarizes the comment resolution.

Motion 359

Move to approve resolutions to the CIDs:

* 6449, 5252 in [11-22/1437r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1437-01-00be-resolution-for-cids-related-to-ml-probe-response.docx)

and incorporate the text changes into the latest TGbe draft.

Move: Insun Jang Second: Edward Au

Discussion: None.

Result: Approved with unanimous consent.

Motion 360

Move to approve a resolution of:

“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.” for “these CIDs” and with referenced “documents” listed below:

* 4717, 4838 in [11-22/34r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0034-02-00be-cr-qos-characteristics-with-rtwt-setup.docx) *[2 CIDs, Discussed on May10’22: SP result: 20Y, 41N, 54A]*

Move: Jarkko Kneckt Second: Mike Montemurro

Discussion: None.

Result: Approved with unanimous consent.

* 1. [034r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0034-01-00be-cr-qos-characteristics-with-rtwt-setup.docx) CR - QoS characteristics with rTWT setup Binita Gupta [2C 20’]

Binita goes through the CRs.

Discussion:
C: TWT is on link level. Do we need link level setups for QoS charectaristics. The charectaristics are on the MLD level.

C: There is no T class element for SCS. In DL T class element is useful.

More discussion regarding P2P and QoS charectaristics.

**SP2:** Do you agree to resolve the following CIDs listed in [11-22/34r](https://mentor.ieee.org/802.11/dcn/22/11-22-0034-02-00be-cr-qos-characteristics-with-rtwt-setup.docx)2 and incorporate the text changes into the latest TGbe draft?

* 4717, 4838

Discussion: Yes, noted above.­­­­­­­­­

Result: 20Y, 41N, 54A

* 1. [573r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0573-00-00be-cid5999-cid5998-for-clause-35-3-15-6-sync-ppdu-start-time.docx) CID5999-CID5998-for-clause-35-3-15-6-sync-ppdu-start-time Dmitry Akhmetov [2C 10’]

Dmitry goes through the CRs.

Discussion:

C: Can you show where the RXTXturnaround time be 4 us?

A: I got it as requested by members.

Motion 361

Move to approve resolutions to the CIDs:

* 5999, 5998 in [11-22/573r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0573-01-00be-cid5999-cid5998-for-clause-35-3-15-6-sync-ppdu-start-time.docx)

and incorporate the text changes into the latest TGbe draft.

Move: Dmitry Akhmetov Second: Edward Au

Discussion: None.

Result: Approved with unanimous consent.

* 1. [610r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0610-01-00be-cr-for-cids-7662-and-7872-cc36.docx) CR for CIDs 7662 and 7872 (CC36) Peshal Nayak [2C 10’]

Peshal goes through the CRs.

Motion 362

Move to approve resolutions to the CIDs:

* 7662, 7872 in [11-22/610r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0610-03-00be-cr-for-cids-7662-and-7872-cc36.docx)

and incorporate the text changes into the latest TGbe draft.

Move: Peshal Nayak Second: Rubayet Shafin

Discussion: None.

Result: Approved with unanimous consent.

* 1. [0894r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0894-02-00be-channel-reservation-for-low-latency-traffic.pptx) Channel Reservation for Low Latency Traffic Liangxiao Xin [1C 20’]

Liangxiao goes through the presentation.

Discussion:

C: These SPs requires STAs that are non supporting. In 11be we ended up specifying TWT as optional feature. In SP1, any STA (legacy or TGbe not participating in TWT), they can not understand what is going on. In SP2, this rule will be ignored by legacy STA.

* 1. [313r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0313-00-00be-resolution-for-cid-related-to-status-code-field.docx) Resolution for CID related to Status Code field Insung Jang [1C 10’]

The one CID is rejected.

Motion 363

Move to approve resolutions to the CIDs:

* 7376 in [11-22/313r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0313-00-00be-resolution-for-cid-related-to-status-code-field.docx)

and incorporate the text changes into the latest TGbe draft.

Move: Insun Jang Second: Edward Au

Discussion: None.

Result: Approved with unanimous consent.

* 1. [2032r1](https://mentor.ieee.org/802.11/dcn/21/11-21-2032-01-00be-cc36-resolution-to-cid-5958-for-nstr-mobile-ap-mld-operation.docx) Resolution to CID 5958 for NSTR mobile AP MLD operation Liuming Lu [1C 10’]

Liuming goes through the document.

Discussion:

C: Have you considered the impact of this proposal to the overall access scheme?

A: Do you mean this particular bullet (page 3)

**SP8:** Do you agree to resolve the following CIDs listed in [11-21/2032r](https://mentor.ieee.org/802.11/dcn/21/11-21-2032-02-00be-cc36-resolution-to-cid-5958-for-nstr-mobile-ap-mld-operation.docx)2 and incorporate the text changes into the latest TGbe draft?

* 5958

Discussion: Yes, noted above.

Result: 6Y, 45N, 49A

Motion 364

Move to approve a resolution of:

“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.” for “these CIDs” and with referenced “documents” listed below:

* 5958 in [11-21/2032r](https://mentor.ieee.org/802.11/dcn/21/11-21-2032-02-00be-cc36-resolution-to-cid-5958-for-nstr-mobile-ap-mld-operation.docx)2 *[1 CIDs, Discussed on May 10’22: SP result: 6Y, 45N, 49A]*

Move: George Cherian Second: Edward Au

Discussion: None.

Result: Approved with unanimous consent.

* 1. [269r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0269-01-00be-cid-5944-discussion.pptx) CID 5944 discussion Li-Hsiang Sun [1C 20’]

Li-Hsiang presents the CID.

Running out of time.

1. AoB: No other business.
2. Recess at 11:00 ET

# Wednesday, May 11, Joint (9:00 – 11:00)

< Minutes by Matthew Fischer, Broadcom >

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 09:01 ET. The Chair notifies that the agenda is in [0595r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-04-00be-tgbe-may-2022-meeting-agenda.pptx).
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1. The chair goes through Other guidelines for IEEE WG meetings, Patent-related information, Participation in IEEE 802 Meetings, and Copyright, slides 11-14. The Chair wants it noted in the minutes that slide 14: **Copyright Policy** was presented. The Chair encourages the group to carefully read slides 15-16 in [0595r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-04-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Agenda:
	1. CR submission first hour, motions second hour
	2. Agenda approved with unanimous consent.
3. Request for closed captioning discussed, attempted to enable closed captioning, but it is not working
4. CR Submissions:
	1. [11-21-0894r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0894-06-00be-channel-reservation-for-low-latency-traffic.pptx) Channel Reservation for Low Latency Traffic LiangXiao Xin (Sony) [1C SP 10’]

Document presented in previous session, so LiangXiao Xin reviews the SPs.

Discussion:

C: Concerns about legacy device impact regarding failure to receive CTS potentially causing problems with rate selection and latency, concern about legacy STA receiving reduced access, reduced priority to medium

C: The expectation is that the failure to receive CTS will happen only once, legacy STA will miss CTS one time and will send a new RTS, either AP or participating rTWT STA will gain access to the channel, so that the legacy STA will not have additional opportunities to fail

C: Question on non-AP sharing TXOP with AP, non-AP sends CTS to AP, why?

C: Reverse direction grant exists, question of why a new mechanism is proposed

C: Text is general, indicated mechanism is not the only possible one to use, RDG is not sharing the TXOP, it is single PPDU at a time, proposed method in this doc is full TXOP sharing by the AP to address any STA, not just the RDG sharing STA

C: SP2, agree with previous commenter, does not see advantage of the 894 method

C: If only AP competes with several OBSS STA, rTWT access is slower, using 894 method, several STA can compete and win channel access, so that rTWT access time is reduced which improves latency

C: AP and STA know what traffic needs to be transmitted during rTWT

SP1: Do you support that A R-TWT scheduling AP may not send a CTS in response to an RTS from a STA which is not a member of the R-TWT SP during a R-TWT SP?

* Note: this SP aims to trigger the below change in the spec for the resolution of CID 4121

Discussion: Some.

Result: 18Y, 111N, 54A

Do you wish to run SP2?

Yes

SP2: Do you support that during a R-TWT SP, a member STA of the R-TWT SP can share its TXOP with the R-TWT scheduling AP?

Note: this SP aims to trigger the below change in the spec for the resolution of CID 4121

Discussion: Some.

Result: 12Y, 117N, 55A

* 1. [11-22-0536r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0536-00-00be-cc36-resolution-for-cid-5882.docx) cc36-resolution-for-cid-5882 LiangXiao Xin (Sony) [1C 15’]

LiangXiao discusses the document contents.

Discussion:

C: The resolution attempts to add, during rTWT negotiation that non-AP STA will be allowed to contend outside of the rTWT, but this is already allowed in the text, so this change is not needed

C: possible that TXOP is not obtained, then extend TWT SP or end the SP later, if need to choose the later option, then the AP needs to schedule additional traffic, this proposed bit would help the AP to decide whether to extend the SP or not, knowing if the STA will attempt access on its own outside of the TWT SP, also, the allowance for access outside of the SP is indicated as “should not”

C: agree with previous commenter, that access outside of TWT SP is already allowed, distinction here is that AP should be able to approve/decide whether non-AP STA is allowed to TX outside of the TWT SP

C: the decision is still given to the non-AP STA

C: but this new bit is a request from the STA

C: this bit means that AP will know definitively what the STA will do

SP1: Do you agree to resolve the following CIDs listed in [11-22/536r](https://mentor.ieee.org/802.11/dcn/22/11-22-0536-00-00be-cc36-resolution-for-cid-5882.docx)0 and incorporate the text changes into the latest TGbe draft?

* 5882

Discussion: Some.

Result: 14Y, 90N, 53A

* 1. [11-21-1111r14](https://mentor.ieee.org/802.11/dcn/21/11-21-1111-12-00be-mld-architecture-part-2.docx) mld-architecture-part-2 Mark Hamilton (Ruckus) [5C SP 20’]

Mark reviews the document contents.

Discussion:

C: Figure 5-28, block ack scoreboarding within each link, same block in upper MAC - why do we need in both?

C: scoreboarding per link vs scoreboarding partial v merging

C: per MPDU needs to be buffered for PS, why at MLD level? Buffer should be per link

C: management of PS state and mode is lower level at the link, buffering at MLD in case all links are PS, then must be done before SEQ assigned, cannot buffer after frame construction

C: this is not explained anywhere in D1.5, the case of all links in PS, should add text

C: should be FCS, not CRC creation, FCS is for MPDU, CRC is for AMPDU delimiter

C: will check

C: Figure 282b, seems duplicated

C: 2a is just ML, 2b adds STAs, so it becomes dense

C: page 7, per physical link, why “physical”, this is unique wording

C: ok to delete

C: Figure 4-30, lower v upper layer, shared by MLD and non-MLD upper layer, not certain that “MLD” is needed here, assuming “legacy” means non-MLD

C: use of legacy is not correct, agree

No SP

1. Motions (during 2nd half of meeting): [1982r72](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-72-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. Approve TG minutes

Move to approve TGbe minutes of teleconferences listed below:

* + - March Electronic: <https://mentor.ieee.org/802.11/dcn/22/11-22-0495-01-00be-tgbe-mar-2022-meeting-minutes.docx>
		- Teleconferences March-May: <https://mentor.ieee.org/802.11/dcn/22/11-22-0602-03-00be-mar-may-tgbe-teleconference-minutes.docx>

Move: Rojan Chitrakar Second: Edward Au

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 301

**Move to confirm Dennis Sundman as TGbe Secretary**

Move: Youhan Kim Second: Mike Montemurro

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion to confirm vice chairs

 **Move to confirm Laurent Cariou and Matthew Fischer as TGbe Vice Chairs**

Move: Subir Das Second: Po-kai Huang

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 365 (MAC-1)

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

* 4232, 4282, 5161, 5997, 6132, 6381, 6562, 6941, 7450, 7495 in [11-22/527r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0527-01-00be-remaining-11be-cids-misc.docx) *[10 CIDs]* &5337 in [11-22/552r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0552-03-00be-cc36-cr-for-individual-twt.docx) *[1 CID]*
* 5280, 6458, 5309, 5310, 5387, 4304, 5287, 6108, 6945 in [11-22/611r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0611-02-00be-cc36-cr-for-clause-10-and-clause-11.docx) *[9 CIDs] &* 7056 in [11-22/0011r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0011-01-00be-cr-of-cid-7056-and-7710.docx) *[1 CID]*
* 4283, 5028, 6176, 6619, 7319 in [11-21/1973r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1973-03-00be-comment-resolution-35-1-and-35-3-1.docx) *[5 CIDs]* &4836, 5127, 7782 in [11-21/1825r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1825-03-00be-remaining-cr-for-35-3-15-8-1.docx) *[3 CIDs]*
* 6345, 5932, 5747, 5905, 5773, 4932 in [11-22/306r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0306-05-00be-cc36-cr-emlsr-misc.docx) *[6 CIDs]* &4036, 4715, 4722, 5915, 6876 in [11-22/308r7](https://mentor.ieee.org/802.11/dcn/22/11-22-0308-07-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-3.docx) *[5 CIDs]*
* 4208, 4209, 5614, 5850, 7621 in [11-22/540r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0540-01-00be-cr-for-nstr-mobile-ap-mlo-part3.docx) *[5 CIDs] &* 5704, ~~5706~~, 5108, 5270, 5700 in [11-22/540r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0540-04-00be-cr-for-nstr-mobile-ap-mlo-part3.docx) *[5 CIDs]*

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

Move: Mike Montemurro Second: Abhishek Patil

Discussion:

Remove CID 5706

Result: Approved with unanimous consent.

* 1. Motion 366 (MAC-2)

Move to approve resolutions to the CIDs:

* 4042, 4043, 4044, 4065, 4254, 5050, 5210, 5211, 5306, 5308, 5323, 5324, 5325, 5326, 5327, 5361, 5604, 5605, 5667, 5910, 5918, 5972, 5973, 5974, 5975, 5976, 5977, 6195, 6196, 6197, 6202, 6264, 6265, 6392, 6488, 6631 in [11-21/1208r9](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-09-00be-cc36-resolution-for-cids-for-35-3-4-2.docx) *[41 CIDs]*
* 5253, 5254, 5278, 5769, 6245, 6446, 6447, 6448, 6450 in [11-22/551r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0551-00-00be-cc36-cr-for-misc-cids-related-to-ml-discovery-and-setup.docx) *[9 CIDs] &* 4419, 6660, 8169 in [11-22/1175r6](https://mentor.ieee.org/802.11/dcn/21/11-21-1175-06-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-1.docx) *[3 CIDs]*
* 7851, 6406, 5249, 6355, 5609, 4109, 5215, 6284, 5246, 5216, 6285, 8191, 6982, 5610, 6951, 8190, 6286, 6527, 6952, 5079, 6761, 7332, 6953, 6402, 6362, 5248, 6954, 6363, 7412, 7817, 8192, 8193, 4824, 7411 in [11-22/601r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0601-02-00be-cr-for-cids-on-tid-to-link-mapping-part-2.docx) *[34 CIDs]*
* 4922, 4923, 5185, 5187, 5188, 5189, 6043, 6045, 6653, 6933, 7447 in [11-22/575r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0575-02-00be-cc36-resolution-for-cids-related-to-clause-12.docx) [11 CIDs]
* 6070 in [11-22/254r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0254-03-00be-cc36-cr-on-broadcast-twt-for-mld.docx) *[1 CID]*
* 6629, 4049, 6359, 6182 in [11-22/599r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0599-02-00be-cr-for-miscellaneous-cids-part-ii.docx) *[4 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Laurent Cariou Second: Edward Au

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 367 (MAC-3)

Move to approve resolutions to the CIDs:

* 5289, 5332, 5335, 5338, 5341 in [11-21/1280r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1280-01-00be-cc36-cr-on-multi-link-element.doc) *[5 CIDs]*
* 6225 in [11-22/564r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0564-01-00be-cc36-cr-for-35-2-1-1.docx) *[1 CID]*
* 6075, 6076, 7001 in [11-22/631r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0631-02-00be-cc36-comment-resolution-for-miscellaneous-comments-part-3.docx) *[3 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Edward Au Second: Ming Gan

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 368 (JOINT-1)

Move to approve resolutions to the CIDs:

* ~~4262, 6012,~~ 4284, 4309, 4310 in [11-22/545r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0545-03-00be-cc36-cr-on-eht-operation-element-part2.doc) *[3 CIDs]*
* 6120, 6121 in [11-22/454r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0454-01-00be-joint-cr-miscellaneous-cc36.docx) *[2 CIDs]*
* 5452 in [11-22/571r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0571-00-00be-cc36-cid-5452.docx) *[1 CID]*
* 4149, 4592, 5230, 8062, 6025, 7039, 7344, 7710 in [11-22/660r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0660-01-00be-proposed-resolution-to-the-remaining-editorial-comments.docx) *[8 CIDs]*
* 6144, 7990 in [11-22/559r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0559-04-00be-cc36-cr-for-cids-6144-and-7990.doc) *[2 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Edward Au Second: Lei Zhou

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 369 (PDT)

Move to approve changes to the TGbe draft as specified in the following documents:

* **Joint:** [**11-22/661r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0661-00-00be-editorial-fixes-to-subclause-9-4-2-312-2-2.docx)
* **PHY:** [**11-22/625r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0625-00-00be-pdt-for-unify-the-terms-ru-mru-and-ru-or-mru.doc)**,** [**11-22/711r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0711-00-00be-eht-mcs-and-nss-set-fix.docx)

Move: Edward Au Second: Youhan Kim

Discussion:

Change document reference from 660r1 to 661r0

Result: Approved with unanimous consent.

* 1. Motion 370 (Remnant-1)

Move to approve the resolutions to the following CIDs:

* For CID 8263: “Revised - Incorporate the changes under CID 4811 as shown in [11-22//0039r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0039-03-00be-cc36-cr-on-35-2-1-3-part-2.docx)”
* ~~For CID 5977: “Revised - Incorporate the changes under CID 6197 as shown in~~ [~~11-22/1208r9~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-09-00be-cc36-resolution-for-cids-for-35-3-4-2.docx)~~”~~
* ~~For CID 5941: “Rejected - The cited section is within the new clause 35 for multi link, and further, in a subclause within a subclause that is titled multi link operation. It seems excessively redundant to keep repeating the phrase multi-link within the title of every subclause and sub-subclause. That would be like naming the chapters of the book moby dick as moby dick chapter 1, moby dick chapter 2, etc - you already know that you are reading moby dick. you don't need to be constantly reminded of it.”~~

and incorporate the text changes into the latest TGbe draft.

Move: Edward Au Second: Abhishek Patil

Discussion:

5977 already addressed by xxx

5941 addressed by motion 256

Result: Approved with unanimous consent.

* 1. Motion 371 (Withdrawal)
* **Move to approve “Rejected” resolutions to the CIDs:**
* **6224, 4010, 4083**
* **With the following rejection reason: “The commenter has withdrawn the comment”.**

Move: Bin Tian Second: Mike Montemurro

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 372 (Quarantine-1)

**Move to approve a resolution of:**

***“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:**

* ~~4015, 4034, 4204, 4312, 5063, 5351, 5375, 5945, 6331, 6332, 7463, 7635, 7827, 8035, 8051 in~~ [~~11-21/1175r6~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1175-06-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-1.docx) *[15 CIDs, SP on April 21, 2022: 48 Yes, 27 No, 24 Abs]*
* ~~4253~~, ~~4277~~, 4378, 5328, ~~6201~~ in [11-21/1208r9](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-09-00be-cc36-resolution-for-cids-for-35-3-4-2.docx) *[5 CIDs, Discussed on April 25, 2022: No SP]*
* 7606 in [11-21/1259r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1259-05-00be-cr-35-3-14-3-nstr-operation.docx)  *[1 CID,* Discussed last year. *No SP]*
* ~~4027, 5030, 5692, 5759, 5956, 5957, 6347, 6498, 6766, 6767, 6895, 7671, 8179 in~~ [~~11-21/1793r3~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1793-03-00be-cc36-cr-for-enterprise-grade-tid-mapping.docx)*~~[13 CIDs, Discussed on April 18, 2022: No SP]~~*
* 5105, 5362, 6136, 6320, 6556 in [11-21/1825r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1825-01-00be-remaining-cr-for-35-3-15-8-1.docx) *[5 CIDs, Discussed on March 29, 2022: No SP]*
* 8184 in [11-21/1825r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1825-03-00be-remaining-cr-for-35-3-15-8-1.docx) *[1 CID, Discussed on April 18, 2022: No SP]*

Move: Mike Montemurro Second: Ming Gan

Discussion:

4253 remove this CID

4277 remove this CID

6201 remove

1793r4 yet to be presented, pending SP, remove associated CIDs

1175r6 pending a decision, remove from the list

Result: Approved with unanimous consent.

* 1. Motion 373 (Quarantine-2)

**Move to approve a resolution of:**

***“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:**

* 6032 in [11-21/1877r9](https://mentor.ieee.org/802.11/dcn/21/11-21-1877-09-00be-cr-for-mld-individually-addressed-management-frame-delivery.docx) *[1 CID, Motioned on March 14, 2022: 89 Yes, 71 No, 32 Abs; SP on Mar. 10, 2022: 41Y, 32N, 28A; Discussed on Mar. 7, 2022: No SP]*
* 6105 in [11-21/2009r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2009-02-00be-cr-for-3-2.docx)  *[1 CID, Discussed on January 20, 2022: No SP]*
* 4029, 4334, 4335, 4336, 5357, 6247, 6248, 6326, 6586, ~~6885~~, 6984, 7822, 7866, 8049 in [11-22/306r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0306-01-00be-cc36-cr-emlsr-misc.docx)  *[14 CIDs, Discussed on March 24, 2022: No SP]*
* ~~6629 in~~ [~~11-22/0526r1~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0526-01-00be-cr-for-miscellaneous-cids.docx)*~~[1 CID, Discussed on April 14, 2022: No SP]~~*
* 4293, 4294 in [11-22/0527r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0527-01-00be-remaining-11be-cids-misc.docx) *[2 CIDs, Discussed on April 18, 2022: No SP]*
* ~~6898 in~~ [~~11-22/0547r5~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0547-05-00be-cc36-cr-for-qos-related-and-misc-topics.docx)*~~[1 CID, Discussed on April 11, 2022: No SP]~~*

Move: Laurent Cariou Second: Edward Au

Discussion:

6629 remove

6898 remove, see 200r1

6885 remove

Result: Approved with unanimous consent.

* 1. Motion 374 (Quarantine-3)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* ~~5256, 5281, 5651, 6240, 6241, 6242 in~~ [~~11-22/0552r3~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0552-03-00be-cc36-cr-for-individual-twt.docx)*~~[6 CIDs, Discussed on April 25, 2022: No SP]~~*
* 4762, 4763, 5223, 5224, 5613, 5669, 5846, 6066, 6067, 6135, 6218, 6220, 6422, 6550, 6742, 6881, 7614, 8050, 8359, 8361 in [11-22/0570r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0570-03-00be-cc36-comment-resolution-for-miscellaneous-comments-part-2.docx) *[20 CIDs Discussed on April 7, 2022: No SP]\*\**
* 4028, 4030, 5040, 5042 in [11-22/0611r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0611-02-00be-cc36-cr-for-clause-10-and-clause-11.docx) *[4 CIDs, Discussed on April 18, 2022: No SP]*
* 4714, 7886 in [11-21/1416r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1416-01-00be-cr-for-txop-termination-of-nstr-mld.docx) *[2 CIDs, Discussed on October 11, 2021: No SP]\**
* 5880 in [11-22/894r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0894-06-00be-channel-reservation-for-low-latency-traffic.pptx) *[1 CID, Discussed on May 11, 2022: SP results: 18 Yes, 111 No, 54 Abs and 12 Yes, 117 No, 55 Abs]\**
* 5882 in [11-22/536r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0536-00-00be-cc36-resolution-for-cid-5882.docx) *[1 CID, Discussed on May 11, 2022: SP results: 14 Yes, 90 No, 53 Abs]\**
* 5877, 5879, 6356, 6547, 7865 in [11-21/1913r6](https://mentor.ieee.org/802.11/dcn/21/11-21-1913-06-00be-cc36-cr-consideration-on-edca-operation-for-restricted-twt.pptx) *[5 CIDs, Discussed on Jan 13’22: No SP; Discussed on Mar 10’22; No SP]*

*Note: CIDs that have been discussed and for which the group could not reach consensus.*

*\*Recent addition (05/10/2022), based on latest POC’s status report and discussions in Joint session.*

*\*\*Liwen’s pending document in the queue that contains 20 CIDs in quarantine and 10 pending discussion.*

Move: George Cherian Second: Laurent Cariou

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 375 (Post-Q)

Move to approve “Rejected” resolutions to the CIDs:

* 4015, 5063 in [11-21/1869r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1869-00-00be-cr-for-mle-fragmentation.docx) ~~&~~ [~~11-21/1508r4~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1508-04-00be-cc36-comment-resolution-multi-link-element-fragmentation.docx)*[2 CIDs, Discussed on Jan 6’22: No SP; SP on Jan 13’22: 48Y, 49N, 18A; SP on Apr 21: 35 for1869r0, 56 for 1508r4, 43A]*

With the following rejection reason: “The commenter has withdrawn the comment”.

Move: Jason Guo Second: Guogang Huang

Discussion:

* + - 1. Request for a count
			2. Request for published list of votes

Preliminary Result: Y, N, A, nv: 105, 7, 34, 153

Result: Y/N/A: 103/7/32 🡪 Passes

* 1. Motion 376 (Post-Q) - NOT MOVED

Move to approve resolutions to the CIDs:

* + 4015, 5063 in [~~11-21/1869r0~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1869-00-00be-cr-for-mle-fragmentation.docx)& [11-21/1508r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1508-04-00be-cc36-comment-resolution-multi-link-element-fragmentation.docx) *[2 CIDs, Discussed on Jan 6’22: No SP; SP on Jan 13’22: 48Y, 49N, 18A; SP on Apr 21: 35 for1869r0, 56 for 1508r4, 43A]*

and incorporate the text changes into the latest TGbe draft.

Move: Second:

Discussion:

NOT MOVED

* 1. Motion 377 (Post-Q)

Move to approve resolutions to the CIDs:

* 5877, 5879, 6356, 6547, 7865 in [11-21/1913r6](https://mentor.ieee.org/802.11/dcn/21/11-21-1913-06-00be-cc36-cr-consideration-on-edca-operation-for-restricted-twt.pptx) *[5 CIDs, Discussed on Jan 13’22: No SP; Discussed on Mar 10’22; No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Abhishek Patil Second: Mike Montemurro

Discussion:

Change to r6

Result: Approved with unanimous consent.

* 1. Motion 378 (Post-Q)

Move to approve resolutions to the CIDs:

* 4068, 7881 in [11-21/1185r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1185-05-00be-cc36-resolution-for-cids-related-to-mbssid-part-2.docx) *[ 2 CIDs, Discussed on Mar 31’22: No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Arik Klein Second: Ming Gan

Discussion: No discussion.

Result: Approved with unanimous consent.

1. AoB:
	1. Editor gives CID count update
	2. Chair discusses a new document (no DCN) that includes all CIDs with no DCN
		1. CID 7864 should be removed from this new document
	3. MAC call later today
2. Recess at 11:00 ET.

# Wednesday, May 11, MAC/PHY (19:00-21:00)

Split call between MAC and PHY ad-hoc groups, and PHY had finished their agenda.

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0754-02-00be-minutes-of-tgbe-2022-may-interim-mac.docx>

# Thursday, May 12, Joint (9:00-11:00)

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 09:01 ET. The Chair notifies that the agenda is in [0595r11](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-11-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Procedural information. The Chair notifies that each individual has to register to the plenary. The Chair goes through procedures slide 3.
3. Meeting Protocol slides 4-5.
4. Attendance, voting and document status, slide 6.
5. Attendance reminder, slide 7:

3.1. Please record your attendance during the conference call by using the IMAT system:

Ueo 1) login to imat, 2) select “802.11 Electronic Plenary(<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.

* 1. If you are unable to record your attendance contact the Chair Alfred Asterjadhi and Secretary Dennis Sundman and we will help you.
1. IEEE-SA Policies and Procedure

Patent Policy, slide 9-10:

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. Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

1. The chair goes through Other guidelines for IEEE WG meetings, Patent-related information, Participation in IEEE 802 Meetings, and Copyright, slides 11-14. The Chair wants it noted in the minutes that slide 14: **Copyright Policy** was presented. The Chair encourages the group to carefully read slides 15-16 in [0595r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-04-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Agenda:
	1. I think we will not reach any progress in document 1111r15, so I suggest we remove it from here. 🡪 removed.
	2. Agenda approved with unanimous consent.
3. CR Submissions:
	1. [269r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0269-04-00be-cid-5944-discussion.pptx) CID 5944 discussion Li-Hsiang Sun [1C 10’ SP]

Li-Hsiang goes through the CID.

Discussion:

C: What about the secondary link in slide 4 is much stronger than primary link? Then the PPDU in primary link may fail.

A: I haven’t considered that. But I think we can fix that.

C: For the first SP for “PPDU STR MLD”, not “…MLDs”. For the second SP, its different STAs or different MLDs? Maybe say “… different STAs of different MLDs”.

SP1: Do you agree to allow UL PPDU end time alignment for PPDUs from a STR MLD~~s~~ on the primary and secondary link in a NSTR mobile AP BSS? i.e. start time of the primary link may be earlier than the secondary link.

Discussion:

C: Maybe we only want to allow the primary link can be earlier than the secondary link. Because if the secondary link starts first, the primary link may be suspended due to OBSS transmission. Then the non-primary link may not be transmitted at all. Update the SP.

Result: Y/N/A: 30/56/68.

🡪 Chair recommends CID to go to quarantine.

* 1. [599r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0599-05-00be-cr-for-miscellaneous-cids-part-ii.docx) CR for Miscellaneous CIDs part II Po-Kai Huang [4C 10’ SP]

Po-Kai goes through the document.

Discussion: No discussion.

SP: Do you agree to resolve the following CIDs listed in [11-22/599r](https://mentor.ieee.org/802.11/dcn/22/11-22-0599-06-00be-cr-for-miscellaneous-cids-part-ii.docx)6 and incorporate the text changes into the latest TGbe draft?

* 5303, 5275, 6642, 8338

Discussion: None.

Result: Supported with no objection from the group.

* 1. [683r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0683-01-00be-cc36-cr-for-clause-35-7-2.docx) CC36-CR-for-Clause-35.7.2 Arik Klein [3C 10’]

Arik goes through the comments.

Discussion: No discussion.

SP: Do you agree to resolve the following CIDs listed in [11-22/683r](https://mentor.ieee.org/802.11/dcn/22/11-22-0683-01-00be-cc36-cr-for-clause-35-7-2.docx)1 and incorporate the text changes into the latest TGbe draft?

* 4426, 5802, 4427

Discussion: None.

Result: Supported with no objection from the group.

* 1. [684r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0684-00-00be-cc36-cr-for-cid-4405.docx) CC36-CR-for-CID-4405 Arik Klein [1C 10’]

Arik goes through the comment.

Discussion: No discussion.

SP: Do you agree to resolve the following CIDs listed in [11-22/684r](https://mentor.ieee.org/802.11/dcn/22/11-22-0684-00-00be-cc36-cr-for-cid-4405.docx)0 and incorporate the text changes into the latest TGbe draft?

* 4405

Discussion: None.

Supported with no objection from the group.

1. CR Submissions for CIDs with No DCNs
	1. [742r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0742-00-00be-cc36-cr-for-cids-35-11-3.docx) cc36-cr-for-cids-35-11-3 Yonggang Fan [1C 5’]

Yonggang goes through the comment.

Discussion:

C: Minor typological update.

SP: Do you agree to resolve the following CIDs listed in [11-22/742r](https://mentor.ieee.org/802.11/dcn/22/11-22-0742-01-00be-cc36-cr-for-cids-35-11-3.docx)1 and incorporate the text changes into the latest TGbe draft?

* 7864

Discussion: None.

Supported with no objection from the group.

* 1. [750r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0750-00-00be-cr-for-7727.docx) CR for 7727 Xiaofei WANG [1C 5’]

Xiaofei goes through the comment.

Discussion:

C: An EHT STA is an HE STA by definition.

C: Maybe we can defer this change to the next round. It’s not a major change. So reject for now.

SP: Do you agree to resolve the following CIDs listed in [11-22/750r](https://mentor.ieee.org/802.11/dcn/22/11-22-0750-02-00be-cr-for-7727.docx)2 and incorporate the text changes into the latest TGbe draft?

* 7727

Discussion: No discussion.

Result: Supported with no objection from the group.

1. Motions: [1982r75](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-75-00be-tgbe-motions-list-for-teleconferences-part-2.pptx) (includes submissions in Post-Q state) – during second hour
	1. Motion 379 (MAC-1)

Move to approve resolutions to the CIDs:

* 7359, 7455, 8046, 8183, 8333 in [11-21/1208r9](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-09-00be-cc36-resolution-for-cids-for-35-3-4-2.docx) *[5 CIDs]*
* ~~5706 in~~ [~~11-22/540r4~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0540-04-00be-cr-for-nstr-mobile-ap-mlo-part3.docx) ~~[1 CID] & 7489 in 11-22/570r7 [1 CID]~~
* 4590 in [11-22/600r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0600-03-00be-some-tdls-cids-resolution.docx) [1 CIDs] & 6943, 5363 in [11-21/1278r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1278-02-00be-cc36-cr-for-d1-0-afc-cids.docx) [2 CIDs]
* 8033 in 11-22/314r2 [1 CID] & 4301 in 11-22/185r1 [1 CID]
* 5303, 5275, 6642, 8338 in [11-22/599r6](https://mentor.ieee.org/802.11/dcn/22/11-22-0599-06-00be-cr-for-miscellaneous-cids-part-ii.docx) [4 CIDs] & 4426, 5802, 4427 in [11-22/683r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0683-01-00be-cc36-cr-for-clause-35-7-2.docx) [3 CIDs] & 4405 in [11-22/684r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0684-00-00be-cc36-cr-for-cid-4405.docx) [1 CID]
* 7864 in [11-22/742r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0742-01-00be-cc36-cr-for-cids-35-11-3.docx) *[1 CID]* & 7727 in [11-22/750r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0750-02-00be-cr-for-7727.docx) *[1 CID]*

and incorporate the text changes into the latest TGbe draft.

\*Additions from Wednesday’s EVE MAC session.

Move: Edward Au Second: George Cherian

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 380 (Quarantine-1)

**Move to approve a resolution of:**

***“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:**

* ~~4286, 5159 in~~ [~~11-22/0631r2~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0631-02-00be-cc36-comment-resolution-for-miscellaneous-comments-part-3.docx)*~~[2 CIDs, Discussed on May 9, 2022; No SP]~~*
* ~~4296 in~~ [~~11-21/1931r3~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1931-04-00be-cc36-cr-on-cid-4296-ess-report-element.docx)*~~[ 1 CID, Discussed on April 28, 2022; No SP]~~*
* 4662, 4708, ~~4712, 4713, 4769~~, 4770, 4771, 4934, 4936, 4938, 5082, 5771, 6062, 6334, 8052 in [11-22/0538r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0538-03-00be-cc36-resolution-to-cids-for-35-6.docx) *[ 14 CIDs, Discussed on April 14 and April 25, 2022; No SP]*
* ~~4738, 5027, 5235, 5962, 6384, 8194 in~~ [~~11-22/0186r1~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0186-01-00be-cc36-cr-txop-return-in-mu-rts-txs.docx)*~~[6 CIDs , Discussed on May 9, 2022; No SP]~~*
* 4832, 5672, 5765, 6315, 7629, 8195 in [11-22/0026r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0026-02-00be-cc36-cr-of-nstr-capability-update.docx) *[6 CIDs , Discussed on March 31, 2022 and May 5, 2022; No SP]*
* *6898 in* [*11-22/0547r5*](https://mentor.ieee.org/802.11/dcn/22/11-22-0547-05-00be-cc36-cr-for-qos-related-and-misc-topics.docx) *[1 CID, Discussed on April 11, 2022: No SP]*

Move: Abhishek Patil Second: George Cherian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 381 (Quarantine-2)

**Move to approve a resolution of:**

***“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:**

* 5247 in [11-22/0601r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0601-01-00be-cr-for-cids-on-tid-to-link-mapping-part-2.docx) *[1 CID, Discussed on April 28, 2022; No SP]*
* 5360 in [11-22/0575r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0575-02-00be-cc36-resolution-for-cids-related-to-clause-12.docx) *[1 CID, Discussed on May 5, 2022; No SP]*
* 5876, 6335, 6411, 8053 in [11-22/0139r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0139-01-00be-cr-for-rtwt-txop-rules.docx) *[4 CIDs, Discussed on April 28, 2022; No SP]*
* ~~5926, 6420, 6421, 6879, 6885, 6896, 7868 in~~ [~~11-22/0254r3~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0254-03-00be-cc36-cr-on-broadcast-twt-for-mld.docx)*~~[7 CIDs, Discussed on April 14 and May 5, 2022; No SP]~~*
* ~~6643, 5154, 4027, 5038, 5030, 5692, 5759, 5956, 5957, 6347, 6498, 6766, 6767, 6895, 7671, 8179 in~~ [~~11-21/1793r5~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1793-05-00be-cc36-cr-for-enterprise-grade-tid-mapping.docx)

 *~~[16 CIDs, Discussed on May 11, 2022; SP: 76Y, 55N, 18A]~~*

* 5944 in [11-22/269r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0269-04-00be-cid-5944-discussion.pptx) *[1 CID, Discussed on May 12, 2022; SP1a: 30Y, 56N, 68A]*

Move: Abhishek Patil Second: Rojan Chitrakar

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 382 (Post-Q)

Discussion:

Abhishek Patil shows some updates.

Move to approve resolutions to the CIDs:

* 4034, 4204, 4312, 5351, 5375, 5945, 6331, 6332, 7463, 7635, 7827, 8035, 8051 in [11-21/1175r7](https://mentor.ieee.org/802.11/dcn/21/11-21-1175-07-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-1.docx) *[13 CIDs, SP on April 21, 2022: 48 Yes, 27 No, 24 Abs]*

and incorporate the text changes into the latest TGbe draft.

Move: Abhishek Patil Second: George Cherian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 383 (Post-Q)

Laurent Cariau goes through some updates.

Discussion:

C: 6201 you are refering to 1.5 and 1.2, which one is the baseline?

C: 1.2 should be fine, but I don’t think I noted line number.

C: Mike will give the correct baseline number, page and line, 4069 resolution, to the editor.

C: Top of page 27, the clause number 35.3.6.2.2 there should be brackets on the title after that.

C: I think we should run the CIDs seperately.

Move to approve resolutions to the CIDs:

* 4253, ~~4277~~, 6201 in [11-21/1208r12](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-12-00be-cc36-resolution-for-cids-for-35-3-4-2.docx) *[2 CIDs, Discussed on April 25, 2022: No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Abhishek Patil Second: Ming Gan

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 384 (Post-Q)

Move to approve resolutions to the CIDs:

* 4277 in [11-21/1208r13](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-13-00be-cc36-resolution-for-cids-for-35-3-4-2.docx) *[1 CIDs, Discussed on April 25, 2022: No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Yanjun Sun Second: George Cherian

Discussion: Some discussion (see Motion 383)

Preliminary Result: Y/N/A: 78/32/52 🡪 Preliminary fails.

Result: Y/N/A: 73/32/52 🡪 fails.

* 1. Motion 385 (Post-Q)

Ming Gan provides an update.

Move to approve resolutions to the CIDs:

* ~~5256~~, 5281, ~~5651~~, 6240, 6241, 6242 in [11-22/0552r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0552-04-00be-cc36-cr-for-individual-twt.docx) *[6 CIDs, Discussed on April 25, 2022: No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Ming Gan Second: Rubayet Shafin

Discussion:

C: The keypoint is whether we allow multiple links in the bitmap. So the framework is already there. I don’t see any complication. It’s essentially simplifying.

Preliminary Result:Y/N/A: 61/65/35 🡪 Preliminary fails.

Result: Y/N/A: 60/63/35 🡪 fails.

* 1. Motion 386 (Post-Q)

Insun Jang provides an update to the CR.

Discussion:
C: I think we need to update this resolution.

Move to approve resolutions to the CIDs:

* 6457 in [*11-22/61r4*](https://mentor.ieee.org/802.11/dcn/22/11-22-0061-04-00be-cc36-cr-for-ml-probing-to-retrieve-critical-update.docx) [1 CID, Discussed on March 21; No SP]

and incorporate the text changes into the latest TGbe draft.

Move: Insun Jang Second: Abhishek Patil

Discussion:

C: I still think this CR is not good and needs improvement before it can be accepted.

Preliminary Result: Y/N/A: 72/44/53 🡪 Preliminary fails.

Result: Y/N/A: 70/41/53 🡪 fails.

1. AoB:
	1. We have 125 CIDs to go.
2. Recess at 11:00 ET.

# Thursday, May 12, MAC/PHY (19:00-21:00)

Split call between MAC and PHY ad-hoc groups, and PHY had finished their agenda.

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0754-02-00be-minutes-of-tgbe-2022-may-interim-mac.docx>

# Monday, May 16, Joint (9:00-11:00)

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 09:01 ET. The Chair notifies that the agenda is in [0595r14](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-14-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Procedural information. The Chair notifies that each individual has to register to the plenary. The Chair goes through procedures slide 3.
3. Meeting Protocol slides 4-5.
4. Attendance, voting and document status, slide 6.
5. Attendance reminder, slide 7:

3.1. Please record your attendance during the conference call by using the IMAT system:

Ueo 1) login to imat, 2) select “802.11 Electronic Plenary(<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.

* 1. If you are unable to record your attendance contact the Chair Alfred Asterjadhi and Secretary Dennis Sundman and we will help you.
1. IEEE-SA Policies and Procedure

Patent Policy, slide 9-10:

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. Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

1. The chair goes through Other guidelines for IEEE WG meetings, Patent-related information, Participation in IEEE 802 Meetings, and Copyright, slides 11-14. The Chair wants it noted in the minutes that slide 14: **Copyright Policy** was presented. The Chair encourages the group to carefully read slides 15-16 in [0595r14](https://mentor.ieee.org/802.11/dcn/22/11-22-0595-14-00be-tgbe-may-2022-meeting-agenda.pptx).
2. Agenda:
	1. Agenda approved with unanimous consent.
3. **TGbe Editor Status Report:** [**11-21/1062r7**](https://mentor.ieee.org/802.11/dcn/21/11-21-1062-07-00be-tgbe-editor-s-report-on-cc36-and-cc37.ppt)[09:10’-09:14’]

**Amending the agenda.**

1. **Motions:** [**11-20/198**](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-76-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)[2](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-77-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)[**r77**](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-76-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. Motions 388 (MAC-1)

Move to approve resolutions to the CIDs:

* 4276 in [11-21/1584r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1584-04-00be-cc36-resolution-for-cids-related-to-mlo-ba-procedures-part-3.docx) *[1 CID]*
* 6057, 6058, 6059, 7800 in [11-22/757r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0757-02-00be-cr-for-cid-6057-6058-6059.docx) *[4 CIDs]*
* 4077, 4080, 4238, 4288, 4730, 4926, 4933, 5061, 5135, 5262, 5307, 5333, 5334, 5347, 5502, 5504, 5535, 5772, 6065, 6227, 6243, 6457, 6496, 6515, 6654, 6655, 6656, 6758, 6889, 6947, 7346, 7575, 8060, 8154, 8271, 8272 in [11-22/749r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0749-04-00be-mac-cr-miscellaneous-no-dcns.docx) *[36 CIDs]*
* 5225, 5705, 5706, 8212, 5269 in [11-22/540r7](https://mentor.ieee.org/802.11/dcn/22/11-22-0540-07-00be-cr-for-nstr-mobile-ap-mlo-part3.docx) *[5 CIDs]*
* 4180, 5698 in [11-22/564r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0564-01-00be-cc36-cr-for-35-2-1-1.docx) *[2 CIDs]*
* 4286 in [11-22/631r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0631-04-00be-cc36-comment-resolution-for-miscellaneous-comments-part-3.docx) *[1 CID]*

and incorporate the text changes into the latest TGbe draft.

Move: Abhishek Patil Second: Edward Au

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 389 (Withdrawal-1)

Move to approve “Rejected” resolutions to the CIDs:

* 7892

With the following rejection reason: “The commenter has withdrawn the comment”.

Move: Edward Au Second: Abhishek Patil

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 390 (Remnant-2)

Alfred informs there was a typo before, so we run it now.

Move to approve the resolutions for the following CIDs:

* For CID 5841: “Rejected - The cited section is within the new clause 35 for multi link, and further, in a subclause within a subclause that is titled multi link operation. It seems excessively redundant to keep repeating the phrase multi-link within the title of every subclause and sub-subclause. That would be like naming the chapters of the book moby dick as moby dick chapter 1, moby dick chapter 2, etc - you already know that you are reading moby dick. you don't need to be constantly reminded of it.”

and incorporate the text changes into the latest TGbe draft.

Move: Edward Au Second: Ming Gan

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 391 ([11-21/1111r17](https://mentor.ieee.org/802.11/dcn/21/11-21-1111-17-00be-mld-architecture-part-2.docx), Mark Hamilton)

Mark provides a summary.

Move to approve resolutions to the CIDs:

* 5171, 5172, 5173, 6187, 7349 in [11-21/1111r17](https://mentor.ieee.org/802.11/dcn/21/11-21-1111-17-00be-mld-architecture-part-2.docx) *[5 CIDs]*

and incorporate the text changes into the latest TGbe draft

Move: Stephen McCann Second: Xiangxin Gu

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motions 392 (Quarantine-1)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 5181, 5184 in [11-22/704r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0704-01-00be-cr-for-multi-link-security-for-individually-addressed-management-frame.docx) *[2 CIDs, Discussed on May 5 & May 10’22; SP on May 12’22: 23Y, 51N, 30A]*
* 4822 in [11-22/200r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0200-04-00be-cc36-cr-for-qos-characteristics-element.docx) *[1 CID, SP on May 12’22: 33Y /31N/ 36A]*
* ~~4419, 6660, 8169 in~~ [~~11-21/1175r6~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1175-07-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-1.docx)*~~[3 CIDs, SP on April 21’22: 48Y, 27N, 24A; SP on Jan 13’22: 48Y, 49N, 18A]~~*
* 4277 in [11-21/1208r13](https://mentor.ieee.org/802.11/dcn/21/11-21-1208-13-00be-cc36-resolution-for-cids-for-35-3-4-2.docx) *[1 CID, Motion on May 12, 2022: 78Y, 32N, 52A\*; Discussed on April 25’22]*
* ~~4738, 5027, 5235, 5962, 6384, 8194 in~~ [~~11-22/186r1~~](https://mentor.ieee.org/802.11/dcn/22/11-22-0186-01-00be-cc36-cr-txop-return-in-mu-rts-txs.docx)*~~[6 CIDs, Discussed on May 9’22. No SP]~~*

Move: Bin Tian Second: Ming Gan

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 393 (Quarantine-2)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 5256, 5651 in [11-22/552r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0552-03-00be-cc36-cr-for-individual-twt.docx) *[Discussed on April 25’22. No SP]*
* 5281, 6240, 6241, 6242 in [11-22/552r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0552-04-00be-cc36-cr-for-individual-twt.docx) *[Motioned on May 12’22: 60Y, 63N, 35A. Discussed on April 25’22. No SP]*
* 5032 in [11-22/580r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0580-00-00be-cc36-for-cid-5032.pptx) *[Discussed on May 11’22. No SP]*
* 5356, 7434 in [11-22/599r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0599-03-00be-cr-for-miscellaneous-cids-part-ii.docx) *[Discussed on May 5’22 & May 10’22. No SP]*
* 4033, 4593 in [11-22/600r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0600-01-00be-some-tdls-cids-resolution.docx) *[Discussed on May 11’22. No SP]*
* 5159 in [11-22/0631r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0631-02-00be-cc36-comment-resolution-for-miscellaneous-comments-part-3.docx) *[Discussed on May 9’22. No SP]*

Move: Abhishek Patil Second: Laurent Cariou

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 394 ([11-21/1793r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1793-06-00be-cc36-cr-for-enterprise-grade-tid-mapping.docx), Pooya Monajemi) [09:35’-09:44’]

Pooya provides a summary of the resolutions.

Discussion:

C: I strongly support this document. This enables efficient operation of TGbe in enterprise situations.

C: I also support this document.

C: This mapping is needed to avoid disassociation.

C: I have a concern with this solution and am not in favor of it.

Move to approve resolutions to the CIDs:

* 4660, 4661, 5078, 5145, 5158, 5956, 5957, 4027, 6765, 6766, 6767, 6895, 7671, 8179, 5030, 5759, 6347, 6498, 5962 in [11-21/1793r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1793-08-00be-cc36-cr-for-enterprise-grade-tid-mapping.docx)  *[19 CIDs, Discussed on May 11, 2022; SP: 76Y, 55N, 18A]*

and incorporate the text changes into the latest TGbe draft.

Move: Abhishek Patil Second: Brian Hart

Discussion: Some.

Preliminary Result: Y/N/A: 99/83/18 🡪 Preliminary fails.

Result: Y/N/A: 95/79/18 🡪 fails.

* 1. Motion 395 ([11-22/538r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0538-05-00be-cc36-resolution-to-cids-for-35-6.docx), Chunyu Hu) [09:45’-09:54’]

Chunyu provides an update to the document.

Discussion:

C: We need to address some cases that are not addressed here.

C: I support this motion.

Move to approve resolutions to the CIDs:

* 4712, 4713, 4769, 6062 in [11-22/0538r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0538-05-00be-cc36-resolution-to-cids-for-35-6.docx) [*4 CIDs, Discussed on April 14 and April 25, 2022; No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Chunyu Hu Second: Xiangxin Gu

Discussion: Some.

Preliminary Result: Y/N/A: 78/54/53 🡪 Preliminary fails.

Result: Y/N/A: 75/53/52 🡪 fails.

* 1. Motion 396 ([11-21/1931r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0538-05-00be-cc36-resolution-to-cids-for-35-6.docx), Guogang Huang) [09:55’-10:04’]

Guogang provides a summary of the document.

Move to approve resolutions to the CIDs:

* 4296 in [11-21/1931r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1931-05-00be-cc36-cr-on-cid-4296-ess-report-element.docx) *[1 CID, Discussed on April 28, 2022; No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Guogang Huang Second: Yunbo Li

Discussion: Some.

Preliminary Result: Y/N/A: 31/71/56 🡪 Preliminary fails.

Result: Y/N/A: 31/68/55 🡪 fails.

* 1. Motion 397 ([11-22/254r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0538-05-00be-cc36-resolution-to-cids-for-35-6.docx), Rubayet Shafin) [10:05’-10:14’]

Move to approve resolutions to the CIDs:

* 5926, 6420, 6421, 6879, 6885, 6896, 7868, 6391 in [11-22/0254r7](https://mentor.ieee.org/802.11/dcn/22/11-22-0254-07-00be-cc36-cr-on-broadcast-twt-for-mld.docx) *[7 CIDs, Discussed on April 14 & May 5’22; No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Rubayet Shafin Second: Ming Gan

Discussion: Some

Preliminary Result: Y/N/A: 33/90/41 🡪 Preliminary fails

Result: Y/N/A: 33/88/41 🡪 fails.

* 1. Motion 398 ([11-22/186r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0186-03-00be-cc36-cr-txop-return-in-mu-rts-txs.docx), Yunbo Li) [10:15’-10:19’]

Yunbo goes through the document.

Discussion:

C: Comment 5962 has been double-resolved, thus we keep it in this document

Move to approve resolutions to the CIDs:

* 4738, 5027, 5235, 5962, 6384, 8194 in [11-22/186r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0186-03-00be-cc36-cr-txop-return-in-mu-rts-txs.docx)  *[6 CIDs, Discussed on May 9’22. No SP]*

and incorporate the text changes into the latest TGbe draft.

Move: Abdel Karim Ajami Second: Ming Gan

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 399 (Quarantine 3) [10:20’-10:24’]

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 4660, 4661, 5078, 5145, 5158, 5956, 5957, 4027, 6765, 6766, 6767, 6895, 7671, 8179, 5030, 5759, 6347, 6498, ~~5962~~ in [11-21/1793r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1793-08-00be-cc36-cr-for-enterprise-grade-tid-mapping.docx)  *[18 CIDs, Discussed on May 11, 2022; SP: 76Y, 55N, 18A, Motion\* on May 16’22: 99Y, 83N, 18A]*
* 4712, 4713, 4769, 6062 in [11-22/0538r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0538-05-00be-cc36-resolution-to-cids-for-35-6.docx) *[4 CIDs, Disc. on April 14 & April 25’22; No SP, Motion\* on May 16’22: 78Y, 54N, 53A]*
* 4296 in [11-21/1931r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1931-05-00be-cc36-cr-on-cid-4296-ess-report-element.docx) *[1 CID, Discussed on April 28, 2022; No SP, Motion\* on May 16’22: 31Y, 71N, 56A]*
* 5926, 6420, 6421, 6879, 6885, 6896, 7868, 6391 in [11-22/0254r7](https://mentor.ieee.org/802.11/dcn/22/11-22-0254-07-00be-cc36-cr-on-broadcast-twt-for-mld.docx) *[7 CIDs, Disc. on April 14 & May 5’22; No SP, Motion\* on May 16’22: 33Y, 90N, 41A]*

Move: Rojan Chitrakar Second: Ming Gan

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 400 (Remnant-2: [11-22/749r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0749-04-00be-mac-cr-miscellaneous-no-dcns.docx), Alfred Asterjadhi. 13 CIDs) [10:25’-10:39’]

Laurent Cariou takes over the Chair position while Alfred presents.

Alfred presents the resolutions.

Move to approve resolutions to the CIDs:

* 4660, 4661, 5078, 5145, 5158, 5193, 5240, 5951, 5955, 5963, 6074, 6353, 6391, 6649, 6765, 6955, 7410, 7589, 7590, 8325 in [11-22/749r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0749-04-00be-mac-cr-miscellaneous-no-dcns.docx) *[20 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Abhishek Patil Second: Bin Tian

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 401 (Quarantine-4)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 5692 in [11-21/1793r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1793-08-00be-cc36-cr-for-enterprise-grade-tid-mapping.docx)  *[18 CIDs, Discussed on May 11, 2022; SP: 76Y, 55N, 18A, Motion\* on May 16’22: 99Y, 83N, 18A]*

Move: Ming Gan Second: Rubayet Shafin

Discussion: None.

Result: Approved with unanimous consent.

* 1. WG LB Motion

Having approved changes to TGbe D1.0, as defined in [11-21/1018r63](https://mentor.ieee.org/802.11/dcn/21/11-21-1018-63-00be-ieee-802-11be-cc36-comments.xlsx), in addition to motions passed during the TGbe Joint session of May 16th 2022.

Instruct the editor to prepare TGbe Draft D2.0

Approve a 35 day Working Group Technical Letter Ballot asking the question “Should TGbe Draft 2.0 be forwarded to SA Ballot?”

Discussion:

C: I think we should have more than 30 days, because the draft is so large.

C: Can you remove the extra text below.

C: Maybe we can have 40 days instead of 30.

Moved: Bin Tian Seconded: Mike Montemurro

Discussion:

C: I want the vote recorded.

Preliminary Result: Y/N/A: 159/5/15 🡪 Preliminary passes.

* 1. Timeline Update [10:55’-10:59’]

Move to amend TGbe Timeline as follows:

* PAR approved Mar 2019
* First TG meeting May 2019
* D0.1 Sept 2020
* D1.0 WG Comment Collection May 2021
* D2.0 WG Letter Ballot May 2022
* D3.0 LB Nov 2022
* Initial SA Ballot (D4.0) May 2023
* Final 802.11 WG approval Mar 2024
* 802 EC approval Mar 2024
* RevCom and SASB approval May 2024

Move: Laurent Cariou Second: Abhishek Patil

Discussion: None.

Result: Approved with unanimous consent.

* 1. Ad-hoc prior to September F2F [10:50’-10:54’]

Approve a TGbe ad-hoc meeting on September <7-9>, 2022 for the purpose of TGbe comment resolution and consideration of document submissions.

Discussion:

C: I object about having TDB in a motion.

C: I would like to have it on the Sunday in Hawaii prior the meeting.

Move: Abhishek Patil Second: George Cherian

Discussion: Some.

Preliminary Result: Y/N/A: 98/18/34 🡪 Preliminary passes.

Result: Y/N/A: 96/18/34 🡪 pass.

1. AoB:
	1. Alfred thanks the group for all good work.
2. Adjourn

# Appendix 1: Motion results

## Motion 384

Calculated Results : 78Y, 32N, 52A, [70%]

Amended Results : 73Y, 32N, 52A, [69%]

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 [V] Li-Hsiang Sun Sony | | | X |

 [V] Yonggang Fang MediaTek | | | X |

 [V] Timothy Jeffries - Futurewei | X | | |

 [V] Minyoung Park Intel | X | | |

 [V] Dong Wei, NXP | | | X |

 [V] Al Petrick | | X | |

 [V]Kanke Wu Qualcomm | X | | |

 [V] Peshal Nayak, Samsung Research America | X | | |

 [V] Tianyu Wu Apple | X | | |

 SK Yong | X | | |

 [V] Sai [Synaptics] | | | X |

 [V] Yongho Seok MediaTek | | | X |

 [V] Thomas Pare MediaTek | X | | |

 [V] Geert Awater, Qualcomm | X | | |

 [V] Kirill Chemrov IITP RAS | | X | |

 [V] Dennis Sundman, Ericsson | | | X |

 [V] Jouni Malinen Qualcomm | X | | |

 [V] Stephen McCann, Huawei | | X | |

 [V] Assaf Kasher Qualcomm | X | | |

 [V] Stephane Baron Canon | | | X |

 [V] Romain GUIGNARD Canon | | | X |

 [V] Massinissa Lalam, Sagemcom | X | | |

 [V] Brice Le Houerou Canon | | | X |

 [V]Evgeny Khorov, IITP RAS | | X | |

 [V] Arik Klein Huawei | | | X |

 [V] Laurent Cariou, Intel | X | | |

 [V] Sebastian Max Ericsson | | | X |

 [V] Solomon Trainin, Qualcomm | X | | |

 [V] Guido R. Hiertz, Ericsson GmbH | | | X |

 [V] Oded Redlich Huawei | | X | |

 [V] Michail Koundourakis, Samsung | | | X |

 [V] Aleksey Kureev IITP RAS | | X | |

 [V] Ezer Melzer, Huawei | | X | |

 [V] Mehmet Ali Aygul; Vestel | | | X |

 [V] Allert van Zelst, Qualcomm | X | | |

 [V] Albert Bredewoud, Broadcom | | | X |

 [V] Ilya Levitsky IITP RAS | | X | |

 [V] Vyacheslav Loginov, IITP RAS | | X | |

 [V] Sid Thakur [Apple] | | | X |

 [V] Shimi Shilo Huawei | | X | |

 [V] Dmitry Bankov, IITP RAS | | X | |

 [V] Dinakar Prabhakaran Broadcom | | | X |

 Sudhir, Infineon | | | X |

 [V] Prabodh Varshney Nokia | X | | |

 [V] Trivikram Gangur, Infineon | | | X |

 [V] Kazuto Yano ATR | | | X |

 [V] Insun Jang LGE | X | | |

 [V] Zhongjiang Yan Northwestern Polytechnical University | | X | |

 [V] Atsushi Shirakawa, Sharp | | | X |

 [V] Bo Li Northwestern Polytechnical University | | X | |

 [V] Ryuichi Hirata Sony | X | | |

 [V] Jinsoo Choi LG | | | X |

 [V] Jeongki Kim Ofinno | | | X |

 [V] Frank Chien-Fang Hsu, Mediatek | X | | |

 [V] Sanghyun Kim WILUS Inc. | X | | |

 [V] Ming Gan Huawei | | X | |

 [V] Akira Kishida NTT | | | X |

 [V] Chih-Chun Kuo, Mediatek | X | | |

 [V] Cheng-Ming Chen Qualcomm | X | | |

 [V] Hsin-De Lin Mediatek, Inc. | X | | |

 [v] Takahiro Yokoyama, ARIB, Japan | | | X |

 [V] Jinyoung Chun, LG | | | X |

 Veena Srivatsa | X | | | INVALID VOTE: NON VOTER

 [V] Tomoko Adachi Toshiba | X | | |

 [V] Lan Peng Huawei | | X | |

 [V] Mao Yu Anyka | X | | |

 [V] Hiroyuki Motozuka, Panasonic | | | X |

 [PV] Ronny Peng, MediaTek | X | | | INVALID VOTE: NON VOTER

 [V] Mengshi Hu Huawei | | X | |

 [V] Yiqing Li Huawei | | X | |

 [V] XIANDONG DONG-XIAOMI | | | X |

 [V] Yousi Lin Huawei | | X | |

 [V] Xiangxin Gu, Unisoc | X | | |

 [V] Guogang Huang Huawei | | X | |

 [PV] Wayne Wu, Mediatek | X | | | INVALID VOTE: NON VOTER

 Gorthi Hemamali CSTIPL CSS ICW ENG WFS | X | | | INVALID VOTE: NO MATCH FOUND!

 [V] Jason Yuchen Guo Huawei | | X | |

 [V] Steve TS Yang Mediatek | X | | |

 [V]Jia Jia,Huawei | | X | |

 [V] Seungho Choo Senscomm | | | X |

 [V] Yunbo Li, Huawei | | X | |

 [V] Sundeep Kancherla, Infineon | | | X |

 [V] Rojan Chitrakar Panasonic | | | X |

 [V] chenchen Liu Huawei | | X | |

 [V] Ross Jian Yu Huawei | | X | |

 [V] BO SUN | | | X |

 [V] James Chiang, MediaTek | X | | |

 Bo Gong Huawei | | X | |

 [V] Bruce Chung, Realtek | | | X |

 [V]HungTao Hsieh, Mediatek | X | | |

 [V]Tony Zeng Huawei | | X | |

 [V] Liuming Lu OPPO | | | X |

 [V] Chenhe Ji Huawei | | X | |

 [V] Xiaofei Wang InterDigital | | X | |

 [V] Mahmoud Kamel InterDigital | | X | |

 [V] Junghoon Suh Huawei | | X | |

 [V] Dave Halasz, Morse Micro | | | X |

 [V] Mike Montemurro Huawei | | | X |

 Jarkko Kneckt | X | | |

 [V]John Yi, SPRD | X | | |

 [V] Bibhu Mohanty, Qualcomm | X | | |

 [V] Gaurang Naik Qualcomm | X | | |

 [V] Rubayet Shafin, Samsung Research America | X | | |

 [V] Meriam Rezk Qualcomm | X | | |

 [V] Po-Kai Huang Intel | X | | |

 [V] Liangxiao Xin Sony | | | X |

 [V] Kiran - CY/IFX | X | | |

 [V] Chitto Ghosh - Meta | X | | |

 [V] Liwen Chu NXP | X | | |

 [V] Chunyu Hu [Meta] | | | X |

 [V] Qi Wang, Apple | | | X |

 [V] Abhishek Patil Qualcomm | X | | |

 [V] George Cherian Qualcomm | X | | |

 [V] Abdel Karim Ajami, Qualcomm | X | | |

 [V] James Yee, MediaTek | | | X |

 [V] Jon Rosdahl, Qualcomm | X | | |

 Kaiying Lu | X | | |

 [V] Binita Gupta, Meta | | | X |

 [V] Duncan Ho, Qualcomm | X | | |

 [V] Matthew Fischer {Broadcom} | X | | |

 [V] Morteza Mehrnoush, Meta | X | | |

 [V] Dibakar Das, Intel | X | | |

 [V] Alice Jialing Li Chen Qualcomm | X | | |

 [V] Wook Bong Lee Samsung | | | X |

 [V] Yanjun Sun Qualcomm | X | | |

 [V] M. Kumail Haider, Meta | X | | |

 [V]Shuling Julia Feng, Mediatek | | | X |

 [V] Pooya Monajemi Cisco | X | | |

 Brian Hart | X | | |

 [V] Allan Jones - Activision | | | X |

 Lochan Verma | X | | |

 Thomas Gee | X | | | INVALID VOTE: NO MATCH FOUND!

 [V] Yan Xin Huawei | | X | |

 [V] Subir Peraton Labs | X | | |

 [V] Edward Au, Huawei | | | X |

 [V] Ray Yang, InterDigital | | | X |

 [V] AN NGUYEN DHS | | | X |

 [V] Kiseon Ryu Ofinno | | | X |

 [V] Osama Aboul-Magd Huawei | | X | |

 [V] Chaoming Luo, OPPO | | | X |

 [V] Mark Hamilton CommScope/Ruckus | X | | |

 [V] Vamsi Amalladinne, Qualcomm | X | | |

 [V] Naveen Kakani, Qualcomm | X | | |

 [V] Evelyn Chen,, Ericsson | | | X |

 Ian Sherlock | X | | |

 [V] Dmitry Akhmetov, Intel | X | | |

 Daniel Borges | X | | |

 [V] Youhan Kim, Qualcomm | X | | |

 Mohamed Abouelseoud | X | | |

 [v] Rolf de Vegt Qualcomm | X | | |

 [V] Chao-Chun Wang MediaTek | | | X |

 [V] Kapil Rai, Qualcomm | X | | |

 [V] Bin Tian Qualcomm | X | | |

 Debashis Dash | X | | |

 [V] Paul Strauch, Qualcomm | X | | |

 [V] Dave Intel | X | | |

 [Mediatek] Gabor Bajko | X | | |

 [V] Cheng Chen, Intel | X | | |

 [V] Paul Cheng MediaTek | | | X |

 [V] Gaurav Patwardhan HPE | X | | |

 [V] Eldad Perahia, HPE | X | | |

 [V] Thomas Derham Broadcom | X | | |

## Motion 385

Calculated Results : 61Y, 65N, 35A, [48%]

Amended Results : 60Y, 63N, 35A, [48%]

---------------------------------------------

---------------------------------------------

 [V] Li-Hsiang Sun Sony | X | | |

 [V] Yonggang Fang MediaTek | | X | |

 [V] Timothy Jeffries - Futurewei | X | | |

 [V] Minyoung Park Intel | X | | |

 [V] Al Petrick | | X | |

 [V] Boon Loong Ng Samsung Research America | X | | |

 [V]Kanke Wu Qualcomm | | X | |

 [V] Peshal Nayak, Samsung Research America | X | | |

 SK Yong | | | X |

 [V] Sai [Synaptics] | | | X |

 [V] Yongho Seok MediaTek | | X | |

 [V] Thomas Pare MediaTek | | X | |

 [V] Vishnu V Ratnam, Samsung Research America | X | | |

 [V] Geert Awater, Qualcomm | | X | |

 [V] Kirill Chemrov IITP RAS | X | | |

 [V] Dennis Sundman, Ericsson | | | X |

 [V] Jouni Malinen Qualcomm | | X | |

 [V] Stephen McCann, Huawei | X | | |

 [V] Assaf Kasher Qualcomm | | X | |

 [V] Thomas Handte Sony | | | X |

 [V] Stephane Baron Canon | | | X |

 [V] Romain GUIGNARD Canon | | | X |

 [V] Massinissa Lalam, Sagemcom | | X | |

 [V] Brice Le Houerou Canon | | | X |

 [V]Evgeny Khorov, IITP RAS | X | | |

 [V] Arik Klein Huawei | X | | |

 [V] Laurent Cariou, Intel | X | | |

 [V] Dror Regev Huawei | | | X |

 [V] Solomon Trainin, Qualcomm | | X | |

 [V] Oded Redlich Huawei | X | | |

 [V] Patrice NEZOU, Canon | | | X |

 [V] Menzo Wentink Qualcomm | | X | |

 [V] Aleksey Kureev IITP RAS | X | | |

 [V] Ezer Melzer, Huawei | X | | |

 [V] Allert van Zelst, Qualcomm | | X | |

 [V] Ilya Levitsky IITP RAS | X | | |

 [V] Vyacheslav Loginov, IITP RAS | X | | |

 [V] Ayush, infineon | | | X |

 [V] Sid Thakur [Apple] | | | X |

 [V] Shimi Shilo Huawei | X | | |

 [V] Dmitry Bankov, IITP RAS | X | | |

 [V] Mor Reich, Huawei | X | | |

 [V] Dinakar Prabhakaran Broadcom | | X | |

 Sudhir, Infineon | | X | |

 [V] Prabodh Varshney Nokia | | | X |

 [V] Ramya Thota , Infineon | | | X |

 [V] Kazuto Yano ATR | | | X |

 [V] Insun Jang LGE | | | X |

 [V] Zhongjiang Yan Northwestern Polytechnical University | X | | |

 [V] Atsushi Shirakawa, Sharp | | | X |

 [V] Bo Li Northwestern Polytechnical University | X | | |

 [V] Ryuichi Hirata Sony | X | | |

 [V] Jinsoo Choi LG | X | | |

 [V] Jeongki Kim Ofinno | X | | |

 [V] Frank Chien-Fang Hsu, Mediatek | | X | |

 [V] Sanghyun Kim WILUS Inc. | X | | |

 [V] Ming Gan Huawei | X | | |

 [V] Chih-Chun Kuo, Mediatek | | X | |

 [V] Cheng-Ming Chen Qualcomm | | X | |

 [V] Hsin-De Lin Mediatek, Inc. | | X | |

 [V]sangho seo. Infineon | | | X |

 [V] Jinyoung Chun, LG | | | X |

 [V] Jonghun Han Samsung | X | | |

 [V] Greg Geonjung Ko WILUS | X | | |

 [V] Tomoko Adachi Toshiba | X | | |

 [V] Lan Peng Huawei | X | | |

 [V] Mao Yu Anyka | X | | |

 [V]Boyce Bo Yang | X | | |

 [PV] Ronny Peng, MediaTek | | X | | INVALID VOTE: NON VOTER

 [V] Mengshi Hu Huawei | X | | |

 [V] Yiqing Li Huawei | X | | |

 [V] XIANDONG DONG-XIAOMI | X | | |

 [V] Yousi Lin Huawei | X | | |

 [V] Xiangxin Gu, Unisoc | | X | |

 [V] Guogang Huang Huawei | X | | |

 [PV] Wayne Wu, Mediatek | | X | | INVALID VOTE: NON VOTER

 Gorthi Hemamali CSTIPL CSS ICW ENG WFS | X | | | INVALID VOTE: NO MATCH FOUND!

 [V] Jason Yuchen Guo Huawei | X | | |

 [V] Steve TS Yang Mediatek | | X | |

 [V]Jia Jia,Huawei | X | | |

 [V] Seungho Choo Senscomm | | | X |

 [V] Yunbo Li, Huawei | X | | |

 [V] Sundeep Kancherla, Infineon | | | X |

 [V] Rojan Chitrakar Panasonic | X | | |

 [V] Ross Jian Yu Huawei | X | | |

 [V] BO SUN | | | X |

 [V] HaoHua Kang, MediaTek | | X | |

 [V] James Chiang, MediaTek | | X | |

 [V] Bruce Chung, Realtek | X | | |

 [V]HungTao Hsieh, Mediatek | | X | |

 [V]Tony Zeng Huawei | X | | |

 [V] Liuming Lu OPPO | | | X |

 [V] Chenhe Ji Huawei | X | | |

 [V] John Wullert, Peraton Labs | | | X |

 [V] Junghoon Suh Huawei | X | | |

 [V] Mike Montemurro Huawei | X | | |

 [V] Hassan Omar Huawei | | | X |

 [V] Zinan Lin InterDigital | | X | |

 Jarkko Kneckt | X | | |

 [V]John Yi, SPRD | | X | |

 [V] Bibhu Mohanty, Qualcomm | | X | |

 [V] Gaurang Naik Qualcomm | | X | |

 [V] Rubayet Shafin, Samsung Research America | X | | |

 [V] Meriam Rezk Qualcomm | | X | |

 [V] Po-Kai Huang Intel | X | | |

 [V] Liangxiao Xin Sony | X | | |

 [V] Kiran - CY/IFX | | X | |

 [V] Liwen Chu NXP | X | | |

 [V] Lei Wang Futurewei | X | | |

 [V] Chunyu Hu [Meta] | | X | |

 [V] Qi Wang, Apple | | | X |

 [V] Abhishek Patil Qualcomm | | X | |

 [V] George Cherian Qualcomm | | X | |

 [V] Abdel Karim Ajami, Qualcomm | | X | |

 [V] William Carney, Sony Group | X | | |

 [V] James Yee, MediaTek | | X | |

 [V] Jon Rosdahl, Qualcomm | | X | |

 [V] Binita Gupta, Meta | | X | |

 [V] Matthew Fischer {Broadcom} | | X | |

 [V] Morteza Mehrnoush, Meta | | X | |

 [V] Dibakar Das, Intel | X | | |

 [V] Alice Jialing Li Chen Qualcomm | | X | |

 [V] Wook Bong Lee Samsung | | | X |

 [V] Yanjun Sun Qualcomm | | X | |

 [V] M. Kumail Haider, Meta | | X | |

 [V] Payam Torab | Meta | | | X |

 [V]Shuling Julia Feng, Mediatek | | X | |

 [V] Pooya Monajemi Cisco | | X | |

 [V] Allan Jones - Activision | X | | |

 Lochan Verma | | | X |

 [V] Yan Xin Huawei | X | | |

 [V] Carol Ansley Cox | | X | |

 [V] Subir Peraton Labs | | | X |

 [V] Lili Hervieu CableLabs | | | X |

 [V] Ray Yang, InterDigital | | | X |

 [V] AN NGUYEN DHS | | X | |

 [V] Kiseon Ryu Ofinno | | | X |

 [V] Chaoming Luo, OPPO | | | X |

 [V] Mark Hamilton CommScope/Ruckus | | | X |

 [V] Vamsi Amalladinne, Qualcomm | | X | |

 [V] Junyoung Nam Qualcomm | | X | |

 [V] Naveen Kakani, Qualcomm | | X | |

 Ian Sherlock | | X | |

 Daniel Borges | | X | |

 [V] Youhan Kim, Qualcomm | | X | |

 Mohamed Abouelseoud | X | | |

 [v] Rolf de Vegt Qualcomm | | X | |

 [V] Chao-Chun Wang MediaTek | | X | |

 [V] Kapil Rai, Qualcomm | | X | |

 [V] Bin Tian Qualcomm | | X | |

 [V] Srinivas Kandala Samsung | | X | |

 Debashis Dash | | | X |

 [V] Paul Strauch, Qualcomm | | X | |

 [V] Dave Intel | X | | |

 [Mediatek] Gabor Bajko | | X | |

 [V] Cheng Chen, Intel | X | | |

 [V] Paul Cheng MediaTek | | X | |

 [V] Gaurav Patwardhan HPE | | X | |

 [V] Eldad Perahia, HPE | | X | |

 [V] Li Ma mediatek | | X | |

 [V] Duncan Ho Qualcomm | | X | |

## Motion 394

Calculated Results : 99Y, 83N, 18A, [54%]

Amended Results : 95Y, 79N, 18A, [54%]

---------------------------------------------

---------------------------------------------

 [V] Jim Lansford Qualcomm | X | | |

 [V] Abdel Karim Ajami, Qualcomm | X | | |

 [V] Ray Yang, InterDigital | | | X |

 [V] Yongho Seok MediaTek | X | | |

 [V] Rakesh Taori , Infineon | | X | |

 [V] Wook Bong Lee Samsung | | | X |

 [V] Minyoung Park Intel | X | | |

 [V] George Cherian Qualcomm | X | | |

 [V] Jon Rosdahl, Qualcomm | X | | |

 [V] Trivikram Gangur, Infineon | | X | |

 Yong Liu | X | | |

 [V] Rubayet Shafin, Samsung Research America | | X | |

 [V] Kiseon Ryu Ofinno | | X | |

 [V] Lei Wang Futurewei | X | | |

 [V] Kapil Rai, Qualcomm | X | | |

 V Ian Sherlock | | X | |

 Naseem Khan | | X | | INVALID VOTE: NON VOTER

 [V] Xiaogang Chen INTEL | X | | |

 [V] Ross Jian Yu Huawei | | X | |

 [V] Lei Huang OPPO | X | | |

 [V] Liuming Lu OPPO | X | | |

 [V] Yiqing Li Huawei | | X | |

 [V] Jason Yuchen Guo Huawei | | X | |

 [V] Mao Yang Northwestern Polytechnical University | | X | |

 [V] James Chiang, MediaTek | X | | |

 [V] Chenhe Ji Huawei | | X | |

 [V] Mengshi Hu Huawei | | X | |

 [V] Ramya Thota , Infineon | | X | |

 [V] Sundeep Kancherla, Infineon | | X | |

 [V]Jay Yang[Nokia] | | X | |

 [V] Bo Gong Huawei | | X | |

 [V]Yan Li,ZTE | | X | |

 [V] Guogang Huang Huawei | | X | |

 [V]Mingjie Dong,Huawei | | X | |

 [V] Steve TS Yang Mediatek | X | | |

 [V] Yunbo Li, Huawei | | X | |

 [V]Steven Qi Wang Huawei | | X | |

 [V]Chenchen Liu Huawei | | X | |

 [V] George Chih-Chun Kuo, Mediatek | X | | |

 [V]Xiaoman Shen Huawei | | X | |

 [V] Jiayin Zhang - Huawei | | X | |

 [PV] Ronny Peng, MediaTek | X | | | INVALID VOTE: NON VOTER

 [V] Seungho Choo Senscomm | X | | |

 [V] Rojan Chitrakar Panasonic | X | | |

 [V] Hsin-De Lin Mediatek, Inc. | X | | |

 [V] BO SUN | | X | |

 [V]Lan Peng Huawei | | X | |

 Wei Lin Huawei | | X | |

 [V] Lin-Kai Chiu, Mediatek Inc. | X | | |

 Kevin Tsai ??? | X | | | INVALID VOTE: NO MATCH FOUND!

 [PV] Wayne Wu, Mediatek | X | | | INVALID VOTE: NON VOTER

 [V] Osama Abpul-Magd Huawei | | X | |

 [V] Xiaofei Wang InterDigital | | | X |

 [V] Mahmoud Kamel InterDigital | | | X |

 [V] Hanqing Lou InterDigital | | | X |

 [V] Boon Loong Ng Samsung Research America | | | X |

 [V] Peter Ecclesine, Cisco Systems | X | | |

 [V] Po-Kai Huang Intel | X | | |

 [V] Yonggang Fang MediaTek | X | | |

 [V] Noel Stott Keysight Technologies | X | | |

 [V] Kiran Rege [Peraton Labs] | | X | |

 [V] Liwen Chu NXP | | X | |

 [V] Bibhu Mohanty, Qualcomm | X | | |

 [V] Li-Hsiang Sun Sony | | X | |

 Daniel Borges | X | | |

 [V] Chunyu Hu [Meta] | X | | |

 [V] Bin Tian Qualcomm | X | | |

 [V] Chitto Ghosh - Meta | | X | |

 [V] Liangxiao Xin Sony | | X | |

 [V]John Yi, SPRD | | | X |

 [V] Abhishek Patil Qualcomm | X | | |

 [V] Sigurd Schelstraete MaxLinear | | X | |

 [V] Dibakar Das, Intel | X | | |

 Kanke Wu Qualcomm | X | | |

 [V] Gaurang Naik Qualcomm | X | | |

 Brian Hart | X | | |

 [V] Kiran - CY/IFX | | X | |

 [V] Qi Wang, Apple | X | | |

 [V] James Yee, MediaTek | X | | |

 Jarkko Kneckt | X | | |

 [V] Alice Jialing Li Chen Qualcomm | X | | |

 [V] Srinivas kandala Samsung | | X | |

 SK Yong | X | | |

 [V] Meriam Rezk Qualcomm | X | | |

 [V] Duncan Ho, Qualcomm | X | | |

 [V] Yanjun Sun Qualcomm | X | | |

 [V] Gaurav Patwardhan HPE | X | | |

 [V] M. Kumail Haider, Meta | X | | |

 [V] Mohamed Abouelseoud Apple | X | | |

 [V] Hui-Ling Lou | X | | |

 [V] Rui Cao [NXP] | | X | |

 [V] Morteza Mehrnoush, Meta | X | | |

 [V] VK Jones - Qualcomm | X | | |

 Yan Zhang | | X | |

 Matthew Fischer Broadcom | X | | |

 [V] Huizhao Wang onsemi | | | X |

 [V] Carol Ansley Cox | | | X |

 Edward Au | X | | |

 [V] John Wullert, Peraton Labs | | X | |

 Jerome Henry | X | | |

 [V] Frank Suraci DHS | | X | |

 [V] Zinan Lin InterDigital | | | X |

 [V] AN NGUYEN DHS | X | | |

 [V] Kazuto Yano ATR | | X | |

 [V] SunHee Baek LGE | | X | |

 [V] Atsushi Shirakawa, Sharp | | X | |

 Tongxin Shu Huawei | | X | | INVALID VOTE: NO MATCH FOUND!

 [V] Cheng-Ming Chen Qualcomm | X | | |

 [V] Hiroyuki Motozuka, Panasonic | | | X |

 [V] Jeongki Kim Ofinno | | X | |

 [V] Tomoko Adachi Toshiba | X | | |

 [V] Ryuichi Hirata Sony | | X | |

 [V]Boyce Bo Yang | | X | |

 [V] Jinsoo Choi LG | | X | |

 [V] Jinyoung Chun, LG | | X | |

 [V] Sanghyun Kim WILUS Inc. | | | X |

 [V] Jonghun Han Samsung | | X | |

 [V] Insun Jang LGE | | X | |

 [V] Sangho Seo, Infineon | | X | |

 [V] Ming Gan Huawei | | | X |

 [V] Zhiqiang Han,ZTE | | X | |

 [V] Yousi Lin Huawei | | X | |

 [V] Mengyao Ma Huawei | | X | |

 [V]Jia Jia,Huawei | | X | |

 [V] Myeongjin Kim Samsung | X | | |

 [V] Bo Li, Northwestern Polytechnical University | | X | |

 [V] Zhongjiang Yan, Northwestern Polytechnical University | | X | |

 [V] Eason Chen-Yi Chang, Mediatek | X | | |

 [V] Subir Peraton Labs | | X | |

 [V] Prabodh Varshney Nokia | | X | |

 Veena Srivatsa | | X | | INVALID VOTE: NON VOTER

 [V] Prashant Kota, Infineon Technologies | | X | |

 [V] Kunal Lal Synaptics | | X | |

 [V]Ayush, Infineon | | X | |

 Kasargod Sudhir Kumar CSTIPL CSS ICW ENG WFS SYS 1 | | X | |

 [V] Amit Shaw, Infineon Technology | | X | |

 [V] Ankit Sethi NXP | X | | |

 Gorthi Hemamali CSTIPL CSS ICW ENG WFS | | X | | INVALID VOTE: NO MATCH FOUND!

 [V] Pascal Viger,Canon | | X | |

 [V] Dmitry Bankov, IITP RAS | | X | |

 [V] Albert Bredewoud, Broadcom | | | X |

 [V] Dror Regev Huawei | X | | |

 [V] Ilya Levitsky IITP RAS | | X | |

 [V] Dennis Sundman, Ericsson | X | | |

 [V] Geert Awater, Qualcomm | X | | |

 [V] Menzo Wentink Qualcomm | X | | |

 [V] Allert van Zelst, Qualcomm | X | | |

 [V] Genadiy Tsodik Huawei | X | | |

 [V] Stephane Baron Canon | | X | |

 [V] Laurent Cariou, Intel | X | | |

 [V] Jouni Malinen Qualcomm | X | | |

 [V] Stephen McCann, Huawei | | X | |

 [V] Pooya Monajemi Cisco | X | | |

 [V] Shimi Shilo Huawei | X | | |

 [V] Brice Le Houerou Canon | | X | |

 [V] Mor Reich, Huawei | X | | |

 [V] Richard Van Nee Qualcomm | X | | |

 [V] Kirill Chemrov IITP RAS | | X | |

 [V] Ezer Melzer, Huawei | X | | |

 [V] Joerg Robert, TU Ilmenau/Fraunhofer IIS | | | X |

 [V] Julien SEVIN Canon | | X | |

 [V] Mickael LORGEOUX Canon | | X | |

 [V] Arik Klein Huawei | X | | |

 [V]Evgeny Khorov, IITP RAS | | X | |

 [V] Patrice NEZOU, Canon | | X | |

 [V] Vyacheslav Loginov, IITP RAS | | X | |

 [V] David Boldy Broadcom | X | | |

 [V] Sebastian Max Ericsson | X | | |

 [V] Alexander Tolpin, Intel | X | | |

 [V] Oded Redlich Huawei | X | | |

 [V] Özlem ÖZDEN ZENGIN - VESTEL, KU | | | X |

 Sidharth Thakur | X | | |

 [V] Romain GUIGNARD Canon | | X | |

 [V] Alecsander Eitan Qualcomm | X | | |

 [V] Naveen Kakani, Qualcomm | X | | |

 [V] Vamsi Amalladinne, Qualcomm | X | | |

 Andrew Myles | X | | |

 [V] Joseph Levy, InterDigital | | | X |

 [V] Binita Gupta, Meta | X | | |

 [V] Robert Stacey, Intel | X | | |

 [V] Eugene Baik, Qualcomm | X | | |

 [V] Xilin Cheng, NXP | | X | |

 [V] Debashis Dash, Apple | X | | |

 [PV] Shengquan Hu Mediatek | X | | | INVALID VOTE: NON VOTER

 [V] Saju Palayur, Maxlinear | | X | |

 [V]Shuling Julia Feng, Mediatek | X | | |

 [V] Anuj Batra Apple | X | | |

 [Mediatek] Gabor Bajko | X | | |

 [V] Paul Strauch, Qualcomm | X | | |

 [V] Jianhan Liu, Mediatek | X | | |

 [V] Sai Nanda [Synaptics] | | X | |

 [V] Dmitry Akhmetov, Intel | X | | |

 [V] Chao-Chun Wang MediaTek | X | | |

 [V] Youhan Kim, Qualcomm | X | | |

 zhou lan | X | | |

 [V] Massinissa Lalam, Sagemcom | | | X |

 [V] Lochan Verma, Apple | X | | |

 [V] Yujin Noh Senscomm | X | | |

 [V] Cheng Chen, Intel | X | | |

 [V] Allan Jones - Activision | X | | |